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XML Protocol for Computer Supported Telecommunications Applications (CSTA) Phase III

Standard

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Standard

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4th Edition / December 2006

XML Protocol for Computer Supported Telecommunications Applications (CSTA) Phase III

Brief History

This Standard defines an XML protocol for Phase III of Computer Supported Telecommunications Applications (CSTA), 7th edition. This Standard is part of a Suite of Standards and Technical Reports for Phase III of CSTA. All of the Standards and Technical Reports in the Suite are based on practical experience of ECMA member companies and each one represents a pragmatic and widely-based consensus.

Phase III of CSTA extends the previous Phase I and Phase II Standards in major theme directions as well as numerous details. This incorporates technology based upon the *versit* CTI Encyclopedia (Version 1.0), which was contributed to ECMA by *versit*.

The 3rd edition of ECMA-348, Web Services Description Language (WSDL) for CSTA Phase III, specifies a set of WSDL schemas for this 4th edition of Phase III XML Protocol for CSTA.

Adopted as 4th Edition of Standard ECMA-323 by the General Assembly of December 2006.

XML Tools Acknowledgement

XML specified in this Standard has been checked using the XML SPY tool.

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1 Scope

This Standard specifies an XML protocol for the services described in ECMA-269, Services for Computer Supported Telecommunications Applications (CSTA) Phase III.

This Standard provides an alternative protocol to the ASN.1 based protocol specified in ECMA-285.

Clause 5 to Clause 8 inclusive describes the concepts underlying the request/response model, application association, notation and service, and a description of the template used in this Standard.

Clause 9 to Clause 26 inclusive contains CSTA-specific protocol details and forms the main part of this Standard.

Annex A specifies the PICS for this Standard.

Examples of CSTA XML encodings are provided in Annex E through Annex J.

2 Conformance

A manufacturer may select any part of the CSTA protocol, as specified in this Standard, for implementation on a system as long as it satisfies the minimum conformance requirements as specified in Clause 2 of ECMA-269.

A Protocol Implementation Conformance Statement (PICS) shall be used to specify the operations which are provided by a particular implementation. A PICS shall also specify the parameter options which are used.

2.1 Static Requirements

To conform to this Standard, a system shall support the syntax as defined by the XML 1.0 specification and the structures and data types as defined in the XML Schema Structure and XML Schema Data Types specifications for the purpose of generating and interpreting CSTA protocol information for the operations supported.

2.2 Dynamic Requirements

To conform to this Standard, a system shall:

a. follow the procedures as specified in this Standard, and ECMA-269, relevant to each CSTA operation that the system claims to implement; and

b. satisfy the definitions, as specified in ECMA-269, relevant to each CSTA service that the system claims to implement.

2.3 PICS Requirement

To conform to this Standard, the following shall be stated by the implementer when defining a PICS corresponding to an application or implementation:

a. which CSTA operations, as defined in ECMA-269, are supported by the system for the particular implementation; and

b. which optional parameters are supported by each supported operations.

A PICS proforma is specified in Annex A of this Standard.

2.4 XML Tag Options

To conform to this Standard, a system shall support at least one of the XML tag options listed below.

2.4.1 ECMA-323 Specified Tags

Instance documents shall include the following URI for the namespace and conform to the schemas as specified in Clause 9 through 26 of this Standard without transformations.

http://www.ecma-international.org/standards/ecma-323/csta/ed4

2.4.2 ECMA-323 Specified Short Tags

Instance documents shall include the following URI for the namespace and conform to the schemas as specified in Clause 9 through 26 of this Standard with transformations as specified in Annex D.

urn:www.ecma-international.org/standards/ecma-323/csta/ed4/short_tags

2.4.3 Dynamic Transformations

Implementation claiming conformance to this option shall support XML schema transformations e.g. using <?xml-stylesheet> for the schemas specified in Clause 9 through 26.

2.5 CSTA Over SIP (uaCSTA) Transport Mechanism Option

An implementation that conforms to ECMA-323 can also claim conformance to the “CSTA Over SIP (uaCSTA Transport Mechanism Option” by implementing the SIP and CSTA procedures specified in Annex C.

3 References

3.1 ECMA/ISO Standards and Technical Reports

ECMA-269	Services for Computer Supported Telecommunications Applications (CSTA) Phase III, 7th edition (December 2006)
ECMA-285	Protocol for Computer Supported Telecommunications Applications (CSTA) Phase III, 2nd edition (June 2000)
ECMA-354	Application Session Services (June 2004)
ECMA TR/72	Glossary of Definitions and Terminology for Computer Supported Telecommunications Applications (CSTA) Phase III, 3rd edition (June 2000)
ISO/IEC 8649:1996	Information technology - Open Systems Interconnection - Service definition for the Association Control Service Element (this corresponds to ITU-T Rec. X.217 1995)

3.2 World Wide Web Consortium Specifications

XML 1.0	XML 1.0. W3C Recommendation February 1998 (revised October 2000)
XML Schema Part 1	XML Schema Language Part 1: Structures. W3C Recommendation 2 May 2001
XML Schema Part 2	XML Schema Language Part 2: Datatypes. W3C Recommendation 2 May 2001
SOAP 1.1	Simple Object Access Protocol (SOAP) 1.1, W3C Note 08 May 2000

4 Definitions and Abbreviations

CSTA-specific terminology is defined in ECMA TR/72.

5 CSTA Service Definition Model

CSTA services specified in ECMA-269 are modeled as a request/response interaction.

Typically, one entity requests that a particular operation be performed; the other entity attempts to perform the operation and responds to the requestor.

5.1 Request/Response Interactions

CSTA services consist of the following types of request/response interactions:

- Services which specify a response in case of success or failure. The protocol description for these services includes a response element that represents the success (i.e. positive acknowledgement). In case of service failure, a fault element is used to provide the failure information (i.e. negative acknowledgement).

- Services which only specify a response in case of failure. The protocol description for these services do not include a response element. A fault element is used to provide the failure information (i.e. negative acknowledgement).

For CSTA event reports, no response is generated.

5.2 Request/Response Protocol Requirements

This Standard specifies CSTA-specific XML-encoded content for messages that are sent across a CSTA Service boundary. Typically this CSTA-specific XML is enveloped by a request/response protocol that provides a mechanism for correlating a CSTA request with a CSTA response, manages faults, defines header information, etc.

This Standard does not mandate that a specific request/response protocol be used. However, this Standard provides examples of how the CSTA-specific XML can be used with several industry request/ response protocols and transports such as SOAP (Simple Object Access Protocol), HTTP, and TCP. These examples are provided beginning in Annex H.

5.3 Cross Referencing of Event Reports

The Monitor Cross Reference Identifier in CSTA event reports is used to correlate events to an earlier Monitor Start service request (see 6.7.2.1 of ECMA-269).

5.4 Handling of Private Data

If an entity receives CSTA Private Data in a CSTA message, and it can not recognize the information contained, the CSTA Private Data shall be discarded, and the rest of the message shall be processed.

6 Interconnection service boundary

The protocol in this Standard is an OSI Application Layer protocol that assumes certain services are provided by the underlying layers, and these services are also assumed by the protocol for CSTA.

This protocol also provides a mechanism for secure transmission of CSTA messages as defined in this Standard.

7 Association Management

The protocol in this Standard operates in the context of an application association as specifed in ECMA-269 Clause 7. This application association can be achieved by:

- an implicit association achieved via off-line agreement; or
- an explicit association that is achieved dynamically.

7.1 Implicit association

An a-priori agreement exists between switching and computing functions: the application context is implicit, dynamic negotiation is not possible. See ECMA-269 7.1 and 7.2 for more information.

7.2 Explicit association

An explicit application association is established by a process of exchanging messages that define the application context for the association.

This Standard does not require that a particular standard be used as part of the application association establishment procedure.

When ACSE (ISO/IEC 8649) is used to establish an application association per 7.3 of ECMA-269, the CSTA Association Information includes CSTA Version information that indicates the CSTA protocol versions supported by an implementation.

The protocol defined in this Standard is indicated by setting the following bit in the CSTAVersion parameter of the CSTA Association Information as defined in 8.2.2 of ECMA-285.

- versionNine when using the ECMA-323 Specified Tag option (see 2.4.1)

- versionTen when using the ECMA-323 Specified Short Tag option (see 2.4.2)
- versionEleven when using the Dynamic Transformation option (see 2.4.3)

Note that the ACSE messages are ASN.1 encoded while the CSTA messages are XML encoded as defined by this Standard.

ECMA-354, Application Session Services can also be used to establish an application association per 7.4 of ECMA-269. When this Standard is used with ECMA-354 the following namespace is provided in the requestedProtocolVersions element of the Start Application Session service:

- http://www.ecma-international.org/standards/ecma-323/csta/ed4 when using the ECMA-323 Specified Tag option (see 2.4.1)
- urn:www.ecma-international.org/standards/ecma-323/csta/ed4/short_tags when using the ECMA-323 Specified Short Tag option (see 2.4.2)

http://www.ecma-international.org/standards/ecma-323/csta/ed4/dynamic_transformations when using the Dynamic Transformation option (see 2.4.3)

8 XML Template Description

This Clause describes the template format used to describe the XML schemas for CSTA services, events, and parameter types as specified in ECMA-269.

The template consists of the following parts:

- XML header - this consists of the text “<?xml version="1.0" encoding="UTF-8"?>” which identifies the XML version used.
- XML Schema header - this identifies the start of an XML schema and provides information such as:
  - the target namespace. In this edition of the Standard the target namespace is defined as “http://www.ecma-international.org/standards/ecma-323/csta/ed4”. *Note that this namespace is different than the namespace used in ECMA-323, 1st Edition through ECMA-323, 3rd Edition.*
  - the csta namespace is defined in the same way as the target namespace. XML names that refer to names in the CSTA namespace are prefixed with “csta:”.
  - the xsd namespace. This identifies the XML Schema. XML names that refer to names in the XML Schema namespace are prefixed with “xsd:”.
  - the element form default is specified as “qualified” which requires that all element names must be prefixed with a namespace (csta: or xsd:)
- documentation - this provides a comment that indicates the CSTA specific service, event report, or data-type set.
- included schemas - this provides a list of other CSTA schemas that are referenced by the service, event, or data type set.
- CSTA specific XML:
  - for CSTA services, this consists of a service request element and a service response element. (A comment is provided in some cases where a service response is not specified per ECMA-269.). This is followed, in some cases, by service-specific XML types that are referenced in the previous elements.
  - for CSTA event reports, this consists of an event report element followed, in some cases, by event-specific XML type definitions that are referenced in the event report element.
  - for CSTA data types, this consists of the data types that are referenced (included) by other CSTA XML schemas.

- XML Schema end tag - indicates the end of the schema.

Note that in general, each parameter defined in ECMA-269 is represented as an XML element and each parameter type in ECMA-269 is represented as an XML simple or complex type.

9 CSTA parameter types

9.1 Switching function objects

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-function-objects</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>

  <xsd:complexType name="CSTAObject">
    <xsd:choice>
      <xsd:element name="deviceObject" type="csta:DeviceID"/>
      <xsd:element name="callObject" type="csta:ConnectionID"/>
    </xsd:choice>
  </xsd:complexType>

</xsd:schema>
```

9.2 Device Identifiers

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-device-identifiers</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="ExtendedDeviceID">
    <xsd:choice>
      <xsd:element name="deviceIdentifier" type="csta:DeviceID"/>
      <xsd:element name="notKnown" type="csta:Empty"/>
      <xsd:element name="restricted" type="csta:Empty"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:complexType name="CallingDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:element name="callingDevice" type="csta:CallingDeviceID"/>

  <xsd:complexType name="CalledDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:element name="calledDevice" type="csta:CalledDeviceID"/>

  <xsd:complexType name="SubjectDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:complexType name="RedirectionDeviceID">
    <xsd:choice>
      <xsd:element name="numberDialed" type="csta:DeviceID"/>
      <xsd:element name="notKnown" type="csta:Empty"/>
      <xsd:element name="notRequired" type="csta:Empty"/>
      <xsd:element name="notSpecified" type="csta:Empty"/>
      <xsd:element name="restricted" type="csta:Empty"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:element name="lastRedirectionDevice" type="csta:RedirectionDeviceID"/>

  <xsd:complexType name="AssociatedCallingDeviceID">
    <xsd:complexContent>
      <xsd:extension base="csta:ExtendedDeviceID"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:element name="associatedCallingDevice" type="csta:AssociatedCallingDeviceID"/>

  <xsd:complexType name="AssociatedCalledDeviceID">
```

```
  <xsd:complexContent>
    <xsd:extension base="csta:ExtendedDeviceID"/>
  </xsd:complexContent>
</xsd:complexType>

<xsd:element name="associatedCalledDevice" type="csta:AssociatedCalledDeviceID"/>

<xsd:complexType name="NetworkCallingDeviceID">
  <xsd:complexContent>
    <xsd:extension base="csta:ExtendedDeviceID"/>
  </xsd:complexContent>
</xsd:complexType>

<xsd:element name="networkCallingDevice" type="csta:NetworkCallingDeviceID"/>

<xsd:complexType name="NetworkCalledDeviceID">
  <xsd:complexContent>
    <xsd:extension base="csta:ExtendedDeviceID"/>
  </xsd:complexContent>
</xsd:complexType>

<xsd:element name="networkCalledDevice" type="csta:NetworkCalledDeviceID"/>

<xsd:complexType name="DeviceID">
  <xsd:annotation>
    <xsd:documentation>uses flattened structure</xsd:documentation>
  </xsd:annotation>
  <xsd:simpleContent>
    <xsd:extension base="csta:DeviceIDType">
      <xsd:attribute name="typeOfNumber" default="dialingNumber">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="dialingNumber"/>
            <xsd:enumeration value="deviceNumber"/>
            <xsd:enumeration value="implicitPublic"/>
            <xsd:enumeration value="explicitPublic:unknown"/>
            <xsd:enumeration value="explicitPublic:international"/>
            <xsd:enumeration value="explicitPublic:national"/>
            <xsd:enumeration value="explicitPublic:networkspecific"/>
            <xsd:enumeration value="explicitPublic:subscriber"/>
            <xsd:enumeration value="explicitPublic:abbreviated"/>
            <xsd:enumeration value="implicitPrivate"/>
            <xsd:enumeration value="explicitPrivate:unknown"/>
            <xsd:enumeration value="explicitPrivate:level3RegionalNumber"/>
            <xsd:enumeration value="explicitPrivate:level2RegionalNumber"/>
            <xsd:enumeration value="explicitPrivate:level1RegionalNumber"/>
            <xsd:enumeration value="explicitPrivate:pTNSpecificNumber"/>
            <xsd:enumeration value="explicitPrivate:localNumber"/>
            <xsd:enumeration value="explicitPrivate:abbreviated"/>
            <xsd:enumeration value="other"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="mediaClass" type="csta:MediaClassAttribute" default="notKnown"/>
      <xsd:attribute name="connectionRate" use="optional">
        <xsd:simpleType>
          <xsd:restriction base="xsd:long">
            <xsd:minInclusive value="0"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="bitRate" default="constant">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="constant"/>
            <xsd:enumeration value="variable"/>
          </xsd:restriction>
```

```
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="delayTolerance" type="xsd:long" use="optional"/>
      <xsd:attribute name="switchingSubDomainCCIEType" use="optional">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="isdn"/>
            <xsd:enumeration value="atm"/>
            <xsd:enumeration value="isoEthernet"/>
            <xsd:enumeration value="rsvp"/>
            <xsd:enumeration value="sip"/>
            <xsd:enumeration value="other"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="switchingSubDomainInformationElements" use="optional">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary"/>
        </xsd:simpleType>
      </xsd:attribute>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

<xsd:simpleType name="OtherPlan">
  <xsd:restriction base="xsd:hexBinary"/>
</xsd:simpleType>

<xsd:simpleType name="DeviceIDType">
  <xsd:union memberTypes="csta:OtherPlan csta:Number"/>
</xsd:simpleType>

<xsd:simpleType name="Number">
  <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="MediaClassComponents">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="voice"/>
    <xsd:enumeration value="data"/>
    <xsd:enumeration value="image"/>
    <xsd:enumeration value="audio"/>
    <xsd:enumeration value="other"/>
    <xsd:enumeration value="notKnown"/>
    <xsd:enumeration value="chat"/>
    <xsd:enumeration value="email"/>
    <xsd:enumeration value="message"/>
    <xsd:enumeration value="im"/>
    <xsd:enumeration value="sms"/>
    <xsd:enumeration value="mms"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="MediaClassAttribute">
  <xsd:list itemType="csta:MediaClassComponents"/>
</xsd:simpleType>

</xsd:schema>
```

9.3 Call and connection identifiers

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-connection-identifiers</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>

  <xsd:complexType name="ConnectionID">
    <xsd:choice>
      <xsd:element name="deviceID" type="csta:LocalDeviceID"/>
      <xsd:sequence>
        <xsd:element name="callID" type="csta:CallID"/>
        <xsd:element name="deviceID" type="csta:LocalDeviceID" minOccurs="0"/>
      </xsd:sequence>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="CallID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="LocalDeviceID">
    <xsd:annotation>
      <xsd:documentation>uses flattened structure - all types included here</xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="csta:DeviceIDType">
        <xsd:attribute name="typeOfNumber" default="dialingNumber">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:enumeration value="dialingNumber"/>
              <xsd:enumeration value="deviceNumber"/>
              <xsd:enumeration value="implicitPublic"/>
              <xsd:enumeration value="explicitPublic:unknown"/>
              <xsd:enumeration value="explicitPublic:international"/>
              <xsd:enumeration value="explicitPublic:national"/>
              <xsd:enumeration value="explicitPublic:networkspecific"/>
              <xsd:enumeration value="explicitPublic:subscriber"/>
              <xsd:enumeration value="explicitPublic:abbreviated"/>
              <xsd:enumeration value="implicitPrivate"/>
              <xsd:enumeration value="explicitPrivate:unknown"/>
              <xsd:enumeration value="explicitPrivate:level3RegionalNumber"/>
              <xsd:enumeration value="explicitPrivate:level2RegionalNumber"/>
              <xsd:enumeration value="explicitPrivate:level1RegionalNumber"/>
              <xsd:enumeration value="explicitPrivate:pTNSpecificNumber"/>
              <xsd:enumeration value="explicitPrivate:localNumber"/>
              <xsd:enumeration value="explicitPrivate:abbreviated"/>
              <xsd:enumeration value="other"/>
              <xsd:enumeration value="dynamic"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:attribute>
        <xsd:attribute name="mediaClass" type="csta:MediaClassAttribute" default="notKnown"/>
        <xsd:attribute name="connectionRate" use="optional">
          <xsd:simpleType>
            <xsd:restriction base="xsd:long">
              <xsd:minInclusive value="0"/>
```

```
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="bitRate" default="constant">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="constant"/>
            <xsd:enumeration value="variable"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="delayTolerance" type="xsd:long" use="optional"/>
      <xsd:attribute name="switchingSubDomainCCIEType" use="optional">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="isdn"/>
            <xsd:enumeration value="atm"/>
            <xsd:enumeration value="isoEthernet"/>
            <xsd:enumeration value="rsvp"/>
            <xsd:enumeration value="sip"/>
            <xsd:enumeration value="other"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:attribute>
      <xsd:attribute name="switchingSubDomainInformationElements" use="optional">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary"/>
        </xsd:simpleType>
      </xsd:attribute>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>

</xsd:schema>
```

9.4 Connection states

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-connection-states</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="ConnectionList">
   <xsd:sequence>
   <xsd:element name="connectionListItem" type="csta:ConnectionListItem" maxOccurs="unbounded"/>        </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="LocalConnectionState">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="null"/>
      <xsd:enumeration value="initiated"/>
      <xsd:enumeration value="alerting"/>
      <xsd:enumeration value="connected"/>
      <xsd:enumeration value="hold"/>
      <xsd:enumeration value="queued"/>
      <xsd:enumeration value="fail"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="localConnectionInfo" type="csta:LocalConnectionState"/>

  <xsd:complexType name="ConnectionListItem">
    <xsd:sequence>
      <xsd:element name="newConnection" type="csta:ConnectionID" minOccurs="0"/>
      <xsd:element name="oldConnection" type="csta:ConnectionID" minOccurs="0"/>
      <xsd:element name="endpoint" minOccurs="0">
        <xsd:complexType>
          <xsd:choice>
            <xsd:element name="deviceID" type="csta:DeviceID"/>
            <xsd:element name="notKnown" type="csta:Empty"/>
            <xsd:element name="restricted" type="csta:Empty"/>
          </xsd:choice>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="associatedNID" minOccurs="0">
        <xsd:complexType>
          <xsd:choice>
            <xsd:element name="deviceID" type="csta:DeviceID"/>
            <xsd:element name="notKnown" type="csta:Empty"/>
          </xsd:choice>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="resultingConnectionInfo" type="csta:ConnectionInformation"
      minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

9.5 Status reporting

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-status-reporting</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="switching-function-objects.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="MonitorObject">
    <xsd:complexContent>
      <xsd:extension base="csta:CSTAObject"/>
    </xsd:complexContent>
  </xsd:complexType>

  <xsd:simpleType name="MonitorCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="monitorCrossRefID" type="csta:MonitorCrossRefID"/>
  <xsd:complexType name="MonitorFilter">
    <xsd:sequence>
      <xsd:element name="callcontrol" type="csta:CallControlEvents" minOccurs="0"/>
      <xsd:element name="callAssociated" type="csta:CallAssociatedEvents" minOccurs="0"/>
      <xsd:element name="mediaAttachment" type="csta:MediaAttachmentEvents" minOccurs="0"/>
      <xsd:element name="physicalDeviceFeature" type="csta:PhysicalDeviceFeatureEvents" minOccurs="0"/>
      <xsd:element name="logicalDeviceFeature" type="csta:LogicalDeviceFeatureEvents" minOccurs="0"/>
      <xsd:element name="maintenance" type="csta:DeviceMaintenanceEvents" minOccurs="0"/>
      <xsd:element name="voice" type="csta:VoiceEvents" minOccurs="0"/>
      <xsd:element name="private" type="csta:VendorSpecEvents" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="MonitorType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="call"/>
      <xsd:enumeration value="device"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="MonitorMediaClass">
    <xsd:sequence>
      <xsd:element name="voice" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="data" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="image" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="audio" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="chat" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="email" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="message" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="im" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="sms" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="mms" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
```

```
</xsd:complexType>

<xsd:complexType name="CallControlEvents">
  <xsd:sequence>
    <xsd:element name="bridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCleared" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferenced" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionCleared" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="delivered" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="digitsDialed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="diverted" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="established" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="held" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="networkCapabilitiesChanged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="networkReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="offered" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="originated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="retrieved" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="serviceInitiated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferred" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallAssociatedEvents">
  <xsd:sequence>
    <xsd:element name="callInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="charging" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="digitsGenerated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="telephonyTonesGenerated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="serviceCompletionFailure" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MediaAttachmentEvents">
  <xsd:sequence>
    <xsd:element name="mediaAttached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaDetached" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="PhysicalDeviceFeatureEvents">
  <xsd:sequence>
    <xsd:element name="buttonInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonPress" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="displayUpdated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hookswitch" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampMode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="messageWaiting" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneGain" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneMute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ringerStatus" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerMute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerVolume" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="LogicalDeviceFeatureEvents">
  <xsd:sequence>
    <xsd:element name="agentBusy" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentLoggedOn" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentLoggedOff" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentNotReady" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentReady" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentWorkingAfterCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="autoAnswer" type="xsd:boolean" minOccurs="0"/>
```

```
    <xsd:element name="autoWorkMode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callBack" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callBackMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callerIDStatus" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="doNotDisturb" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="forwarding" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeingMode" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DeviceMaintenanceEvents">
  <xsd:sequence>
    <xsd:element name="backInService" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceCapabilityChanged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="outOfService" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="partiallyInService" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="VoiceEvents">
  <xsd:sequence>
    <xsd:element name="bookmarkReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="completed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dtmfDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="emptied" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="interruptionDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="notRecognized" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="play" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="recognized" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="record" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="review" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="started" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="silenceTimeoutExpired" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speechDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="stop" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suspendPlay" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suspendRecord" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="voiceAttributesChanged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="voiceErrorOccurred" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="VendorSpecEvents">
  <xsd:sequence>
    <xsd:element name="private" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SnapshotDeviceDataList">
  <xsd:sequence>
    <xsd:element name="snapshotDeviceResponseInfo" type="csta:SnapshotDeviceResponseInfo" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SnapshotDeviceResponseInfo">
  <xsd:sequence>
    <xsd:element name="connectionIdentifier" type="csta:ConnectionID"/>
    <xsd:element name="endpointDevice" type="csta:SubjectDeviceID" minOccurs="0"/>
    <xsd:element name="localCallState" type="csta:CallState"/>
    <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
    <xsd:element name="mediaServiceInfoList" type="csta:DeviceMediaInfoList" minOccurs="0"/>
    <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DeviceMediaInfoList">
```

```
    <xsd:sequence>
      <xsd:element name="deviceMediaInfo" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
            <xsd:element name="connectionInformation" type="csta:ConnectionInformation" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SnapshotCallDataList">
    <xsd:sequence>
      <xsd:element name="snapshotCallResponseInfo" type="csta:SnapshotCallResponseInfo" minOccurs="0"
maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SnapshotCallResponseInfo">
    <xsd:sequence>
      <xsd:element name="deviceOnCall" type="csta:SubjectDeviceID"/>
      <xsd:element name="callIdentifier" type="csta:ConnectionID" minOccurs="0"/>
      <xsd:element name="localConnectionInfo" type="csta:LocalConnectionState" minOccurs="0"/>
      <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
      <xsd:element name="mediaServiceInfoList" type="csta:CallMediaInfoList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CallMediaInfoList">
    <xsd:sequence>
      <xsd:element name="callMediaInfo" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
            <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
            <xsd:element name="mediaServiceInstance" type="csta:MediaServiceInstanceID" minOccurs="0"/>
            <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
            <xsd:element name="connectionInformation" type="csta:ConnectionInformation" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CallState">
    <xsd:choice>
      <xsd:element name="compoundCallState" type="csta:CompoundCallState"/>
      <xsd:element name="simpleCallState" type="csta:SimpleCallState"/>
      <xsd:element name="unknown" type="csta:Empty"/>
    </xsd:choice>
  </xsd:complexType>
  <xsd:complexType name="CompoundCallState">
    <xsd:sequence>
      <xsd:element name="localConnectionState" type="csta:LocalConnectionState" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="SimpleCallState">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="callNull"/>
      <xsd:enumeration value="callPending"/>
      <xsd:enumeration value="callOriginated"/>
      <xsd:enumeration value="callDelivered"/>
      <xsd:enumeration value="callDeliveredHeld"/>
      <xsd:enumeration value="callReceived"/>
      <xsd:enumeration value="callEstablished"/>
```

```
      <xsd:enumeration value="callEstablishedHeld"/>
      <xsd:enumeration value="callReceivedOnHold"/>
      <xsd:enumeration value="callEstablishedOnHold"/>
      <xsd:enumeration value="callQueued"/>
      <xsd:enumeration value="callQueuedHeld"/>
      <xsd:enumeration value="callFailed"/>
      <xsd:enumeration value="callFailedHeld"/>
      <xsd:enumeration value="callBlocked"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

9.6 Device and feature types and other parameters

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-device-feature-types</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="event-cause.xsd"/>

  <xsd:simpleType name="AccountInfo">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="accountCode" type="csta:AccountInfo"/>
  <xsd:simpleType name="AgentID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="AgentPassword">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="AgentState">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="agentNotReady"/>
      <xsd:enumeration value="agentNull"/>
      <xsd:enumeration value="agentReady"/>
      <xsd:enumeration value="agentBusy"/>
      <xsd:enumeration value="agentWorkingAfterCall"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="AuthCode">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="authCode" type="csta:AuthCode"/>

  <xsd:complexType name="CorrelatorData">
    <xsd:choice>
      <xsd:element name="string">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary">
            <xsd:minLength value="0"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="private">
        <xsd:annotation>
         <xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
```

```
      <xsd:sequence>
        <xsd:any namespace="##any" maxOccurs="unbounded"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
 </xsd:choice>
</xsd:complexType>

<xsd:element name="correlatorData" type="csta:CorrelatorData"/>

<xsd:complexType name="IOCrossRefID">
 <xsd:choice>
  <xsd:element name="switchProvided">
    <xsd:simpleType>
      <xsd:restriction base="xsd:string">
        <xsd:minLength value="0"/>
      </xsd:restriction>
    </xsd:simpleType>
  </xsd:element>
  <xsd:element name="computerProvided">
    <xsd:simpleType>
      <xsd:restriction base="xsd:string">
        <xsd:minLength value="0"/>
      </xsd:restriction>
    </xsd:simpleType>
  </xsd:element>
 </xsd:choice>
</xsd:complexType>

<xsd:simpleType name="IORegisterReqID">
 <xsd:restriction base="xsd:string">
  <xsd:minLength value="0"/>
 </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="MessageID">
 <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="ResourceID">
 <xsd:restriction base="xsd:string"/>
</xsd:simpleType>

<xsd:simpleType name="ParticipationType">
 <xsd:restriction base="xsd:string">
  <xsd:enumeration value="silent"/>
  <xsd:enumeration value="active"/>
  <xsd:enumeration value="none"/>
 </xsd:restriction>
</xsd:simpleType>

<xsd:element name="routeRegisterReqID" type="csta:RouteRegisterReqID"/>

<xsd:simpleType name="RouteRegisterReqID">
 <xsd:restriction base="xsd:string">
  <xsd:minLength value="0"/>
 </xsd:restriction>
</xsd:simpleType>

<xsd:element name="crossRefIdentifier" type="csta:RouteingCrossRefID"/>
<xsd:simpleType name="RouteingCrossRefID">
 <xsd:restriction base="xsd:string">
  <xsd:minLength value="0"/>
 </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SelectValue">
```

```
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="normal"/>
    <xsd:enumeration value="leastCost"/>
    <xsd:enumeration value="emergency"/>
    <xsd:enumeration value="aCD"/>
    <xsd:enumeration value="userDefined"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="RetryValue">
  <xsd:choice>
    <xsd:element name="noListAvailable" type="xsd:boolean"/>
    <xsd:element name="noCountAvailable" type="xsd:boolean"/>
    <xsd:element name="retryCount" type="xsd:long"/>
  </xsd:choice>
</xsd:complexType>

<xsd:simpleType name="SysStatRegisterID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="sysStatRegisterID" type="csta:SysStatRegisterID"/>
<xsd:simpleType name="SystemStatusValue">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="disabled"/>
    <xsd:enumeration value="partiallyDisabled"/>
    <xsd:enumeration value="enabled"/>
    <xsd:enumeration value="initializing"/>
    <xsd:enumeration value="messagesLost"/>
    <xsd:enumeration value="normal"/>
    <xsd:enumeration value="overloadImminent"/>
    <xsd:enumeration value="overloadReached"/>
    <xsd:enumeration value="overloadRelieved"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="CallOrigination">
  <xsd:sequence>
    <xsd:element name="internal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="external" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ForwardList">
  <xsd:sequence>
    <xsd:element name="forwardListItem" type="csta:ForwardListItem" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ForwardListItem">
  <xsd:sequence>
    <xsd:element name="forwardingType" type="csta:ForwardingType" minOccurs="0"/>
    <xsd:element name="forwardStatus" type="xsd:boolean"/>
    <xsd:element name="forwardDN" type="csta:DeviceID" minOccurs="0"/>
    <xsd:element name="forwardDefault" type="csta:ForwardDefault" minOccurs="0"/>
    <xsd:element name="ringCount" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="1"/>
          <xsd:maxInclusive value="100"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="ringDuration" type="xsd:integer" minOccurs="0"/>
  </xsd:sequence>
```

```
</xsd:complexType>

<xsd:simpleType name="ForwardingType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="forwardImmediate"/>
    <xsd:enumeration value="forwardBusy"/>
    <xsd:enumeration value="forwardNoAns"/>
    <xsd:enumeration value="forwardDND"/>
    <xsd:enumeration value="forwardBusyInt"/>
    <xsd:enumeration value="forwardBusyExt"/>
    <xsd:enumeration value="forwardNoAnsInt"/>
    <xsd:enumeration value="forwardNoAnsExt"/>
    <xsd:enumeration value="forwardImmInt"/>
    <xsd:enumeration value="forwardImmExt"/>
    <xsd:enumeration value="forwardDNDInt"/>
    <xsd:enumeration value="forwardDNDExt"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ForwardDefault">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="forwardingTypeAndForwardDN"/>
    <xsd:enumeration value="forwardingType"/>
    <xsd:enumeration value="forwardDN"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PendingAgentState">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="agentNotReady"/>
    <xsd:enumeration value="agentNull"/>
    <xsd:enumeration value="agentReady"/>
    <xsd:enumeration value="agentWorkingAfterCall"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="DataPathType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="text"/>
    <xsd:enumeration value="voice"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="DisplayAttributeList">
  <xsd:sequence>
    <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
    <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
    <xsd:element name="offset" type="xsd:long" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="TerminatingConditions">
  <xsd:sequence>
    <xsd:element name="durationExceeded" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dTMFDigitDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="endOfMessageDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speechDetected" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="AttributeInfo">
  <xsd:choice>
    <xsd:element name="encodingAlgorithm" type="csta:EncodingAlgorithm"/>
    <xsd:element name="samplingRate" type="xsd:long"/>
    <xsd:element name="duration" type="xsd:long"/>
    <xsd:element name="filename" type="xsd:string"/>
    <xsd:element name="currentPosition" type="xsd:long"/>
```

```
    <xsd:element name="currentSpeed" type="xsd:long"/>
    <xsd:element name="currentVolume">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
          <xsd:maxInclusive value="100"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="currentGain">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
          <xsd:maxInclusive value="100"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="currentState" type="csta:CurrentState"/>
    <xsd:element name="grammars" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:any namespace="##any" maxOccurs="unbounded"/>
        </xsd:sequence>
        <xsd:attribute name="name" type="xsd:string"/>
        <xsd:attribute name="src" type="xsd:anyURI"/>
        <xsd:anyAttribute namespace="##any"/>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="language" type="xsd:language"/>
    <xsd:element name="mode">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="automatic"/>
          <xsd:enumeration value="single"/>
          <xsd:enumeration value="multiple"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="retainAudio" type="xsd:boolean"/>
    <xsd:element name="silenceTimeout" type="xsd:float"/>
    <xsd:element name="maxTimeout" type="xsd:float"/>
    <xsd:element name="babbleTimeout" type="xsd:float"/>
    <xsd:element name="endSilence" type="xsd:float"/>
    <xsd:element name="rejectionThreshold">
      <xsd:simpleType>
        <xsd:restriction base="xsd:float">
          <xsd:maxInclusive value="1.0"/>
          <xsd:minInclusive value="0.0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="autoInterruptible" type="xsd:boolean"/>
    <xsd:element name="innerXml">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:any/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="interdigitTimeout" type="xsd:float"/>
    <xsd:element name="preflush" type="xsd:boolean"/>
  </xsd:choice>
</xsd:complexType>
<xsd:simpleType name="EncodingAlgorithm">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="aDPCM6K"/>
    <xsd:enumeration value="aDPCM8K"/>
```

```
    <xsd:enumeration value="muLawPCM6K"/>
    <xsd:enumeration value="aLawPCM6K"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="CurrentState">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="formed"/>
    <xsd:enumeration value="dtmfDetected"/>
    <xsd:enumeration value="play"/>
    <xsd:enumeration value="playing"/>
    <xsd:enumeration value="ready"/>
    <xsd:enumeration value="record"/>
    <xsd:enumeration value="review"/>
    <xsd:enumeration value="speechDetected"/>
    <xsd:enumeration value="started"/>
    <xsd:enumeration value="stop"/>
    <xsd:enumeration value="suspendPlay"/>
    <xsd:enumeration value="suspendRecord"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="ControlData">
  <xsd:sequence>
    <xsd:element name="gender">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="male"/>
          <xsd:enumeration value="female"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="language">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string"/>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="UserData">
  <xsd:choice>
    <xsd:element name="string">
      <xsd:simpleType>
        <xsd:restriction base="xsd:hexBinary">
          <xsd:minLength value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="private">
      <xsd:annotation>
       <xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
      </xsd:annotation>
      <xsd:complexType>
        <xsd:sequence>
          <xsd:any namespace="##any" maxOccurs="unbounded"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:choice>
</xsd:complexType>

<xsd:element name="userData" type="csta:UserData"/>

<xsd:simpleType name="TelephonyTone">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="beep"/>
    <xsd:enumeration value="billing"/>
    <xsd:enumeration value="busy"/>
```

```
<xsd:enumeration value="carrier"/>
<xsd:enumeration value="confirmation"/>
<xsd:enumeration value="dial"/>
<xsd:enumeration value="faxCNG"/>
<xsd:enumeration value="hold"/>
<xsd:enumeration value="howler"/>
<xsd:enumeration value="intrusion"/>
<xsd:enumeration value="modemCNG"/>
<xsd:enumeration value="park"/>
<xsd:enumeration value="recordWarning"/>
<xsd:enumeration value="reorder"/>
<xsd:enumeration value="ringback"/>
<xsd:enumeration value="silence"/>
<xsd:enumeration value="sitVC"/>
<xsd:enumeration value="sitIC"/>
<xsd:enumeration value="sitRO"/>
<xsd:enumeration value="sitNC"/>
<xsd:enumeration value="switchSpec0"/>
<xsd:enumeration value="switchSpec1"/>
<xsd:enumeration value="switchSpec2"/>
<xsd:enumeration value="switchSpec3"/>
<xsd:enumeration value="switchSpec4"/>
<xsd:enumeration value="switchSpec5"/>
<xsd:enumeration value="switchSpec6"/>
<xsd:enumeration value="switchSpec7"/>
<xsd:enumeration value="switchSpec8"/>
<xsd:enumeration value="switchSpec9"/>
<xsd:enumeration value="switchSpec10"/>
<xsd:enumeration value="switchSpec11"/>
<xsd:enumeration value="switchSpec12"/>
<xsd:enumeration value="switchSpec13"/>
<xsd:enumeration value="switchSpec14"/>
<xsd:enumeration value="switchSpec15"/>
<xsd:enumeration value="switchSpec16"/>
<xsd:enumeration value="switchSpec17"/>
<xsd:enumeration value="switchSpec18"/>
<xsd:enumeration value="switchSpec19"/>
<xsd:enumeration value="switchSpec20"/>
<xsd:enumeration value="switchSpec21"/>
<xsd:enumeration value="switchSpec22"/>
<xsd:enumeration value="switchSpec23"/>
<xsd:enumeration value="switchSpec24"/>
<xsd:enumeration value="switchSpec25"/>
<xsd:enumeration value="switchSpec26"/>
<xsd:enumeration value="switchSpec27"/>
<xsd:enumeration value="switchSpec28"/>
<xsd:enumeration value="switchSpec29"/>
<xsd:enumeration value="switchSpec30"/>
<xsd:enumeration value="switchSpec31"/>
<xsd:enumeration value="switchSpec32"/>
<xsd:enumeration value="switchSpec33"/>
<xsd:enumeration value="switchSpec34"/>
<xsd:enumeration value="switchSpec35"/>
<xsd:enumeration value="switchSpec36"/>
<xsd:enumeration value="switchSpec37"/>
<xsd:enumeration value="switchSpec38"/>
<xsd:enumeration value="switchSpec39"/>
<xsd:enumeration value="switchSpec40"/>
<xsd:enumeration value="switchSpec41"/>
<xsd:enumeration value="switchSpec42"/>
<xsd:enumeration value="switchSpec43"/>
<xsd:enumeration value="switchSpec44"/>
<xsd:enumeration value="switchSpec45"/>
<xsd:enumeration value="switchSpec46"/>
<xsd:enumeration value="switchSpec47"/>
<xsd:enumeration value="switchSpec48"/>
<xsd:enumeration value="switchSpec49"/>
```

```
    <xsd:enumeration value="switchSpec50"/>
    <xsd:enumeration value="switchSpec51"/>
    <xsd:enumeration value="switchSpec52"/>
    <xsd:enumeration value="switchSpec53"/>
    <xsd:enumeration value="switchSpec54"/>
    <xsd:enumeration value="switchSpec55"/>
    <xsd:enumeration value="switchSpec56"/>
    <xsd:enumeration value="switchSpec57"/>
    <xsd:enumeration value="switchSpec58"/>
    <xsd:enumeration value="switchSpec59"/>
    <xsd:enumeration value="switchSpec60"/>
    <xsd:enumeration value="switchSpec61"/>
    <xsd:enumeration value="switchSpec62"/>
    <xsd:enumeration value="switchSpec63"/>
    <xsd:enumeration value="switchSpec64"/>
    <xsd:enumeration value="switchSpec65"/>
    <xsd:enumeration value="switchSpec66"/>
    <xsd:enumeration value="switchSpec67"/>
    <xsd:enumeration value="switchSpec68"/>
    <xsd:enumeration value="switchSpec69"/>
    <xsd:enumeration value="switchSpec70"/>
    <xsd:enumeration value="switchSpec71"/>
    <xsd:enumeration value="switchSpec72"/>
    <xsd:enumeration value="switchSpec73"/>
    <xsd:enumeration value="switchSpec74"/>
    <xsd:enumeration value="switchSpec75"/>
    <xsd:enumeration value="switchSpec76"/>
    <xsd:enumeration value="switchSpec77"/>
    <xsd:enumeration value="switchSpec78"/>
    <xsd:enumeration value="switchSpec79"/>
    <xsd:enumeration value="switchSpec80"/>
    <xsd:enumeration value="switchSpec81"/>
    <xsd:enumeration value="switchSpec82"/>
    <xsd:enumeration value="switchSpec83"/>
    <xsd:enumeration value="switchSpec84"/>
    <xsd:enumeration value="switchSpec85"/>
    <xsd:enumeration value="switchSpec86"/>
    <xsd:enumeration value="switchSpec87"/>
    <xsd:enumeration value="switchSpec88"/>
    <xsd:enumeration value="switchSpec89"/>
    <xsd:enumeration value="switchSpec90"/>
    <xsd:enumeration value="switchSpec91"/>
    <xsd:enumeration value="switchSpec92"/>
    <xsd:enumeration value="switchSpec93"/>
    <xsd:enumeration value="switchSpec94"/>
    <xsd:enumeration value="switchSpec95"/>
    <xsd:enumeration value="switchSpec96"/>
    <xsd:enumeration value="switchSpec97"/>
    <xsd:enumeration value="switchSpec98"/>
    <xsd:enumeration value="switchSpec99"/>
    <xsd:enumeration value="switchSpec100"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="subjectOfCall" type="xsd:string"/>
<xsd:complexType name="MessageInfo">
  <xsd:sequence>
    <xsd:element name="messageInfoItem" type="csta:MessageInfoItem" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="messageInfo" type="csta:MessageInfo"/>

<xsd:complexType name="MessageInfoItem">
  <xsd:sequence>
    <xsd:element name="contentTypeAndSubtype" type="xsd:string" minOccurs="0"/>
    <xsd:element name="contents" type="xsd:string"/>
```

```
    <xsd:element name="contentsLength" type="xsd:nonNegativeInteger" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="languagePreferences" type="xsd:string"/>
<xsd:complexType name="DeviceHistory">
  <xsd:sequence>

    <xsd:element name="DeviceHistoryListItem" type="csta:DeviceHistoryListItem"
            maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="deviceHistory" type="csta:DeviceHistory"/>

<xsd:complexType name="DeviceHistoryListItem">
  <xsd:sequence>
    <xsd:element name="oldDeviceID" type="csta:RedirectionDeviceID"/>
    <xsd:element name="eventCause" type="csta:EventCause" minOccurs="0"/>
    <xsd:element name="oldConnectionID" type="csta:ConnectionID" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="reason" type="csta:EventCause"/>

</xsd:schema>
```

9.7 Security

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-security</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:complexType name="CSTASecurityData">
    <xsd:sequence>
      <xsd:element name="messageSequenceNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="timeStamp" type="csta:TimeInfo" minOccurs="0"/>
      <xsd:element name="securityInfo" type="csta:SecurityInfo" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SecurityInfo">
    <xsd:choice>
      <xsd:element name="string">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary"/>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="private">
        <xsd:annotation>
         <xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
          <xsd:sequence>
            <xsd:any namespace="##any" maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="TimeInfo">
    <xsd:restriction base="csta:GeneralizedTime"/>
  </xsd:simpleType>

  <xsd:simpleType name="GeneralizedTime">
    <xsd:restriction base="xsd:string">
      <xsd:pattern value="\d{14}[,\.]?\d*[+\-]\d{4}"/>
      <xsd:pattern value="\d{14}[,\.]?\d*Z"/>
      <xsd:pattern value="\d{14}[,\.]?\d*"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

9.8 Common extensions

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-extension-types</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>

  <xsd:complexType name="CSTACommonArguments">
    <xsd:sequence>
      <xsd:element name="security" type="csta:CSTASecurityData" minOccurs="0"/>
      <xsd:element name="privateData" type="csta:CSTAPrivateData" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CSTAPrivateData">
    <xsd:choice>
      <xsd:element name="string">
        <xsd:simpleType>
          <xsd:restriction base="xsd:hexBinary"/>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="private">
        <xsd:annotation>
         <xsd:documentation>private: the actual encoding has to be replaced here</xsd:documentation>
        </xsd:annotation>
        <xsd:complexType>
          <xsd:sequence>
            <xsd:any namespace="##any" maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:choice>
  </xsd:complexType>

  <xsd:element name="extensions" type="csta:CSTACommonArguments"/>

</xsd:schema>
```

9.9 Call control

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-control</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>

  <xsd:simpleType name="AutoOriginate">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="prompt"/>
      <xsd:enumeration value="doNotPrompt"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="CallCharacteristics">
    <xsd:sequence>
      <xsd:element name="acdCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="lowPriorityCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="priorityCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="highPriorityCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="maintainanceCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="directAgent" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="assistCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="voiceUnitCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="privateCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="personalCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="sensitiveCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="confidentialCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="encryptedCall" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:element name="callCharacteristics" type="csta:CallCharacteristics"/>
  <xsd:simpleType name="CallQualifyingData">
    <xsd:restriction base="xsd:hexBinary">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="ConsultOptions">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="unrestricted"/>
      <xsd:enumeration value="consultOnly"/>
      <xsd:enumeration value="transferOnly"/>
      <xsd:enumeration value="conferenceOnly"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="consultOptions" type="csta:ConsultOptions"/>

  <xsd:complexType name="NetworkCapability">
    <xsd:sequence>
      <xsd:element name="networkType">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="iSDNPublic"/>
            <xsd:enumeration value="nonISDNPublic"/>
            <xsd:enumeration value="iSDNPrivate"/>
            <xsd:enumeration value="nonISDNPrivate"/>
            <xsd:enumeration value="other"/>
```

```
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>

    <xsd:element name="eventsProvided" minOccurs="0">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="bridged" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="callCleared" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="conferenced" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="connectionCleared" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="delivered" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="digitsDialed" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="diverted" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="established" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="failed" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="held" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="networkCapabilitiesChange" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="networkReached" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="offered" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="originated" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="retrieved" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="serviceInitiated" type="xsd:boolean" minOccurs="0"/>
          <xsd:element name="transferred" type="xsd:boolean" minOccurs="0"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ProgressIndicator">
  <xsd:sequence>
    <xsd:element name="progressLocation">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="user"/>
          <xsd:enumeration value="privateNetServingLocal"/>
          <xsd:enumeration value="publicNetServingLocal"/>
          <xsd:enumeration value="transitNetwork"/>
          <xsd:enumeration value="publicNetServingRemote"/>
          <xsd:enumeration value="privateNetServingRemote"/>
          <xsd:enumeration value="localInterface"/>
          <xsd:enumeration value="internationalNetwork"/>
          <xsd:enumeration value="networkBeyondInterwk"/>
          <xsd:enumeration value="other"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>

    <xsd:element name="progressDescription">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="iSDNProgressDesc"/>
          <xsd:enumeration value="qSIGProgressDesc"/>
          <xsd:enumeration value="other"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>

</xsd:complexType>
<xsd:complexType name="ServicesPermitted">
  <xsd:sequence>
    <xsd:element name="callControlServices" type="csta:CallControlServices"/>
    <xsd:element name="callAssociatedServices" type="csta:CallAssociatedServices"/>
    <xsd:element name="mediaAttachementServices" type="csta:MediaAttachmentServices"/>
```

```
    <xsd:element name="routeingServices" type="csta:RouteingServices"/>
    <xsd:element name="voiceServices" type="csta:VoiceServices"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="servicesPermitted" type="csta:ServicesPermitted"/>

<xsd:complexType name="CallLinkageDataList">
  <xsd:sequence>
    <xsd:element name="newCallLinkageData" type="csta:CallLinkageData"/>
    <xsd:element name="oldCallLinkageData" type="csta:CallLinkageData"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="CallLinkageData">
  <xsd:sequence>
    <xsd:element name="globalCallData" type="csta:GlobalCallData"/>
    <xsd:element name="threadData" type="csta:ThreadData" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="callLinkageData" type="csta:CallLinkageData"/>

<xsd:complexType name="GlobalCallData">
  <xsd:sequence>
    <xsd:element name="globalCallSwitchingSubDomainName" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="globalCallLinkageID" type="csta:GlobalCallLinkageID"/>
    <xsd:element name="callLinkageIDTimestamp" type="csta:TimeInfo" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="GlobalCallLinkageID">
  <xsd:choice>
    <xsd:element name="subDomainCallLinkageID">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="globallyUniqueCallLinkageID">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="ThreadData">
  <xsd:sequence>
    <xsd:element name="threadSwitchingSubDomainName" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:minLength value="1"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="threadLinkageID" type="csta:ThreadLinkageID"/>
    <xsd:element name="threadIDTimeStamp" type="csta:TimeInfo" minOccurs="0"/>
```

```
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="ThreadLinkageID">
    <xsd:choice>
      <xsd:element name="subDomainThreadID">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:minLength value="1"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="globallyUniqueThreadID">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:minLength value="1"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:choice>
  </xsd:complexType>

  <xsd:complexType name="CallControlServices">
    <xsd:sequence>
      <xsd:element name="acceptCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="alternateCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="answerCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="callBack" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="callBackMessage" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="campOnCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="clearCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="clearConnection" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="conferenceCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="consultationCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="deflectCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="dialDigits" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="directedPickupCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupPickupCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="holdCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="intrudeCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="joinCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="makeCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="makePredictiveCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="parkCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="reconnectCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="retrieveCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="sendMessage" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="singleStepConference" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="singleStepTransfer" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="transferCall" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CallAssociatedServices">
    <xsd:sequence>
      <xsd:element name="associateData" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="cancelTelephonyTones" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="generateDigits" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="generateTelephonyTones" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="sendUserInformation" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="changeConnectionInformation" type="xsd:boolean" minOccurs="0"/>
</xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="MediaAttachmentServices">
    <xsd:sequence>
      <xsd:element name="attachMediaService" type="xsd:boolean" minOccurs="0"/>
```

```
    <xsd:element name="detachMediaService" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="RouteingServices">
  <xsd:sequence>
    <xsd:element name="routeRegister" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeRegisterCancel" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeRegisterAbort" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reRoute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeEnd" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeReject" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeRequest" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelect" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeUsed" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="VoiceServices">
  <xsd:sequence>
    <xsd:element name="activate" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="clear" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deactivate" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="concatenateMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deleteMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="playMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queryVoiceAttribute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="recordMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="reposition" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="resume" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="review" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="setVoiceAttribute" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="stop" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="suspend" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="synthesizeMessage" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

</xsd:schema>
```

9.10 Capability Exchange

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-capability-exchange</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:simpleType name="ServiceCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:annotation>
    <xsd:documentation>Capability Bitmaps</xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="LogDevServList">
    <xsd:sequence>
      <xsd:element name="callControlServList" type="csta:CallControlServList" minOccurs="0"/>
      <xsd:element name="callAssociatedServList" type="csta:CallAssociatedServList" minOccurs="0"/>
      <xsd:element name="logicalServList" type="csta:LogicalServList" minOccurs="0"/>
      <xsd:element name="mediaServList" type="csta:MediaServList" minOccurs="0"/>
      <xsd:element name="iOServicesServList" type="csta:IOServicesServList" minOccurs="0"/>
      <xsd:element name="dataCollectionServList" type="csta:DataCollectionServList" minOccurs="0"/>
      <xsd:element name="voiceServList" type="csta:VoiceServList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LogDevEvtsList">
    <xsd:sequence>
      <xsd:element name="callControlEvtsList" type="csta:CallControlEvtsList" minOccurs="0"/>
      <xsd:element name="callAssociatedEvtsList" type="csta:CallAssociatedEvtsList" minOccurs="0"/>
      <xsd:element name="logicalEvtsList" type="csta:LogicalEvtsList" minOccurs="0"/>
      <xsd:element name="mediaEvtsList" type="csta:MediaEvtsList" minOccurs="0"/>
      <xsd:element name="voiceEvtsList" type="csta:VoiceEvtsList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CapExchangeServList">
    <xsd:sequence>
      <xsd:element name="getCSTAFeatures" type="csta:GetCSTAFeaturesCaps" minOccurs="0"/>
      <xsd:element name="getLogicalDeviceInformation" type="csta:GetLogicalDeviceInformationCaps" minOccurs="0"/>
      <xsd:element name="getPhysicalDeviceInformation" type="csta:GetPhysicalDeviceInformationCaps" minOccurs="0"/>
      <xsd:element name="getSwitchingFunctionCaps" type="csta:GetSwitchingFunctionCapabilitiesCaps" minOccurs="0"/>
      <xsd:element name="getSwitchingFunctionDevices" type="csta:GetSwitchingFunctionDevicesCaps" minOccurs="0"/>
      <xsd:element name="switchingFunctionDevices" type="csta:SwitchingFunctionDevicesCaps" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

    <xsd:complexType name="GetCSTAFeaturesCaps">
    <xsd:sequence>
      <xsd:element name="privateDataInReq" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  </xsd:complexType>
```

```
<xsd:complexType name="GetLogicalDeviceInformationCaps">
  <xsd:sequence>
    <xsd:element name="privateDataInReq" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="namedDeviceTypeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="shortFormDeviceIDInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="miscMonitorCapsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxCallBacksInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxAutoAnswerRingsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxActiveCallsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxHeldCallsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxFwdSettingsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxDevicesInConfInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupParameter" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupConsultationInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupHoldMakeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupAlternateInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupTwoCallsHoldInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupTwoCallsConnectedInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaClassSupportInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionRateListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="delayToleranceListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="numberOfChannelsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxChannelBindInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="GetPhysicalDeviceInformationCaps">
  <xsd:sequence>
    <xsd:element name="privateDataInReq" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="namedDeviceTypesInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherLogicalDeviceListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceModelNameInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxDisplaysInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxButtonsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxLampsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxRingPatternsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="GetSwitchingFunctionCapabilitiesCaps">
  <xsd:sequence>
    <xsd:element name="privateDataInReq" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaClassSupportInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="numberOfChannelsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxChannelBindInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="miscMediaCallCharacteristicsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionRateListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="delayToleranceRateListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pauseTimeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="currentTimeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupParameterInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupConsultationInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupHoldMakeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupAlternateInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupTwoCallsHoldInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transAndConfSetupTwoCallsConnectedInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="miscMonitorCapsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorDataSupportedInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dynamicFeatureSupportedInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callLinkageOptionsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="acdModelsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentLogOnModelsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentStateModelsInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataVersionListInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="simpleThresholdInAck" type="xsd:boolean" minOccurs="0"/>
```

```
    <xsd:element name="filterThresholdInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxDeviceHistoryEntriesInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="GetSwitchingFunctionDevicesCaps">
  <xsd:sequence>
    <xsd:element name="requestedDeviceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryACD" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryACDGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryHuntGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryPickGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryUserGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryOtherGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryNetwInterface" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryPark" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryRouteingDevice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryStation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryVoiceUnit" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryGenericIV" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryListenerIV" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryVDTMFIV" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryPromptIV" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryPromptQueueIV" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryMessageIV" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedDeviceCategoryOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SwitchingFunctionDevicesCaps">
  <xsd:sequence>
    <xsd:element name="segmentID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListDeviceCategory" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListNamedDeviceTypes" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListDeviceAttributes" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListDeviceModelName" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceListNidGroup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="SystemStatusServList">
  <xsd:sequence>
    <xsd:element name="changeSystemStatusFilter" type="csta:ChangeSystemStatusFilterCaps" minOccurs="0"/>
    <xsd:element name="systemRegister" type="csta:SystemRegisterCaps" minOccurs="0"/>
    <xsd:element name="systemStatusRegisterAbort" type="csta:SystemStatusRegisterAbortCaps" minOccurs="0"/>
    <xsd:element name="systemStatusRegisterCancel" type="csta:SystemStatusRegisterCancelCaps" minOccurs="0"/>
    <xsd:element name="requestSystemStatus" type="csta:RequestSystemStatusCaps" minOccurs="0"/>
    <xsd:element name="systemStatus" type="csta:SystemStatusCaps" minOccurs="0"/>
    <xsd:element name="swFunctionCapsChanged" type="csta:SwFunctionCapsChangedCaps" minOccurs="0"/>
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    <xsd:element name="connectionInformation" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="subjectOfCallInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="messageInfoInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="campOnCall" type="csta:CampOnCallCaps" minOccurs="0"/>
    <xsd:element name="clearCall" type="csta:ClearCallCaps" minOccurs="0"/>
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    <xsd:element name="consultationCall" type="csta:ConsultationCallCaps" minOccurs="0"/>
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    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="toneDuration" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="pauseDurationList" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="otherDevicesPrimaryCallList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherDevicesSecondaryCallList" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
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```

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  </xsd:sequence>
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    <xsd:element name="mediaServiceVersion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstanceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeConsultConference" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeConsultConferenceHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeDeflect" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeDirectedPickup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeJoin" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeSingleStepConference" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeSingleStepConferenceHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeSingleStepTransfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeTransfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="connectionModeDirect" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedConnectionState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaServiceInstanceIDInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaConnectionInfoInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
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    <xsd:element name="fail" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="queued" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceIDOnly" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="mediaServiceInstanceID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaConnectionInfo" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="mediaStreamID" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaConnectionInfo" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="routeRegisterCancel" type="csta:RouteRegisterCancelCaps" minOccurs="0"/>
    <xsd:element name="routeRegisterAbort" type="csta:RouteRegisterAbortCaps" minOccurs="0"/>
    <xsd:element name="reRoute" type="csta:ReRouteCaps" minOccurs="0"/>
    <xsd:element name="routeEnd" type="csta:RouteEndCaps" minOccurs="0"/>
    <xsd:element name="routeReject" type="csta:RouteRejectCaps" minOccurs="0"/>
    <xsd:element name="routeRequest" type="csta:RouteRequestCaps" minOccurs="0"/>
    <xsd:element name="routeSelect" type="csta:RouteSelectCaps" minOccurs="0"/>
    <xsd:element name="routeUsed" type="csta:RouteUsedCaps" minOccurs="0"/>
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    <xsd:element name="requestedMonitorMediaClassAudio" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassImage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassVoice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassChat" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorrMediaClassEmail" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorrMediaClassMessage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassIM" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassSMS" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="requestedMonitorMediaClassMMS" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="actualRouteingMediaClassInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allRouteingDevices" type="xsd:boolean" minOccurs="0"/>
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  </xsd:sequence>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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  </xsd:sequence>
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    <xsd:element name="rejectCauseCalendarOverflow" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="rejectCauseUnknownOverflow" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="routeSelAlgorithmEmergency" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelAlgorithmLeastCost" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelAlgorithmNormal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeSelAlgorithmUserDefined" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="priority" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="replyTimeout" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mediaCallCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCharacteristics" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routedCallInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="subjectOfCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="messageInformation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="languagePreferences" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceHistory" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="remainRetriesNoCountAvailable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="remainRetriesRetryCount" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="routeUsed" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="correlatorData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="getButtonInformation" type="csta:GetButtonInformationCaps" minOccurs="0"/>
    <xsd:element name="getDisplay" type="csta:GetDisplayCaps" minOccurs="0"/>
    <xsd:element name="getHookSwitchStatus" type="csta:GetHookSwitchStatusCaps" minOccurs="0"/>
    <xsd:element name="getLampInfo" type="csta:GetLampInfoCaps" minOccurs="0"/>
    <xsd:element name="getLampMode" type="csta:GetLampModeCaps" minOccurs="0"/>
    <xsd:element name="getMessageWaitingIndicator" type="csta:GetMessageWaitingIndicatorCaps" minOccurs="0"/>
    <xsd:element name="getMicrophoneGain" type="csta:GetMicrophoneGainCaps" minOccurs="0"/>
    <xsd:element name="getMicrophoneMute" type="csta:GetMicrophoneMuteCaps" minOccurs="0"/>
    <xsd:element name="getRingerStatus" type="csta:GetRingerStatusCaps" minOccurs="0"/>
    <xsd:element name="getSpeakerMute" type="csta:GetSpeakerMuteCaps" minOccurs="0"/>
    <xsd:element name="getSpeakerVolume" type="csta:GetSpeakerVolumeCaps" minOccurs="0"/>
    <xsd:element name="setButtonInformation" type="csta:SetButtonInformationCaps" minOccurs="0"/>
```

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    <xsd:element name="setDisplay" type="csta:SetDisplayCaps" minOccurs="0"/>
    <xsd:element name="setHookSwitchStatus" type="csta:SetHookSwitchStatusCaps" minOccurs="0"/>
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    <xsd:element name="setMessageWaitingIndicator" type="csta:SetMessageWaitingIndicatorCaps" minOccurs="0"/>
    <xsd:element name="setMicrophoneGain" type="csta:SetMicrophoneGainCaps" minOccurs="0"/>
    <xsd:element name="setMicrophoneMute" type="csta:SetMicrophoneMuteCaps" minOccurs="0"/>
    <xsd:element name="setRingerStatus" type="csta:SetRingerStatusCaps" minOccurs="0"/>
    <xsd:element name="setSpeakerMute" type="csta:SetSpeakerMuteCaps" minOccurs="0"/>
    <xsd:element name="setSpeakerVolume" type="csta:SetSpeakerVolumeCaps" minOccurs="0"/>
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    <xsd:element name="ackModelMultiStep" type="xsd:boolean" minOccurs="0"/>
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  <xsd:sequence>
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    <xsd:element name="auditoryApparatusTypeSpeakerphone" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="auditoryApparatusTypeHandset" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="auditoryApparatusTypeHeadset" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="auditoryApparatusTypeSpeakerOnlyPhone" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="auditoryApparatusTypeother" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerPresent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerVolumeSettable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerVolumeReadable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerMuteSettable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="speakerMuteReadable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphonePresent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneGainSettable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneGainReadable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneMuteSettable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="microphoneMuteReadable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hookswitchSettable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="hookswitchOnHook" type="xsd:boolean" minOccurs="0"/>
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  </xsd:sequence>
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    <xsd:element name="buttonLabelInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonLabelSettableInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonFunctionInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonAssociatedNumberInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonAssociatedNumberSettableInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="listOfLampsInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="characterSetUnicode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="characterSetProprietary" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
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</xsd:complexType>
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  <xsd:sequence>
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    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
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    <xsd:element name="lampLabelInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="buttonInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampColorInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateDataInAck" type="xsd:boolean" minOccurs="0"/>
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  <xsd:sequence>
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    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampModeInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="lampBrightnessNormal" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="displayAttribPhyBaseRowNumber" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="displayAttribPhyBaseColumnNumber" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="displayAttribOffset" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="ioCauseSfTerminated" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="dataPathTypeText" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dataPathTypeVoice" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="terminationChar" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="timeout" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="numberOfCharsToCollectInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="terminationCharInAck" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="timeoutInAck" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="dataCollectionSuspended" type="csta:DataCollectionSuspendedCaps" minOccurs="0"/>
    <xsd:element name="resumeDataCollection" type="csta:ResumeDataCollectionCaps" minOccurs="0"/>
    <xsd:element name="startDataCollection" type="csta:StartDataCollectionCaps" minOccurs="0"/>
    <xsd:element name="stopDataCollection" type="csta:StopDataCollectionCaps" minOccurs="0"/>
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    <xsd:element name="toneDetectedBeep" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedBilling" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="toneDetectedConfirmation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedDial" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedFaxCNG" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedHowler" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedIntrusion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedModemCNG" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedPark" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedRecordWarning" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedReorder" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedRingback" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="toneDetectedSitVC" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedSitIC" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedSitRO" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="toneDetectedSitNC" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="dcollCauseCharCountReached" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dcollCauseTimeout" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="dataCollectionTypeTones" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="digitsReportingCriteriaFlushChar" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="deactivate" type="csta:DeactivateCaps" minOccurs="0"/>
    <xsd:element name="concatenateMsg" type="csta:ConcatenateMsgCaps" minOccurs="0"/>
    <xsd:element name="deleteMsg" type="csta:DeleteMsgCaps" minOccurs="0"/>
    <xsd:element name="playMsg" type="csta:PlayMsgCaps" minOccurs="0"/>
    <xsd:element name="queryVoiceAttrib" type="csta:QueryVoiceAttribCaps" minOccurs="0"/>
    <xsd:element name="queueService" type="csta:QueueServiceCaps" minOccurs="0"/>
    <xsd:element name="recordMsg" type="csta:RecordMsgCaps" minOccurs="0"/>
    <xsd:element name="reposition" type="csta:RepositionCaps" minOccurs="0"/>
    <xsd:element name="resume" type="csta:ResumeCaps" minOccurs="0"/>
    <xsd:element name="review" type="csta:ReviewCaps" minOccurs="0"/>
    <xsd:element name="start" type="csta:StartCaps" minOccurs="0"/>
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    <xsd:element name="stop" type="csta:StopCaps" minOccurs="0"/>
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    <xsd:element name="terminationDTMFDigitDetected" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="terminationSpeech" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="attribToQuerySamplingRate" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryDuration" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryFilename" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryCurrentPosition" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryCurrentSpeed" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="attribToQueryCurrentState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryGrammars" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryLanguage" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryMode" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryRetainAudio" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQuerySilenceTimeout" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryMaxTimeout" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribToQueryBabbleTimeout" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="attribInAckInterdigitTimeout" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="attribInAckPreflush" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="encodingAlgorithmMuLawPCM6K" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="encodingAlgorithmALawPCM6K" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="maxDuration" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="terminationParameter" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="terminationDurationExceeded" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="terminationDTMFDigitDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="terminationEndOfDataDetected" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="terminationSpeechDetected" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="periodOfRepositionStartOfMsg" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="periodOfRepositionEndOfMsg" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="periodOfRepositionRelativePointer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="duration" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="privateData" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="periodToResumeLengthOfReview" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="currentVolumeInc" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="currentGain" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="preflush" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="endSilence" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="rejectionThreshold" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="preflush" type="xsd:boolean" minOccurs="0"/>
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    <xsd:element name="dialableDigitsHash" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsABCD" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsExclamation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsP" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsT" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsComma" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsW" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsAt" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsDollar" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="dialableDigitsSemicolon" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprExclamation" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprEt" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprSlash" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPercent" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprNM" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprGeneric" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprImplicitTON" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONUnkown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONInternal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONNational" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONSubscriber" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPubTONAbbreviated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONUnknown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLevel3" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLevel2" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLevel1" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONLocal" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprPriTONAbbreviated" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sFReprOther" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="deviceNumber" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="SwDomainFeatures">
  <xsd:sequence>
    <xsd:element name="isForwardingBefore" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="isForwardingAfter" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="swFunctionDefaultSettings" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userSpecific" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userSpecificDefaultFowardingType" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userSpecificDefaultForwardDestination" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="negativeAcknowledgment" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportFailedWithAssConn" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportFailedWithoutAssConn" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="supportFailedWithAssConnNotReportet" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="recall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callBack" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="extCallsIncoming" type="xsd:boolean" minOccurs="0"/>
```

```
    <xsd:element name="extCallsOutgoing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="prompting" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="SwAppearanceAddressability">
  <xsd:sequence>
    <xsd:element name="nonAddressable" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="addressable" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="SwAppearanceTypes">
  <xsd:sequence>
    <xsd:element name="selectedStandard" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="basicStandard" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="basicBridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="exclusiveBridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="independentSharedBridged" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="interDependentSharedBridged" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="IgnoreUnsupportedParameters">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="ignoreParameters"/>
    <xsd:enumeration value="rejectMessage"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="PauseTime">
  <xsd:restriction base="xsd:long">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="2000"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="TimeStampMode">
  <xsd:sequence>
    <xsd:element name="allEvents" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allAcks" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allServReqs" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MiscMonitorCaps">
  <xsd:sequence>
    <xsd:element name="groupInclusivModel" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="groupExclusiveModel" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="monitorPhysicalElement" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="acdDeviceInclusiv" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="acdDeviceExclusiv" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MaxLengthParameters">
  <xsd:sequence>
    <xsd:element name="accountInfo">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="authCode">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="agentID" type="xsd:short"/>
    <xsd:element name="agentPassword">
      <xsd:simpleType>
```

```
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="callIDInConnectionID" type="xsd:long"/>
    <xsd:element name="correlatorData" type="xsd:long"/>
    <xsd:element name="privateData" type="xsd:long"/>
    <xsd:element name="deviceIdentifiers" type="xsd:long"/>
    <xsd:element name="userData" type="xsd:long"/>
    <xsd:element name="buttonLabel">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="lampLabel">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="charactersToSend">
      <xsd:simpleType>
        <xsd:restriction base="xsd:short">
          <xsd:minInclusive value="0"/>
          <xsd:maxInclusive value="64"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MaxLengthParametersContinued">
  <xsd:sequence>
    <xsd:element name="monitorCrossRefID" type="xsd:long"/>
    <xsd:element name="callQualifyingData" type="xsd:long"/>
    <xsd:element name="subDomainCallLinkageData" type="xsd:long"/>
    <xsd:element name="subDomainThreadID" type="xsd:long"/>
    <xsd:element name="ioData" type="xsd:long"/>
    <xsd:element name="messageInfo" type="xsd:long"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="FilterThreshold">
  <xsd:sequence>
    <xsd:element name="getLogicalDeviceInformation" type="xsd:long"/>
    <xsd:element name="getPhysicalDeviceInformation" type="xsd:long"/>
    <xsd:element name="getSwitchingFunctionCaps" type="xsd:long"/>
    <xsd:element name="getSwitchingFunctionDevices" type="xsd:long"/>
    <xsd:element name="switchingFunctionDevices" type="xsd:long"/>
    <xsd:element name="changeSystemStatusFilter" type="xsd:long"/>
    <xsd:element name="systemStatusRegister" type="xsd:long"/>
    <xsd:element name="systemStatusRegisterAbort" type="xsd:long"/>
    <xsd:element name="systemStatusRegisterCancel" type="xsd:long"/>
    <xsd:element name="requestSystemStatus" type="xsd:long"/>
    <xsd:element name="systemStatus" type="xsd:long"/>
    <xsd:element name="switchingFunctionCapsChanged" type="xsd:long"/>
    <xsd:element name="switchingFunctionDevsChanged" type="xsd:long"/>
    <xsd:element name="changeMonitorFilter" type="xsd:long"/>
    <xsd:element name="monitorStart" type="xsd:long"/>
    <xsd:element name="monitorStop" type="xsd:long"/>
    <xsd:element name="snapshotCall" type="xsd:long"/>
    <xsd:element name="snapshotDevice" type="xsd:long"/>
    <xsd:element name="snapshotCallData" type="xsd:long"/>
    <xsd:element name="snapshotDeviceData" type="xsd:long"/>
    <xsd:element name="acceptCall" type="xsd:long"/>
```

```
<xsd:element name="alternateCall" type="xsd:long"/>
<xsd:element name="answerCall" type="xsd:long"/>
<xsd:element name="callBackCallRelated" type="xsd:long"/>
<xsd:element name="callBackMessageCallRelated" type="xsd:long"/>
<xsd:element name="campOnCall" type="xsd:long"/>
<xsd:element name="clearCall" type="xsd:long"/>
<xsd:element name="clearConnection" type="xsd:long"/>
<xsd:element name="conferenceCall" type="xsd:long"/>
<xsd:element name="consultationCall" type="xsd:long"/>
<xsd:element name="deflectCall" type="xsd:long"/>
<xsd:element name="dialDigits" type="xsd:long"/>
<xsd:element name="directedPickupCall" type="xsd:long"/>
<xsd:element name="groupPickupCall" type="xsd:long"/>
<xsd:element name="holdCall" type="xsd:long"/>
<xsd:element name="intrudeCall" type="xsd:long"/>
<xsd:element name="joinCall" type="xsd:long"/>
<xsd:element name="makeCall" type="xsd:long"/>
<xsd:element name="makePredictiveCall" type="xsd:long"/>
<xsd:element name="parkCall" type="xsd:long"/>
<xsd:element name="reconnectCall" type="xsd:long"/>
<xsd:element name="retrieveCall" type="xsd:long"/>
<xsd:element name="singleStepConferenceCall" type="xsd:long"/>
<xsd:element name="singleStepTransferCall" type="xsd:long"/>
<xsd:element name="transferCall" type="xsd:long"/>
<xsd:element name="associateData" type="xsd:long"/>
<xsd:element name="cancelTelephonyTone" type="xsd:long"/>
<xsd:element name="generateDigits" type="xsd:long"/>
<xsd:element name="generateTelephonyTone" type="xsd:long"/>
<xsd:element name="sendUserInformation" type="xsd:long"/>
<xsd:element name="startDTMFDigitsCollection" type="xsd:long"/>
<xsd:element name="startTelephonyTonesCollection" type="xsd:long"/>
<xsd:element name="stopDTMFDigitsCollection" type="xsd:long"/>
<xsd:element name="stopTelephonyTonesCollection" type="xsd:long"/>
<xsd:element name="attachMediaService" type="xsd:long"/>
<xsd:element name="detachMediaService" type="xsd:long"/>
<xsd:element name="routeRegister" type="xsd:long"/>
<xsd:element name="routeRegisterAbort" type="xsd:long"/>
<xsd:element name="routeRegisterCancel" type="xsd:long"/>
<xsd:element name="reRoute" type="xsd:long"/>
<xsd:element name="routeEnd" type="xsd:long"/>
<xsd:element name="routeReject" type="xsd:long"/>
<xsd:element name="routeRequest" type="xsd:long"/>
<xsd:element name="routeSelect" type="xsd:long"/>
<xsd:element name="routeUsed" type="xsd:long"/>
<xsd:element name="buttonPress" type="xsd:long"/>
<xsd:element name="getAuditoryApparatusInfo" type="xsd:long"/>
<xsd:element name="getButtonInformation" type="xsd:long"/>
<xsd:element name="getDisplay" type="xsd:long"/>
<xsd:element name="getHookswitchStatus" type="xsd:long"/>
<xsd:element name="getLampInformation" type="xsd:long"/>
<xsd:element name="getLampMode" type="xsd:long"/>
<xsd:element name="getMicrophoneGain" type="xsd:long"/>
<xsd:element name="getMicrophoneMute" type="xsd:long"/>
<xsd:element name="getMessageWaitingIndicator" type="xsd:long"/>
<xsd:element name="getRingerStatus" type="xsd:long"/>
<xsd:element name="getSpeakerMute" type="xsd:long"/>
<xsd:element name="getSpeakerVolume" type="xsd:long"/>
<xsd:element name="setButtonInformation" type="xsd:long"/>
<xsd:element name="setDisplay" type="xsd:long"/>
<xsd:element name="setHookswitchStatus" type="xsd:long"/>
<xsd:element name="setLampMode" type="xsd:long"/>
<xsd:element name="setMsgWaitingIndicator" type="xsd:long"/>
<xsd:element name="setMicrophoneGain" type="xsd:long"/>
<xsd:element name="setMicrophoneMute" type="xsd:long"/>
<xsd:element name="setRingerStatus" type="xsd:long"/>
<xsd:element name="setSpeakerMute" type="xsd:long"/>
<xsd:element name="setSpeakerVolume" type="xsd:long"/>
```

```
    <xsd:element name="callBackMessageNonCallRelated" type="xsd:long"/>
    <xsd:element name="callBackNonCallRelated" type="xsd:long"/>
    <xsd:element name="cancelCallBack" type="xsd:long"/>
    <xsd:element name="cancelCallBackMessage" type="xsd:long"/>
    <xsd:element name="getAgentState" type="xsd:long"/>
    <xsd:element name="getAutoAnswer" type="xsd:long"/>
    <xsd:element name="getAutoWorkMode" type="xsd:long"/>
    <xsd:element name="getCallerIDStatus" type="xsd:long"/>
    <xsd:element name="getDoNotDisturb" type="xsd:long"/>
    <xsd:element name="getForwarding" type="xsd:long"/>
    <xsd:element name="getLastNumberDialed" type="xsd:long"/>
    <xsd:element name="getRouteingMode" type="xsd:long"/>
    <xsd:element name="setAgentState" type="xsd:long"/>
    <xsd:element name="setAutoAnswer" type="xsd:long"/>
    <xsd:element name="setAutoWorkMode" type="xsd:long"/>
    <xsd:element name="setCallerIDStatus" type="xsd:long"/>
    <xsd:element name="setDoNotDisturb" type="xsd:long"/>
    <xsd:element name="setForwarding" type="xsd:long"/>
    <xsd:element name="setRouteingMode" type="xsd:long"/>
    <xsd:element name="backInService" type="xsd:long"/>
    <xsd:element name="deviceCapsChanged" type="xsd:long"/>
    <xsd:element name="outOfService" type="xsd:long"/>
    <xsd:element name="partiallyInService" type="xsd:long"/>
    <xsd:element name="ioRegister" type="xsd:long"/>
    <xsd:element name="ioRegisterAbort" type="xsd:long"/>
    <xsd:element name="ioRegisterCancel" type="xsd:long"/>
    <xsd:element name="dataPathResumed" type="xsd:long"/>
    <xsd:element name="dataPathSuspended" type="xsd:long"/>
    <xsd:element name="fastData" type="xsd:long"/>
    <xsd:element name="resumeDataPath" type="xsd:long"/>
    <xsd:element name="sendBroadcastData" type="xsd:long"/>
    <xsd:element name="sendData" type="xsd:long"/>
    <xsd:element name="sendMulticastData" type="xsd:long"/>
    <xsd:element name="startDataPath" type="xsd:long"/>
    <xsd:element name="stopDataPath" type="xsd:long"/>
    <xsd:element name="suspendDataPath" type="xsd:long"/>
    <xsd:element name="concatenateMsg" type="xsd:long"/>
    <xsd:element name="deleteMsg" type="xsd:long"/>
    <xsd:element name="playMsg" type="xsd:long"/>
    <xsd:element name="queryVoiceAttribute" type="xsd:long"/>
    <xsd:element name="recordMsg" type="xsd:long"/>
    <xsd:element name="reposition" type="xsd:long"/>
    <xsd:element name="resume" type="xsd:long"/>
    <xsd:element name="review" type="xsd:long"/>
    <xsd:element name="setVoiceAttribute" type="xsd:long"/>
    <xsd:element name="stop" type="xsd:long"/>
    <xsd:element name="suspend" type="xsd:long"/>
    <xsd:element name="synthesizeMsg" type="xsd:long"/>
    <xsd:element name="cDRNotification" type="xsd:long"/>
    <xsd:element name="cDRReport" type="xsd:long"/>
    <xsd:element name="sendStoredCDRs" type="xsd:long"/>
    <xsd:element name="startCDRTransmission" type="xsd:long"/>
    <xsd:element name="stopCDRTransmission" type="xsd:long"/>
    <xsd:element name="escapeRegister" type="xsd:long"/>
    <xsd:element name="escapeRegisterAbort" type="xsd:long"/>
    <xsd:element name="escapeRegisterCancel" type="xsd:long"/>
    <xsd:element name="escape" type="xsd:long"/>
    <xsd:element name="privateDataVersion" type="xsd:long"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MediaServiceCapsList">
  <xsd:sequence>
    <xsd:element name="mediaServiceCapsItem" minOccurs="0" maxOccurs="unbounded">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
          <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
```

```
        <xsd:element name="mediaServiceInstance" type="csta:MediaServiceInstanceID" minOccurs="0"/>
        <xsd:element name="connectionMode" type="csta:ConnectionModeBMap" minOccurs="0"/>
        <xsd:element name="mediaStreamIDSupported" type="xsd:boolean"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
 </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="DeviceCategory">
 <xsd:restriction base="xsd:string">
  <xsd:enumeration value="acd"/>
  <xsd:enumeration value="group"/>
  <xsd:enumeration value="networkInterface"/>
  <xsd:enumeration value="park"/>
  <xsd:enumeration value="routeingDevice"/>
  <xsd:enumeration value="station"/>
  <xsd:enumeration value="voiceUnit"/>
  <xsd:enumeration value="other"/>
 </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="GroupDeviceAttributes">
 <xsd:sequence>
  <xsd:element name="acd" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="hunt" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="pick" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="user" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
 </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="NamedDeviceTypes">
 <xsd:restriction base="xsd:string">
  <xsd:enumeration value="acd"/>
  <xsd:enumeration value="acdGroup"/>
  <xsd:enumeration value="button"/>
  <xsd:enumeration value="buttonGroup"/>
  <xsd:enumeration value="conferenceBridge"/>
  <xsd:enumeration value="line"/>
  <xsd:enumeration value="lineGroup"/>
  <xsd:enumeration value="operator"/>
  <xsd:enumeration value="operatorGroup"/>
  <xsd:enumeration value="parkingDevice"/>
  <xsd:enumeration value="station"/>
  <xsd:enumeration value="stationGroup"/>
  <xsd:enumeration value="trunk"/>
  <xsd:enumeration value="trunkGroup"/>
  <xsd:enumeration value="other"/>
  <xsd:enumeration value="otherGroup"/>
 </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="ACDModels">
 <xsd:sequence>
  <xsd:element name="visibleACDRelatedDevices" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="nonVisibleACDRelatedDevices" type="xsd:boolean" minOccurs="0"/>
 </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="AgentLogOnModels">
 <xsd:sequence>
  <xsd:element name="logOnToACDDevice" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="logOnToACDGroupExplOneStep" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="logOnToACDGroupExplTwoSteps" type="xsd:boolean" minOccurs="0"/>
  <xsd:element name="logOnToACDImplOneStep" type="xsd:boolean" minOccurs="0"/>
 </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="AppearanceType">
 <xsd:restriction base="xsd:string">
  <xsd:enumeration value="selectedStandard"/>
  <xsd:enumeration value="basicStandard"/>
```

```
      <xsd:enumeration value="basicBridged"/>
      <xsd:enumeration value="exclusiveBridged"/>
      <xsd:enumeration value="independentSharedBridged"/>
      <xsd:enumeration value="interdependentSharedBridged"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:complexType name="TransAndConfSetup">
    <xsd:sequence>
      <xsd:element name="consultationCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="holdCallMakeCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="alternateCall" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="twoCallsInHold" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="twoCallsInConnected" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

9.11 Call Detail Record

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-detail-record</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="security.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:simpleType name="CDRCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="cdrCrossRefID" type="csta:CDRCrossRefID"/>

  <xsd:simpleType name="CDRReason">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="timeout"/>
      <xsd:enumeration value="thresholdReached"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="CDRInfo">
    <xsd:sequence>
      <xsd:element name="cdrInformationItem" type="csta:CDRInformationItem" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CDRInformationItem">
    <xsd:sequence>
      <xsd:element name="recordNumber" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="1"/>
            <xsd:maxInclusive value="128"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="recordCreationTime" type="csta:TimeInfo"/>
      <xsd:element ref="csta:callingDevice" minOccurs="0"/>
      <xsd:element ref="csta:calledDevice" minOccurs="0"/>
      <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
      <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
      <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
      <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
      <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
      <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
      <xsd:element name="chargedDevice" type="csta:ChargedDevice" minOccurs="0"/>
      <xsd:element name="recordedCall" type="csta:ConnectionID" minOccurs="0"/>
      <xsd:element name="nodeNumber" type="csta:NodeNumber" minOccurs="0"/>
      <xsd:element name="tariffTable" type="xsd:long" minOccurs="0"/>
```

```
    <xsd:element name="connectionStart" type="csta:TimeInfo" minOccurs="0"/>
    <xsd:element name="connectionEnd" type="csta:TimeInfo" minOccurs="0"/>
    <xsd:element name="connectionDuration" type="xsd:long" minOccurs="0"/>
    <xsd:element name="accessCode" type="xsd:string" minOccurs="0"/>
    <xsd:element name="carrier" type="xsd:long" minOccurs="0"/>
    <xsd:element name="selectedRoute" type="xsd:long" minOccurs="0"/>
    <xsd:element name="billingID" type="csta:BillingID" minOccurs="0"/>
    <xsd:element name="chargingInfo" type="csta:ChargingInfo" minOccurs="0"/>
    <xsd:element name="supplServiceInfo" type="csta:SupplServiceInfo" minOccurs="0"/>
    <xsd:element name="reasonForTerm" type="csta:ReasonForTerm" minOccurs="0"/>
    <xsd:element name="authCode" type="csta:AuthCode" minOccurs="0"/>
    <xsd:element name="accountInfo" type="csta:AccountInfo" minOccurs="0"/>
    <xsd:element name="deviceCategory" type="csta:DeviceCategory" minOccurs="0"/>
    <xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
    <xsd:element name="operatorDevice" type="csta:DeviceID" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ChargedDevice">
  <xsd:choice>
    <xsd:element name="operator" type="csta:DeviceID"/>
    <xsd:element name="nonOperator" type="csta:DeviceID"/>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="NodeNumber">
  <xsd:sequence>
    <xsd:element name="area0" type="xsd:long" minOccurs="0"/>
    <xsd:element name="area1" type="xsd:long" minOccurs="0"/>
    <xsd:element name="area2" type="xsd:long" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="BillingID">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="normalCharging"/>
    <xsd:enumeration value="reverseCharging"/>
    <xsd:enumeration value="creditCardCharging"/>
    <xsd:enumeration value="callForwarding"/>
    <xsd:enumeration value="callDeflection"/>
    <xsd:enumeration value="callTransfer"/>
    <xsd:enumeration value="other"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="SupplServiceInfo">
  <xsd:sequence>
    <xsd:element name="normalCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultationCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transferCall" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callCompletion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callForwarding" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="callDiversion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="conferencing" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="intrusion" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="userUserInfo" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="ReasonForTerm">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="normalClearing"/>
    <xsd:enumeration value="unsuccessfulCallAttempt"/>
    <xsd:enumeration value="abnormalTermination"/>
    <xsd:enumeration value="callTransferred"/>
    <xsd:enumeration value="other"/>
```

```
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="CDRTimePeriod">
    <xsd:sequence>
      <xsd:element name="beginningOfCDR" type="csta:TimeInfo"/>
      <xsd:element name="endOfCDR" type="csta:TimeInfo"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="CDRTransferMode">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="transferAtEndOfCall"/>
      <xsd:enumeration value="transferOnRequest"/>
      <xsd:enumeration value="transferOnThresholdReached"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="CDRTermReason">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="endOfDataDetected"/>
      <xsd:enumeration value="errorDetected"/>
      <xsd:enumeration value="thresholdReached"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

9.12 Charge information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-charge-info</xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="ChargingInfo">
    <xsd:sequence>
      <xsd:element name="numberUnits" type="csta:NumberUnits"/>
      <xsd:element name="typeOfChargingInfo">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="subTotal"/>
            <xsd:enumeration value="total"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="NumberUnits">
    <xsd:choice>
      <xsd:element name="numberOfChargeUnits" type="csta:NumberOfChargingUnits"/>
      <xsd:element name="numberOfCurrencyUnits" type="csta:NumberOfCurrencyUnits"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:complexType name="NumberOfChargingUnits">
    <xsd:sequence>
      <xsd:element name="chargingUnitsRecord" type="csta:ChargingUnitsRecord" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="ChargingUnitsRecord">
    <xsd:sequence>
      <xsd:element name="chargingUnits" type="xsd:long"/>
      <xsd:element name="typeOfUnits" type="xsd:string" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="NumberOfCurrencyUnits">
    <xsd:sequence>
      <xsd:element name="currencyType">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string"/>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="currencyAmount" type="xsd:long"/>
      <xsd:element name="currencyMultiplier">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="oneThousandth"/>
            <xsd:enumeration value="oneHundredth"/>
            <xsd:enumeration value="oneTenth"/>
            <xsd:enumeration value="one"/>
            <xsd:enumeration value="ten"/>
            <xsd:enumeration value="hundred"/>
            <xsd:enumeration value="thousand"/>
          </xsd:restriction>
```

```
        </xsd:simpleType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

9.13 Data call types

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-call-types</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="NumberOfChannels">
    <xsd:restriction base="xsd:long"/>
  </xsd:simpleType>

  <xsd:simpleType name="MaxChannelBind">
    <xsd:restriction base="xsd:long"/>
  </xsd:simpleType>

  <xsd:complexType name="ConnectionRateList">
    <xsd:sequence>
      <xsd:element name="connectionRate" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DelayToleranceList">
    <xsd:sequence>
      <xsd:element name="delayTolerance" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

9.14 Escape types

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-types</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="EscapeRegisterID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="escapeRegisterID" type="csta:EscapeRegisterID"/>

</xsd:schema>
```

9.15 Media services

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:annotation>
    <xsd:documentation>CSTA-media-services</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="MediaServiceType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="cstaVoiceUnit"/>
      <xsd:enumeration value="dataModem"/>
      <xsd:enumeration value="digitalDataIsochronousIeee1394"/>
      <xsd:enumeration value="digitalDataIsochronousGeoport"/>
      <xsd:enumeration value="digitalDataIsochronousIeeeAtm"/>
      <xsd:enumeration value="digitalDataIsochronousIeeeIsdn"/>
      <xsd:enumeration value="digitalDataApi"/>
      <xsd:enumeration value="ectfS100MediaServicesDefault"/>
      <xsd:enumeration value="ectfS100MediaServicesAppServices"/>
      <xsd:enumeration value="cstaIVRScript1"/>
      <xsd:enumeration value="cstaIVRScript2"/>
      <xsd:enumeration value="cstaIVRScript3"/>
      <xsd:enumeration value="cstaIVRScript4"/>
      <xsd:enumeration value="cstaIVRScript5"/>
      <xsd:enumeration value="cstaIVRScript6"/>
      <xsd:enumeration value="cstaIVRScript7"/>
      <xsd:enumeration value="cstaIVRScript8"/>
      <xsd:enumeration value="cstaIVRScript9"/>
      <xsd:enumeration value="cstaIVRScript10"/>
      <xsd:enumeration value="liveSoundCaptureAnalog"/>
      <xsd:enumeration value="liveSoundTransmitAnalog"/>
      <xsd:enumeration value="liveSoundCaptureIeee1394"/>
      <xsd:enumeration value="liveSoundTransmitIeee1394"/>
      <xsd:enumeration value="liveSoundCaptureTransmitGeoport"/>
      <xsd:enumeration value="liveSoundCaptureTransmitAtm"/>
      <xsd:enumeration value="liveSoundCaptureTransmitISDN"/>
      <xsd:enumeration value="soundCaptureTransmitADPCM"/>
      <xsd:enumeration value="soundCaptureTransmitApi"/>
      <xsd:enumeration value="usb"/>
      <xsd:enumeration value="sfSpecific1"/>
      <xsd:enumeration value="sfSpecific2"/>
      <xsd:enumeration value="sfSpecific3"/>
      <xsd:enumeration value="sfSpecific4"/>
      <xsd:enumeration value="sfSpecific5"/>
      <xsd:enumeration value="sfSpecific6"/>
      <xsd:enumeration value="sfSpecific7"/>
      <xsd:enumeration value="sfSpecific8"/>
      <xsd:enumeration value="sfSpecific9"/>
      <xsd:enumeration value="sfSpecific10"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="MediaStreamID">
    <xsd:restriction base="xsd:string">
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="MediaServiceInstanceID">
    <xsd:restriction base="xsd:string">
    </xsd:restriction>
```

```
</xsd:simpleType>

<xsd:complexType name="ConnectionInformation">
  <xsd:sequence>
    <xsd:element name="flowDirection" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="transmit"/>
          <xsd:enumeration value="receive"/>
          <xsd:enumeration value="transmitAndReceive"/>
          <xsd:enumeration value="none"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="numberOfChannels" type="xsd:long" default="1" minOccurs="0"/>
    <xsd:element name="mediaSessionInfo" type="xsd:string" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:simpleType name="ConnectionMode">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="consultationConference"/>
    <xsd:enumeration value="consultationConferenceHold"/>
    <xsd:enumeration value="directedPickup"/>
    <xsd:enumeration value="join"/>
    <xsd:enumeration value="singleStepConference"/>
    <xsd:enumeration value="singleStepConferenceHold"/>
    <xsd:enumeration value="singleStepTransfer"/>
    <xsd:enumeration value="transfer"/>
    <xsd:enumeration value="direct"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="ConnectionModeBMap">
  <xsd:sequence>
    <xsd:element name="consultationConference" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="consultationConferenceHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="directedPickup" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="join" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="singleStepConference" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="singleStepConferenceHold" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="singleStepTransfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="transfer" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="direct" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MediaCallCharacteristics">
  <xsd:sequence>
    <xsd:element name="mediaClass" type="csta:MediaClass"/>
    <xsd:element name="connectionRate" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:long">
          <xsd:minInclusive value="0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="bitRate" default="constant" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="constant"/>
          <xsd:enumeration value="variable"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="delayTolerance" type="xsd:long" minOccurs="0"/>
    <xsd:element name="switchingSubDomainCCIEType" minOccurs="0">
```

```
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="isdn"/>
          <xsd:enumeration value="atm"/>
          <xsd:enumeration value="isoEthernet"/>
          <xsd:enumeration value="rsvp"/>
            <xsd:enumeration value="sip"/>
          <xsd:enumeration value="other"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="switchingSubDomainInformationElements" minOccurs="0">
      <xsd:simpleType>
        <xsd:restriction base="xsd:hexBinary"/>
      </xsd:simpleType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="mediaCallCharacteristics" type="csta:MediaCallCharacteristics"/>

<xsd:complexType name="MediaClass">
  <xsd:sequence>
    <xsd:element name="voice" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="data" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="image" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="audio" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="other" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="notKnown" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="chat" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="email" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="message" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="im" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="sms" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="mms" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

</xsd:schema>
```

9.16 Physical device features

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-physical-device-features</xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="AuditoryApparatusList">
    <xsd:sequence>
      <xsd:element name="auditoryApparatusItem" type="csta:AuditoryApparatusItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="AuditoryApparatusItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="auditoryApparatusType">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="speakerphone"/>
            <xsd:enumeration value="handset"/>
            <xsd:enumeration value="headset"/>
            <xsd:enumeration value="speakerOnlyPhone"/>
            <xsd:enumeration value="other"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="speaker">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="present" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="volumeSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="volumeReadable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteReadable" type="xsd:boolean" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="microphone">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="present" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="gainSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="gainReadable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="muteReadable" type="xsd:boolean" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="hookswitch">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="hookswitchSettable" type="xsd:boolean" minOccurs="0"/>
            <xsd:element name="hookswitchOnHook" type="xsd:boolean" minOccurs="0"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="hookswitchID" type="csta:HookswitchID"/>
    </xsd:sequence>
  </xsd:complexType>
```

```
<xsd:simpleType name="AuditoryApparatusID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ButtonID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="CharacterSet">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="ascii"/>
    <xsd:enumeration value="unicode"/>
    <xsd:enumeration value="proprietary"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="DisplayID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="HookswitchID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampBrightness">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="unspecified"/>
    <xsd:enumeration value="dim"/>
    <xsd:enumeration value="bright"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampColor">
  <xsd:annotation>
    <xsd:documentation>named values are represented as integer</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:short">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="100"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampID">
  <xsd:restriction base="xsd:string">
    <xsd:minLength value="0"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="LampMode">
  <xsd:annotation>
    <xsd:documentation>named values are represented as integer</xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:short">
    <xsd:minInclusive value="0"/>
    <xsd:maxInclusive value="100"/>
  </xsd:restriction>
</xsd:simpleType>
```

```
  <xsd:complexType name="MicrophoneGain">
    <xsd:choice>
      <xsd:element name="micGainAbs" type="csta:MicGainAbs"/>
      <xsd:element name="micGainInc" type="csta:MicGainInc"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="MicGainInc">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="increment"/>
      <xsd:enumeration value="decrement"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="MicGainAbs">
    <xsd:restriction base="xsd:short">
      <xsd:minInclusive value="0"/>
      <xsd:maxInclusive value="100"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="RingerID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="RingMode">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="ringing"/>
      <xsd:enumeration value="notRinging"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="Volume">
    <xsd:choice>
      <xsd:element name="volAbs" type="csta:VolAbs"/>
      <xsd:element name="volInc" type="csta:VolInc"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="VolInc">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="increment"/>
      <xsd:enumeration value="decrement"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="VolAbs">
    <xsd:restriction base="xsd:short">
      <xsd:minInclusive value="0"/>
      <xsd:maxInclusive value="100"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

9.17 Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
 elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="DcollCrossRefID">
    <xsd:restriction base="xsd:string">
      <xsd:minLength value="0"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="dcollCrossRefID" type="csta:DcollCrossRefID"/>

</xsd:schema>
```

9.18 Event Cause

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-event-cause</xsd:documentation>
  </xsd:annotation>

  <xsd:simpleType name="EventCause">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="aCDBusy"/>
      <xsd:enumeration value="aCDForward"/>
      <xsd:enumeration value="aCDSaturated"/>
      <xsd:enumeration value="activation"/>
      <xsd:enumeration value="activeParticipation"/>
      <xsd:enumeration value="alertTimeExpired"/>
      <xsd:enumeration value="alternate"/>
      <xsd:enumeration value="autoWork"/>
      <xsd:enumeration value="babble"/>
      <xsd:enumeration value="badAttribute"/>
      <xsd:enumeration value="badGrammar"/>
      <xsd:enumeration value="badURI"/>
      <xsd:enumeration value="badVoice"/>
      <xsd:enumeration value="blocked"/>
      <xsd:enumeration value="busy"/>
      <xsd:enumeration value="busyOverflow"/>
      <xsd:enumeration value="calendarOverflow"/>
      <xsd:enumeration value="callBack"/>
      <xsd:enumeration value="callCancelled"/>
      <xsd:enumeration value="callForward"/>
      <xsd:enumeration value="callForwardImmediate"/>
      <xsd:enumeration value="callForwardBusy"/>
      <xsd:enumeration value="callForwardNoAnswer"/>
      <xsd:enumeration value="callNotAnswered"/>
      <xsd:enumeration value="callPickup"/>
      <xsd:enumeration value="campOn"/>
      <xsd:enumeration value="campOnTrunks"/>
      <xsd:enumeration value="capacityOverflow"/>
      <xsd:enumeration value="characterCountReached"/>
      <xsd:enumeration value="conference"/>
      <xsd:enumeration value="consultation"/>
      <xsd:enumeration value="destDetected"/>
      <xsd:enumeration value="destNotObtainable"/>
      <xsd:enumeration value="destOutOfOrder"/>
      <xsd:enumeration value="distributed"/>
      <xsd:enumeration value="distributionDelay"/>
      <xsd:enumeration value="doNotDisturb"/>
      <xsd:enumeration value="dTMFDigitDetected"/>
      <xsd:enumeration value="duplicateDTMF"/>
      <xsd:enumeration value="durationExceeded"/>
      <xsd:enumeration value="earlyStop"/>
      <xsd:enumeration value="emptyQueue"/>
      <xsd:enumeration value="endOfMessageDetected"/>
      <xsd:enumeration value="enteringDistribution"/>
      <xsd:enumeration value="forcedPause"/>
      <xsd:enumeration value="forcedTransition"/>
      <xsd:enumeration value="incompatibleDestination"/>
      <xsd:enumeration value="interdigitTimeout"/>
      <xsd:enumeration value="intrude"/>
      <xsd:enumeration value="invalidAccountCode"/>
      <xsd:enumeration value="invalidConnection"/>
      <xsd:enumeration value="invalidConnectionState"/>
```

```
      <xsd:enumeration value="invalidNumberFormat"/>
      <xsd:enumeration value="joinCall"/>
      <xsd:enumeration value="keyOperation"/>
      <xsd:enumeration value="keyOperationInUse"/>
      <xsd:enumeration value="lockout"/>
      <xsd:enumeration value="maintenance"/>
      <xsd:enumeration value="makeCall"/>
      <xsd:enumeration value="makePredictiveCall"/>
      <xsd:enumeration value="maxTimeout"/>
      <xsd:enumeration value="messageDurationExceeded"/>
      <xsd:enumeration value="messageSizeExceeded"/>
      <xsd:enumeration value="multipleAlerting"/>
      <xsd:enumeration value="multipleQueuing"/>
      <xsd:enumeration value="networkCongestion"/>
      <xsd:enumeration value="networkDialling"/>
      <xsd:enumeration value="networkNotObtainable"/>
      <xsd:enumeration value="networkOutOfOrder"/>
      <xsd:enumeration value="networkSignal"/>
      <xsd:enumeration value="newCall"/>
      <xsd:enumeration value="nextMessage"/>
      <xsd:enumeration value="noAvailableAgents"/>
      <xsd:enumeration value="normal"/>
      <xsd:enumeration value="normalClearing"/>
      <xsd:enumeration value="noAudioSaved"/>
      <xsd:enumeration value="noQueue"/>
      <xsd:enumeration value="noRule"/>
      <xsd:enumeration value="noSpeechDetected"/>
      <xsd:enumeration value="notAvailableBearerService"/>
      <xsd:enumeration value="notSupportedBearerService"/>
      <xsd:enumeration value="numberChanged"/>
      <xsd:enumeration value="numberUnallocated"/>
      <xsd:enumeration value="outOfGrammar"/>
      <xsd:enumeration value="overflow"/>
      <xsd:enumeration value="override"/>
      <xsd:enumeration value="park"/>
      <xsd:enumeration value="pathReplacement"/>
      <xsd:enumeration value="queueCleared"/>
      <xsd:enumeration value="queueTimeOverflow"/>
      <xsd:enumeration value="recall"/>
      <xsd:enumeration value="recallBusy"/>
      <xsd:enumeration value="recallForwarded"/>
      <xsd:enumeration value="recallNoAnswer"/>
      <xsd:enumeration value="recallResourcesNotAvailable"/>
      <xsd:enumeration value="redirected"/>
      <xsd:enumeration value="remainsInQueue"/>
      <xsd:enumeration value="reorderTone"/>
      <xsd:enumeration value="reserved"/>
      <xsd:enumeration value="resourcesNotAvailable"/>
      <xsd:enumeration value="selectedTrunkBusy"/>
      <xsd:enumeration value="silentParticipation"/>
      <xsd:enumeration value="singleStepConference"/>
      <xsd:enumeration value="singleStepTransfer"/>
      <xsd:enumeration value="speechDetected"/>
      <xsd:enumeration value="suspend"/>
      <xsd:enumeration value="switchingFunctionTerminated"/>
      <xsd:enumeration value="terminationCharacterReceived"/>
      <xsd:enumeration value="timeout"/>
      <xsd:enumeration value="transfer"/>
      <xsd:enumeration value="trunksBusy"/>
      <xsd:enumeration value="unauthorisedBearerService"/>
      <xsd:enumeration value="unknownOverflow"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:element name="cause" type="csta:EventCause"/>
</xsd:schema>
```

9.19 Error Value

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-error-definition</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="empty.xsd"/>

  <xsd:simpleType name="OperationErrors">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="generic"/>
      <xsd:enumeration value="atLeastOneConditionalParameterNotProvided"/>
      <xsd:enumeration value="featureAlreadySet"/>
      <xsd:enumeration value="invalidMsgID"/>
      <xsd:enumeration value="invalidParameterValue"/>
      <xsd:enumeration value="invalidAccountCode"/>
      <xsd:enumeration value="invalidAgentGroup"/>
      <xsd:enumeration value="invalidAgentIdentifier"/>
      <xsd:enumeration value="invalidAgentPassword"/>
      <xsd:enumeration value="invalidAgentState"/>
      <xsd:enumeration value="invalidAlertTime"/>
      <xsd:enumeration value="invalidAllocationState"/>
      <xsd:enumeration value="invalidAuthCode"/>
      <xsd:enumeration value="invalidAutoAnswer"/>
      <xsd:enumeration value="invalidBitRate"/>
      <xsd:enumeration value="invalidButtonIdentifier"/>
      <xsd:enumeration value="invalidCallType"/>
      <xsd:enumeration value="invalidConnectionRate"/>
      <xsd:enumeration value="invalidConsultPurpose"/>
      <xsd:enumeration value="invalidCorrelatorData"/>
      <xsd:enumeration value="invalidCrossRefID"/>
      <xsd:enumeration value="invalidDelayTolerance"/>
      <xsd:enumeration value="invalidDestination"/>
      <xsd:enumeration value="invalidDestinationDetect"/>
      <xsd:enumeration value="invalidDoNotDisturb"/>
      <xsd:enumeration value="invalidEscapeCrossRefID"/>
      <xsd:enumeration value="invalidFeature"/>
      <xsd:enumeration value="invalidFile"/>
      <xsd:enumeration value="invalidFlowDirection"/>
      <xsd:enumeration value="invalidForwardingDestination"/>
      <xsd:enumeration value="invalidForwardingFlag"/>
      <xsd:enumeration value="invalidForwardingType"/>
      <xsd:enumeration value="invalidHookswitchType"/>
      <xsd:enumeration value="invalidHookswitchComponent"/>
      <xsd:enumeration value="invalidLampMode"/>
      <xsd:enumeration value="invalidLampID"/>
      <xsd:enumeration value="invalidMessageWaitingSetting"/>
      <xsd:enumeration value="invalidMicrophoneGain"/>
      <xsd:enumeration value="invalidMicrophoneMute"/>
      <xsd:enumeration value="invalidMonitorCrossRefID"/>
      <xsd:enumeration value="invalidMonitorFilter"/>
      <xsd:enumeration value="invalidMonitorObject"/>
      <xsd:enumeration value="invalidMonitorType"/>
      <xsd:enumeration value="invalidNumberOFChannels"/>
      <xsd:enumeration value="invalidParticipationType"/>
      <xsd:enumeration value="invalidRemainRetry"/>
      <xsd:enumeration value="invalidRingCount"/>
      <xsd:enumeration value="invalidRingPattern"/>
      <xsd:enumeration value="invalidRingVolume"/>
      <xsd:enumeration value="invalidRouteingAlgorithm"/>
```

```
<xsd:enumeration value="invalidRouteingCrossRefID"/>
<xsd:enumeration value="invalidRouteRegistrationCrossRefID"/>
<xsd:enumeration value="invalidSpeakerVolume"/>
<xsd:enumeration value="invalidSpeakerMute"/>
<xsd:enumeration value="invalidSwitchingSubdomainCharsType"/>
<xsd:enumeration value="invalidObjectType"/>
<xsd:enumeration value="invalidActiveCallObject"/>
<xsd:enumeration value="invalidCalledDeviceObjectType"/>
<xsd:enumeration value="invalidCallingDeviceObjectType"/>
<xsd:enumeration value="invalidCallToBePickedUpObjectType"/>
<xsd:enumeration value="invalidCallToDivertObjectType"/>
<xsd:enumeration value="invalidCallToParkObjectType"/>
<xsd:enumeration value="invalidDestinationDeviceObject"/>
<xsd:enumeration value="invalidHeldCallObject"/>
<xsd:enumeration value="invalidMonitorObjectType"/>
<xsd:enumeration value="invalidParkToObjectType"/>
<xsd:enumeration value="messageIDRequired"/>
<xsd:enumeration value="notDifferentDevices"/>
<xsd:enumeration value="notSameDevice"/>
<xsd:enumeration value="objectNotKnown"/>
<xsd:enumeration value="invalidCallID"/>
<xsd:enumeration value="invalidActiveCallID"/>
<xsd:enumeration value="invalidHeldCallID"/>
<xsd:enumeration value="invalidConnectionID"/>
<xsd:enumeration value="invalidActiveConnectionID"/>
<xsd:enumeration value="invalidHeldConnectionID"/>
<xsd:enumeration value="invalidDeviceID"/>
<xsd:enumeration value="invalidActiveDeviceID"/>
<xsd:enumeration value="invalidCalledDeviceID"/>
<xsd:enumeration value="invalidCallingDeviceID"/>
<xsd:enumeration value="invalidCallToParkDeviceID"/>
<xsd:enumeration value="invalidDestinationDeviceID"/>
<xsd:enumeration value="invalidDivertingDeviceID"/>
<xsd:enumeration value="invalidHeldDeviceID"/>
<xsd:enumeration value="invalidParkToDeviceID"/>
<xsd:enumeration value="invalidPickUpDeviceID"/>
<xsd:enumeration value="parameterNotSupported"/>
<xsd:enumeration value="accountCodeNotSupported"/>
<xsd:enumeration value="agentGroupNotSupported"/>
<xsd:enumeration value="agentPasswordNotSupported"/>
<xsd:enumeration value="agentStateNotSupported"/>
<xsd:enumeration value="alertTimeNotSupported"/>
<xsd:enumeration value="allocationNotSupported"/>
<xsd:enumeration value="authorisationCodeNotSupported"/>
<xsd:enumeration value="autoAnswerNotSupported"/>
<xsd:enumeration value="bitRateNotSupported"/>
<xsd:enumeration value="buttonNotSupported"/>
<xsd:enumeration value="callTypeNotSupported"/>
<xsd:enumeration value="charactersToSendNotSupported"/>
<xsd:enumeration value="connectionRateNotSupported"/>
<xsd:enumeration value="connectionReservationNotSupported"/>
<xsd:enumeration value="consultPurposeNotSupported"/>
<xsd:enumeration value="correlatorDataNotSupported"/>
<xsd:enumeration value="delayToleranceNotSupported"/>
<xsd:enumeration value="destinationDetectNotSupported"/>
<xsd:enumeration value="digitModeNotSupported"/>
<xsd:enumeration value="errorValueNotSupported"/>
<xsd:enumeration value="flowDirectionNotSupported"/>
<xsd:enumeration value="forwardingDestinationNotSupported"/>
<xsd:enumeration value="lampNotSupported"/>
<xsd:enumeration value="monitorTypeNotSupported"/>
<xsd:enumeration value="numberOfChannelsNotSupported"/>
<xsd:enumeration value="parameterTypeNotSupported"/>
<xsd:enumeration value="priorityNotSupported"/>
<xsd:enumeration value="privateDataNotSupported"/>
<xsd:enumeration value="pulseDurationNotSupported"/>
<xsd:enumeration value="pulseRateNotSupported"/>
```

```
<xsd:enumeration value="remainRetryNotSupported"/>
<xsd:enumeration value="ringCountNotSupported"/>
<xsd:enumeration value="routeUsedNotSupported"/>
<xsd:enumeration value="securityNotSupported"/>
<xsd:enumeration value="swSubdomainCCIETypeNotSupported"/>
<xsd:enumeration value="toneDurationNotSupported"/>
<xsd:enumeration value="sysStatRegIDNotSupported"/>
<xsd:enumeration value="userDataNotSupported"/>
<xsd:enumeration value="privilegeViolationSpecifiedDevice"/>
<xsd:enumeration value="privilegeViolationActiveDevice"/>
<xsd:enumeration value="privilegeViolationCalledDevice"/>
<xsd:enumeration value="privilegeViolationCallingDevice"/>
<xsd:enumeration value="privilegeViolationCallToParkDevice"/>
<xsd:enumeration value="privilegeViolationDestinationDevice"/>
<xsd:enumeration value="privilegeViolationOnDivertingDevice"/>
<xsd:enumeration value="privilegeViolationHeldDevice"/>
<xsd:enumeration value="privilegeViolationOnParkToDevice"/>
<xsd:enumeration value="privilegeViolationPickUpDevice"/>
<xsd:enumeration value="routeingTimerExpired"/>
<xsd:enumeration value="requestIncompatibleWithObject"/>
<xsd:enumeration value="requestIncompatibleWithConnection"/>
<xsd:enumeration value="requestIncompatibleWithActiveConnection"/>
<xsd:enumeration value="requestIncompatibleWithHeldConnection"/>
<xsd:enumeration value="requestIncompatibleWithDevice"/>
<xsd:enumeration value="requestIncompatibleWithCalledDevice"/>
<xsd:enumeration value="requestIncompatibleWithCallingDevice"/>
<xsd:enumeration value="requestIncompatibleWithSubjectDevice"/>
<xsd:enumeration value="requestIncompatibleWithActiveDevice"/>
<xsd:enumeration value="requestIncompatibleWithCallToParkDevice"/>
<xsd:enumeration value="requestIncompatibleWithDestinationDevice"/>
<xsd:enumeration value="requestIncompatibleWithDivertingDevice"/>
<xsd:enumeration value="requestIncompatibleWithHeldDevice"/>
<xsd:enumeration value="requestIncompatibleWithMedia"/>
<xsd:enumeration value="requestIncompatibleWithParkToDevice"/>
<xsd:enumeration value="requestIncompatibleWithPickupDevice"/>
<xsd:enumeration value="serviceNotSupported"/>
<xsd:enumeration value="securityViolation"/>
<xsd:enumeration value="valueOutOfRange"/>
<xsd:enumeration value="agentStateOutOfRange"/>
<xsd:enumeration value="alertTimeOutOfRange"/>
<xsd:enumeration value="allocationOutOfRange"/>
<xsd:enumeration value="autoAnswerOutOfRange"/>
<xsd:enumeration value="bitRateOutOfRange"/>
<xsd:enumeration value="callTypeOutOfRange"/>
<xsd:enumeration value="connectionRateOutOfRange"/>
<xsd:enumeration value="connectionReservoationOutOfRange"/>
<xsd:enumeration value="consultPurposeOutOfRange"/>
<xsd:enumeration value="correlatorDataOutOfRange"/>
<xsd:enumeration value="delayToleranceOutOfRange"/>
<xsd:enumeration value="destinationDetectOutOfRange"/>
<xsd:enumeration value="digitModeOutOfRange"/>
<xsd:enumeration value="doNotDisturbOutOfRange"/>
<xsd:enumeration value="flowDirectionOutOfRange"/>
<xsd:enumeration value="forwardingFlagOutOfRange"/>
<xsd:enumeration value="forwardingTypeOutOfRange"/>
<xsd:enumeration value="hookswitchComponentOutOfRange"/>
<xsd:enumeration value="hookswitchTypeOutOfRange"/>
<xsd:enumeration value="lampModeOutOfRange"/>
<xsd:enumeration value="messageWaitingSettingOutOfRange"/>
<xsd:enumeration value="micGainOutOfRange"/>
<xsd:enumeration value="micMuteOutOfRange"/>
<xsd:enumeration value="monitorTypeOutOfRange"/>
<xsd:enumeration value="numberOfChannelsOutOfRange"/>
<xsd:enumeration value="participationTypeOutOfRange"/>
<xsd:enumeration value="pulseDurationOutOfRange"/>
<xsd:enumeration value="pulseRateOutOfRange"/>
<xsd:enumeration value="ringCountOutOfRange"/>
```

```
    <xsd:enumeration value="ringPatternOutOfRange"/>
    <xsd:enumeration value="ringVolumnOutOfRange"/>
    <xsd:enumeration value="routeingAlgorithmOutOfRange"/>
    <xsd:enumeration value="speakerMuteOutOfRange"/>
    <xsd:enumeration value="speakerVolumeOutOfRange"/>
    <xsd:enumeration value="switchingCcittTypeOutOfRange"/>
    <xsd:enumeration value="systemStatusOutOfRange"/>
    <xsd:enumeration value="toneCharacterOutOfRange"/>
    <xsd:enumeration value="toneDurationOutOfRange"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SecurityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="sequenceNumberViolated"/>
    <xsd:enumeration value="timeStampViolated"/>
    <xsd:enumeration value="securityInfoViolated"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="StateIncompatibilityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="invalidObjectState"/>
    <xsd:enumeration value="invalidDeviceState"/>
    <xsd:enumeration value="connectedCallExists"/>
    <xsd:enumeration value="invalidActiveDeviceState"/>
    <xsd:enumeration value="invalidCalledDeviceState"/>
    <xsd:enumeration value="invalidCallingDeviceState"/>
    <xsd:enumeration value="invalidCallToParkDeviceState"/>
    <xsd:enumeration value="invalidDestinationDeviceState"/>
    <xsd:enumeration value="invalidDivertingDeviceState"/>
    <xsd:enumeration value="invalidHeldDeviceState"/>
    <xsd:enumeration value="invalidParkToDeviceState"/>
    <xsd:enumeration value="invalidConnectionState"/>
    <xsd:enumeration value="invalidActiveConnectionState"/>
    <xsd:enumeration value="invalidConnectionIDForActiveCall"/>
    <xsd:enumeration value="invalidHeldConnectionState"/>
    <xsd:enumeration value="noActiveCall"/>
    <xsd:enumeration value="noCallToAnswer"/>
    <xsd:enumeration value="noCallToClear"/>
    <xsd:enumeration value="noCallToComplete"/>
    <xsd:enumeration value="noConnectionToClear"/>
    <xsd:enumeration value="noHeldCall"/>
    <xsd:enumeration value="incorrectMsgState"/>
    <xsd:enumeration value="beginningOfMsg"/>
    <xsd:enumeration value="endOfMsg"/>
    <xsd:enumeration value="msgSuspended"/>
    <xsd:enumeration value="notAbleToPlay"/>
    <xsd:enumeration value="notAbleToResume"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SystemResourceAvailabilityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="resourceBusy"/>
    <xsd:enumeration value="internalResourceBusy"/>
    <xsd:enumeration value="classifierBusy"/>
    <xsd:enumeration value="noMediaChannelsAvailable"/>
    <xsd:enumeration value="channelsInUseForBridgedDevices"/>
    <xsd:enumeration value="channelsInUseForData"/>
    <xsd:enumeration value="toneDetectorBusy"/>
    <xsd:enumeration value="toneGeneratorBusy"/>
    <xsd:enumeration value="networkBusy"/>
    <xsd:enumeration value="resourceOutOfService"/>
```

```
    <xsd:enumeration value="deviceOutOfService"/>
    <xsd:enumeration value="activeDeviceOutOfService"/>
    <xsd:enumeration value="calledDeviceOutOfService"/>
    <xsd:enumeration value="callingDeviceOutOfService"/>
    <xsd:enumeration value="callToParkDeviceOutOfService"/>
    <xsd:enumeration value="destinationDeviceOutOfService"/>
    <xsd:enumeration value="divertingDeviceOutOfService"/>
    <xsd:enumeration value="heldDeviceOutOfService"/>
    <xsd:enumeration value="parkToDeviceOutOfService"/>
    <xsd:enumeration value="pickupDeviceOutOfService"/>
    <xsd:enumeration value="networkOutOfService"/>
    <xsd:enumeration value="otherResourceOutOfService"/>
    <xsd:enumeration value="resourceLimitExceeded"/>
    <xsd:enumeration value="overallMonitorLimitExceeded"/>
    <xsd:enumeration value="conferenceMemberLimitExceeded"/>
    <xsd:enumeration value="registrationLimitExceeded"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="SubscribedResourceAvailabilityErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="objectMonitorLimitExceeded"/>
    <xsd:enumeration value="trunkLimitExceeded"/>
    <xsd:enumeration value="outstandingReqLimitExceeded"/>
    <xsd:enumeration value="objectRegistrationLimitExceeded"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PerformanceManagementErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="generic"/>
    <xsd:enumeration value="performanceLimitExceeded"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="PrivateDataInfoErrors">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="cSTAPrivateDataInfoError"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="CSTAErrorCode" type="csta:UniversalFailure"/>
<xsd:complexType name="UniversalFailure">
  <xsd:choice>
    <xsd:element name="operation" type="csta:OperationErrors"/>
    <xsd:element name="security" type="csta:SecurityErrors"/>
    <xsd:element name="stateIncompatibility" type="csta:StateIncompatibilityErrors"/>
    <xsd:element name="systemResourceAvailibility"
    type="csta:SystemResourceAvailabilityErrors"/>
    <xsd:element name="subscribedResourceAvailability"
    type="csta:SubscribedResourceAvailabilityErrors"/>
    <xsd:element name="performanceManagement" type="csta:PerformanceManagementErrors"/>
    <xsd:element name="privateData" type="csta:PrivateDataInfoErrors"/>
    <xsd:element name="privateErrorCode" type="xsd:string"/>
    <xsd:element name="unspecified" type="csta:Empty"/>
  </xsd:choice>
</xsd:complexType>

<xsd:complexType name="ErrorValue">
  <xsd:complexContent>
    <xsd:extension base="csta:UniversalFailure"/>
  </xsd:complexContent>
</xsd:complexType>

<xsd:element name="ErrorValue" type="csta:ErrorValue"/>
</xsd:schema>
```

9.20 Empty (null element)

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>replacement for ASN.1 NULL type and helper type for representation of the ASN.1 BIT STRING type</
xsd:documentation>
  </xsd:annotation>

  <xsd:complexType name="Empty"/>

</xsd:schema>
```

10 Top level schema

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xsd:import namespace="http://schemas.xmlsoap.org/soap/envelope/"/>

  <xsd:annotation>
    <xsd:documentation>csta</xsd:documentation>
  </xsd:annotation>

  <xsd:annotation>
    <xsd:documentation>Capability Exchange Services</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="get-csta-features.xsd"/>
  <xsd:include schemaLocation="get-logical-device-information.xsd"/>
  <xsd:include schemaLocation="get-physical-device-information.xsd"/>
  <xsd:include schemaLocation="get-switching-function-capabilities.xsd"/>
  <xsd:include schemaLocation="get-switching-function-devices.xsd"/>
  <xsd:include schemaLocation="switching-function-devices.xsd"/>

  <xsd:annotation>
    <xsd:documentation>System Services</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="change-system-status-filter.xsd"/>
  <xsd:include schemaLocation="system-register.xsd"/>
  <xsd:include schemaLocation="system-register-abort.xsd"/>
  <xsd:include schemaLocation="system-register-cancel.xsd"/>
  <xsd:include schemaLocation="request-system-status.xsd"/>
  <xsd:include schemaLocation="system-status.xsd"/>
  <xsd:include schemaLocation="switching-functions-capabilities-changed.xsd"/>
  <xsd:include schemaLocation="switching-functions-devices-changed.xsd"/>

  <xsd:annotation>
    <xsd:documentation>Monitoring Services</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="change-monitor-filter.xsd"/>
  <xsd:include schemaLocation="monitor-start.xsd"/>
  <xsd:include schemaLocation="monitor-stop.xsd"/>

  <xsd:annotation>
    <xsd:documentation>Snapshot  Services</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="snapshot-call.xsd"/>
  <xsd:include schemaLocation="snapshot-device.xsd"/>
  <xsd:include schemaLocation="snapshot-call-data.xsd"/>
  <xsd:include schemaLocation="snapshot-device-data.xsd"/>

  <xsd:annotation>
    <xsd:documentation>Call Control Services</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="accept-call.xsd"/>
  <xsd:include schemaLocation="alternate-call.xsd"/>
  <xsd:include schemaLocation="answer-call.xsd"/>
  <xsd:include schemaLocation="call-back-call-related.xsd"/>
  <xsd:include schemaLocation="call-back-message-call-related.xsd"/>
  <xsd:include schemaLocation="camp-on-call.xsd"/>
  <xsd:include schemaLocation="clear-call.xsd"/>
  <xsd:include schemaLocation="clear-connection.xsd"/>
```

```
<xsd:include schemaLocation="conference-call.xsd"/>
<xsd:include schemaLocation="consultation-call.xsd"/>
<xsd:include schemaLocation="deflect-call.xsd"/>
<xsd:include schemaLocation="dial-digits.xsd"/>
<xsd:include schemaLocation="directed-pickup-call.xsd"/>
<xsd:include schemaLocation="group-pickup-call.xsd"/>
<xsd:include schemaLocation="hold-call.xsd"/>
<xsd:include schemaLocation="intrude-call.xsd"/>
<xsd:include schemaLocation="join-call.xsd"/>
<xsd:include schemaLocation="make-call.xsd"/>
<xsd:include schemaLocation="make-predictive-call.xsd"/>
<xsd:include schemaLocation="park-call.xsd"/>
<xsd:include schemaLocation="reconnect-call.xsd"/>
<xsd:include schemaLocation="retrieve-call.xsd"/>
<xsd:include schemaLocation="send-message.xsd"/>
<xsd:include schemaLocation="single-step-conference-call.xsd"/>
<xsd:include schemaLocation="single-step-transfer.xsd"/>
<xsd:include schemaLocation="transfer-call.xsd"/>

<xsd:annotation>
  <xsd:documentation>Call Control Events</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="bridged-event.xsd"/>
<xsd:include schemaLocation="call-cleared-event.xsd"/>
<xsd:include schemaLocation="conferenced-event.xsd"/>
<xsd:include schemaLocation="connection-cleared-event.xsd"/>
<xsd:include schemaLocation="delivered-event.xsd"/>
<xsd:include schemaLocation="digits-dialed-event.xsd"/>
<xsd:include schemaLocation="diverted-event.xsd"/>
<xsd:include schemaLocation="failed-event.xsd"/>
<xsd:include schemaLocation="established-event.xsd"/>
<xsd:include schemaLocation="held-event.xsd"/>
<xsd:include schemaLocation="network-capabilities-changed-event.xsd"/>
<xsd:include schemaLocation="network-reached-event.xsd"/>
<xsd:include schemaLocation="offered-event.xsd"/>
<xsd:include schemaLocation="originated-event.xsd"/>
<xsd:include schemaLocation="queued-event.xsd"/>
<xsd:include schemaLocation="retrieved-event.xsd"/>
<xsd:include schemaLocation="service-initiated-event.xsd"/>
<xsd:include schemaLocation="transfered-event.xsd"/>

<xsd:annotation>
  <xsd:documentation>Call Associated Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="associate-data.xsd"/>
<xsd:include schemaLocation="cancel-telephony-tones.xsd"/>
<xsd:include schemaLocation="change-connection-information.xsd"/>
<xsd:include schemaLocation="generate-digits.xsd"/>
<xsd:include schemaLocation="generate-telephony-tones.xsd"/>
<xsd:include schemaLocation="send-user-information.xsd"/>

<xsd:annotation>
  <xsd:documentation>Call Associated Events</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="call-information-event.xsd"/>
<xsd:include schemaLocation="charging-event.xsd"/>
<xsd:include schemaLocation="digits-generated-event.xsd"/>
<xsd:include schemaLocation="telephony-tones-generated-event.xsd"/>
<xsd:include schemaLocation="service-completion-failure-event.xsd"/>

<xsd:annotation>
  <xsd:documentation>Media Attachment Services</xsd:documentation>
</xsd:annotation>
```

```
<xsd:include schemaLocation="attach-media-service.xsd"/>
<xsd:include schemaLocation="detach-media-service.xsd"/>

<xsd:annotation>
  <xsd:documentation>Media Attachment Events</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="media-attached-event.xsd"/>
<xsd:include schemaLocation="media-detached-event.xsd"/>

<xsd:annotation>
  <xsd:documentation>Routeing Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="route-register.xsd"/>
<xsd:include schemaLocation="route-register-abort.xsd"/>
<xsd:include schemaLocation="route-register-cancel.xsd"/>
<xsd:include schemaLocation="re-route.xsd"/>
<xsd:include schemaLocation="route-end.xsd"/>
<xsd:include schemaLocation="route-reject.xsd"/>
<xsd:include schemaLocation="route-request.xsd"/>
<xsd:include schemaLocation="route-select.xsd"/>
<xsd:include schemaLocation="route-used.xsd"/>

<xsd:annotation>
  <xsd:documentation>Physical Device Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="button-press.xsd"/>
<xsd:include schemaLocation="get-auditory-apparatus-information.xsd"/>
<xsd:include schemaLocation="get-button-information.xsd"/>
<xsd:include schemaLocation="get-display.xsd"/>
<xsd:include schemaLocation="get-hookswitch-status.xsd"/>
<xsd:include schemaLocation="get-lamp-information.xsd"/>
<xsd:include schemaLocation="get-lamp-mode.xsd"/>
<xsd:include schemaLocation="get-message-waiting-indicator.xsd"/>
<xsd:include schemaLocation="get-microphone-gain.xsd"/>
<xsd:include schemaLocation="get-microphone-mute.xsd"/>
<xsd:include schemaLocation="get-ringer-status.xsd"/>
<xsd:include schemaLocation="get-speaker-mute.xsd"/>
<xsd:include schemaLocation="get-speaker-volume.xsd"/>
<xsd:include schemaLocation="set-button-information.xsd"/>
<xsd:include schemaLocation="set-display.xsd"/>
<xsd:include schemaLocation="set-hookswitch-status.xsd"/>
<xsd:include schemaLocation="set-lamp-mode.xsd"/>
<xsd:include schemaLocation="set-message-waiting-indicator.xsd"/>
<xsd:include schemaLocation="set-microphone-gain.xsd"/>
<xsd:include schemaLocation="set-microphone-mute.xsd"/>
<xsd:include schemaLocation="set-ringer-status.xsd"/>
<xsd:include schemaLocation="set-speaker-mute.xsd"/>
<xsd:include schemaLocation="set-speaker-volume.xsd"/>

<xsd:annotation>
  <xsd:documentation>Physical Device Events</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="button-information-event.xsd"/>
<xsd:include schemaLocation="button-press-event.xsd"/>
<xsd:include schemaLocation="display-updated-event.xsd"/>
<xsd:include schemaLocation="hookswitch-event.xsd"/>
<xsd:include schemaLocation="lamp-mode-event.xsd"/>
<xsd:include schemaLocation="message-waiting-event.xsd"/>
<xsd:include schemaLocation="microphone-gain-event.xsd"/>
<xsd:include schemaLocation="microphone-mute-event.xsd"/>
<xsd:include schemaLocation="ringer-status-event.xsd"/>
<xsd:include schemaLocation="speaker-mute-event.xsd"/>
<xsd:include schemaLocation="speaker-volume-event.xsd"/>
```

```
<xsd:annotation>
  <xsd:documentation>Logical Device Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="call-back-non-call-related.xsd"/>
<xsd:include schemaLocation="call-back-message-non-call-related.xsd"/>
<xsd:include schemaLocation="cancel-call-back.xsd"/>
<xsd:include schemaLocation="cancel-call-back-message.xsd"/>
<xsd:include schemaLocation="get-agent-state.xsd"/>
<xsd:include schemaLocation="get-auto-answer.xsd"/>
<xsd:include schemaLocation="get-auto-work-mode.xsd"/>
<xsd:include schemaLocation="get-caller-id-status.xsd"/>
<xsd:include schemaLocation="get-do-not-disturb.xsd"/>
<xsd:include schemaLocation="get-forwarding.xsd"/>
<xsd:include schemaLocation="get-last-number-dialed.xsd"/>
<xsd:include schemaLocation="get-routeing-mode.xsd"/>
<xsd:include schemaLocation="set-agent-state.xsd"/>
<xsd:include schemaLocation="set-auto-answer.xsd"/>
<xsd:include schemaLocation="set-auto-work-mode.xsd"/>
<xsd:include schemaLocation="set-caller-id-status.xsd"/>
<xsd:include schemaLocation="set-do-not-disturb.xsd"/>
<xsd:include schemaLocation="set-forwarding.xsd"/>
<xsd:include schemaLocation="set-routeing-mode.xsd"/>

<xsd:annotation>
  <xsd:documentation>Logical Device Events</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="agent-busy-event.xsd"/>
<xsd:include schemaLocation="agent-logged-off-event.xsd"/>
<xsd:include schemaLocation="agent-logged-on-event.xsd"/>
<xsd:include schemaLocation="agent-not-ready-event.xsd"/>
<xsd:include schemaLocation="agent-ready-event.xsd"/>
<xsd:include schemaLocation="agent-working-after-call-event.xsd"/>
<xsd:include schemaLocation="auto-answer-event.xsd"/>
<xsd:include schemaLocation="auto-work-mode-event.xsd"/>
<xsd:include schemaLocation="call-back-event.xsd"/>
<xsd:include schemaLocation="call-back-message-event.xsd"/>
<xsd:include schemaLocation="caller-id-status-event.xsd"/>
<xsd:include schemaLocation="do-not-disturb-event.xsd"/>
<xsd:include schemaLocation="forwarding-event.xsd"/>
<xsd:include schemaLocation="routeing-event.xsd"/>

<xsd:annotation>
  <xsd:documentation>Device Maintenance Events</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="back-in-service-event.xsd"/>
<xsd:include schemaLocation="device-capabilities-changed-event.xsd"/>
<xsd:include schemaLocation="out-of-service-event.xsd"/>
<xsd:include schemaLocation="partially-in-service-event.xsd"/>

<xsd:annotation>
  <xsd:documentation>I/O Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="io-register.xsd"/>
<xsd:include schemaLocation="io-register-abort.xsd"/>
<xsd:include schemaLocation="io-register-cancel.xsd"/>
<xsd:include schemaLocation="data-path-resumed.xsd"/>
<xsd:include schemaLocation="data-path-suspended.xsd"/>
<xsd:include schemaLocation="fast-data.xsd"/>
<xsd:include schemaLocation="resume-data-path.xsd"/>
<xsd:include schemaLocation="send-broadcast-data.xsd"/>
<xsd:include schemaLocation="send-data.xsd"/>
<xsd:include schemaLocation="send-multicast-data.xsd"/>
```

```
<xsd:include schemaLocation="start-data-path.xsd"/>
<xsd:include schemaLocation="stop-data-path.xsd"/>
<xsd:include schemaLocation="suspend-data-path.xsd"/>

<xsd:annotation>
  <xsd:documentation>Data Collection Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="data-collected.xsd"/>
<xsd:include schemaLocation="data-collection-resumed.xsd"/>
<xsd:include schemaLocation="data-collection-suspended.xsd"/>
<xsd:include schemaLocation="resume-data-collection.xsd"/>
<xsd:include schemaLocation="start-data-collection.xsd"/>
<xsd:include schemaLocation="stop-data-collection.xsd"/>
<xsd:include schemaLocation="suspend-data-collection.xsd"/>

<xsd:annotation>
  <xsd:documentation>Voice Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="activate.xsd"/>
<xsd:include schemaLocation="clear.xsd"/>
<xsd:include schemaLocation="concatenate-message.xsd"/>
<xsd:include schemaLocation="deactivate.xsd"/>
<xsd:include schemaLocation="delete-message.xsd"/>
<xsd:include schemaLocation="play-message.xsd"/>
<xsd:include schemaLocation="query-voice-attribute.xsd"/>
<xsd:include schemaLocation="queue-service.xsd"/>
<xsd:include schemaLocation="record-message.xsd"/>
<xsd:include schemaLocation="reposition.xsd"/>
<xsd:include schemaLocation="resume.xsd"/>
<xsd:include schemaLocation="review.xsd"/>
<xsd:include schemaLocation="set-voice-attribute.xsd"/>
<xsd:include schemaLocation="start.xsd"/>
<xsd:include schemaLocation="stop.xsd"/>
<xsd:include schemaLocation="suspend.xsd"/>
<xsd:include schemaLocation="synthesize-message.xsd"/>

<xsd:annotation>
  <xsd:documentation>Voice Events</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="bookmark-reached-event.xsd"/>
<xsd:include schemaLocation="completed-event.xsd"/>
<xsd:include schemaLocation="dtmf-detected-event.xsd"/>
<xsd:include schemaLocation="emptied-event.xsd"/>
<xsd:include schemaLocation="interruption-detected-event.xsd"/>
<xsd:include schemaLocation="not-recognized-event.xsd"/>
<xsd:include schemaLocation="play-event.xsd"/>
<xsd:include schemaLocation="recognized-event.xsd"/>
<xsd:include schemaLocation="record-event.xsd"/>
<xsd:include schemaLocation="review-event.xsd"/>
<xsd:include schemaLocation="silence-timeout-expired-event.xsd"/>
<xsd:include schemaLocation="speech-detected-event.xsd"/>
<xsd:include schemaLocation="started-event.xsd"/>
<xsd:include schemaLocation="stop-event.xsd"/>
<xsd:include schemaLocation="suspend-play-event.xsd"/>
<xsd:include schemaLocation="suspend-record-event.xsd"/>
<xsd:include schemaLocation="voice-attribute-changed-event.xsd"/>
<xsd:include schemaLocation="voice-error-occurred-event.xsd"/>

<xsd:annotation>
  <xsd:documentation>Call Detail Record Services</xsd:documentation>
</xsd:annotation>

<xsd:include schemaLocation="call-detail-records-notification.xsd"/>
<xsd:include schemaLocation="call-detail-records-report.xsd"/>
```

```
  <xsd:include schemaLocation="send-stored-call-detail-records.xsd"/>
  <xsd:include schemaLocation="start-call-detail-records-transmission.xsd"/>
  <xsd:include schemaLocation="stop-call-detail-records-transmission.xsd"/>

  <xsd:annotation>
    <xsd:documentation>Vendor Specific Extensions Services</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="escape-register.xsd"/>
  <xsd:include schemaLocation="escape-register-abort.xsd"/>
  <xsd:include schemaLocation="escape-register-cancel.xsd"/>
  <xsd:include schemaLocation="escape.xsd"/>
  <xsd:include schemaLocation="private-data-version-selection.xsd"/>

  <xsd:annotation>
    <xsd:documentation>Vendor Specific Extensions Events</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="private-event.xsd"/>

</xsd:schema>
```

11 Capability exchange services

11.1 Services

11.1.1 Get csta features

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-csta-features</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="GetCSTAFeatures">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetCSTAFeaturesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="supportedServices">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="capExchangeServList" type="csta:CapExchangeServList" minOccurs="0"/>
              <xsd:element name="systemStatServList" type="csta:SystemStatusServList" minOccurs="0"/>
              <xsd:element name="monitoringServList" type="csta:MonitoringServList" minOccurs="0"/>
              <xsd:element name="snapshotServList" type="csta:SnapshotServList" minOccurs="0"/>
              <xsd:element name="callControlServList" type="csta:CallControlServList" minOccurs="0"/>
              <xsd:element name="callAssociatedServList" type="csta:CallAssociatedServList"
                                minOccurs="0"/>
              <xsd:element name="mediaServList" type="csta:MediaServList" minOccurs="0"/>
              <xsd:element name="routeingServList" type="csta:RouteingServList" minOccurs="0"/>
              <xsd:element name="physDevServList" type="csta:PhysDevServList" minOccurs="0"/>
              <xsd:element name="logicalServList" type="csta:LogicalServList" minOccurs="0"/>
              <xsd:element name="iOServicesServList" type="csta:IOServicesServList" minOccurs="0"/>
              <xsd:element name="dataCollectionServList" type="csta:DataCollectionServList"
                                minOccurs="0"/>
              <xsd:element name="voiceUnitServList" type="csta:VoiceUnitServList" minOccurs="0"/>
              <xsd:element name="cDRServList" type="csta:CDRServList" minOccurs="0"/>
              <xsd:element name="vendorSpecificServList" type="csta:VendorSpecificServList"
                                minOccurs="0"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="supportedEvents" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="callControlEvtsList" type="csta:CallControlEvtsList" minOccurs="0"/>
              <xsd:element name="callAssociatedEvtsList" type="csta:CallAssociatedEvtsList"
                                minOccurs="0"/>
              <xsd:element name="mediaEvtsList" type="csta:MediaEvtsList" minOccurs="0"/>
              <xsd:element name="physDevEvtsList" type="csta:PhysDevEvtsList" minOccurs="0"/>
              <xsd:element name="logicalEvtsList" type="csta:LogicalEvtsList" minOccurs="0"/>
              <xsd:element name="deviceMaintEvtsList" type="csta:DeviceMaintEvtsList" minOccurs="0"/>
              <xsd:element name="voiceUnitEvtsList" type="csta:VoiceUnitEvtsList" minOccurs="0"/>
              <xsd:element name="vendorSpecificEvtsList" type="csta:VendorSpecificEvtsList"
```

```
                                    minOccurs="0"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
</xsd:schema>
```

11.1.2 Get logical device information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-logical-device-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>
  <xsd:include schemaLocation="data-call-types.xsd"/>

  <xsd:element name="GetLogicalDeviceInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLogicalDeviceInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="deviceCategory" type="csta:DeviceCategory" default="station"
        minOccurs="0"/>
        <xsd:element name="groupDeviceAttributes" type="csta:GroupDeviceAttributes" minOccurs="0"/>
        <xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
        <xsd:element name="shortFormDeviceID" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="hasPhysicalElement" type="xsd:boolean"/>
        <xsd:element name="acdModels" type="csta:ACDModels"/>
        <xsd:element name="agentLogOnModels" type="csta:AgentLogOnModels" minOccurs="0"/>
        <xsd:element name="appearanceAddressable" type="xsd:boolean"/>
        <xsd:element name="appearanceType" type="csta:AppearanceType"/>
        <xsd:element name="appearanceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="appearance" type="xsd:string" minOccurs="0" maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="otherPhysicalDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="miscMonitorCaps" type="csta:MiscMonitorCaps" minOccurs="0"/>
        <xsd:element name="associatedGroupList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="maxCallbacks" type="xsd:long" minOccurs="0"/>
        <xsd:element name="maxAutoAnswerRings" type="xsd:long" minOccurs="0"/>
```

```
      <xsd:element name="maxActiveCalls" type="xsd:long" minOccurs="0"/>
      <xsd:element name="maxHeldCalls" type="xsd:long" minOccurs="0"/>
      <xsd:element name="maxFwdSettings" type="xsd:long" minOccurs="0"/>
      <xsd:element name="maxDevicesInConf" type="xsd:long" minOccurs="0"/>
      <xsd:element name="transAndConfSetup" type="csta:TransAndConfSetup" minOccurs="0"/>
      <xsd:element name="deviceOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
      <xsd:element name="deviceOnConnectionMonitorFilter" type="csta:MonitorFilter"
      minOccurs="0"/>
      <xsd:element name="callOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
      <xsd:element name="callOnConnectionMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
      <xsd:element name="mediaClassSupport" type="csta:MonitorMediaClass" minOccurs="0"/>
      <xsd:element name="mediaServiceCapsList" type="csta:MediaServiceCapsList" minOccurs="0"/>
      <xsd:element name="connectionRateList" type="csta:ConnectionRateList" minOccurs="0"/>
      <xsd:element name="delayToleranceList" type="csta:DelayToleranceList" minOccurs="0"/>
      <xsd:element name="numberOfChannels" type="csta:NumberOfChannels" minOccurs="0"/>
      <xsd:element name="maxChannelBind" type="csta:MaxChannelBind" minOccurs="0"/>
      <xsd:element name="routeingServList" type="csta:RouteingServList" minOccurs="0"/>
      <xsd:element name="logDevServList" type="csta:LogDevServList" minOccurs="0"/>
      <xsd:element name="logDevEvtsList" type="csta:LogDevEvtsList" minOccurs="0"/>
      <xsd:element name="deviceMaintEvtsList" type="csta:DeviceMaintEvtsList" minOccurs="0"/>
      <xsd:element ref="csta:extensions" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
 </xsd:element>

</xsd:schema>
```

11.1.3 Get physical device information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-physical-device-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="GetPhysicalDeviceInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetPhysicalDeviceInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="deviceCategory" type="csta:DeviceCategory" default="station"/>
        <xsd:element name="groupDeviceAttributes" type="csta:GroupDeviceAttributes" minOccurs="0"/>
        <xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
        <xsd:element name="hasLogicalElement" type="xsd:boolean"/>
        <xsd:element name="otherLogicalDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="deviceModelName" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="deviceOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="deviceOnConnectionMonitorFilter" type="csta:MonitorFilter"
        minOccurs="0"/>
        <xsd:element name="callOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="callOnConnectionMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="maxDisplays" type="xsd:long" minOccurs="0"/>
        <xsd:element name="maxButtons" type="xsd:long" minOccurs="0"/>
        <xsd:element name="maxLamps" type="xsd:long" minOccurs="0"/>
        <xsd:element name="maxRingPatterns" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physDevServList" type="csta:PhysDevServList" minOccurs="0"/>
        <xsd:element name="physDevEvtsList" type="csta:PhysDevEvtsList" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

11.1.4 Get switching function capabilities

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-switching-function-capabilities</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="security.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>
  <xsd:include schemaLocation="data-call-types.xsd"/>

  <xsd:element name="GetSwitchingFunctionCaps">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetSwitchingFunctionCapsResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="switchingSubDomainName">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="manufacturerName">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="profiles" type="csta:Profiles"/>
        <xsd:element name="deviceIDFormat" type="csta:DeviceIDFormat"/>
        <xsd:element name="swDomainFeatures" type="csta:SwDomainFeatures"/>
        <xsd:element name="swAppearanceAddressability" type="csta:SwAppearanceAddressability"/>
        <xsd:element name="swAppearanceTypes" type="csta:SwAppearanceTypes"/>
        <xsd:element name="ignoreUnsupportedParameters" type="csta:IgnoreUnsupportedParameters"/>
        <xsd:element name="callCharacteristicsSupported" type="csta:CallCharacteristics"
        minOccurs="0"/>
        <xsd:element name="mediaClassSupport" type="csta:MonitorMediaClass" minOccurs="0"/>
        <xsd:element name="numberOfChannels" type="csta:NumberOfChannels" minOccurs="0"/>
        <xsd:element name="maxChannelBind" type="csta:MaxChannelBind" minOccurs="0"/>
        <xsd:element name="miscMediaCallCharacteristics" type="csta:MiscMediaCallCharacteristics"
        minOccurs="0"/>
        <xsd:element name="connectionRateList" type="csta:ConnectionRateList" minOccurs="0"/>
        <xsd:element name="delayToleranceList" type="csta:DelayToleranceList" minOccurs="0"/>
        <xsd:element name="pauseTime" type="csta:PauseTime" minOccurs="0"/>
        <xsd:element name="currentTime" type="csta:TimeInfo" minOccurs="0"/>
        <xsd:element name="messageSeqNumbers" type="csta:MessageSeqNumbers" minOccurs="0"/>
        <xsd:element name="timeStampMode" type="csta:TimeStampMode" minOccurs="0"/>
        <xsd:element name="securityMode" type="csta:SecurityMode" minOccurs="0"/>
        <xsd:element name="securityFormat" type="csta:SecurityFormat" minOccurs="0"/>
        <xsd:element name="privateDataFormat" type="csta:SecurityFormat" minOccurs="0"/>
```

```
      <xsd:element name="transAndConfSetup" type="csta:TransAndConfSetup" minOccurs="0"/>
      <xsd:element name="monitorFilterItems" type="csta:MonitorFilterItems" minOccurs="0"/>
      <xsd:element name="miscMonitorCaps" type="csta:MiscMonitorCaps" minOccurs="0"/>
      <xsd:element name="correlatorDataSupported" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="dynamicFeatureSupported" type="csta:DynamicFeatureSupported"
      minOccurs="0"/>
      <xsd:element name="callLinkageOptions" type="csta:CallLinkageOptions" minOccurs="0"/>
      <xsd:element name="aCDModels" type="csta:ACDModels" minOccurs="0"/>
      <xsd:element name="agentLogOnModels" type="csta:AgentLogOnModels" minOccurs="0"/>
      <xsd:element name="agentStateModels" type="csta:AgentStateModels" minOccurs="0"/>
      <xsd:element name="connectionView" type="csta:ConnectionView"/>
      <xsd:element name="maxLengthParameters" type="csta:MaxLengthParameters"/>
      <xsd:element name="maxLengthParametersContinued" type="csta:MaxLengthParametersContinued"
            minOccurs="0"/>
      <xsd:element name="servEvtsList" type="csta:ServEvtsList" minOccurs="0"/>
      <xsd:element name="privateDataVersionList" type="csta:PrivateDataVersionList"
      minOccurs="0"/>
      <xsd:element name="systemStatusTimer" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:long">
            <xsd:minInclusive value="0"/>
            <xsd:maxInclusive value="180"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="simpleThreshold" type="xsd:long" minOccurs="0"/>
      <xsd:element name="filterThreshold" type="csta:FilterThreshold" minOccurs="0"/>
      <xsd:element name="mediaServiceCapsList" type="csta:MediaServiceCapsList" minOccurs="0"/>
      <xsd:element name="MaxDeviceHistoryEntries" type="xsh:short" minOccurs="0"/>
      <xsd:element name="extensions" type="csta:CSTACommonArguments" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
<xsd:complexType name="MonitorFilterItems">
  <xsd:sequence>
    <xsd:element name="deviceOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
    <xsd:element name="deviceOnConnectionMonitorFilter" type="csta:MonitorFilter"
    minOccurs="0"/>
    <xsd:element name="callOnDeviceMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
    <xsd:element name="callOnConnectionMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="MessageSeqNumbers">
  <xsd:sequence>
    <xsd:element name="allEvents" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allAcks" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="allServReqs" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="SecurityMode">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="allEvents"/>
    <xsd:enumeration value="allAcks"/>
    <xsd:enumeration value="allServReqs"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="SecurityFormat">
  <xsd:sequence>
    <xsd:element name="octetStringFromSF" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherTypeFromSF" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="octetStringToSF" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="otherTypeToSF" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="Profiles">
  <xsd:sequence>
    <xsd:element name="basicTelephonyProfile" type="xsd:boolean" minOccurs="0"/>
```

```
    <xsd:element name="routeingProfile" type="xsd:boolean" minOccurs="0"/
    <xsd:element name="l1aVoiceBrowserProfile" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="l1bVoiceBrowserProfile" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="l2VoiceBrowserProfile" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="minimalEndpointCallControlProfile" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="basicEndpointCallControlProfile" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="advancedEndpointCallControlProfile" type="xsd:boolean" minOccurs="0"/>
   <xsd:element name="conferencingEndpointCallControlProfile" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="basicEndpointDeviceProfile" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="advancedEndpointDeviceProfile" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="DynamicFeatureSupported">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="none"/>
    <xsd:enumeration value="all"/>
    <xsd:enumeration value="some"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="CallLinkageOptions">
  <xsd:sequence>
    <xsd:element name="callLinkageFeatureSupported" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="threadLinkageFeatureSupported" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="AgentStateModels">
  <xsd:sequence>
    <xsd:element name="multiState" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="multiStateSemiIndependentLinked" type="xsd:boolean" minOccurs="0"/>
    <xsd:element name="agentOriented" type="xsd:boolean" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="ConnectionView">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="fixed"/>
    <xsd:enumeration value="local"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:complexType name="ServEvtsList">
  <xsd:sequence>
    <xsd:element name="capExchangeServList" type="csta:CapExchangeServList" minOccurs="0"/>
    <xsd:element name="systemServList" type="csta:SystemStatusServList" minOccurs="0"/>
    <xsd:element name="monitoringServList" type="csta:MonitoringServList" minOccurs="0"/>
    <xsd:element name="snapshotServList" type="csta:SnapshotServList" minOccurs="0"/>
    <xsd:element name="callControlServList" type="csta:CallControlServList" minOccurs="0"/>
    <xsd:element name="callControlEvtsList" type="csta:CallControlEvtsList" minOccurs="0"/>
    <xsd:element name="callAssociatedServList" type="csta:CallAssociatedServList"
    minOccurs="0"/>
    <xsd:element name="callAssociatedEvtsList" type="csta:CallAssociatedEvtsList"
    minOccurs="0"/>
    <xsd:element name="mediaServList" type="csta:MediaServList" minOccurs="0"/>
    <xsd:element name="mediaEvtsList" type="csta:MediaEvtsList" minOccurs="0"/>
    <xsd:element name="routeingServList" type="csta:RouteingServList" minOccurs="0"/>
    <xsd:element name="physDevServList" type="csta:PhysDevServList" minOccurs="0"/>
    <xsd:element name="physDevEvtsList" type="csta:PhysDevEvtsList" minOccurs="0"/>
    <xsd:element name="logicalServList" type="csta:LogicalServList" minOccurs="0"/>
    <xsd:element name="logicalEvtsList" type="csta:LogicalEvtsList" minOccurs="0"/>
    <xsd:element name="deviceMaintEvtsList" type="csta:DeviceMaintEvtsList" minOccurs="0"/>
    <xsd:element name="iOServicesServList" type="csta:IOServicesServList" minOccurs="0"/>
    <xsd:element name="dataCollectionServList" type="csta:DataCollectionServList"
    minOccurs="0"/>
    <xsd:element name="voiceUnitServList" type="csta:VoiceUnitServList" minOccurs="0"/>
    <xsd:element name="voiceUnitEvtsList" type="csta:VoiceUnitEvtsList" minOccurs="0"/>
    <xsd:element name="cdrServList" type="csta:CDRServList" minOccurs="0"/>
    <xsd:element name="vendorSpecificServList" type="csta:VendorSpecificServList"
    minOccurs="0"/>
    <xsd:element name="vendorSpecificEvtsList" type="csta:VendorSpecificEvtsList"
```

```
      minOccurs="0"/>
      <xsd:element name="statusReportingServList" type="csta:StatusReportingServList"
      minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="StatusReportingServList">
    <xsd:sequence>
      <xsd:element name="monitoringServices" type="csta:MonitoringServList" minOccurs="0"/>
      <xsd:element name="snapshotServices" type="csta:SnapshotServList" minOccurs="0"/>
      <xsd:element name="systemServices" type="csta:SystemStatusServList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="MiscMediaCallCharacteristics">
    <xsd:sequence>
      <xsd:element name="supportAdjustment" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="PrivateDataVersionList">
    <xsd:sequence>
      <xsd:element name="privateDataVersion" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

11.1.5 Get switching function devices

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-switching-function-devices</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="GetSwitchingFunctionDevices">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="requestedDeviceID" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="requestedDeviceCategory" type="csta:ReqDeviceCategory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetSwitchingFunctionDevicesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="ReqDeviceCategory">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="acd"/>
      <xsd:enumeration value="groupACD"/>
      <xsd:enumeration value="groupHunt"/>
      <xsd:enumeration value="groupPick"/>
      <xsd:enumeration value="groupUser"/>
      <xsd:enumeration value="groupOther"/>
      <xsd:enumeration value="networkInterface"/>
      <xsd:enumeration value="park"/>
      <xsd:enumeration value="routeingDevice"/>
      <xsd:enumeration value="station"/>
      <xsd:enumeration value="voiceUnit"/>
      <xsd:enumeration value="genericIV"/>
      <xsd:enumeration value="listenerIV"/>
      <xsd:enumeration value="dtmfIV"/>
      <xsd:enumeration value="promptIV"/>
      <xsd:enumeration value="promptQueue"/>
      <xsd:enumeration value="messageIV"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

11.1.6 Switching function devices

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-function-devices</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SwitchingFunctionDevices">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element name="segmentID" type="xsd:long" minOccurs="0"/>
        <xsd:element name="lastSegment" type="xsd:boolean"/>
        <xsd:element name="deviceList" type="csta:DeviceList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DeviceList">
    <xsd:sequence>
      <xsd:element name="device" minOccurs="0" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="deviceID" type="csta:DeviceID"/>
            <xsd:element name="deviceCategory" type="csta:DeviceCategory" default="station"
            minOccurs="0"/>
            <xsd:element name="namedDeviceTypes" type="csta:NamedDeviceTypes" minOccurs="0"/>
            <xsd:element name="deviceAttributes" type="csta:DeviceAttributes" minOccurs="0"/>
            <xsd:element name="deviceModelName" minOccurs="0">
              <xsd:simpleType>
                <xsd:restriction base="xsd:string">
                  <xsd:minLength value="0"/>
                </xsd:restriction>
              </xsd:simpleType>
            </xsd:element>
            <xsd:element name="nidGroup" type="csta:DeviceID" minOccurs="0"/>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DeviceAttributes">
    <xsd:sequence>
      <xsd:element name="mediaAccessDevice" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="routeingDevice" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupACD" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupHunt" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupPick" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="groupUser" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

12 System services

12.1 Registration services

12.1.1 Change system status filter

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-change-system-status-filter</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ChangeSysStatFilter">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element name="requestedStatusFilter" type="csta:StatusFilterList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ChangeSysStatFilterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="actualStatusFilter" type="csta:StatusFilterList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

<xsd:complexType name="StatusFilterList">
    <xsd:sequence>
      <xsd:element name="initializing" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="enabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="normal" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="messageLost" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="disabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="partiallyDisabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadImminent" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadReached" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadRelieved" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

12.1.2 System register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemRegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="requestTypes" type="csta:RequestTypes"/>
        <xsd:element name="requestedStatusFilter" type="csta:StatusFilter" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SystemRegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element name="actualStatusFilter" type="csta:StatusFilter" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="StatusFilter">
    <xsd:sequence>
      <xsd:element name="initializing" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="enabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="normal" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="messageLost" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="disabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="partiallyDisabled" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadImminent" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadReached" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="overloadRelieved" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="RequestTypes">
    <xsd:sequence>
      <xsd:element name="systemStatus" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="requestSystemStatus" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="switchingFunctionCapsChanged" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="switchingFunctionDevicesChanged" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

12.1.3 System register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemRegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

12.1.4 System register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemRegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SystemRegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2 Services

12.2.1 Request system status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-request-system-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RequestSystemStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RequestSystemStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="systemStatus" type="csta:SystemStatusValue"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2.2 System status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-system-statusl</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SystemStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element name="systemStatus" type="csta:SystemStatusValue"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SystemStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2.3 Switching function capabilities changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-functions-capabilities-changed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SwFunctionCapsChanged">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SwFunctionCapsChangedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

12.2.4 Switching function devices changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-switching-functions-devices-changed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SwFunctionDevicesChanged">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:sysStatRegisterID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SwFunctionDevicesChangedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

13 Monitoring services

13.1 Services

13.1.1 Change monitor filter

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-change-monitor-filter</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ChangeMonitorFilter">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="requestedFilterList" type="csta:MonitorFilter"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ChangeMonitorFilterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="actualFilterList" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

13.1.2 Monitor start

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-monitor-start</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="MonitorStart">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="monitorObject" type="csta:MonitorObject"/>
        <xsd:element name="requestedMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="monitorType" type="csta:MonitorType" minOccurs="0"/>
        <xsd:element name="requestedMonitorMediaClass" type="csta:MonitorMediaClass"
        minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MonitorStartResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="actualMonitorFilter" type="csta:MonitorFilter" minOccurs="0"/>
        <xsd:element name="actualMonitorMediaClass" type="csta:MonitorMediaClass" minOccurs="0"/>
        <xsd:element name="monitorExistingCalls" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

13.1.3 Monitor stop

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-monitor-stop</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="MonitorStop">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MonitorStopResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

14 Snapshot services

14.1 Services

14.1.1 Snapshot call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SnapshotCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="snapshotObject" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SnapshotCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="crossRefIDorSnapshotData">
          <xsd:complexType>
            <xsd:choice>
              <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
              <xsd:element name="snapshotData" type="csta:SnapshotCallDataList"/>
            </xsd:choice>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element ref="csta:calledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

14.1.2 Snapshot device

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-device</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SnapshotDevice">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="snapshotObject" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SnapshotDeviceResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="crossRefIDorSnapshotData">
          <xsd:complexType>
            <xsd:choice>
              <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
              <xsd:element name="snapshotData" type="csta:SnapshotDeviceDataList"/>
            </xsd:choice>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

14.1.3 Snapshot calldata

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-call-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SnapshotCallData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element name="segmentID" type="xsd:long" minOccurs="0"/>
        <xsd:element name="lastSegment" type="xsd:boolean"/>
        <xsd:element name="snapshotData" type="csta:SnapshotCallDataList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

14.1.4 Snapshot devicedata

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-snapshot-device-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="capability-exchange.xsd"/>

  <xsd:element name="SnapshotDeviceData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="serviceCrossRefID" type="csta:ServiceCrossRefID"/>
        <xsd:element name="segmentID" type="xsd:long" minOccurs="0"/>
        <xsd:element name="lastSegment" type="xsd:boolean"/>
        <xsd:element name="snapshotData" type="csta:SnapshotDeviceDataList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

15 Call control services and events

15.1 Services

15.1.1 Accept call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-accept-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AcceptCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeAccepted" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AcceptCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.2 Alternate call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-alternate-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:element name="AlternateCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:consultOptions" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AlternateCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.3 Answer call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-answer-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AnswerCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeAnswered" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AnswerCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.4 Call back call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:element name="CallBack">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callbackConnection" type="csta:ConnectionID"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="targetDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.5 Call back message call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-message-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callbackMessageConnection" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="targetDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.6 Camp on call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-camp-on-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CamponCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="camponConnection" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CamponCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.7 Clear call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-clear-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:element name="ClearCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeCleared" type="csta:ConnectionID"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ClearCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.8 Clear Connection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-clear-connection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ClearConnection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToBeCleared" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ClearConnectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.9 Conference call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-conference-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="ConferenceCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ConferenceCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferenceCall" type="csta:ConnectionID"/>
        <xsd:element name="connections" type="csta:ConnectionList" minOccurs="0"/>
        <xsd:element name="conferenceCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.10 Consultation call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-consultation-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="ConsultationCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="existingCall" type="csta:ConnectionID"/>
        <xsd:element name="consultedDevice" type="csta:DeviceID"/>
        <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="callingConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:consultOptions" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ConsultationCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="initiatedCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="initiatedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.11 Deflect call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-deflect-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DeflectCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeDiverted" type="csta:ConnectionID"/>
        <xsd:element name="newDestination" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DeflectCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.12 Dial digits

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-dial-digits</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DialDigits">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="diallingConnection" type="csta:ConnectionID"/>
        <xsd:element name="diallingSequence" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DialDigitsResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.13 Directed pickup call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-directed-pickup-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="DirectedPickupCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBePickedUp" type="csta:ConnectionID"/>
        <xsd:element name="requestingDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DirectedPickupCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="pickedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="pickedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.14 Group pickup call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-group-pickup-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="GroupPickupCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="newDestination" type="csta:DeviceID"/>
        <xsd:element name="pickGroup" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GroupPickupCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="pickedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="pickedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.15 Hold call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-hold-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="HoldCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeHeld" type="csta:ConnectionID"/>
        <xsd:element name="connectionReservation" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="HoldCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.16 Intrude call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-intrude-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="IntrudeCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="intrude" type="csta:ConnectionID"/>
        <xsd:element name="participationType" type="csta:ParticipationType" default="active"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="IntrudeCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferencedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="conferencedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.17 Join call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-join-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="JoinCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="joiningDevice" type="csta:DeviceID"/>
        <xsd:element name="autoOriginate" type="csta:AutoOriginate" default="prompt"/>
        <xsd:element name="participationType" type="csta:ParticipationType" default="active"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="JoinCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferencedCall" type="csta:ConnectionID"/>
        <xsd:element name="conferencedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.18 Make call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-make-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="MakeCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:DeviceID"/>
        <xsd:element name="calledDirectoryNumber" type="csta:DeviceID"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element name="autoOriginate" type="csta:AutoOriginate" default="prompt"
        minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="callingConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MakeCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:ConnectionID"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element name="initiatedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.19 Make predictive call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-make-predictive-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="MakePredictiveCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:DeviceID"/>
        <xsd:element name="calledDirectoryNumber" type="csta:DeviceID"/>
        <xsd:element name="signallingDetection" type="csta:SignallingDetection" minOccurs="0"/>
        <xsd:element name="destinationDetection" type="csta:DestinationDetection" minOccurs="0"/>
        <xsd:element name="defaultAction" type="csta:DetectionAction" minOccurs="0"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element name="autoOriginate" type="csta:AutoOriginate" default="prompt"
        minOccurs="0"/>
        <xsd:element name="alertTime" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="MakePredictiveCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="initiatedCall" type="csta:ConnectionID"/>
        <xsd:element name="initiatedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="SignallingDetection">
    <xsd:sequence>
      <xsd:element name="signallingCondition" type="csta:SignallingCondition"/>
      <xsd:element name="signallingConditionsAction" type="csta:SignallingConditionsAction"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="SignallingCondition">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="callDelivered"/>
      <xsd:enumeration value="callEstablished"/>
    </xsd:restriction>
  </xsd:simpleType>
```

```
  <xsd:simpleType name="SignallingConditionsAction">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="destinationDetection"/>
      <xsd:enumeration value="remainConnected"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="DestinationDetection">
    <xsd:sequence>
      <xsd:element name="detectionItem" type="csta:DetectionItem" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DetectionItem">
    <xsd:sequence>
      <xsd:element name="destinationCondition" type="csta:DestinationCondition"/>
      <xsd:element name="detectionAction" type="csta:DetectionAction"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="DestinationCondition">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="humanVoice"/>
      <xsd:enumeration value="answeringMachine"/>
      <xsd:enumeration value="facsimileMachine"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="DetectionAction">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="clearCalledConnection"/>
      <xsd:enumeration value="remainConnected"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

15.1.20 Park call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-park-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ParkCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="parking" type="csta:ConnectionID"/>
        <xsd:element name="parkTo" type="csta:DeviceID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ParkCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="parkedTo" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.21 Reconnect call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-reconnect-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ReconnectCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ReconnectCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.22 Retrieve call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-retrieve-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RetrieveCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeRetrieved" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RetrieveCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.23 Send Message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SendMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callingDevice" type="csta:DeviceID"/>
        <xsd:element name="destinationDevices" type="csta:DeviceListItems"/>
        <xsd:element name="messageInfo" type="csta:MessageInfo"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionList" type="csta:ConnectionListItems"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DeviceListItems">
    <xsd:sequence>
      <xsd:element name="device" type="csta:DeviceID" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="ConnectionListItems">
    <xsd:sequence>
      <xsd:element name="connection" type="csta:ConnectionID" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

15.1.24 Single step conference call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-single-step-conference-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SingleStepConferenceCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="deviceToJoin" type="csta:DeviceID"/>
        <xsd:element name="participationType" type="csta:ParticipationType" default="active"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SingleStepConferenceCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="conferencedCall" type="csta:ConnectionID"/>
        <xsd:element name="conferencedCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.25 Single step transfer call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-single-step-transfer-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="SingleStepTransferCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element name="transferredTo" type="csta:DeviceID"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:reason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SingleStepTransferCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="transferredCall" type="csta:ConnectionID"/>
        <xsd:element name="connections" type="csta:ConnectionList" minOccurs="0"/>
        <xsd:element name="transferredCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.1.26 Transfer call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-transfer-call</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="TransferCall">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="heldCall" type="csta:ConnectionID"/>
        <xsd:element name="activeCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="TransferCallResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="transferredCall" type="csta:ConnectionID"/>
        <xsd:element name="connections" type="csta:ConnectionList" minOccurs="0"/>
        <xsd:element name="transferredCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2 Events

15.2.1 Bridged

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-bridged-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="BridgedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="bridgedConnection" type="csta:ConnectionID"/>
        <xsd:element name="bridgedAppearance" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="bridgedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.2 Call cleared

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-cleared-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="CallClearedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="clearedCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.3 Conferenced

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-conferenced-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ConferencedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="primaryOldCall" type="csta:ConnectionID"/>
        <xsd:element name="secondaryOldCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="conferencingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="addedParty" type="csta:SubjectDeviceID"/>
        <xsd:element name="conferenceConnections" type="csta:ConnectionList"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="callLinkageDataList" type="csta:CallLinkageDataList" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.4 Connection cleared

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-connection-cleared-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ConnectionClearedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="droppedConnection" type="csta:ConnectionID"/>
        <xsd:element name="releasingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="chargingInfo" type="csta:ChargingInfo" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="droppedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.5 Delivered

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-delivered-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DeliveredEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="alertingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.6 Digits dialed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-digits-dialed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DigitsDialedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="dialingConnection" type="csta:ConnectionID"/>
        <xsd:element name="dialingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="dialingSequence" type="csta:DeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element name="dialingConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.7 Diverted

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-diverted-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DivertedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="divertingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="newDestination" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element ref="csta:calledDevice" minOccurs="0"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.8 Established

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-established-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="EstablishedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="establishedConnection" type="csta:ConnectionID"/>
        <xsd:element name="answeringDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="establishedConnectionInfo" type="csta:ConnectionInformation"
        minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.9 Failed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-failed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="FailedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="failedConnection" type="csta:ConnectionID"/>
        <xsd:element name="failingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="failedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.10 Held

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-held-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="HeldEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="heldConnection" type="csta:ConnectionID"/>
        <xsd:element name="holdingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="heldConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.11 Network capabilities changed

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-network-capabilities-changed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="NetworkCapabilitiesChangedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="outboundConnection" type="csta:ConnectionID"/>
        <xsd:element name="networkInterfaceUsed" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element name="progressIndicator" type="csta:ProgressIndicator"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="networkCapability" type="csta:NetworkCapability" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="outboundConnectionInfo" type="csta:ConnectionInformation"
        minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.12 Network reached

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-network-reached-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="NetworkReachedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="outboundConnection" type="csta:ConnectionID"/>
        <xsd:element name="networkInterfaceUsed" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="networkCapability" type="csta:NetworkCapability" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="outboundConnectionInfo" type="csta:ConnectionInformation"
        minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.13 Offered

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-offered-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="OfferedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="offeredConnection" type="csta:ConnectionID"/>
        <xsd:element name="offeredDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="originatingNIDConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="offeredConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.14 Originated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-originated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="OriginatedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="originatedConnection" type="csta:ConnectionID"/>
        <xsd:element name="callingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element name="originatingDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="originatedConnectionInfo" type="csta:ConnectionInformation"
        minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.15 Queued

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-queued-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="QueuedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="queuedConnection" type="csta:ConnectionID"/>
        <xsd:element name="queue" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice"/>
        <xsd:element ref="csta:calledDevice"/>
        <xsd:element ref="csta:lastRedirectionDevice"/>
        <xsd:element name="numberQueued" type="xsd:long" minOccurs="0"/>
        <xsd:element name="callsInFront" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="queuedConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.16 Retrieved

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-retrieved-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="RetrievedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="retrievedConnection" type="csta:ConnectionID"/>
        <xsd:element name="retrievingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="retrievedConnectionInfo" type="csta:ConnectionInformation"
        minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.17 Service initiated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-service-initiated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ServiceInitiatedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="initiatedConnection" type="csta:ConnectionID"/>
        <xsd:element name="initiatingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="initiatedConnectionInfo" type="csta:ConnectionInformation"
        minOccurs="0"/>
        <xsd:element ref="csta:networkCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:networkCalledDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

15.2.18 Transferred

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-transfered-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="TransferedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="primaryOldCall" type="csta:ConnectionID"/>
        <xsd:element name="secondaryOldCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="transferringDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="transferredToDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="transferredConnections" type="csta:ConnectionList"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="chargingInfo" type="csta:ChargingInfo" minOccurs="0"/>
        <xsd:element ref="csta:cause"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="callLinkageDataList" type="csta:CallLinkageDataList" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16 Call associated features

16.1 Services

16.1.1 Associate data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-associate-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="AssociateData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="existingCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:accountCode" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element name="callQualifyingData" type="csta:CallQualifyingData" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element name="deviceInfo" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AssociateDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.1.2 Cancel telephony tones

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-cancel-telephony-tones</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CancelTelephonyTones">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToStopTone" type="csta:ConnectionID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CancelTelephonyTonesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.1.3 Change connection information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-connection-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ChangeConnectionInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToBeChanged" type="csta:ConnectionID"/>
        <xsd:element name="requestedConnectionInfo" type="csta:ConnectionInformation"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ChangeConnectionInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="actualConnectionInfo" type="csta:ConnectionInformation"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.1.4 Generate digits

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-generate-digits</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GenerateDigits">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToSendDigits" type="csta:ConnectionID"/>
        <xsd:element name="digitMode" type="csta:DigitMode" minOccurs="0"/>
        <xsd:element name="charactersToSend" type="xsd:string"/>
        <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="pulseRate" type="xsd:long" minOccurs="0"/>
        <xsd:element name="pauseDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GenerateDigitsResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="DigitMode">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="rotaryPulse"/>
      <xsd:enumeration value="dTMF"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

16.1.5 Generate telephony tones

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-generate-telephony-tones</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GenerateTelephonyTones">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connectionToSendTone" type="csta:ConnectionID"/>
        <xsd:element name="toneToSend" type="csta:TelephonyTone"/>
        <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GenerateTelephonyTonesResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.1.6 Send user information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-user-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendUserInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="existingCall" type="csta:ConnectionID"/>
        <xsd:element ref="csta:userData"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendUserInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2 Events

16.2.1 Call information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-information-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="CallInformationEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element name="accountInfo" type="csta:AccountInfo" minOccurs="0"/>
        <xsd:element ref="csta:authCode" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element name="callQualifyingData" type="csta:CallQualifyingData" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element name="callLinkageDataList" type="csta:CallLinkageDataList" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element name="deviceInfo" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2.2 Charging

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-charging-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="charge-info.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ChargingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="chargedDevice" type="csta:DeviceID"/>
        <xsd:element name="chargingInfo" type="csta:ChargingInfo"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2.3 Digits generated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-digits-generated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DigitsGeneratedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="digitGeneratedList" type="xsd:string"/>
        <xsd:element name="digitDurationList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="digitDuration" type="xsd:long" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="pauseDurationList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="pauseDuration" type="xsd:long" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2.4 Telephony tones generated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-telephony-tones-generated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="TelephonyTonesGeneratedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="toneGenerated" type="csta:TelephonyTone" minOccurs="0"/>
        <xsd:element name="toneFrequency" type="xsd:long" minOccurs="0"/>
        <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="pauseDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

16.2.5 Service completion failure

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-service-completion-failure-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ServiceCompletionFailureEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="primaryCall" type="csta:PrimaryOrSecondaryCall"/>
        <xsd:element name="secondaryCall" type="csta:PrimaryOrSecondaryCall" minOccurs="0"/>
        <xsd:element name="otherDevsPrimaryCallList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="otherDevsPrimaryCall" type="csta:OtherCall" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="otherDevsSecondaryCallList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="otherDevsSecondaryCall" type="csta:OtherCall" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="PrimaryOrSecondaryCall">
    <xsd:sequence>
      <xsd:element name="deviceID" type="csta:DeviceID"/>
      <xsd:element name="connectionID" type="csta:ConnectionID"/>
      <xsd:element name="localConnectionState" type="csta:LocalConnectionState"/>
      <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
  <xsd:complexType name="OtherCall">
    <xsd:sequence>
      <xsd:element name="deviceID" type="csta:DeviceID"/>
      <xsd:element name="connectionID" type="csta:ConnectionID"/>
      <xsd:element name="localConnectionState" type="csta:LocalConnectionState" minOccurs="0"/>
      <xsd:element name="connectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>
```

17 Media attachment services and events

17.1 Services

17.1.1 Attach media service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-attach-media-service</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="AttachMediaService">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
        minOccurs="0"/>
        <xsd:element name="connectionMode" type="csta:ConnectionMode"/>
        <xsd:element name="requestedConnectionState" type="csta:LocalConnectionState"
        minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="AttachMediaServiceResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="mediaConnection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="mediaDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
        minOccurs="0"/>
        <xsd:element name="mediaConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

17.1.2 Detach media service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-detach-media-service</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="DetachMediaService">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DetachMediaServiceResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

17.2 Events

17.2.1 Media attached

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-media-attached-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MediaAttachedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="mediaConnection" type="csta:ConnectionID"/>
        <xsd:element name="mediaDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
        minOccurs="0"/>
        <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element name="mediaConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

17.2.2 Media detached

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-media-detached-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="connection-states.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MediaDetachedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="mediaConnection" type="csta:ConnectionID"/>
        <xsd:element name="mediaDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="mediaServiceType" type="csta:MediaServiceType"/>
        <xsd:element name="mediaServiceVersion" type="xsd:long" minOccurs="0"/>
        <xsd:element name="mediaServiceInstanceID" type="csta:MediaServiceInstanceID"
        minOccurs="0"/>
        <xsd:element name="mediaStreamID" type="csta:MediaStreamID" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:localConnectionInfo" minOccurs="0"/>
        <xsd:element name="mediaConnectionInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

18 Routeing services

18.1 Registration services

18.1.1 Route register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="RouteRegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="routeingDevice" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="requestedRouteingMediaClass" type="csta:MediaClass" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RouteRegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:routeRegisterReqID"/>
        <xsd:element name="actualRouteingMediaClass" type="csta:MediaClass" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

18.1.2 Route register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteRegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:routeRegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.1.3 Route register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteRegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:routeRegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RouteRegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

18.2 Services

18.2.1 Re-Route

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-re-route</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="ReRoute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="replyTimeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.2 Route end

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-end</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="error.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteEnd">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="errorValue" type="csta:ErrorValue" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.3 Route reject

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-reject</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteReject">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="rejectCause" type="csta:RejectCause" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="RejectCause">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="busyOverflow"/>
      <xsd:enumeration value="queueTimeOverflow"/>
      <xsd:enumeration value="capacityOverflow"/>
      <xsd:enumeration value="calendarOverflow"/>
      <xsd:enumeration value="unknownOverflow"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.4 Route request

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-request</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>

  <xsd:element name="RouteRequest">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="currentRoute" type="csta:CalledDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element name="routeingDevice" type="csta:SubjectDeviceID" minOccurs="0"/>
        <xsd:element name="routedCall" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element name="routeSelAlgorithm" type="csta:SelectValue" minOccurs="0"/>
        <xsd:element ref="csta:associatedCallingDevice" minOccurs="0"/>
        <xsd:element ref="csta:associatedCalledDevice" minOccurs="0"/>
        <xsd:element name="priority" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="replyTimeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:mediaCallCharacteristics" minOccurs="0"/>
        <xsd:element ref="csta:callCharacteristics" minOccurs="0"/>
        <xsd:element name="routeCallInfo" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:subjectOfCall" minOccurs="0"/>
        <xsd:element ref="csta:messageInfo" minOccurs="0"/>
        <xsd:element ref="csta:languagePreferences" minOccurs="0"/>
        <xsd:element ref="csta:deviceHistory" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.5 Route select

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-select</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteSelect">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="routeSelected" type="csta:DeviceID"/>
        <xsd:element name="alternateRoutes" type="csta:alternateRoutesRecord" minOccurs="0"/>
        <xsd:element name="remainRetries" type="csta:RetryValue" minOccurs="0"/>
        <xsd:element name="routeUsedReq" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="alternateRoutesRecord">
    <xsd:sequence>
      <xsd:element name="deviceID" type="csta:DeviceID" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

18.2.6 Route used

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-route-used</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>

  <xsd:element name="RouteUsed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:crossRefIdentifier"/>
        <xsd:element ref="csta:routeRegisterReqID" minOccurs="0"/>
        <xsd:element name="routeUsed" type="csta:CalledDeviceID"/>
        <xsd:element ref="csta:callingDevice" minOccurs="0"/>
        <xsd:element name="domain" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

19 Physical device features

19.1 Services

19.1.1 Button press

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-button-press</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="ButtonPress">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ButtonPressResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.2 Get auditory apparatus information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-auditory-apparatus-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetAuditoryApparatusInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditorityApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAuditoryApparatusInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="auditoryApparatusList" type="csta:AuditoryApparatusList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.3 Get button information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-button-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetButtonInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="button" type="csta:ButtonID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetButtonInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="buttonList" type="csta:ButtonList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="ButtonList">
    <xsd:sequence>
      <xsd:element name="buttonItem" type="csta:ButtonItem" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="ButtonItem">
    <xsd:sequence>
      <xsd:element name="button" type="csta:ButtonID"/>
      <xsd:element name="buttonLabel" type="xsd:string" minOccurs="0"/>
      <xsd:element name="buttonLabelSettable" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="buttonFunction" type="xsd:string" minOccurs="0"/>
      <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
      <xsd:element name="buttonAssociatedNumberSettable" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="buttonPressIndicator" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="lampList" type="csta:LampIDList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LampIDList">
    <xsd:sequence>
      <xsd:element name="lampID" type="csta:LampID" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.4 Get display

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-display</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetDisplay">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="display" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetDisplayResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="displayList" type="csta:DisplayList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DisplayList">
    <xsd:sequence>
      <xsd:element name="displayListItem" type="csta:DisplayListItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DisplayListItem">
    <xsd:sequence>
      <xsd:element name="displayID" type="csta:DisplayID"/>
      <xsd:element name="logicalRows" type="xsd:long"/>
      <xsd:element name="logicalColumns" type="xsd:long"/>
      <xsd:element name="physicalRows" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalColumns" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="characterSet" type="csta:CharacterSet" minOccurs="0"/>
      <xsd:element name="contentsOfDisplay" type="xsd:string"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.5 Get hookswitch status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-hookswitch-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetHookswitchStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="hookswitch" type="csta:HookswitchID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetHookswitchStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="hookswitchStatusList" type="csta:HookswitchStatusList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="HookswitchStatusList">
    <xsd:sequence>
      <xsd:element name="hookswitchStatusItem" type="csta:HookswitchStatusItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="HookswitchStatusItem">
    <xsd:sequence>
      <xsd:element name="hookswitch" type="csta:HookswitchID"/>
      <xsd:element name="hookswitchOnHook" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.6 Get lamp information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-lamp-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetLampInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="lamp" type="csta:LampID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLampInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="lampList" type="csta:LampList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="LampList">
    <xsd:sequence>
      <xsd:element name="lampItem" type="csta:LampItem" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LampItem">
    <xsd:sequence>
      <xsd:element name="lamp" type="csta:LampID"/>
      <xsd:element name="lampLabel" type="xsd:string" minOccurs="0"/>
      <xsd:element name="button" type="csta:ButtonID" minOccurs="0"/>
      <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.7 Get lamp mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-lamp-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetLampMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="lamp" type="csta:LampID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLampModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="lampModeList" type="csta:LampModeList"/>
        <xsd:element name="lamp" type="csta:LampID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="LampModeList">
    <xsd:sequence>
      <xsd:element name="lampModeItem" type="csta:LampModeItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="LampModeItem">
    <xsd:sequence>
      <xsd:element name="lamp" type="csta:LampID"/>
      <xsd:element name="lampMode" type="csta:LampMode"/>
      <xsd:element name="lampBrightness" type="csta:LampBrightness" minOccurs="0"/>
      <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
      <xsd:element name="button" type="csta:ButtonID" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.8 Get message waiting indicator

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-message-waiting-indicator</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetMessageWaitingIndicator">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetMessageWaitingIndicatorResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageWaitingOn" type="xsd:boolean"/>
        <xsd:element name="deviceForMessage" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="lampIsPresent" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.9 Get microphone gain

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-microphone-gain</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetMicrophoneGain">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetMicrophoneGainResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="microphoneGainList" type="csta:MicrophoneGainList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="MicrophoneGainList">
    <xsd:sequence>
      <xsd:element name="microphoneGainItem" type="csta:MicrophoneGainItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="MicrophoneGainItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="micGainAbs" type="csta:MicGainAbs" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.10 Get microphone mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-microphone-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetMicrophoneMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetMicrophoneMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="microphoneMuteList" type="csta:MicrophoneMuteList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="MicrophoneMuteList">
    <xsd:sequence>
      <xsd:element name="microphoneMuteItem" type="csta:MicrophoneMuteItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="MicrophoneMuteItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="microphoneMuteOn" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.11 Get ringer status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-ringer-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetRingerStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="ringer" type="csta:RingerID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetRingerStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ringerStatusList" type="csta:RingerStatusList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="RingerStatusList">
    <xsd:sequence>
      <xsd:element name="ringerStatusItem" type="csta:RingerStatusItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="RingerStatusItem">
    <xsd:sequence>
      <xsd:element name="ringer" type="csta:RingerID"/>
      <xsd:element name="ringMode" type="csta:RingMode"/>
      <xsd:element name="ringCount" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="0"/>
            <xsd:maxInclusive value="1000"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="ringDuration" type="xsd:integer" minOccurs="0"/>
      <xsd:element name="ringPattern" type="xsd:long" minOccurs="0"/>
      <xsd:element name="ringVolAbs" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="0"/>
            <xsd:maxInclusive value="100"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
```

```
</xsd:schema>
```

19.1.12 Get speaker mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-speaker-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetSpeakerMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetSpeakerMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="speakerMuteList" type="csta:SpeakerMuteList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="SpeakerMuteList">
    <xsd:sequence>
      <xsd:element name="speakerMuteItem" type="csta:SpeakerMuteItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SpeakerMuteItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="speakerMuteOn" type="xsd:boolean"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.13 Get speaker volume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-speaker-volume</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="GetSpeakerVolume">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetSpeakerVolumeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="speakerVolumeList" type="csta:SpeakerVolumeList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="SpeakerVolumeList">
    <xsd:sequence>
      <xsd:element name="speakerVolumeItem" type="csta:SpeakerVolumeItem" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="SpeakerVolumeItem">
    <xsd:sequence>
      <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
      <xsd:element name="speakerVolAbs" type="csta:VolAbs" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

19.1.14 Set button information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-button-information</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetButtonInformation">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element name="buttonLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetButtonInformationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.15 Set display

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-display</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetDisplay">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="display" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="contentsOfDisplay">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="offset" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetDisplayResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.16 Set hookswitch status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-hookswitch-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetHookswitchStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="hookswitch" type="csta:HookswitchID"/>
        <xsd:element name="hookswitchOnhook" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetHookswitchStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.17 Set lamp mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-lamp-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetLampMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="lamp" type="csta:LampID"/>
        <xsd:element name="LampMode" type="csta:LampMode"/>
        <xsd:element name="lampBrightness" type="csta:LampBrightness" minOccurs="0"/>
        <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetLampModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.18 Set message waiting indicator

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-message-waiting-indicator</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetMessageWaitingIndicator">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="messageWaitingOn" type="xsd:boolean"/>
        <xsd:element name="deviceForMessage" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetMessageWaitingIndicatorResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.19 Set microphone gain

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-microphone-gain</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetMicrophoneGain">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneGain" type="csta:MicrophoneGain"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetMicrophoneGainResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.20 Set microphone mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-microphone-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetMicrophoneMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetMicrophoneMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.21 Set ringer status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-ringer-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetRingerStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="ringer" type="csta:RingerID"/>
        <xsd:element name="ringMode" type="csta:RingMode" minOccurs="0"/>
        <xsd:element name="ringPattern" type="xsd:long" minOccurs="0"/>
        <xsd:element name="ringVolume" type="csta:Volume" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetRingerStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.22 Set speaker mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-speaker-mute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetSpeakerMute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetSpeakerMuteResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.1.23 Set speaker volume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-speaker-volume</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetSpeakerVolume">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerVolume" type="csta:Volume"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetSpeakerVolumeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2 Events

19.2.1 Button information

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-button-information-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ButtonInformationEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element name="buttonLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minlength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="buttonPressIndicator" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.2 Button press

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-button-press-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ButtonPressEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="button" type="csta:ButtonID"/>
        <xsd:element name="buttonLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="buttonAssociatedNumber" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.3 Display updated

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-display-updated-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DisplayUpdatedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="displayID" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element name="logicalRows" type="xsd:long"/>
        <xsd:element name="logicalColumns" type="xsd:long"/>
        <xsd:element name="physicalRows" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalColumns" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
        <xsd:element name="characterSet" type="csta:CharacterSet" minOccurs="0"/>
        <xsd:element name="contentsOfDisplay" type="xsd:string"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.4 Hookswitch

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-hookswitch-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="HookswitchEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="hookswitch" type="csta:HookswitchID"/>
        <xsd:element name="hookswitchOnHook" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.5 Lamp mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-lamp-mode-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="LampModeEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="lamp" type="csta:LampID"/>
        <xsd:element name="lampLabel" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="lampMode" type="csta:LampMode"/>
        <xsd:element name="lampBrightness" type="csta:LampBrightness" minOccurs="0"/>
        <xsd:element name="lampColor" type="csta:LampColor" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.6 Message waiting

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-message-waiting-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MessageWaitingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="targetDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="deviceForMessage" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="messageWaitingOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.7 Microphone gain

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-microphone-gain-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MicrophoneGainEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneGain" type="csta:MicrophoneGain"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.8 Microphone mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-microphone-mute-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="MicrophoneMuteEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="microphoneMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.9 Ringer status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-ringer-status-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="RingerStatusEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="ringer" type="csta:RingerID"/>
        <xsd:element name="ringMode" type="csta:RingMode"/>
        <xsd:element name="ringCount" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:integer">
              <xsd:minInclusive value="0"/>
              <xsd:maxInclusive value="1000"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="ringDuration" type="xsd:integer" minOccurs="0"/>
        <xsd:element name="ringPattern" type="xsd:long" minOccurs="0"/>
        <xsd:element name="ringVolume" type="csta:Volume" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.10 Speaker mute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-speaker-mute-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SpeakerMuteEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerMuteOn" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

19.2.11 Speaker volume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-speaker-volume-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SpeakerVolumeEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="auditoryApparatus" type="csta:AuditoryApparatusID"/>
        <xsd:element name="speakerVolume" type="csta:Volume"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20 Logical device features

20.1 Services

20.1.1 Call back non-call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-non-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackNonCallRelated">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackNonCallRelatedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.2 Call back message non-call-related

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-message-non-call-related</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackMessageNonCallRelated">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CallBackMessageNonCallRelatedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.3 Cancel call back

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-cancel-call-back</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CancelCallBack">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CancelCallBackResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.4 Cancel call back message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-cancel-call-back-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CancelCallBackMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="originatingDevice" type="csta:DeviceID"/>
        <xsd:element name="targetDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CancelCallBackMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.5 Get agent state

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-agent-state</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetAgentState">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAgentStateResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="agentStateList" type="csta:AgentStateList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="AgentStateList">
    <xsd:sequence>
      <xsd:element name="agentStateEntry" type="csta:AgentStateEntry" maxOccurs="32"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="AgentStateEntry">
    <xsd:sequence>
      <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
      <xsd:element name="loggedOnState" type="xsd:boolean"/>
      <xsd:element name="agentInfo" minOccurs="0">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="agentInfoItem" type="csta:AgentInfo" minOccurs="0"
            maxOccurs="unbounded"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="AgentInfo">
    <xsd:sequence>
      <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
      <xsd:element name="agentState" type="csta:AgentState"/>
      <xsd:element name="pendingAgentState" type="csta:PendingAgentState" minOccurs="0"/>
      <xsd:element name="agentStateCondition" type="csta:AgentStateCondition" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="AgentStateCondition">
```

```
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="forcedPause"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

20.1.6 Get auto answer

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-auto-answer</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetAutoAnswer">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAutoAnswerResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="autoAnswerOn" type="xsd:boolean"/>
        <xsd:element name="numberOfRings" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.7 Get auto work mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-auto-work-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetAutoWorkMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetAutoWorkModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="autoWorkOn" type="xsd:boolean"/>
        <xsd:element name="autoWorkInterval" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.8 Get call back

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-call-back</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetCallBack">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetCallBackResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callBackList" type="csta:CallBackList" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="CallBackList">
    <xsd:sequence>
      <xsd:element name="callBackListItem" type="csta:CallBackListItem" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="CallBackListItem">
    <xsd:sequence>
      <xsd:element name="originatingDevice" type="csta:DeviceID"/>
      <xsd:element name="targetDevice" type="csta:DeviceID"/>
      <xsd:element name="callBackMessageIndicator" type="xsd:boolean" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

20.1.9 Get caller id status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-caller-id-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetCallerIDStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetCallerIDStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callerIDProvided" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.10 Get do not disturb

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-do-not-disturb</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetDoNotDisturb">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetDoNotDisturbResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="doNotDisturbOn" type="xsd:boolean"/>
        <xsd:element name="callOrigination" type="csta:CallOrigination" minOccurs="0"/>
        <xsd:element name="callingDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="callingDevice" type="csta:DeviceID" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.11 Get forwarding

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-forwarding</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetForwarding">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetForwardingResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="forwardingList" type="csta:ForwardList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.12 Get last number dialed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-last-number-dialed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetLastNumberDialed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetLastNumberDialedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="numberDialed" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.13 Get routeing mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-get-routeing-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="GetRouteingMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="GetRouteingModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="routeingMode" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.14 Set agent state

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-agent-state</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetAgentState">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="requestedAgentState" type="csta:ReqAgentState"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="password" type="csta:AgentPassword" minOccurs="0"/>
        <xsd:element name="group" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetAgentStateResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="pendingAgentState" type="csta:PendingAgentState" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="ReqAgentState">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="loggedOn"/>
      <xsd:enumeration value="loggedOff"/>
      <xsd:enumeration value="notReady"/>
      <xsd:enumeration value="ready"/>
      <xsd:enumeration value="workingAfterCall"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

20.1.15 Set auto answer

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-auto-answer</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetAutoAnswer">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="autoAnswerOn" type="xsd:boolean"/>
        <xsd:element name="numberOfRings" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetAutoAnswerResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.16 Set auto work mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-auto-work-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetAutoWorkMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="autoWorkOn" type="xsd:boolean"/>
        <xsd:element name="autoWorkInterval" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetAutoWorkModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.17 Set caller id status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-caller-id-status</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetCallerIDStatus">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="callerIDProvided" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetCallerIDStatusResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.18 Set do not disturb

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-do-not-disturb</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetDoNotDisturb">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="doNotDisturbOn" type="xsd:boolean"/>
        <xsd:element name="callOrigination" type="csta:CallOrigination" minOccurs="0"/>
        <xsd:element name="callingDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="callingDevice" type="csta:DeviceID" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <xsd:element name="SetDoNotDisturbResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.19 Set forwarding

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-forwarding</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetForwarding">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="forwardingType" type="csta:ForwardingType" minOccurs="0"/>
        <xsd:element name="activateForward" type="xsd:boolean"/>
        <xsd:element name="forwardDN" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="ringCount" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:long">
              <xsd:minInclusive value="1"/>
              <xsd:maxInclusive value="100"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="ringDuration" type="xsd:integer" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetForwardingResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.1.20 Set routeing mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-routeing-mode</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SetRouteingMode">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="routeingMode" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetRouteingModeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2 Events

20.2.1 Agent busy

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-busy-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentBusyEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="pendingAgentState" type="csta:PendingAgentState" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.2 Agent logged off

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-logged-off-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentLoggedOffEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="agentPassword" type="csta:AgentPassword" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.3 Agent logged on

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-logged-on-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentLoggedOnEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="agentPassword" type="csta:AgentPassword" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.4 Agent not ready

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-not-ready-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentNotReadyEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.5 Agent ready

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-ready-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentReadyEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.6 Agent working after call

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-agent-working-after-call-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="AgentWorkingAfterCallEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="agentDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="agentID" type="csta:AgentID" minOccurs="0"/>
        <xsd:element name="acdGroup" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="pendingAgentState" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:enumeration value="notReady"/>
              <xsd:enumeration value="ready"/>
              <xsd:enumeration value="null"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.7 Auto answer

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-auto-answer-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="AutoAnswerEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="autoAnswerOn" type="xsd:boolean"/>
        <xsd:element name="numberOfRings" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.8 Auto work mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-auto-work-mode-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="AutoWorkModeEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="invokingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="autoWorkOn" type="xsd:boolean"/>
        <xsd:element name="autoWorkInterval" type="xsd:long"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.9 Call back

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="originatingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="targetDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="callBackSetCanceled" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.10 Call back message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-back-message-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="CallBackMessageEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="originatingDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="targetDevice" type="csta:SubjectDeviceID"/>
        <xsd:element name="callBackMsgSetCanceled" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.11 Caller id status

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-caller-id-status-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="CallerIDStatusEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:DeviceID"/>
        <xsd:element name="callerIDProvided" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.12 Do not disturb

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-do-not-disturb-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DoNotDisturbEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="doNotDisturbOn" type="xsd:boolean"/>
        <xsd:element name="callOrigination" type="csta:CallOrigination" minOccurs="0"/>
        <xsd:element name="callingDeviceList" minOccurs="0">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="callingDevice" type="csta:DeviceID" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.13 Forwarding

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-forwarding-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ForwardingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="forwardingType" type="csta:ForwardingType" minOccurs="0"/>
        <xsd:element name="forwardStatus" type="xsd:boolean"/>
        <xsd:element name="forwardTo" type="csta:DeviceID" minOccurs="0"/>
        <xsd:element name="forwardDefault" type="csta:ForwardDefault" minOccurs="0"/>
        <xsd:element name="ringCount" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:short">
              <xsd:minInclusive value="1"/>
              <xsd:maxInclusive value="100"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="ringDuration" type="xsd:integer" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

20.2.14 Routeing mode

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-routeing-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RouteingEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element name="routeingMode" type="xsd:boolean"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

21 Device maintenance events

21.1 Events

21.1.1 Back in service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-back-in-service-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="BackInServiceEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

21.1.2 Device capabilities changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-device-capabilities-changed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DeviceCapsChangedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

21.1.3 Out of service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-out-of-service-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="OutOfServiceEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

21.1.4 Partially In service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-partially-in-service-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="PartiallyInServiceEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="device" type="csta:SubjectDeviceID"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22 I/O services

22.1 Registration services

22.1.1 I/O register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-io-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="IORegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioDevice" type="csta:DeviceID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="IORegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.1.2 I/O register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-io-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="IORegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

22.1.3 I/O register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-io-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="IORegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="IORegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2 Services

22.2.1 Data path resumed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-path-resumed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DataPathResumed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataPathResumedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.2 Data path suspended

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-path-suspended</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DataPathSuspended">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataPathSuspendedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.3 Fast data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-fast-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="switching-function-objects.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="FastData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterReqID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element name="object" type="csta:CSTAObject"/>
        <xsd:element name="dataPathType" type="csta:DataPathType" minOccurs="0"/>
        <xsd:element name="displayAttribute" type="csta:DisplayAttribute" minOccurs="0"/>
        <xsd:element name="ioData">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="FastDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DisplayAttribute">
    <xsd:sequence>
      <xsd:element name="displayID" type="csta:DisplayID" minOccurs="0"/>
      <xsd:element name="physicalBaseRowNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="physicalBaseColumnNumber" type="xsd:long" minOccurs="0"/>
      <xsd:element name="offset" type="xsd:long" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

22.2.4 Resume data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-resume-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ResumeDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ResumeDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.5 Send broadcast data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-broadcast-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendBroadcastData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioData">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="dataPathType" type="csta:DataPathType" minOccurs="0"/>
        <xsd:element name="displayAttributes" type="csta:DisplayAttributeList" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendBroadcastDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.6 Send data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterReqID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element name="displayAttributes" type="csta:DisplayAttributeList" minOccurs="0"/>
        <xsd:element name="ioData">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="ioCause" type="csta:EventCause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.7 Send multicast data

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-multicast-data</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SendMulticastData">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefIDList">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID" minOccurs="0"
              maxOccurs="unbounded"/>
            </xsd:sequence>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="ioData" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:hexBinary">
              <xsd:minLength value="0"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="displayAttributes" type="csta:DisplayAttributeList" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendMulticastDataResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.8 Start data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-start-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="switching-function-objects.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="StartDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioRegisterReqID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element name="object" type="csta:CSTAObject"/>
        <xsd:element name="dataPathDirection" type="csta:DataPathDirection" minOccurs="0"/>
        <xsd:element name="dataPathType" type="csta:DataPathType" minOccurs="0"/>
        <xsd:element name="displayID" type="csta:DisplayID" minOccurs="0"/>
        <xsd:element name="numberOfCharactersToCollect" type="xsd:long" minOccurs="0"/>
        <xsd:element name="terminationCharacter" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:length value="1"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="timeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StartDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="numberOfCharactersToCollect" type="xsd:long" minOccurs="0"/>
        <xsd:element name="terminationCharacter" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:length value="1"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="timeout" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="DataPathDirection">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="computeFunctionToObject"/>
      <xsd:enumeration value="objectToComputeFunction"/>
      <xsd:enumeration value="bidirectional"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

22.2.9 Stop data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="StopDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

22.2.10 Suspend data path

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-data-path</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SuspendDataPath">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="ioCrossRefID" type="csta:IOCrossRefID"/>
        <xsd:element name="ioRegisterRequestID" type="csta:IORegisterReqID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SuspendDataPathResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23 Data Collection Services

23.1 Services

23.1.1 Data Collected

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collected</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="media-services.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="DataCollected">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element name="digitsData" type="csta:DigitsData" minOccurs="0"/>
        <xsd:element name="telTonesData" type="csta:TelTonesData" minOccurs="0"/>
        <xsd:element name="connectionInformation" type="csta:ConnectionInformation" minOccurs="0"/>
        <xsd:element name="dcollcause" type="csta:DcollCause" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataCollectedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="DigitsData">
    <xsd:sequence>
      <xsd:element name="digitsDetected">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:minLength value="0"/>
            <xsd:maxLength value="64"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="digitsDuration" type="csta:DigitsDurationList" minOccurs="0"/>
      <xsd:element name="digitsPauseDuration" type="csta:DigitsPauseDurationList" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="TelTonesData">
    <xsd:sequence>
      <xsd:element name="toneDetected" type="csta:ToneDetected"/>
      <xsd:element name="toneFrequency" type="xsd:long" minOccurs="0"/>
      <xsd:element name="toneDuration" type="xsd:long" minOccurs="0"/>
      <xsd:element name="tonePauseDuration" type="xsd:long" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:simpleType name="ToneDetected">
    <xsd:restriction base="xsd:string">
```

```
      <xsd:enumeration value="beep"/>
      <xsd:enumeration value="billing"/>
      <xsd:enumeration value="busy"/>
      <xsd:enumeration value="carrier"/>
      <xsd:enumeration value="confirmation"/>
      <xsd:enumeration value="dial"/>
      <xsd:enumeration value="faxCNG"/>
      <xsd:enumeration value="hold"/>
      <xsd:enumeration value="howler"/>
      <xsd:enumeration value="intrusion"/>
      <xsd:enumeration value="modemCNG"/>
      <xsd:enumeration value="park"/>
      <xsd:enumeration value="recordWarning"/>
      <xsd:enumeration value="reorder"/>
      <xsd:enumeration value="ringback"/>
      <xsd:enumeration value="silence"/>
      <xsd:enumeration value="sitVC"/>
      <xsd:enumeration value="sitIC"/>
      <xsd:enumeration value="sitRO"/>
      <xsd:enumeration value="sitNC"/>
      <xsd:enumeration value="other"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="DcollCause">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="flushCharReceived"/>
      <xsd:enumeration value="charCountReceived"/>
      <xsd:enumeration value="timeout"/>
      <xsd:enumeration value="sfTerminated"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="DigitsDurationList">
    <xsd:sequence>
      <xsd:element name="digitsDurationItem" type="xsd:long" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

  <xsd:complexType name="DigitsPauseDurationList">
    <xsd:sequence>
      <xsd:element name="digitsPauseDurationItem" type="xsd:long" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

23.1.2 Data Collection Resumed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collection-resumed</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="DataCollectionResumed">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataCollectionResumedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.3 Data Collection Suspended

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-data-collection-suspended</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="DataCollectionSuspended">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DataCollectionSuspendedResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.4 Resume Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-resume-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="ResumeDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ResumeDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.5 Start Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-start-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-identifiers.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="StartDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="object" type="csta:CallObject"/>
        <xsd:element name="dataCollType" type="csta:DataCollType" minOccurs="0"/>
        <xsd:element name="digitsReportingCriteria" type="csta:DigitsReportingCriteria"
        minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StartDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="CallObject">
    <xsd:choice>
      <xsd:element name="device" type="csta:DeviceID"/>
      <xsd:element name="call" type="csta:ConnectionID"/>
    </xsd:choice>
  </xsd:complexType>

  <xsd:simpleType name="DataCollType">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="digits"/>
      <xsd:enumeration value="telTones"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:complexType name="DigitsReportingCriteria">
    <xsd:sequence>
      <xsd:element name="numChars" type="xsd:long" minOccurs="0"/>
      <xsd:element name="flushChar" minOccurs="0">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:length value="1"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="timeout" type="xsd:long" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>
```

23.1.6 Stop Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="StopDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

23.1.7 Suspend Data Collection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-data-collection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="data-collection.xsd"/>

  <xsd:element name="SuspendDataCollection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:dcollCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SuspendDataCollectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24 Voice services and events

24.1 Services

24.1.1 Activate

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-activate</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Activate">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="ruleName" type="xsd:string"/>
        <xsd:element name="grammarName" type="xsd:string" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ActivateResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.2 Clear

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-clear</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Clear">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ClearResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.3 Concatenate message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-concatenate-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="ConcatenateMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messagesToConcatenate" type="csta:MessageIDList"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ConcatenateMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="concatenatedMessage" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="MessageIDList">
    <xsd:sequence>
      <xsd:element name="messageIDItem" type="csta:MessageID" minOccurs="0"
      maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>

</xsd:schema>
```

24.1.4 Deactivate

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Deactivate">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="ruleName" type="xsd:string"/>
        <xsd:element name="grammarName" type="xsd:string" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DeactivateResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.5 Delete message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-delete-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="DeleteMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageToBeDeleted" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="DeleteMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.6 Play message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-play-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="PlayMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageToBePlayed" type="csta:MessageID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="duration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="termination" type="csta:TerminatingConditions" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="PlayMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.7 Query voice attribute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4" xmlns:xsd="http://www.w3.org/
2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-query-voice-attribute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="QueryVoiceAttribute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="messageToQuery" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="attributeToQuery" type="csta:AttributeToQuery"/>
        <xsd:element name="connection" type="csta:ConnectionID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="QueryVoiceAttributeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="attribute" type="csta:AttributeInfo"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="AttributeToQuery">
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="encodingAlgorithm"/>
      <xsd:enumeration value="samplingRate"/>
      <xsd:enumeration value="duration"/>
      <xsd:enumeration value="filename"/>
      <xsd:enumeration value="currentPosition"/>
      <xsd:enumeration value="currentSpeed"/>
      <xsd:enumeration value="currentVolume"/>
      <xsd:enumeration value="currentLevel"/>
      <xsd:enumeration value="currentState"/>
      <xsd:enumeration value="grammars"/>
      <xsd:enumeration value="language"/>
      <xsd:enumeration value="mode"/>
      <xsd:enumeration value="retainAudio"/>
      <xsd:enumeration value="silenceTimeout"/>
      <xsd:enumeration value="maxTimeout"/>
      <xsd:enumeration value="babbleTimeout"/>
      <xsd:enumeration value="endSilence"/>
      <xsd:enumeration value="rejectionThreshold"/>
      <xsd:enumeration value="autoInterruptible"/>
      <xsd:enumeration value="innerXml"/>
      <xsd:enumeration value="interdigitTimeout"/>
      <xsd:enumeration value="preflush"/>
    </xsd:restriction>
  </xsd:simpleType>

</xsd:schema>
```

24.1.8 Queue service

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">

  <!--The QueueService element name in ECMA-323 is equivalent to the Queue service name in ECMA-269-->

  <xsd:annotation>
    <xsd:documentation>CSTA-queue-service</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="QueueService">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="text" type="xsd:string" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="QueueServiceResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.9 Record message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-record-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="RecordMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="callToBeRecorded" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="samplingRate" type="xsd:long" minOccurs="0"/>
        <xsd:element name="encodingAlgorithm" type="csta:EncodingAlgorithm" minOccurs="0"/>
        <xsd:element name="maxDuration" type="xsd:long" minOccurs="0"/>
        <xsd:element name="termination" type="csta:TerminatingConditions" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RecordMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="resultingMessage" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.10 Reposition

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-reposition</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Reposition">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="messageToReposition" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="periodOfReposition" type="csta:Period"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="RepositionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="Period">
    <xsd:choice>
      <xsd:element name="absolutePosition">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="startOfMessage"/>
            <xsd:enumeration value="endOfMessage"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="relativePosition" type="xsd:long"/>
    </xsd:choice>
  </xsd:complexType>

</xsd:schema>
```

24.1.11 Resume

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-resume</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Resume">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="messageToResume" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="duration" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ResumeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.12 Review

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-review</xsd:documentation>
  </xsd:annotation>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Review">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="messageToReview" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="periodToReview" type="csta:PeriodToReview"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="ReviewResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="PeriodToReview">
    <xsd:choice>
      <xsd:element name="startOfMessage" type="csta:Empty"/>
      <xsd:element name="lengthOfReview" type="xsd:long"/>
    </xsd:choice>
  </xsd:complexType>

</xsd:schema>
```

24.1.13 Set voice attribute

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-set-voice-attribute</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>

  <xsd:element name="SetVoiceAttribute">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="attributeToSet" type="csta:AttributeToSet"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SetVoiceAttributeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:complexType name="AttributeToSet">
    <xsd:choice>
      <xsd:element name="currentSpeed" type="xsd:long"/>
      <xsd:element name="currentVolume" type="csta:Volume"/>
      <xsd:element name="currentGain">
        <xsd:simpleType>
          <xsd:restriction base="xsd:integer">
            <xsd:minInclusive value="0"/>
            <xsd:maxInclusive value="100"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="grammars" maxOccurs="unbounded">
        <xsd:complexType>
          <xsd:sequence minOccurs="0">
            <xsd:any namespace="##any" maxOccurs="unbounded"/>
          </xsd:sequence>
          <xsd:attribute name="name" type="xsd:string"/>
          <xsd:attribute name="src" type="xsd:anyURI"/>
          <xsd:anyAttribute namespace="##any"/>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="language" type="xsd:language"/>
      <xsd:element name="mode">
        <xsd:simpleType>
          <xsd:restriction base="xsd:string">
            <xsd:enumeration value="automatic"/>
            <xsd:enumeration value="single"/>
            <xsd:enumeration value="multiple"/>
```

```
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="retainAudio" type="xsd:boolean"/>
    <xsd:element name="silenceTimeout" type="xsd:float"/>
    <xsd:element name="maxTimeout" type="xsd:float"/>
    <xsd:element name="babbleTimeout" type="xsd:float"/>
    <xsd:element name="endSilence" type="xsd:float"/>
    <xsd:element name="rejectionThreshold">
      <xsd:simpleType>
        <xsd:restriction base="xsd:float">
          <xsd:maxInclusive value="1.0"/>
          <xsd:minInclusive value="0.0"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:element>
    <xsd:element name="autoInterruptible" type="xsd:boolean"/>
    <xsd:element name="innerXml">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:any/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="interdigitTimeout" type="xsd:float"/>
    <xsd:element name="preflush" type="xsd:boolean"/>
  </xsd:choice>
</xsd:complexType>

</xsd:schema>
```

24.1.14 Start

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-start</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Start">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="text" type="xsd:string" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StartResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.15 Stop

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4" elementFormDefault="qualified"
attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Stop">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="messageToBeStopped" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.16 Suspend

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="Suspend">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SuspendResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.1.17 Synthesize message

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-synthesize-message</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="SynthesizeMessage">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="textToBeSynthesized" type="xsd:string"/>
        <xsd:element name="control" type="csta:ControlData" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SynthesizeMessageResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="synthesizedMessage" type="csta:MessageID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2 Events

24.2.1 Bookmark reached

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-bookmark-reached-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="BookmarkReachedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="bookmark" type="xsd:string"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.2 Completed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-completed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="CompletedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.3 DTMF detected

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-dtmf-detected-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="DtmfDetectedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="dtmfChar" type="xsd:unsignedByte"/>
        <xsd:element name="dtmfChar">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:length value="1"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.4 Emptied

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-emptied-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="EmptiedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.5 Interruption detected

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-interruption-detected-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="InterruptionDetectedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.6 Not recognized

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-not-recognized-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="NotRecognizedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="result" type="xsd:string" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.7 Play

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-play-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="PlayEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element name="speed" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.8 Recognized

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-recognized-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="RecognizedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="result" type="xsd:string"/>
        <xsd:element name="text" type="xsd:string"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.9 Record

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-record-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="RecordEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.10 Review

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-review-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="ReviewEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.11 Silence timeout expired

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-silence-timeout-expired-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SilenceTimeoutExpiredEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.12 Speech detected

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-speech-detected-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SpeechDetectedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.13 Started

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-started-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="StartedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.14 Stop

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="StopEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.15 Suspend play

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-play-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>
  <xsd:element name="SuspendPlayEvent">

    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.16 Suspend record

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-suspend-record-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="SuspendRecordEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="length" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

24.2.17 Voice attribute changed

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-voice-attribute-changed-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="physical-device-features.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="VoiceAttributeChangedEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="connection" type="csta:ConnectionID"/>
        <xsd:element name="message" type="csta:MessageID" minOccurs="0"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element name="playVolume" type="csta:Volume" minOccurs="0"/>
        <xsd:element name="recordingGain" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:integer">
              <xsd:minInclusive value="0"/>
              <xsd:maxInclusive value="100"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="speed" type="xsd:long" minOccurs="0"/>
        <xsd:element name="currentPosition" type="xsd:long" minOccurs="0"/>
        <xsd:element name="grammars" minOccurs="0" maxOccurs="unbounded">
          <xsd:complexType>
            <xsd:sequence minOccurs="0">
              <xsd:any namespace="##any" maxOccurs="unbounded"/>
            </xsd:sequence>
            <xsd:attribute name="name" type="xsd:string"/>
            <xsd:attribute name="src" type="xsd:anyURI"/>
            <xsd:anyAttribute namespace="##any"/>
          </xsd:complexType>
        </xsd:element>
        <xsd:element name="language" type="xsd:language" minOccurs="0"/>
        <xsd:element name="mode">
          <xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:enumeration value="automatic"/>
              <xsd:enumeration value="single"/>
              <xsd:enumeration value="multiple"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="retainAudio" type="xsd:boolean" minOccurs="0"/>
        <xsd:element name="silenceTimeout" type="xsd:float" minOccurs="0"/>
        <xsd:element name="maxTimeout" type="xsd:float" minOccurs="0"/>
        <xsd:element name="babbleTimeout" type="xsd:float" minOccurs="0"/>
        <xsd:element name="endSilence" type="xsd:float" minOccurs="0"/>
        <xsd:element name="rejectionThreshold" minOccurs="0">
          <xsd:simpleType>
            <xsd:restriction base="xsd:float">
```

```
            <xsd:maxInclusive value="1.0"/>
            <xsd:minInclusive value="0.0"/>
          </xsd:restriction>
        </xsd:simpleType>
      </xsd:element>
      <xsd:element name="autoInterruptible" type="xsd:boolean" minOccurs="0"/>
      <xsd:element name="innerXml" minOccurs="0">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:any/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="interdigitTimeout" type="xsd:float" minOccurs="0"/>
      <xsd:element name="preflush" type="xsd:boolean" minOccurs="0"/>
      <xsd:element ref="csta:cause" minOccurs="0"/>
      <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
      <xsd:element ref="csta:extensions" minOccurs="0"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

</xsd:schema>
```

24.2.18 Voice error occurred

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-voice-error-occurred-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="event-cause.xsd"/>
  <xsd:include schemaLocation="call-connection-identifiers.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="VoiceErrorOccurredEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="overConnection" type="csta:ConnectionID"/>
        <xsd:element name="resource" type="csta:ResourceID" minOccurs="0"/>
        <xsd:element ref="csta:cause" minOccurs="0"/>
        <xsd:element ref="csta:servicesPermitted" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25 Call detail record services

25.1 Services

25.1.1 Call detail records notification

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-detail-records-notification</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="CDRNotification">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="cdrReason" type="csta:CDRReason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CDRNotificationResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.2 Call detail records report

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-call-detail-records-report</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="CDRReport">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="numberOfRecordsSent">
          <xsd:simpleType>
            <xsd:restriction base="xsd:integer">
              <xsd:minInclusive value="1"/>
              <xsd:maxInclusive value="128"/>
            </xsd:restriction>
          </xsd:simpleType>
        </xsd:element>
        <xsd:element name="cdrInfo" type="csta:CDRInfo"/>
        <xsd:element name="lastStoredCDRReportSent" type="xsd:boolean" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="CDRReportResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.3 Send stored call detail records

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-send-stored-call-detail-records</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="SendStoredCDR">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="timePeriod" type="csta:CDRTimePeriod" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="SendStoredCDRResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.4 Start call detail records transmission

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-start-call-detail-records-transmission</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="StartCDRTransmission">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="transferMode" type="csta:CDRTransferMode"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StartCDRTransmissionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

25.1.5 Stop call detail records transmission

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-stop-call-detail-records-transmission</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="call-detail-record.xsd"/>

  <xsd:element name="StopCDRTransmission">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:cdrCrossRefID"/>
        <xsd:element name="cdrTermReason" type="csta:CDRTermReason" minOccurs="0"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="StopCDRTransmissionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

26 Vendor specific extensions services and events

26.1 Registration services

26.1.1 Escape register

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-register</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="EscapeRegister">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="EscapeRegisterResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

26.1.2 Escape register abort

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-register-abort</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="EscapeRegisterAbort">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:annotation>
    <xsd:documentation>There is no positive response to this request.</xsd:documentation>
  </xsd:annotation>

</xsd:schema>
```

26.1.3 Escape register cancel

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape-register-cancel</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="EscapeRegisterCancel">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID"/>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="EscapeRegisterCancelResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

26.2 Services

26.2.1 Escape

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-escape</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="escape-types.xsd"/>

  <xsd:element name="Escape">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:escapeRegisterID" minOccurs="0"/>
        <xsd:element name="security" type="csta:CSTASecurityData" minOccurs="0"/>
        <xsd:element name="privateData" type="csta:CSTAPrivateData"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="EscapeResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

26.2.2 Private data version selection

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">

  <xsd:annotation>
    <xsd:documentation>CSTA-private-data-version-selection</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="extension-types.xsd"/>

  <xsd:element name="PrivateDataVersionSelection">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element name="privateDataVersionSelectionArgument"
        type="csta:PrivateDataVersionSelectionArgument"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="PrivateDataVersionSelectionResponse">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:extensions" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

  <xsd:simpleType name="PrivateDataVersionSelectionArgument">
    <xsd:restriction base="xsd:integer"/>
  </xsd:simpleType>

</xsd:schema>
```

26.3 Events

26.3.1 Private event

```
<?xml version="1.0" encoding="UTF-8"?>

<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"

elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xsd:annotation>
    <xsd:documentation>CSTA-private-event</xsd:documentation>
  </xsd:annotation>

  <xsd:include schemaLocation="security.xsd"/>
  <xsd:include schemaLocation="extension-types.xsd"/>
  <xsd:include schemaLocation="status-reporting.xsd"/>

  <xsd:element name="PrivateEvent">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:monitorCrossRefID"/>
        <xsd:element name="security" type="csta:CSTASecurityData" minOccurs="0"/>
        <xsd:element name="privateData" type="csta:CSTAPrivateData"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

Annex A

(normative)

Protocol Implementation Conformance Statement (PICS) Proforma

A.1 Introduction

The Protocol Implementation Conformance Statement (PICS) is a statement of which capabilities and options of the protocol have been implemented. The PICS can have a number of uses, including use:

- by the protocol implementor, as a check-list to reduce the risk of failure to conform to the standard through oversight;
- by the supplier and acquirer (or potential acquirer) of the implementation, as a detailed indication of the capabilities of the implementation, stated relative to the common basis for understanding provided by the standard PICS proforma;
- by the user (or potential user) of the implementation, as a basis for initially checking the possibility of interworking with another implementation (note that, while interworking cannot be guaranteed, failure to interwork can often be predicted from incompatible PICS);
- by a protocol tester, as the basis for selecting appropriate tests against which to assess the claim for conformance of the implementation.

A.2 Conformance

The supplier of a protocol implementation which is claimed to conform to this Standard shall complete a copy of the Protocol Implementation Conformance Statement (PICS) proforma in A.5, “PICS proforma”.

A.3 Instructions for completing the PICS proforma

The first part of the PICS proforma, the Implementation Identification (A.4, “Implementation identification”, on page 366), is to be completed as indicated with the information necessary to identify fully both the supplier and the implementation.

The main part of the PICS proforma, A.5, “PICS proforma”, is a fixed format questionnaire divided into subclauses each containing a group of individual items. These items represent options specified in ECMA-269 (mandatory items are not represented). Answers to the questionnaire items are to be provided in the appropriate columns by marking an answer to indicate a restricted choice (Yes or No), and optionally clarifying this response with a comment.

Where a service or event is not supported, as indicated by entering No for the first entry in a table, any parameters or dependent service components in the rest of that table are not applicable, it is then not necessary to complete items in any subsidiary entries in the table.

Note that ECMA-269 should be used as a reference when completing the PICS proforma.

A.4 Implementation identification

Supplier	
Protocol Version	XML Protocol for CSTA Phase III, 3rd Edition
Date of Statement	
Contact point for queries about the PICS	
Implementation Name(s) and Version(s)	
Other information necessary for full identification - e.g. Name(s) and Version(s) for machines and/or operating systems; system name(s)	

The first five items are required for all implementations; other information may be completed as appropriate in meeting the requirement for full identification.

The terms Name and Version should be interpreted appropriately to correspond with a supplier's terminology (e.g. Type, Series, Model).

A.5 PICS proforma

A.5.1 CSTA Profiles

CSTA Profiles group together services and events, where each profile specifies a set of services and events that are supported by the implementation. Switching Function implementors shall indicate support for one or more profiles in the table below. Specifying support for a profile shall be accompanied by specifying support for the services and events encompassed by the profile, as well as any other services and events that the implementation supports.

Refer to ECMA-269 for a description of the CSTA Services and Events that must be supported for a specific CSTA profile.

Description: Profile(s) Supported	**Supported ?**		**Comments**
	Yes	**No**	
Basic Telephony Profile			
Routeing Profile			
Level 1a Voice Browser Profile			
Level 1b Voice Browser Profile			
Level 2 Voice Browser Profile			

Description: Profile(s) Supported	Supported ?		Comments
	Yes	No	
Minimal uaCSTA Call Control Profile			
Basic uaCSTA Call Control Profile			
Advanced uaCSTA Call Control Profile			
Conferencing uaCSTA Call Control Profile			
Basic uaCSTA Device Feature Profile			
Speaker uaCSTA Device Feature Profile			
Basic Speech Service Profile			
Advanced Speech Service Profile			

A.5.2 Capability Exchange Services

A.5.2.1 Get CSTA Features

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get CSTA Features			
Service Request optional parameters			
security			
privateData			
Service Request optional parameters			
security			
privateData			

A.5.2.2 Get Logical Device Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Logical Device Information			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
groupDeviceAttibutes			
namedDeviceTypes			
shortFormDeviceID			
agentLogOnModels			
appearanceList			
otherPhysicalDeviceList			
miscMonitorCaps			
associatedGroupList			
maxCallbacks			
maxAutoAnswerRings			
maxActiveCalls			
maxHeldCalls			
maxFwdSettings			
maxDevicesInConf			
transAndConfSetup			
deviceOnDeviceMonitorFilter			
deviceOnConnectionMonitorFilter			
callOnDeviceMonitorFilter			
callOnConnectionMonitorFilter			
mediaClassSupport			
mediaServiceCapsList			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
connectionRateList			
delayToleranceList			
numberOfChannels			
maxChannelBind			
routeingServList			
logDevServList			
logDevEvtsList			
deviceMaintEvtsList			
security			
privateData			

A.5.2.3 Get Physical Device Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Physical Device Information			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
groupDeviceAttributes			
namedDeviceTypes			
otherLogicalDeviceList			
deviceModelName			
deviceOnDeviceMonitorFilter			
deviceOnConnectionMonitorFilter			
callOnDeviceMonitorFilter			
callOnConnectionMonitorFilter			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
maxDisplays			
maxButtons			
maxLamps			
maxRingPatterns			
physDevServList			
physDevEvtsList			
security			
privateData			

A.5.2.4 Get Switching Function Capabilities

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Switching Function Capabilities			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
callCharacteristicsSupported			
mediaClassSupport			
numberOfChannels			
maxChannelBind			
miscMediaCallCharacteristics			
connectionRateList			
delayToleranceRateList			
pauseTime			
currentTime			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
messageSeqNumbers			
timeStampMode			
securityMode			
securityFormat			
privateDataFormat			
transAndConfSetup			
deviceOnDeviceMonitorFilter			
deviceOnConnectionMonitorFilter			
callOnDeviceMonitorFilter			
callOnConnectionMonitorFilter			
miscMonitorCaps			
correlatorDataSupported			
dynamicFeatureSupported			
callLinkageOptionsSupported			
acdModels			
agentLogonModels			
agentStateModels			
maxLengthParametersContinued			
routeingServList			
logDevServList			
logDevEvtsList			
physDevServList			
physDevEvtsList			
deviceMaintEvtsList			
statusReportingServList			
capExchangeServList			
cdrServList			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
vendorSpecificServList			
vendorSpecificEvtsList			
privateDataVersionList			
systemStatusTimer			
simpleThreshold			
filterThreshold			
mediaServiceCapsList			
maxDeviceHistoryEntries			
security			
privateData			

A.5.2.5 Get Switching Function Devices

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Switching Function Devices			
Service Request optional parameters			
requestedDeviceID			
requestedDeviceCategory			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.2.6 Switching Function Devices

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Switching Function Devices			
Service Request optional parameters			
segmentID			
security			
privateData			

A.5.3 System Services

A.5.3.1 Change System Status Filter

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Change System Status Filter			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.2 System Register

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
System Register			
Service Request optional parameters			
requestedStatusFilter			
security			
privateData			
Service Response optional parameters			
actualStatusFilter			
security			
privateData			

A.5.3.3 System Register Abort

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
System Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.3.4 System Register Cancel

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
System Register Cancel			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.5 Request System Status

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Request System Status			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.6 System Status

The System Status service shall be supported as part of the Application Association Initialisation as specified in Clause 7 of ECMA-269.

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
System Status			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.7 Switching Function Capabilities Changed

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Switching Function Capabilities Changed			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.3.8 Switching Function Devices Changed

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Switching Function Devices Changed			
Service Request optional parameters			
sysStatRegisterID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.4 Monitoring Services

A.5.4.1 Change Monitor Filter

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Change Monitor Filter			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
actualFilterList			
security			
privateData			

A.5.4.2 Monitor Start

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Monitor Start			
Service Request optional parameters			
requestedMonitorFilter			
monitorType			
requestedMonitorMediaClass			
security			
privateData			
Service Response optional parameters			
actualMonitorFilter			
actualMonitorMediaClass			
monitorExistingCalls			
security			
privateData			

A.5.4.3 Monitor Stop

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Monitor Stop			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.5 Snapshot Services

A.5.5.1 Snapshot Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Snapshot Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
serviceCrossRefID			
snapshotData			
mediaCallCharacteristics			
callCharacteristics			
callingDevice			
calledDevice			
associatedCallingDevice			
associatedCalledDevice			
correlatorData			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.5.2 Snapshot Device

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Snapshot Device			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
serviceCrossRefID			
snapshotData			
security			
privateData			

A.5.5.3 Snapshot CallData

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Snapshot CallData			
Service Request optional parameters			
segmentID			
security			
privateData			

A.5.5.4 Snapshot DeviceData

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Snapshot DeviceData			
Service Request optional parameters			
segmentID			
security			
privateData			

A.5.6 Call Control Services

A.5.6.1 Accept Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Accept Call			
Service Request optional parameters			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.2 Alternate Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Alternate Call			
Service Request optional parameters			
connectionReservation			
consultOptions			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.3 Answer Call

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Answer Call			
Service Request optional parameters			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.4 Call Back Call-Related

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Call Back Call-Related			
Service Request optional parameters			
callCharateristics			
security			
subjectOfCall			
languagePreferences			
privateData			
Service Response optional parameters			
targetDevice			
security			
privateData			

A.5.6.5 Call Back Message Call-Related

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Call Back Message Call-Related			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
targetDevice			
security			
privateData			

A.5.6.6 Camp On Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Camp On Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.7 Clear Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Clear Call			
Service Request optional parameters			
userData			
reason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.8 Clear Connection

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Clear Connection			
Service Request optional parameters			
correlatorData			
userData			
reason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.9 Conference Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Conference Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
connections			
conferenceCallInfo			
security			
privateData			

A.5.6.10 Consultation Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Consultation Call			
Service Request optional parameters			
connectionReservation			
accountCode			
authCode			
correlatorData			
userData			
callCharacteristics			
mediaCallCharacteristics			
callingConnectionInfo			
consultOptions			
subjectOfCall			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
languagePreferences			
security			
privateData			
Service Response optional parameters			
mediaCallCharacteristics			
initiatedCallInfo			
security			
privateData			

A.5.6.11 Deflect Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Deflect Call			
Service Request optional parameters			
correlatorData			
userData			
subjectOfCall			
languagePreferences			
reason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.12 Dial Digits

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Dial Digits			
Service Request optional parameters			
correlatorData			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.13 Directed Pickup Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Directed Pickup Call			
Service Request optional parameters			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
pickedCall			
pickedCallInfo			
security			
privateData			

A.5.6.14 Group Pickup Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Group Pickup Call			
Service Request optional parameters			
pickGroup			
correlatorData			
userData			
security			
privateData			
Service Response optional parameters			
pickedCall			
pickedCallInfo			
security			
privateData			

A.5.6.15 Hold Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Hold Call			
Service Request optional parameters			
connectionReservation			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.16 Intrude Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Intrude Call			
Service Request optional parameters			
participationType			
userData			
security			
privateData			
Service Response optional parameters			
conferencedCall			
conferencedCallInfo			
security			
privateData			

A.5.6.17 Join Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Join Call			
Service Request optional parameters			
autoOriginate			
participationType			
accountCode			
authCode			
correlatorData			
userData			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
conferencedCallInfo			
security			
privateData			

A.5.6.18 Make Call

This service must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Make Call			
Service Request optional parameters			
accountCode			
authCode			
autoOriginate			
correlatorData			
userData			
callCharacteristics			
medaCallCharacteristics			
callingConnectionInfo			
subjectOfCall			
languagePreferences			
reason			
security			
privateData			
Service Response optional parameters			
mediaCallCharacteristics			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
initiatedCallInfo			
security			
privateData			

A.5.6.19 Make Predictive Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Make Predictive Call			
Service Request optional parameters			
signallingDectection			
destinationDetection			
defaultAction			
accountCode			
authCode			
autoOriginate			
alertTime			
correlatorData			
callCharacteristics			
subjectOfCall			
languagePreferences			
userData			
security			
privateData			
Service Response optional parameters			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
initiatedCallInfo			
security			
privateData			

A.5.6.20 Park Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Park Call			
Service Request optional parameters			
correlatorData			
subjectOfCall			
languagePreferences			
security			
privateData			
Service Response optional parameters			
parkedTo			
security			
privateData			

A.5.6.21 Reconnect Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Reconnect Call			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.6.22 Retrieve Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Retrieve Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.23 Send Message

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Send Message			
Service Request optional parameters			
accountCode			
authCode			
correlatorData			
callCharacteristics			
mediaCallCharacteristics			
subjectOfCall			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
languagePreferences			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.6.24 Single Step Conference Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Single Step Conference Call			
Service Request optional parameters			
participationType			
accountCode			
authCode			
correlatorData			
userData			
subjectOfCall			
languagePreferences			
security			
privateData			
Service Response optional parameters			
conferencedCallInfo			
security			
privateData			

A.5.6.25 Single Step Transfer Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Single Step Transfer Call			
Service Request optional parameters			
accountCode			
authCode			
correlatorData			
userData			
subjectOfCall			
languagePreferences			
reason			
security			
privateData			
Service Response optional parameters			
connections			
transferredCallInfo			
security			
privateData			

A.5.6.26 Transfer Call

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Transfer Call			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
connections			
transferredCallInfo			
security			
privateData			

A.5.7 Call Control Events

A.5.7.1 Bridged

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Bridged			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
bridgedConnectionInfo			
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.2 Call Cleared

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Call Cleared			
correlatorData			
userData			
mediaCallCharacteristics			
callCharacteristics			
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.3 Conferenced

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Conferenced			
secondaryOldCall			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.4 Connection Cleared

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Connection Cleared			
localConnectionInfo			
correlatorData			
userData			
chargingInfo			
servicesPermitted			
mediaCallCharateristics			
callCharacteristics			
droppedConnectionInfo			
callLinkageData			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.5 Delivered

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Delivered			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
connectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.6 Digits Dialed

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Digits Dialed			
localConnectionInfo			
correlatorData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
diallingConnectionInfo			
callCharacteristics			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
languagePreferences			
security			
privateData			

A.5.7.7 Diverted

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Diverted			
callingDevice			
calledDevice			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
connectionInfo			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.8 Established

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Established			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
establishConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.9 Failed

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Failed			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
failedConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.10 Held

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Held			
localConnectionInfo			
correlatorData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
heldConnectionInfo			
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.11 Network Capabilities Changed

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Network Capabilities Changed			
localConnectionInfo			
correlatorData			
userData			
networkCapability			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
outboundConnectionInfo			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
languagePreferences			
security			
privateData			

A.5.7.12 Network Reached

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Network Reached			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
networkCapability			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
outboundConnectionInfo			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.13 Offered

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Offered			
originatingNIDConnection			
localConnectionInfo			
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
offeredConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.14 Originated

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Originated			
originatingDevice			
localConnectionInfo			
correlatorData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
originatedConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
security			
privateData			

A.5.7.15 Queued

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Queued			
numberQueued			
callsInFront			
localConnectionInfo			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
correlatorData			
userData			
servicesPermitted			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
associatedCalledDevice			
mediaCallCharacteristics			
callCharacteristics			
queuedConnectionInfo			
subjectOfCall			
messageInfo			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.7.16 Retrieved

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Retrieved			
localConnectionInfo			
correlatorData			
servicePermitted			
mediaCallCharacteristics			
callCharacteristics			
retrievedConnectionInfo			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
callLinkageData			
languagePreferences			
security			
privateData			

A.5.7.17 Service Initiated

This event must be supported if the Basic Telephony profile is supported (A.5.1).

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Service Initiated			
localConnectionInfo			
correlatorData			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
initiatedConnectionInfo			
networkCallingDevice			
networkCalledDevice			
associatedCallingDevice			
subjectOfCall			
messageInfo			
languagePreferences			
security			
privateData			

A.5.7.18 Transferred

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Transferred			
secondaryOldCall			
localConnectionInfo			
correlatorData			
userData			
chargingInfo			
servicesPermitted			
mediaCallCharacteristics			
callCharacteristics			
languagePreferences			
deviceHistory			
security			
privateData			

A.5.8 Call Associated Feature Services

A.5.8.1 Associate Data

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Associate Data			
Service Request optional parameters			
accountCode			
authCode			
correlatorData			
callQualifyingData			
callCharacteristics			
subjectOfCall			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
languagePreferences			
deviceInfo			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.2 Cancel Telephony Tones

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Cancel Telephony Tones			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.3 Change Connection Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Change Connection Information			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.8.4 Generate Digits

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Generate Digits			
Service Request optional parameters			
digitMode			
toneDuration			
pulseRate			
pauseDuration			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.5 Generate Telephony Tones

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Generate Telephony Tones			
Service Request optional parameters			
toneDuration			
security			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
privateData			
Service Response optional parameters			
security			
privateData			

A.5.8.6 Send User Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Send User Information			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.9 Call Associated Feature Events

A.5.9.1 Call Information

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Call Information			
callingDevice			
accountInfo			
authorisationCode			
correlatorData			
servicesPermitted			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
userData			
callQualifyingData			
connectionInfo			
callCharacteristics			
subjectOfCall			
languagePreferences			
deviceInfo			
security			
privateData			

A.5.9.2 Charging

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Charging			
cause			
security			
privateData			

A.5.9.3 Digits Generated

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Digits Generated			
digitDurationList			
pauseDurationList			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
connectionInfo			
security			
privateData			

A.5.9.4 Telephony Tones Generated

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Telephony Tones Generated			
toneGenerated			
toneFrequency			
toneDuration			
pauseDuration			
connectionInfo			
security			
privateData			

A.5.9.5 Service Completion Failure

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Service Completion Failure			
secondaryCall			
otherDevicesPrimaryCallList			
otherDevicesSecondaryCallList			
mediaCallCharacteristics			
security			
privateData			

A.5.10 Media Attachment Services

A.5.10.1 Attach Media Service

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Attach Media Service			
Service Request optional parameters			
mediaServiceVersion			
mediaServiceInstanceID			
requestedConnectionState			
security			
privateData			
Service Response optional parameters			
mediaConnection			
mediaDevice			
mediaServiceInstanceID			
mediaConnectionInfo			
security			
privateData			

A.5.10.2 Detach Media Service

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Detach Media Service			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.11 Media Attachment Events

A.5.11.1 Media Attached

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Media Attached			
mediaServiceVersion			
mediaServiceInstanceID			
mediaStreamID			
mediaCallCharacteristics			
callCharacteristics			
localConnectionInfo			
mediaConnectionInfo			
security			
privateData			

A.5.11.2 Media Detached

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Media Detached			
mediaServiceVersion			
mediaServiceInstanceID			
mediaStreamID			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
mediaCallCharacteristics			
callCharacteristics			
localConnectionInfo			
mediaConnectionInfo			
security			
privateData			

A.5.12 Routeing Services

A.5.12.1 Route Register

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route Register			
Service Request optional parameters			
routeingDevice			
requestedRouteingMediaClass			
security			
privateData			
Service Response optional parameters			
actualRouteingMediaClass			
security			
privateData			

A.5.12.2 Route Register Abort

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.12.3 Route Register Cancel

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route Register Cancel			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.12.4 Re-Route

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Re-Route			
Service Request optional parameters			
routeRegisterReqID			
replyTimeout			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
correlatorData			
security			
privateData			

A.5.12.5 Route End

This service must be supported if the Routeing Profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route End			
Service Request optional parameters			
routeRegisterReqID			
errorValue			
correlatorData			
security			
privateData			

A.5.12.6 Route Reject

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route Reject			
Service Request optional parameters			
routeRegisterReqID			
rejectCause			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
correlatorData			
security			
privateData			

A.5.12.7 Route Request

This service must be supported if the Routeing Profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route Request			
Service Request optional parameters			
routeRegisterReqID			
callingDevice			
routeingDevice			
routedCall			
routeSelAlgorithm			
associatedCallingDevice			
associatedCalledDevice			
priority			
replyTimeout			
correlatorData			
mediaCallCharacteristics			
callCharacteristics			
routedCallInfo			
subjectOfCall			
messageInfo			
languagePreferences			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
deviceHistory			
security			
privateData			

A.5.12.8 Route Select

This service must be supported if the Routeing Profile is supported (A.5.1).

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route Select			
Service Request optional parameters			
routeRegisterReqID			
alternateRoutes			
remainRetries			
routeUsedReq			
correlatorData			
security			
privateData			

A.5.12.9 Route Used

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Route Used			
Service Request optional parameters			
routeRegisterReqID			
callingDevice			
domain			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
correlatorData			
security			
privateData			

A.5.13 Physical Device Services

A.5.13.1 Button Press

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Button Press			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.2 Get Auditory Apparatus Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Auditory Apparatus Information			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.3 Get Button Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Button Information			
Service Request optional parameters			
button			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.4 Get Display

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Display			
Service Request optional parameters			
displayID			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.5 Get HookSwitch Status

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get HookSwitch Status			
Service Request optional parameters			
hookswitch			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.6 Get Lamp Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Lamp Information			
Service Request optional parameters			
lamp			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.7 Get Lamp Mode

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Lamp Mode			
Service Request optional parameters			
lamp			
security			
privateData			
Service Response optional parameters			
lamp			
security			
privateData			

A.5.13.8 Get Message Waiting Indicator

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Message Waiting Indicator			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
deviceForMessage			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
lampIsPresent			
security			
privateData			

A.5.13.9 Get Microphone Gain

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Microphone Gain			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.10 Get Microphone Mute

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Microphone Mute			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.11 Get Ringer Status

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Ringer Status			
Service Request optional parameters			
ringer			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.12 Get Speaker Mute

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Speaker Mute			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.13 Get Speaker Volume

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Speaker Volume			
Service Request optional parameters			
auditoryApparatus			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.14 Set Button Information

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Button Information			
Service Request optional parameters			
buttonLabel			
buttonAssociatedNumber			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.15 Set Display

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Display			
Service Request optional parameters			
displayID			
physicalBaseRowNumber			
physicalBaseColumnNumber			
offset			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.16 Set HookSwitch Status

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set HookSwitch Status			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.17 Set Lamp Mode

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Lamp Mode			
Service Request optional parameters			
lampBrightness			
lampColor			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.18 Set Message Waiting Indicator

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Message Waiting Indicator			
Service Request optional parameters			
deviceForMessage			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.13.19 Set Microphone Gain

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Microphone Gain			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.20 Set Microphone Mute

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Microphone Mute			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.21 Set Ringer Status

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Ringer Status			
Service Request optional parameters			
ringMode			
ringPattern			
ringVolume			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.22 Set Speaker Mute

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Speaker Mute			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.13.23 Set Speaker Volume

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Speaker Volume			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.14 Physical Device Events

A.5.14.1 Button Information

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Button Information			
buttonLabel			
buttonAssociatedNumber			
buttonPressIndicator			
security			
privateData			

A.5.14.2 Button Press

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Button Press			
buttonLabel			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
buttonAssociatedNumber			
security			
privateData			

A.5.14.3 Display Updated

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Display Updated			
displayID			
physicalRows			
physicalColumns			
physicalBaseRowNumber			
physicalBaseColumnNumber			
characterSet			
security			
privateData			

A.5.14.4 Hookswitch

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Hookswitch			
security			
privateData			

A.5.14.5 Lamp Mode

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Lamp Mode			
lampLabel			
lampBrightness			
lampColor			
security			
privateData			

A.5.14.6 Message Waiting

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Message Waiting			
deviceForMessage			
security			
privateData			

A.5.14.7 Microphone Gain

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Microphone Gain			
security			
privateData			

A.5.14.8 Microphone Mute

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Microphone Mute			
security			
privateData			

A.5.14.9 Ringer Status

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Ringer Status			
ringMode			
ringCount			
ringDuration			
ringPattern			
ringVolume			
security			
privateData			

A.5.14.10 Speaker Mute

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Speaker Mute			
security			
privateData			

A.5.14.11 Speaker Volume

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Speaker Volume			
timeStamp			
security			
privateData			

A.5.15 Logical Device Services

A.5.15.1 Call Back Non-Call-Related

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Call Back Non-Call-Related			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.2 Call Back Message Non-Call-Related

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Call Back Message Non-Call-Related			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.15.3 Cancel Call Back

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Cancel Call Back			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.4 Cancel Call Back Message

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Cancel Call Back Message			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.5 Get Agent State

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Agent State			
Service Request optional parameters			
acdGroup			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.6 Get Auto Answer

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Auto Answer			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
numberOfRings			
security			
privateData			

A.5.15.7 Get Auto Work Mode

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Auto Work Mode			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
autoWorkInterval			
security			
privateData			

A.5.15.8 Get CallBack

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get CallBack			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.9 Get Caller ID Status

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Caller ID Status			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.10 Get Do Not Disturb

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Do Not Disturb			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
callOrigination			
callingDeviceList			
security			
privateData			

A.5.15.11 Get Forwarding

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Forwarding			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.12 Get Last Number Dialled

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Last Number Dialled			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.13 Get Routeing Mode

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Get Routeing Mode			
Service Request optional parameters			
security			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.14 Set Agent State

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Agent State			
Service Request optional parameters			
agentID			
password			
group			
security			
privateData			
Service Response optional parameters			
pendingAgentState			
security			
privateData			

A.5.15.15 Set Auto Answer

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Auto Answer			
Service Request optional parameters			
numberOfRings			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.16 Set Auto Work Mode

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Auto Work Mode			
Service Request optional parameters			
autoWorkInterval			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.17 Set Caller ID Status

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Caller ID Status			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.15.18 Set Do Not Disturb

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Do Not Disturb			
Service Request optional parameters			
callOrigination			
callingDeviceList			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.19 Set Forwarding

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Forwarding			
Service Request optional parameters			
forwardingType			
forwardDN			
ringCount			
ringDuration			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.15.20 Set Routeing Mode

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Routeing Mode			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.16 Logical Device Events

A.5.16.1 Agent Busy

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Agent Busy			
agentID			
acdGroup			
pendingAgentState			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
cause			
security			
privateData			

A.5.16.2 Agent Logged Off

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Agent Logged Off			
agentID			
acdGroup			
agentPassword			
cause			
security			
privateData			

A.5.16.3 Agent Logged On

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Agent Logged On			
agentID			
acdGroup			
agentPassword			
cause			
security			
privateData			

A.5.16.4 Agent Not Ready

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Agent Not Ready			
agentID			
acdGroup			
cause			
security			
privateData			

A.5.16.5 Agent Ready

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Agent Ready			
agentID			
acdGroup			
cause			
security			
privateData			

A.5.16.6 Agent Working After Call

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Agent Working After Call			
agentID			
acdGroup			
pendingAgentState			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
cause			
security			
privateData			

A.5.16.7 Auto Answer

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Auto Answer			
numberOfRings			
security			
privateData			

A.5.16.8 Auto Work Mode

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Auto Work Mode			
security			
privateData			

A.5.16.9 Call Back

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Call Back			
security			
privateData			

A.5.16.10 Call Back Message

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Call Back Message			
security			
privateData			

A.5.16.11 Caller ID Status

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Caller ID Status			
security			
privateData			

A.5.16.12 Do Not Disturb

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Do Not Disturb			
callOrigination			
callingDeviceList			
security			
privateData			

A.5.16.13 Forwarding

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Forwarding			
forwardingType			
forwardTo			
forwardDefault			
ringCount			
ringDuration			
security			
privateData			

A.5.16.14 Routeing Mode

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Routeing Mode			
security			
privateData			

A.5.17 Device Maintenance Events

A.5.17.1 Back In Service

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Back In Service			
cause			
security			
privateData			

A.5.17.2 Device Capabilities Changed

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Device Capabilities Changed			
cause			
security			
privateData			

A.5.17.3 Out of Service

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Out of Service			
cause			
security			
privateData			

A.5.17.4 Partially In Service

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Partially In Service			
cause			
security			
privateData			

A.5.18 I/O Services

A.5.18.1 I/O Register

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
I/O Register			
Service Request optional parameters			
ioDevice			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.2 I/O Register Abort

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
I/O Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.18.3 I/O Register Cancel

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
I/O Register Cancel			
Service Request optional parameters			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.18.4 Data Path Resumed

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Data Path Resumed			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.5 Data Path Suspended

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Data Path Suspended			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.18.6 Fast Data

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Fast Data			
Service Request optional parameters			
ioRegisterReqID			
dataPathType			
displayAttributes			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.7 Resume Data Path

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Resume Data Path			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.18.8 Send Broadcast Data

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Send Broadcast Data			
Service Request optional parameters			
dataPathType			
displayAttributes			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.9 Send Data

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Send Data			
Service Request optional parameters			
ioRegisterReqID			
displayAttributes			
ioCause			
security			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.10 Send Multicast Data

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Send Multicast Data			
Service Request optional parameters			
ioData			
displayAttributes			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.11 Start Data Path

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Start Data Path			
Service Request optional parameters			
ioRegisterReqID			
dataPathDirection			
dataPathType			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
displayID			
numberOfCharsToCollect			
terminationCharacter			
timeout			
security			
privateData			
Service Response optional parameters			
numberOfCharsToCollect			
terminationCharacter			
timeout			
security			
privateData			

A.5.18.12 Stop Data Path

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Stop Data Path			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.18.13 Suspend Data Path

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Suspend Data Path			
Service Request optional parameters			
ioRegisterReqID			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19 Data Collection Services

A.5.19.1 Data Collected

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Data Collected			
Service Request optional parameters			
digitsData			
telTonesData			
connectionInfo			
dcollCause			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.2 Data Collection Resumed

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Data Collection Resumed			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.3 Data Collection Suspended

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Data Collection Suspended			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.4 Resume Data Collection

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Resume Data Collection			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.5 Start Data Collection

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Start Data Collection			
Service Request optional parameters			
dataCollType			
digitsReportingCriteria			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.6 Stop Data Collection

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Stop Data Collection			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.19.7 Suspend Data Collection

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Suspend Data Collection			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20 Voice Services

A.5.20.1 Activate

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Activate			
Service Request optional parameters			
resource			
grammarName			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.2 Clear

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Clear Message			
Service Request optional parameters			
resource			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.3 Concatenate Message

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Concatenate Message			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.4 Deactivate

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Deactivate			
Service Request optional parameters			
resource			
grammarName			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.5 Delete Message

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Delete Message			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.6 Play Message

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Play Message			
Service Request optional parameters			
duration			
termination			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.7 Query Voice Attribute

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Query Voice Attribute			
Service Request optional parameters			
messageToQuery			
resource			
connection			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.8 Queue Service

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Queue Service			
Service Request optional parameters			
message			
resource			
text			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.9 Record Message

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Record Message			
Service Request optional parameters			
resource			
samplingRate			
encodingAlgorithm			
maxDuration			
termination			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.10 Reposition

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Reposition			
Service Request optional parameters			
messageToReposition			
resource			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.11 Resume

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Resume			
Service Request optional parameters			
messageToResume			
resource			
duration			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.12 Review

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Review			
Service Request optional parameters			
messageToReview			
resource			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.13 Set Voice Attribute

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Set Voice Attribute			
Service Request optional parameters			
message			
resource			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.14 Start

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Start			
Service Request optional parameters			
resource			
text			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.15 Stop

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Stop			
Service Request optional parameters			
messageToBeStopped			
resource			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.16 Suspend

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Suspend			
Service Request optional parameters			
message			
resource			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.20.17 Synthesize Message

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Synthesize Message			
Service Request optional parameters			
control			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.21 Voice Events

A.5.21.1 Bookmark Reached

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Bookmark Reached			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.21.2 Completed

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Completed			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.21.3 DTMF Detected

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
DTMF Detected			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.21.4 Emptied

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Emptied			
resource			
cause			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
servicesPermitted			
security			
privateData			

A.5.21.5 Interruption Detected

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Interruption Detected			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.21.6 Not Recognized

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Not Recognized			
resource			
result			
cause			
servicesPermitted			
security			
privateData			

A.5.21.7 Play

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Play			
message			
resource			
length			
currentPosition			
speed			
cause			
servicesPermitted			
security			
privateData			

A.5.21.8 Recognized

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Play			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.21.9 Record

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Record			
message			
resource			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.10 Review

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Review			
message			
resource			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.11 Silence Timeout Expired

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Silence Timeout Expired			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.21.12 Speech Detected

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Speech Detected			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.21.13 Started

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Started			
resource			
cause			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
servicesPermitted			
security			
privateData			

A.5.21.14 Stop

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Stop			
message			
resource			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.15 Suspend Play

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Suspend Play			
message			
resource			
length			
currentPosition			
cause			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
servicesPermitted			
security			
privateData			

A.5.21.16 Suspend Record

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Suspend Record			
message			
resource			
length			
currentPosition			
cause			
servicesPermitted			
security			
privateData			

A.5.21.17 Voice Attribute Changed

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Voice Attribute Changed			
message			
resource			
playVolume			
recordingGain			
speed			

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
currentPosition			
grammars			
language			
mode			
retainAudio			
silenceTimeout			
maxTimeout			
babbleTimeout			
endSilence			
rejectionThreshold			
autoInterruptable			
innerXML			
interdigitTimeout			
preflush			
cause			
security			
privateData			

A.5.21.18 Voice Error Occurred

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Voice Error Occurred			
resource			
cause			
servicesPermitted			
security			
privateData			

A.5.22 Call Detail Record (CDR) Services

A.5.22.1 Call Detail Records Notification

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Call Detail Records Notification			
Service Request optional parameters			
cdrReason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.2 Call Detail Records Report

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Call Detail Records Report			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.3 Send Stored Call Detail Records

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Send Stored Call Detail Records			
Service Request optional parameters			
timePeriod			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.4 Start Call Detail Records Transmission

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Start Call Detail Records Transmission			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.22.5 Stop Call Detail Records Transmission

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Stop Call Detail Records Transmission			
Service Request optional parameters			
cdrTermReason			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.23 Vendor Specific Extension Services

A.5.23.1 Escape Register

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Escape Register			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.23.2 Escape Register Abort

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Escape Register Abort			
Service Request optional parameters			
security			
privateData			

A.5.23.3 Escape Register Cancel

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Escape Register Cancel			
Service Request optional parameters			
security			
privateData			
Service Response optional parameters			
security			
privateData			

A.5.23.4 Escape

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Escape			
Service Request optional parameters			
escapeRegisterID			
security			

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Service Response optional parameters			
security			
privateData			

A.5.23.5 Private Data Version Selection

Description: Service, optional parameters	Supported ?		Comments
	Yes	No	
Private Data Version Selection			
Service Response optional parameters			
security			
privateData			

A.5.24 Vendor Specific Extension Events

A.5.24.1 Private Event

Description: Event, optional parameters	Supported ?		Comments
	Yes	No	
Private Event			
security			

A.5.25 XML Tag Options

Refer to 2.4, “XML Tag Options”, on page 1 for information on the XML Tag options

Description: XML Tag option(s) Supported	Supported ?		Comments
	Yes	No	
ECMA-323 Specified Tags			
Short Tags			
Dynamic Tags			

A.5.26 CSTA Over SIP (uaCSTA) Transport Mechanism Option

Refer to 2.5, “CSTA Over SIP (uaCSTA) Transport Mechanism Option”, on page 2 for information on the CSTA Over SIP (uaCSTA) Transport Mechanism option.

Description: Transport Option	Supported ?		Comments
	Yes	No	
CSTA Over SIP (uaCSTA) Transport			

Annex B

(normative)

Registration Template for application/CSTA+XML MIME Media Type

MIME media type name: application

MIME subtype name: csta+xml

Required parameters: (none)

Optional parameters: (none)

Encoding considerations:

This content type uses XML, employing UTF-8 character encoding.

Security considerations:

This content type is designed to carry information about users involved with communications which may be considered private information. For example, the identity of a calling party in a voice call. This content type is also designed to be used to control communication calls and communication devices such as telephones. Appropriate precautions should be taken to insure that applications observing and controlling communications and communication devices using CSTA are authorized to do so.

Interoperability considerations:

application/csta+xml documents are specified by the XML schemas standardized in ECMA-323.

Published specification:

The published Standard ECMA-323 is available at:

http://www.ecma-international.org/publications/standards/Ecma-323.htm

Applications which use this media type:

The application/csta+xml MIME type can be used to identify CSTA XML (ECMA-323) instance documents.

Additional information:

CSTA XML (ECMA-323) is an application level protocol that enables an application to control and observe communications involving various types of media (voice calls, video calls, instant messages, Email, SMS, Page, etc.) and devices associated with the media.

Person & email address to contact for further information:

Ecma International Helpdesk
Rue du Rhone 114
CH-1204 Geneva
Switzerland
helpdesk@ecma-international.org

Intended usage: common

Author/change controller:

The ECMA-323 Standard is developed and maintained by the Ecma TC32/TG11 Working Group.

Annex C

(normative)

CSTA Over SIP (uaCSTA) Transport Mechanism

This Annex specifies how:

- SIP is used to establish a CSTA Association
- CSTA service request, responses and event messages are transported over SIP

The uaCSTA transport mechanism uses the SIP INVITE and INFO methods to transport ECMA-323 messages provided in a SIP message body.

The SIP Content-type shall be application/csta+xml as specified in Annex I.

C.1 Establishing a CSTA Association

Before ECMA-323 service requests are sent to a SIP UA, a CSTA Association must be established between the application and the SIP UA.

ECMA-269 specifies a number of options for establishing a CSTA Association. This mechanism shall use the "Implicit Association created using CSTA Request System Status" option as described in 7.2 of ECMA-269.

The application shall create a CSTA Association by establishing a SIP dialog with the user agent using a SIP INVITE method that includes a Content-Disposition header indicating "signal" and "handling=required" to mandate support for the application/csta+xml MIME type.

The body of the SIP INVITE method shall contain an ECMA-323 Request System Status service request with the Content-Type application/csta+xml.

If the UA supports the application/csta+xml MIME type and can establish this CSTA Association, it shall respond to this SIP Invite with a 200 OK that includes an ECMA-323 Request System Status service response in the message body. The application shall send a SIP ACK to complete the dialog establishment.

If the UA does not support the application/csta+xml MIME type, the SIP UA must provide a 415 (Unsupported Media Type) response as defined in IETF RFC 3261.

When the SIP dialog terminates, the CSTA Association terminates with it.

A SIP BYE method may be used to terminate the dialog.

C.2 Transporting CSTA Service Requests, Responses, and Events

Once a SIP dialog has been created for the CSTA Association, ECMA-323 service requests shall be sent in the body of SIP INFO methods.

SIP INFO methods shall be sent on the SIP dialog created above.

An ECMA-323 (positive or negative) service response shall be provided in the body of a 200 OK method.

The SIP CSEQ header may be used to correlate CSTA resquests and responses.

ECMA-323 events shall be sent in the body of SIP INFO methods. The responses to these messages shall be SIP 200 OK with empty bodies.

Annex D

(normative)

ECMA-323 Specified Short Tags

This Annex specifies a fixed set of short tags that shall be used in instance documents when conforming to the Short Tags option specified in 2.4.2.

ECMA-323 Specified Tag	Alternative Short Tag
absolutePosition	aP
acceptCall	aC
AcceptCall	AC
AcceptCallResponse	ACR
acceptsMonitorStartWhileOOS	aMSW
accessCode	aCe
accountCode	acC
accountInfo	aI
acd	acd
acdCall	aCl
aCDDeviceAllowedInReq	aCDD
acdDeviceExclusiv	aDE
acdDeviceInclusiv	aDI
acdGroup	aG
acdModels	aM
ackModelMultiStep	aMMS
activate	actv
Activate	Actv
activateForward	aF
ActivateResponse	AR
activeCall	atC
activeCallConnected	aCC
activeCallHold	aCH
actualConnectionInfo	aCI
actualFilterList	aFL
actualMonitorFilter	aMF

actualMonitorMediaClass	aMMC
actualRouteingMediaClass	aRMC
actualRouteingMediaClassInAck	aRMCk
actualStatusFilter	aSF
addedParty	aPy
additionalReqForbidden	aRF
addressable	addr
advancedEndpointCallControlProfile	aECC
advancedEndpointDeviceProfile	aEDP
agentBusy	aB
AgentBusyEvent	ABE
agentDevice	aD
agentGroupInAck	aGIA
agentID	aID
agentInfo	aIo
agentInfoItem	aII
agentLoggedOff	aLO
AgentLoggedOffEvent	ALOE
agentLoggedOn	aLOn
AgentLoggedOnEvent	ALOEt
agentLogOnModels	aLOM
agentNotReady	aNR
AgentNotReadyEvent	ANRE
agentOriented	aO
agentPassword	aPd
agentReady	aR
AgentReadyEvent	ARE
agentState	aS
agentStateCondition	aSC
agentStateConditionForcedPauseInAck	aSCF
agentStateConditionPauseInAck	aSCP
agentStateEntry	aSE
agentStateList	aSL
agentStateListAgentIDInAck	aSLA
agentStateModels	aSM

agentWorkingAfterCall	aWAC
AgentWorkingAfterCallEvent	AWAC
alerting	alrt
alertingDevice	aDe
alertTime	aT
allAcks	aA
allEvents	aE
allIODevices	aIOD
allRouteingDevices	aRD
allServReqs	aSR
AlternateCall	ACl
alternateCall	alC
AlternateCallResponse	ACRe
alternateRoutes	aRs
answerCall	anC
AnswerCall	AnC
AnswerCallResponse	AnCR
answeringDevice	anD
appearance	appr
appearanceAddressable	aAe
appearanceList	aL
appearanceType	aTe
area0	a0
area1	a1
area2	a2
assistCall	asC
assocCalledDevice	aCD
assocCallingDevice	aCDe
AssociateData	AD
associateData	aDa
AssociateDataResponse	ADR
associatedCalledDevice	asCD
associatedCallingDevice	aoCD
associatedGroupList	aGL
associatedNID	aNID

attachMediaService	aMS
AttachMediaService	AMS
AttachMediaServiceResponse	AMSR
attribInAckAutoInterruptable	aIAA
attribInAckBabbleTimeout	aIAB
attribInAckCurrentGain	aIAC
attribInAckCurrentPosition	aIACn
attribInAckCurrentSpeed	aIACd
attribInAckCurrentState	aIACe
attribInAckCurrentVolumeAbs	aIACs
attribInAckDuration	aIAD
attribInAckEncodingAlgorithmADPCM6K	aI6K
attribInAckEncodingAlgorithmADPCM8K	aI8K
attribInAckEncodingAlgorithmALawPCM6K	aI6KK
attribInAckEncodingAlgorithmMuLawPCM6K	atI6K
attribInAckEndSilence	aIAE
attribInAckFilename	aIAF
attribInAckGrammars	aIAG
attribInAckInnerXML	aIAI
attribInAckInterdigitTimeout	aIAIt
attribInAckLanguage	aIAL
attribInAckMaxTimeout	aIAM
attribInAckMode	aIAMe
attribInAckPreflush	aIAP
attribInAckRejectionThreshold	aIAR
attribInAckRetainAudio	aIARo
attribInAckSamplingRate	aIAS
attribInAckSilenceTimeout	aIASt
attribToQueryAutoInterruptable	aTQA
attribToQueryBabbleTimeout	aTQB
attribToQueryCurrentLevel	aTQC
attribToQueryCurrentPosition	aTQCn
attribToQueryCurrentSpeed	aTQCd
attribToQueryCurrentState	aTQCe
attribToQueryCurrentVolume	atTQC

attribToQueryDuration	aTQD
attribToQueryEncodingAlgorithm	aTQE
attribToQueryEndSilence	aTQEe
attribToQueryFilename	aTQF
attribToQueryGrammars	aTQG
attribToQueryInnerXML	aTQI
attribToQueryInterdigitTimeout	aTQIt
attribToQueryLanguage	aTQL
attribToQueryMaxTimeout	aTQM
attribToQueryMode	aTQMe
attribToQueryPreflush	aTQP
attribToQueryRejectionThreshold	aTQR
attribToQueryRetainAudio	aTQRo
attribToQuerySamplingRate	aTQS
attribToQuerySilenceTimeout	aTQSt
attribute	attr
attributeToQuery	aTQ
attributeToSet	aTS
audio	ad
auditorityApparatus	aAs
auditoryApparatus	auA
auditoryApparatusItem	aAI
auditoryApparatusList	aAL
auditoryApparatusType	aAT
auditoryApparatusTypeHandset	aATH
auditoryApparatusTypeHeadset	aATHt
auditoryApparatusTypeother	aATr
auditoryApparatusTypeSpeakerOnlyPhone	aATS
auditoryApparatusTypeSpeakerphone	aATSe
authCode	auC
authorisatinonCode	ahC
autoAnswer	aAr
AutoAnswerEvent	AAE
autoAnswerOn	aAO
autoInterruptable	aIe

autoInterruptible	aul
autoOriginate	aOe
autoOriginateDoNotPrompt	aODN
autoOriginatePrompt	aOP
autoWorkInterval	aWI
autoWorkIntervalInAck	aWII
autoWorkMode	aWM
AutoWorkModeEvent	AWME
autoWorkOn	aWO
babbleTimeout	bT
backInService	bIS
BackInServiceEvent	BISE
basicBridged	bB
basicEndpointCallControlProfile	bECC
basicEndpointDeviceProfile	bEDP
basicStandard	bS
basicTelephonyProfile	bTP
beginningOfCDR	bOCD
billingID	bID
billingIndicatorCallDeflection	bICD
billingIndicatorCallForwarding	bICF
billingIndicatorCallTransfer	bICT
billingIndicatorCreditCardCharging	bICC
billingIndicatorNormalCharging	bINC
billingIndicatorOther	bIO
billingIndicatorReverseCharging	bIRC
bitRate	bR
bookmark	bkmr
bookmarkReached	bRd
BookmarkReachedEvent	BRE
bridged	brdg
bridgedAppearance	bA
bridgedConnection	bC
bridgedConnectionInfo	bCI
BridgedEvent	BE

button	bttn
buttonAssociatedNumber	bAN
buttonAssociatedNumberInAck	bANI
buttonAssociatedNumberSettable	bANS
buttonAssociatedNumberSettableInAck	bANSk
buttonFunction	bF
buttonFunctionInAck	bFIA
buttonInAck	bIA
buttonInformation	bI
ButtonInformationEvent	BIE
buttonItem	bIm
buttonLabel	bL
buttonLabelInAck	bLIA
buttonLabelSettable	bLS
buttonLabelSettableInAck	bLSI
buttonList	bLt
buttonPress	bP
ButtonPress	BP
ButtonPressEvent	BPE
buttonPressIndicator	bPI
ButtonPressResponse	BPR
call	call
callAssociated	cA
callAssociatedEvtsList	cAEL
callAssociatedServices	cAS
callAssociatedServList	cASL
callBack	cB
CallBack	CB
callBackCallRelated	cBCR
callbackConnection	cC
CallBackEvent	CBE
callBackList	cBL
callBackListItem	CBLI
callBackMessage	cBM
CallBackMessage	CBM

callBackMessageCallRelated	cBMC
callbackMessageConnection	cMC
CallBackMessageEvent	CBME
callBackMessage	cBM
callBackMessageIndicator	cBMI
CallBackMessageNonCallRelated	CBMN
CallBackMessageNonCallRelatedResponse	CBMNe
CallBackMessageResponse	CBMR
callBackMsgNonCallRel	cBMNl
callBackMsgSetCanceled	cBMS
callBackNonCallRel	cBNC
CallBackNonCallRelated	CBNC
callBackNonCallRelated	cBNCd
CallBackNonCallRelatedResponse	CBNCe
CallBackResponse	CBR
callBackSetCanceled	cBSC
callCharacteristics	cCs
callCharacteristicsACDCall	cCAC
callCharacteristicsAssistCall	cCACl
callCharacteristicsConfidentialCall	cCCC
callCharacteristicsDirectAgent	cCDA
callCharacteristicsEncryptedCall	cCEC
callCharacteristicsHighPriorityCall	cCHP
callCharacteristicsInAck	cCIA
callCharacteristicsLowPriorityCall	cCLP
callCharacteristicsMaintenanceCall	cCMC
callCharacteristicsPersonalCall	cCPC
callCharacteristicsPriorityCall	cCPCl
callCharacteristicsPrivateCall	caCPC
callCharacteristicsSensitiveCall	cCSC
callCharacteristicsSupported	cCS
callCharacteristicsVoiceUnitCall	cCVU
callCleared	cCd
CallClearedEvent	CCE
callCompletion	cCn

callcontrol	cllc
callControlEvtsList	cCEL
callControlServices	cCSs
callControlServList	cCSL
callDiversion	cD
calledDevice	cDe
calledDeviceInAck	cDIA
calledDirectoryNumber	cDN
callerIDProvided	cIDP
callerIDStatus	cIDS
CallerIDStatusEvent	CIDS
callForwarding	cF
callID	cID
callIdentifier	cI
callIDInConnectionID	cIDI
callIDOnly	cIDO
callInformation	cIn
CallInformationEvent	CIE
callingConnectionInfo	cCI
callingDevice	caD
callingDeviceInAck	cDIAk
callingDeviceList	cDL
callingDeviceListInAck	cDLI
callLinkageData	cLD
callLinkageDataList	cLDL
callLinkageFeatureSupported	cLFS
callLinkageIDTimestamp	cLID
callLinkageOptions	cLO
callMediaInfo	cMI
callObject	cO
callOnConnectionMonitorFilter	cOCM
callOnDeviceMonitorFilter	cODM
callOrigination	cOn
callOriginationExternal	cOE
callOriginationInternal	cOI

callOriginationParameter	cOP
callOriginExternInAck	cOEI
callOriginInternInAck	cOII
callOriginParameterInAck	cOPI
callQualifyingData	cQD
callsInFront	cIF
callToBeAccepted	cTBA
callToBeAnswered	cTBAd
callToBeCleared	cTBC
callToBeDiverted	cTBD
callToBeHeld	cTBH
callToBePickedUp	cTBP
callToBeRecorded	cTBR
callToBeRetrieved	cTBRd
CamponCall	CC
campOnCall	cOC
CamponCallResponse	CCR
camponConnection	caC
cancelCallBack	cCB
CancelCallBack	CCB
cancelCallBackMessage	cCBM
CancelCallBackMessage	CCBM
CancelCallBackMessageResponse	CCBMe
cancelCallBackMsg	cCBMg
CancelCallBackResponse	CCBR
cancelTelephonyTone	cTT
CancelTelephonyTones	CTT
cancelTelephonyTones	cTTs
CancelTelephonyTonesResponse	CTTR
capExchangeServList	cESL
carrier	crrr
cause	cs
cdrCrossRefID	cCRI
cdrInfo	cIo
cdrInformationItem	cII

CDRNotification	CDRN
cdrNotification	cN
CDRNotificationResponse	CDRNe
cdrReason	cR
cdrReasonOther	cRO
cdrReasonThresholdReached	cRTR
cdrReasonTimeout	cRT
CDRReport	CDRR
cdrReport	cRt
CDRReportResponse	CDRRe
cdrServList	cSL
cdrTermReason	cTR
cdrTermReasonEndOfData	cTRE
cdrTermReasonError	cTREr
cdrTermReasonOther	cTRO
cdrTermReasonThresholdReached	cTRT
ChangeConnectionInformation	CCI
changeConnectionInformation	cCIn
ChangeConnectionInformationResponse	CCIR
changeMonitorFilter	cMF
ChangeMonitorFilter	CMF
ChangeMonitorFilterResponse	CMFR
ChangeSysStatFilter	CSSF
ChangeSysStatFilterResponse	CSSFe
changeSystemStatusFilter	cSSF
characterSet	cS
characterSetASCII	cSAS
characterSetProprietary	cSP
characterSetUnicode	cSU
charactersToSend	cTS
chargedDevice	chD
chargedDeviceNonOperator	cDNO
chargedDeviceOperator	cDO
charging	chrg
ChargingEvent	CE

chargingInfo	chI
chargingMultiplierAHundredth	cMAH
chargingMultiplierATenth	cMAT
chargingMultiplierAThousandth	cMATh
chargingMultiplierHundred	cMH
chargingMultiplierOne	cMO
chargingMultiplierTen	cMT
chargingMultiplierThousand	cMTd
chargingUnits	cU
chargingUnitsRecord	cUR
chat	chat
clear	clr
Clear	Clr
clearCall	cCl
ClearCall	CCl
ClearCallResponse	CCRe
ClearConnection	CCn
clearConnection	clC
ClearConnectionResponse	ClCR
clearedCall	ceC
ClearResponse	CR
completed	cmpl
CompletedEvent	CEt
compoundCallState	cCSe
computerProvided	cP
concatenatedMessage	cM
ConcatenateMessage	CM
concatenateMessage	cMe
ConcatenateMessageResponse	CMR
concatenateMsg	cMg
conferenceCall	coC
ConferenceCall	CoC
conferenceCallInfo	cCIo
conferenceCallOnfoInAck	cCOI
ConferenceCallResponse	CoCR

conferenceConnections	cnC
conferenceConnectionsEndpointDeviceID	cCED
conferenceConnectionsresultingConnectionInfo	cCCI
conferenced	cnfr
conferencedCall	cfC
conferencedCallInAck	cCIAk
conferencedCallInfo	coCI
conferencedCallInfoInAck	cCII
ConferencedEvent	CoE
conferencing	cnfrg
conferencingDevice	coD
conferencingEndpointCallControlProfile	cECC
confidentialCall	ciC
connected	cnnc
connection	cnncn
connectionCleared	ccC
ConnectionClearedEvent	CCEt
connectionDuration	cDn
connectionEnd	cE
connectionID	cIDD
connectionIdentifier	cIr
connectionInfo	coI
connectionInformation	cnI
connectionList	cL
connectionListItem	cLI
connectionMode	coM
connectionModeBMap	cMBM
connectionModeConsultConference	cMCC
connectionModeConsultConferenceHold	cMCCd
connectionModeDeflect	cMD
connectionModeDirect	cMDt
connectionModeDirectedPickup	cMDP
connectionModeJoin	cMJ
connectionModeSingleStepConference	cMSS
connectionModeSingleStepConferenceHold	cMSSd

connectionModeSingleStepTransfer	cMSSr
connectionModeTransfer	cMTr
connectionParameterInAck	cPIA
connectionRate	cRe
connectionRateList	cRL
connectionRateListInAck	cRLI
connectionReservation	cRn
connections	cnncs
connectionsParameterInAck	cPIAk
connectionStart	cSt
connectionToBeChanged	cTBCd
connectionToBeCleared	coTBC
connectionToSendDigits	cTSD
connectionToSendTone	cTST
connectionToStopTone	cTSTe
connectionView	cV
ConsultationCall	CnC
consultationCall	csC
ConsultationCallResponse	CnCR
consultationConference	cCe
consultationConferenceHold	cCH
consultedDevice	cnD
consultOptionConferenceOnly	cOCO
consultOptionConsultOnly	cOCOy
consultOptions	cOs
consultOptionTransferOnly	cOTO
consultOptionUnrestricted	cOU
contents	cntn
contentsLength	cLh
contentsOfDisplay	cOD
contentTypeAndSubtype	cTAS
control	cntr
correlatorData	cDa
correlatorDataSupported	cDS
crossRefIdentifier	cRI

crossRefIDorSnapshotData	cRID
CSTAErrorCode	CSTA
currencyAmount	cAt
currencyMultiplier	cMr
currencyType	cT
currentGain	cG
currentPosition	cPn
currentRoute	cuR
currentSpeed	cSd
currentState	cSe
currentTime	cTe
currentVolume	cVe
currentVolumeAbs	cVA
currentVolumeInc	cVI
data	data
dataCollected	dC
DataCollected	DC
DataCollectedResponse	DCR
dataCollectionResumed	dCR
DataCollectionResumed	DCRd
DataCollectionResumedResponse	DCRR
dataCollectionServList	dCSL
dataCollectionSuspended	dCS
DataCollectionSuspended	DCS
DataCollectionSuspendedResponse	DCSR
dataCollectionTypeDigits	dCTD
dataCollectionTypeTones	dCTT
dataCollType	dCT
dataPathDirection	dPD
dataPathDirectionBidirectional	dPDB
dataPathDirectionCfToObject	dPDC
dataPathDirectionObjectToCf	dPDO
dataPathResumed	dPR
DataPathResumed	DPR
DataPathResumedResponse	DPRR

dataPathSuspended	dPS
DataPathSuspended	DPS
DataPathSuspendedResponse	DPSR
dataPathType	dPT
dataPathTypeText	dPTT
dataPathTypeVoice	dPTV
dcollcause	dcll
dcollCauseCharCountReached	dCCC
dcollCauseFushCharReceived	dCFC
dcollCauseSFTerminated	dCSF
dcollCauseTimeout	dCTt
dcollCrossRefID	dCRI
deactivate	dctv
Deactivate	Dctv
DeactivateResponse	DR
defaultAction	dA
defaultActionClearConnection	dACC
defaultActionRemainConnected	dARC
deflectCall	dCl
DeflectCall	DCl
DeflectCallResponse	DCRe
delayTolerance	dT
delayToleranceList	dTL
delayToleranceListInAck	dTLI
delayTransitionIfBusy	dTIB
delayTransitionIfWorkingAfterCall	dTIW
deleteMessage	dM
DeleteMessage	DM
DeleteMessageResponse	DMR
deleteMsg	dMg
delivered	dlvr
DeliveredEvent	DE
destinationActionClearConnection	dACCn
destinationActionRemainConnected	dARCd
destinationCondition	dCn

destinationConditionAnsweringMachine	dCAM
destinationConditionFax	dCF
destinationConditionHumanVoice	dCHV
destinationDetection	dD
destinationDevices	dDs
detachMediaService	dMS
DetachMediaService	DMS
DetachMediaServiceResponse	DMSR
detectionAction	dAn
detectionItem	dI
device	dvc
deviceAttributes	dAs
deviceCapabilityChanged	dCC
deviceCapsChanged	dCCd
DeviceCapsChangedEvent	DCCE
deviceCategory	dCy
deviceForMessage	dFM
deviceForMsg	dFMg
deviceForMsgInAck	dFMI
deviceHistory	dH
deviceHistoryInAck	dHIA
DeviceHistoryListItem	DHLI
deviceID	dID
deviceIdentifier	dIr
deviceIdentifiers	dIs
deviceIDFormat	dIDF
deviceIDOnly	dIDO
deviceInfo	dIo
deviceList	dL
deviceListDeviceAttributes	dLDA
deviceListDeviceCategory	dLDC
deviceListDeviceModelName	dLDM
deviceListNamedDeviceTypes	dLND
deviceListNidGroup	dLNG
deviceMaintEvtsList	dMEL

deviceMediaInfo	dMI
deviceModelName	dMN
deviceModelNameInAck	dMNI
deviceNumber	dN
deviceObject	dO
deviceOnCall	dOC
deviceOnConnectionMonitorFilter	dOCM
deviceOnDeviceMonitorFilter	dODM
deviceToJoin	dTJ
dialableDigitsABCD	dDAB
dialableDigitsAsterix	dDA
dialableDigitsAt	dDAt
dialableDigitsComma	dDC
dialableDigitsDollar	dDD
dialableDigitsExclamation	dDE
dialableDigitsHash	dDH
dialableDigitsP	dDP
dialableDigitsSemicolon	dDS
dialableDigitsT	dDT
dialableDigitsW	dDW
DialDigits	DD
dialDigits	diD
DialDigitsResponse	DDR
dialingConnection	diC
dialingConnectionInfo	dCI
dialingDevice	dDe
dialingSequence	dS
diallingConnection	daC
diallingConnectionInfo	dCIo
diallingSequence	dSe
digitDuration	dDn
digitDurationList	dDL
digitGeneratedList	dGL
digitMode	dMe
digitModeDTMF	dMDT

digitModePulse	dMP
digitsData	dDa
digitsDetected	dDd
digitsDialed	dgD
DigitsDialedEvent	DDE
digitsDuration	dtD
digitsDurationItem	dDI
digitsDurationList	dDLt
digitsGenerated	dG
DigitsGeneratedEvent	DGE
digitsPauseDuration	dPDn
digitsPauseDurationItem	dPDI
digitsReportingCriteria	dRC
digitsReportingCriteriaFlushChar	dRCF
digitsReportingCriteriaNumChars	dRCN
digitsReportingCriteriaTimeout	dRCT
direct	drct
directAgent	dAt
directedPickup	dP
directedPickupCall	dPC
DirectedPickupCall	DPC
DirectedPickupCallResponse	DPCR
disabled	dsbl
display	dspl
displayAttribOffset	dAO
displayAttribPhyBaseColumnNumber	dAPB
displayAttribPhyBaseRowNumber	dAPBr
displayAttribute	dAe
displayAttributes	diA
displayID	dIDD
displayList	dLt
displayListItem	dLI
displayUpdated	dU
DisplayUpdatedEvent	DUE
diverted	dvrt

DivertedEvent	DEt
divertingDevice	dvD
domain	dmn
doNotDisturb	dND
DoNotDisturbEvent	DNDE
doNotDisturbOn	dNDO
droppedConnection	drC
droppedConnectionInfo	drCI
dtmfChar	dCr
dtmfDetected	dmD
DtmfDetectedEvent	DDEt
dTMFDigitDetected	dTMF
duration	drtn
durationExceeded	dEd
dynamicFeatureSupported	dFS
email	eml
emptied	empt
EmptiedEvent	EE
enabled	enbl
encodingAlgorithm	eA
encodingAlgorithmADPCM6K	eA6K
encodingAlgorithmADPCM8K	eA8K
encodingAlgorithmALawPCM6K	eA6KK
encodingAlgorithmMuLawPCM6K	enA6K
encryptedCall	eC
endOfCDR	eOCD
endOfMessageDetected	eOMD
endpoint	endp
endpointDevice	eD
endpointDeviceID	eDID
endSilence	eS
errorValue	eV
ErrorValue	EV
escape	escp
Escape	Escp

escapeRegister	eR
EscapeRegister	ER
escapeRegisterAbort	eRA
EscapeRegisterAbort	ERA
escapeRegisterCancel	eRC
EscapeRegisterCancel	ERC
EscapeRegisterCancelResponse	ERCR
escapeRegisterID	eRID
EscapeRegisterResponse	ERR
EscapeResponse	ERe
established	estb
establishedConnection	eCn
establishedConnectionInfo	eCI
EstablishedEvent	EEt
eventCause	eCe
eventsProvided	eP
eventsProvidedBridged	ePB
eventsProvidedCallCleared	ePCC
eventsProvidedConferenced	ePC
eventsProvidedConnectionCleared	ePCCd
eventsProvidedDelivered	ePD
eventsProvidedDigitsDialed	ePDD
eventsProvidedDiverted	ePDd
eventsProvidedEstablished	ePE
eventsProvidedFailed	ePF
eventsProvidedHeld	ePH
eventsProvidedNetwCapsChanged	ePNC
eventsProvidedNetwReached	ePNR
eventsProvidedOffered	ePO
eventsProvidedOriginated	ePOd
eventsProvidedParameter	ePP
eventsProvidedQueued	ePQ
eventsProvidedRetrieved	ePR
eventsProvidedServiceInitiated	ePSI
eventsProvidedTransferred	ePT

exclusiveBridged	eB
existingCall	eCl
extCallsIncoming	eCIg
extCallsOutgoing	eCO
extensions	extn
external	extr
fail	fail
failed	fld
failedConnection	fC
failedConnectionInfo	fCI
FailedEvent	FE
failingDevice	fD
FastData	FD
fastData	fDa
FastDataResponse	FDR
filename	flnm
filterThreshold	fT
flowDirection	fDn
flowDirectionNone	fDN
flowDirectionReceive	fDR
flowDirectionTransmit	fDT
flowDirectionTransmitAndReceive	fDTA
flushChar	fCr
forwardDefault	fDt
forwardDefaultDN	fDDN
forwardDefaultDNInAck	fDDNk
forwardDefaultInAck	fDIA
forwardDefaultType	fDTe
forwardDefaultTypeAndDN	fDTAN
forwardDefaultTypeAndDNInAck	fDTAk
forwardDefaultTypeInAck	fDTI
forwardDN	fDNN
forwardDNInAck	fDNI
forwarding	frwr
ForwardingEvent	FEt

forwardingList	fL
forwardingType	fTe
forwardingTypeBusy	fTB
forwardingTypeBusyExt	fTBE
forwardingTypeBusyInt	fTBI
forwardingTypeDND	fTDN
forwardingTypeDNDExt	fTDNt
forwardingTypeDNDInt	foTDN
forwardingTypeImmediate	fTI
forwardingTypeImmExt	fTIE
forwardingTypeImmInt	fTII
forwardingTypeNoAns	fTNA
forwardingTypeNoAnsExt	fTNAt
forwardingTypeNoAnsInt	foTNA
forwardListBusyExtInAck	fLBE
forwardListBusyInAck	fLBI
forwardListBusyIntInAck	fLBIk
forwardListDNDExtInAck	fLDN
forwardListDNDInAck	fLDNk
forwardListDNDIntInAck	foLDN
forwardListImmediateInAck	fLII
forwardListImmExtInAck	fLIE
forwardListImmIntInAck	fLIIk
forwardListInAck	fLIA
forwardListItem	fLI
forwardListNoAnsExtInAck	fLNA
forwardListNoAnsInAck	fLNAk
forwardListNoAnsIntInAck	foLNA
forwardStatus	fS
forwardTo	fTo
gainReadable	gR
gainSettable	gS
genCallInfoForOutdatedConnID	gCIF
gender	gndr
genderFemale	gF

genderMale	gM
generateDigits	gD
GenerateDigits	GD
GenerateDigitsResponse	GDR
generateTelephonyTone	gTT
GenerateTelephonyTones	GTT
generateTelephonyTones	gTTs
GenerateTelephonyTonesResponse	GTTR
getAgentState	gAS
GetAgentState	GAS
GetAgentStateResponse	GASR
getAuditoryApparatusInfo	gAAI
GetAuditoryApparatusInformation	GAAI
GetAuditoryApparatusInformationResponse	GAAIe
getAutoAnswer	gAA
GetAutoAnswer	GAA
GetAutoAnswerResponse	GAAR
getAutoWorkMode	gAWM
GetAutoWorkMode	GAWM
GetAutoWorkModeResponse	GAWMe
getButtonInformation	gBI
GetButtonInformation	GBI
GetButtonInformationResponse	GBIR
GetCallBack	GCB
GetCallBackResponse	GCBR
getCallerIDStatus	gCID
GetCallerIDStatus	GCID
GetCallerIDStatusResponse	GCIDe
getCSTAFeatures	gCST
GetCSTAFeatures	GCST
GetCSTAFeaturesResponse	GCSTe
getDisplay	gDy
GetDisplay	GDy
GetDisplayResponse	GDRe
getDoNotDisturb	gDND

GetDoNotDisturb	GDND
GetDoNotDisturbResponse	GDNDe
GetForwarding	GF
getForwarding	gFg
GetForwardingResponse	GFR
getHookswitchStatus	gHS
GetHookswitchStatus	GHS
GetHookswitchStatusResponse	GHSR
getLampInfo	gLI
GetLampInformation	GLI
getLampInformation	gLIn
GetLampInformationResponse	GLIR
getLampMode	gLM
GetLampMode	GLM
GetLampModeResponse	GLMR
getLastNumberDialed	gLND
GetLastNumberDialed	GLND
GetLastNumberDialedResponse	GLNDe
getLogicalDeviceInformation	gLDI
GetLogicalDeviceInformation	GLDI
GetLogicalDeviceInformationResponse	GLDIe
getMessageWaitingIndicator	gMWI
GetMessageWaitingIndicator	GMWI
GetMessageWaitingIndicatorResponse	GMWIe
getMicrophoneGain	gMG
GetMicrophoneGain	GMG
GetMicrophoneGainResponse	GMGR
getMicrophoneMute	gMM
GetMicrophoneMute	GMM
GetMicrophoneMuteResponse	GMMR
getPhysicalDeviceInformation	gPDI
GetPhysicalDeviceInformation	GPDI
GetPhysicalDeviceInformationResponse	GPDIe
getRingerStatus	gRS
GetRingerStatus	GRS

GetRingerStatusResponse	GRSR
getRouteingMode	gRM
GetRouteingMode	GRM
GetRouteingModeResponse	GRMR
getSpeakerMute	gSM
GetSpeakerMute	GSM
GetSpeakerMuteResponse	GSMR
getSpeakerVolume	gSV
GetSpeakerVolume	GSV
GetSpeakerVolumeResponse	GSVR
getSwitchingFunctionCaps	gSFC
GetSwitchingFunctionCaps	GSFC
GetSwitchingFunctionCapsResponse	GSFCe
getSwitchingFunctionDevices	gSFD
GetSwitchingFunctionDevices	GSFD
GetSwitchingFunctionDevicesResponse	GSFDe
globalCallData	gCD
globalCallLinkageID	gCLI
globalCallSwitchingSubDomainName	gCSS
globallyUniqueCallLinkageID	gUCL
globallyUniqueThreadID	gUTI
grammarName	gN
grammars	grmm
group	grp
groupACD	gACD
groupDeviceAllowedInReq	gDAI
groupDeviceAttributes	gDA
groupExclusiveModel	gEM
groupHunt	gH
groupInclusivModel	gIM
groupPick	gP
groupPickupCall	gPC
GroupPickupCall	GPC
GroupPickupCallResponse	GPCR
groupUser	gU

hasLogicalElement	hLE
hasPhysicalElement	hPE
held	held
heldCall	hC
heldCallConnected	hCC
heldCallHold	hCH
heldConnection	hCn
heldConnectionInfo	hCI
HeldEvent	HE
highPriorityCall	hPC
hold	hold
HoldCall	HC
holdCall	hCl
holdCallMakeCall	hCMC
HoldCallResponse	HCR
holdingDevice	hD
hookswitch	hksw
HookswitchEvent	HEt
hookswitchID	hID
hookswitchOnHook	hOH
hookswitchSettable	hS
hookswitchStatusItem	hSI
hookswitchStatusList	hSL
hunt	hunt
ignoreUnsupportedParameters	iUP
im	im
image	img
independentSharedBridged	iSB
initializing	intl
initiated	intt
initiatedCall	iC
initiatedCallInfo	iCI
initiatedCallInfoInAck	iCII
initiatedConnection	iCn
initiatedConnectionInfo	iCIo

initiatingDevice	iD
innerXML	iXML
interDependentSharedBridged	iDSB
interdigitTimeout	iT
internal	intr
interruptionDetected	iDd
InterruptionDetectedEvent	IDE
intrude	intre
IntrudeCall	IC
intrudeCall	iCl
IntrudeCallResponse	ICR
intrusion	intrn
invokingDevice	iDe
ioCause	iCe
ioCauseCharCountReached	iCCC
ioCauseSfTerminated	iCST
ioCauseTerminationCharReceived	iCTC
ioCauseTimeout	iCT
ioCrossRefID	iCRI
ioCrossRefIDList	iCRIt
ioData	iDa
ioDevice	ioD
IORegister	IOR
ioRegister	iR
IORegisterAbort	IORA
ioRegisterAbort	iRA
IORegisterCancel	IORC
ioRegisterCancel	iRC
IORegisterCancelResponse	IORCe
ioRegisterReqID	iRRI
ioRegisterRequestID	iRRID
IORegisterResponse	IORR
iOServicesServList	iOSS
isForwardingAfter	iFA
isForwardingBefore	iFB

join	join
joinCall	jC
JoinCall	JC
JoinCallResponse	JCR
joiningDevice	jD
l1aVoiceBrowserProfile	l1aV
l1bVoiceBrowserProfile	l1bV
l2VoiceBrowserProfile	l2Vo
lamp	lamp
lampBrightness	lB
lampBrightnessBright	lBB
lampBrightnessDim	lBD
lampBrightnessNormal	lBN
lampColor	lC
lampColorBlue	lCB
lampColorGreen	lCG
lampColorInAck	lCIA
lampColorNoColor	lCNC
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lampColorReserved	lCRd
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lampColorSf91	lC91
lampColorSf92	lC92
lampColorSf93	lC93
lampColorSf94	lC94
lampColorYellow	lCY
lampID	lID
lampIsPresent	lIP
lampIsPresentInAck	lIPI
lampItem	lI
lampLabel	lL
lampLabelInAck	lLIA
lampList	lLt
lampMode	lM
lampModeBrokenFlutter	lMBF
LampModeEvent	LME
lampModeFlutter	lMF
lampModeInAck	lMIA
lampModeItem	lMI
lampModeList	lML
lampModeOff	lMO
lampModeReserved	lMR
lampModeSf0	lM0
lampModeSf1	lM1
lampModeSf10	lM10
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lampModeSf79	IM79

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lampModeSf90	lM90
lampModeSf91	lM91
lampModeSf92	lM92
lampModeSf93	lM93
lampModeSf94	lM94
lampModeSteady	lMS
lampModeWink	lMW
language	lngg
languagePreferences	lP
languagePreferencesInAck	lPIA
lastRedirectionDevice	lRD
lastSegment	lS
lastStoredCDRReportSent	lSCD
length	lngt
lengthOfReview	lOR
listOfLampsInAck	lOLI
locaConnectionStateInAck	lCSI
localCallState	lCS
localCallStateCompoundCallState	lCSC
localCallStateSimpleCallState	lCSS
localCallStateUnknown	lCSU
localConnectionInfo	lCI
localConnectionState	lCSe

logDevEvtsList	lDEL
logDevServList	lDSL
loggedOnState	lOS
logicalColumns	lCs
logicalDeviceFeature	lDF
logicalEvtsList	lEL
logicalRows	lR
logicalServList	lSL
logOnToACDDevice	lOTA
logOnToACDGroupExplOneStep	lOTAp
logOnToACDGroupExplTwoSteps	lOTAs
logOnToACDImplOneStep	loOTA
lowPriorityCall	lPC
maintainanceCall	mC
maintenance	mntn
MakeCall	MC
makeCall	mCl
MakeCallResponse	MCR
makePredictiveCall	mPC
MakePredictiveCall	MPC
MakePredictiveCallResponse	MPCR
manufacturerName	mN
maxActiveCalls	mAC
maxActiveCallsInAck	mACI
maxAutoAnswerRings	mAAR
maxAutoAnswerRingsInAck	mAARk
maxButtons	mB
maxButtonsInAck	mBIA
maxCallbacks	mCs
maxCallBacksInAck	mCBI
maxChannelBind	mCB
maxChannelBindInAck	mCBIk
MaxDeviceHistoryEntries	MDHE
maxDevicesInConf	mDIC
maxDevicesInConfInAck	mDICk

maxDisplays	mD
maxDisplaysInAck	mDIA
maxDuration	mDn
maxFwdSettings	mFS
maxFwdSettingsInAck	mFSI
maxHeldCalls	mHC
maxHeldCallsInAck	mHCI
maxLamps	mL
maxLampsInAck	mLIA
maxLengthParameters	mLP
maxLengthParametersCont	mLPC
maxRingPatterns	mRP
maxRingPatternsInAck	mRPI
maxTimeout	mT
mediaAccessDevice	mAD
mediaAttached	mA
MediaAttachedEvent	MAE
mediaAttachementServices	mAS
mediaAttachment	mAt
mediaCallCharacteristics	mCC
mediaCallCharacteristicsInAck	mCCI
mediaCharacteristicsAdjustable	mCA
mediaClass	meC
mediaClassSupport	mCS
mediaClassSupportInAck	mCSI
mediaConnection	mCn
mediaConnectionInfo	mCI
mediaConnectionInfoInAck	mCII
mediaDetached	mDd
MediaDetachedEvent	MDE
mediaDevice	mDe
mediaEvtsList	mEL
mediaServiceCapsItem	mSCI
mediaServiceCapsList	mSCL
mediaServiceInfoList	mSIL

mediaServiceInfoListInAck	mSILk
mediaServiceInformationList	mSILt
mediaServiceInstance	mSI
mediaServiceInstanceID	mSII
mediaServiceInstanceIDInAck	mSIIk
mediaServiceInstanceInAck	meSII
mediaServiceType	mST
mediaServiceVersion	mSV
mediaServiceVersionInAck	mSVI
mediaServList	mSL
mediaSessionInfo	mSIo
mediaStreamID	mSID
mediaStreamIDSupported	mSIDd
message	mssg
messageIDItem	mIDI
messageInfo	mI
messageInfoInAck	mIIA
messageInfoItem	mII
messageInformation	mIn
messageLost	mLt
messageSeqNumbers	mSN
messageSequenceNumber	mSNr
messagesToConcatenate	mTC
messageToBeDeleted	mTBD
messageToBePlayed	mTBP
messageToBeStopped	mTBS
messageToQuery	mTQ
messageToReposition	mTR
messageToResume	mTRe
messageToReview	mTRw
messageWaiting	mW
MessageWaitingEvent	MWE
messageWaitingOn	mWO
micGainAbs	mGA
micGainAbsInAck	mGAI

micGainInc	mGI
microphone	mcrp
microphoneGain	mG
microphoneGainAbs	mGAs
MicrophoneGainEvent	MGE
microphoneGainInc	mGIc
microphoneGainItem	mGIm
microphoneGainList	mGL
microphoneGainReadable	mGR
microphoneGainSettable	mGS
microphoneMute	mM
MicrophoneMuteEvent	MME
microphoneMuteItem	mMI
microphoneMuteList	mML
microphoneMuteOn	mMO
microphoneMuteReadable	mMR
microphoneMuteSettable	mMS
microphonePresent	mP
minimalEndpointCallControlProfile	mECC
miscMediaCallCharacteristics	mMCC
miscMonitorCaps	mMC
miscMonitorCapsInAck	mMCI
mms	mms
mode	mode
monitorCrossRefID	mCRI
monitorExistingCalls	mEC
monitorExistingCallsInAck	mECI
monitorFilterItems	mFI
monitoringServices	mS
monitoringServList	mSLt
monitorMediaClassAudio	mMCA
monitorMediaClassChat	mMCCt
monitorMediaClassData	mMCD
monitorMediaClassEmail	mMCE
monitorMediaClassIM	mMCIM

monitorMediaClassImage	mMCIe
monitorMediaClassMessage	mMCM
monitorMediaClassMMS	mMCMS
monitorMediaClassParameter	mMCP
monitorMediaClassSMS	mMCS
monitorMediaClassVoice	mMCV
monitorObject	mO
monitorObjectCall	mOC
monitorObjectDevice	mOD
monitorPhysicalElement	mPE
MonitorStart	MS
monitorStart	mSt
MonitorStartResponse	MSR
monitorStop	mSp
MonitorStop	MSp
MonitorStopResponse	MSRe
monitorType	mTe
monitorTypeCall	mTCl
monitorTypeDevice	mTD
moreCallBacksNegAck	mCBN
msgToBeStopped	mTBSd
msgToReposition	mTRn
msgToResume	msTR
msgToReview	mgTR
multipleDevices	mDs
multipleMsgsSimultaneously	mMSy
multiStage	mSe
multiState	muS
multiStateSemiIndependentLinked	mSSI
muteReadable	mR
muteSettable	mtS
name	name
namedDeviceTypeInAck	nDTI
namedDeviceTypes	nDT
namedDeviceTypesInAck	nDTIk

negativeAcknowledgment	nA
netwCalledDevice	nCD
netwCallingDevice	nCDe
netwCapsChanged	nCC
networkCalledDevice	neCD
networkCallingDevice	ntCD
networkCapabilitiesChange	nCCe
networkCapabilitiesChanged	nCCd
NetworkCapabilitiesChangedEvent	NCCE
networkCapability	nC
networkInterfaceUsed	nIU
networkReached	nR
NetworkReachedEvent	NRE
networkType	nT
netwReached	nRd
newCallLinkageData	nCLD
newConnection	nCn
newDestination	nD
nidGroup	nG
noCountAvailable	nCA
nodeNumber	nN
nodeNumberArea0	nN0
nodeNumberArea1	nN1
nodeNumberArea2	nN2
noListAvailable	nLA
nonAddressable	nAe
nonCallRelatedRouteing	nCRR
nonOperator	nO
nonVisibleACDRelatedDevices	nVAC
normal	nrml
normalCall	nCl
notKnown	nK
notRecognized	noR
NotRecognizedEvent	NREt
notRequired	ntR

notSettableWhileActive	nSWA
notSpecified	nS
null	null
numberDialed	nDd
numberOfChannels	nOC
numberOfChannelsInAck	nOCI
numberOfCharactersToCollect	nOCT
numberOfChargeUnits	nOCU
numberOfCharsToCollect	nOCTt
numberOfCharsToCollectInAck	nOCTk
numberOfCurrencyUnits	nOCUs
numberOfRecordsSent	nORS
numberOfRings	nOR
numberOfRingsInAck	nORI
numberQueued	nQ
numberUnits	nU
numberUnitsNumberOfChargingUnits	nUNO
numberUnitsNumberOfCurrencyUnits	nUNOs
numberUnitsTypeOfUnits	nUTO
numChars	nCs
object	objc
objectCall	oC
objectDevice	oD
octetStringFromSF	oSFS
octetStringToSF	oSTS
offered	offr
offeredConnection	oCn
offeredConnectionInfo	oCI
offeredDevice	oDe
OfferedEvent	OE
offHook	oH
offset	offs
oldCallLinkageData	oCLD
oldConnection	olC
oldConnectionID	oCID

oldDeviceID	oDID
operation	oprt
operator	oprtr
operatorDevice	opD
originated	orgn
originatedConnection	orC
originatedConnectionInfo	oCIo
OriginatedEvent	OEt
originatingDevice	orD
originatingNIDConnection	oNID
originatinNIDConnection	oNIDn
other	othr
otherDevicesPrimaryCallList	oDPC
otherDevicesSecondaryCallList	oDSC
otherDevsPrimaryCall	oDPCl
otherDevsPrimaryCallList	oDPCt
otherDevsSecondaryCall	oDSCl
otherDevsSecondaryCallList	oDSCt
otherLogicalDeviceList	oLDL
otherLogicalDeviceListInAck	oLDLk
otherPhysicalDeviceList	oPDL
otherTypeFromSF	oTFS
otherTypeToSF	oTTS
outboundConnection	ouC
outboundConnectionInfo	ouCI
outOfService	oOS
OutOfServiceEvent	OOSE
overConnection	ovC
overloadImminent	oI
overloadReached	oR
overloadRelieved	oRd
parkCall	pC
ParkCall	PC
ParkCallResponse	PCR
parkedTo	pT

parkedToInAck	pTIA
parking	prkn
parkTo	pTo
partiallyDisabled	pD
partiallyInService	pIS
PartiallyInServiceEvent	PISE
participationType	pTe
participationTypeActive	pTA
participationTypeSilent	pTS
password	pssw
pauseDuration	pDn
pauseDurationList	pDL
pauseTime	paT
pendingAgentState	pAS
pendingAgentStateInAck	pASI
pendingAgentStateNotReady	pASN
pendingAgentStateNotReadyInAck	pASNk
pendingAgentStateNull	pASNl
pendingAgentStateNullInAck	peASN
pendingAgentStateReady	pASR
pendingAgentStateWorkingAfterCall	pASW
pendingAgentStateWorkingAfterCallInAck	pASWk
performanceManagement	pM
periodOfReposition	pOR
periodOfRepositionEndOfMsg	pORE
periodOfRepositionRelativePointer	pORR
periodOfRepositionStartOfMsg	pORS
periodToResumeLengthOfReview	pTRL
periodToResumeStartOfMsg	pTRS
periodToReview	pTR
personalCall	pCl
physBaseRowNumber	pBRN
physColumnRowNumber	pCRN
physDevEvtsList	pDEL
physDevServList	pDSL

physicalBaseColumnNumber	pBCN
physicalBaseRowNumber	pBRNr
physicalColumns	pCs
physicalDeviceFeature	pDF
physicalRows	pR
pick	pick
pickedCall	piC
pickedCallInAck	pCIA
pickedCallInfo	pCI
pickedCallInfoInAck	pCII
pickGroup	pG
play	play
PlayEvent	PE
PlayMessage	PM
playMessage	pMe
PlayMessageResponse	PMR
playMsg	pMg
playVolume	pV
playVolumeAbs	pVA
playVolumeInc	pVI
preflush	prfl
present	prsn
primaryCall	prC
primaryCallConnectionInfo	pCCI
primaryOldCall	pOC
priority	prrt
priorityCall	poC
private	prvt
privateCall	pvC
privateData	pDa
privateDataFormat	pDFt
privateDataInAck	pDIA
privateDataInReq	pDIR
privateDataOctetString	pDOS
privateDataOctetStringInAck	pDOSk

privateDataVersion	pDV
privateDataVersionList	pDVL
privateDataVersionSelection	pDVS
PrivateDataVersionSelection	PDVS
privateDataVersionSelectionArgument	pDVSt
PrivateDataVersionSelectionResponse	PDVSe
privateErrorCode	pEC
privateEvent	pE
PrivateEvent	PEt
profiles	prfls
progressDescription	prD
progressDescriptionISDN	pDIS
progressDescriptionOther	pDO
progressDescriptionQSIG	pDQS
progressIndicator	pI
progressLocation	pL
progressLocationInternational	pLI
progressLocationLocal	pLL
progressLocationNetwBeyondInterworking	pLNB
progressLocationOther	pLO
progressLocationPrivateServLocal	pLPS
progressLocationPrivateServRemote	pLPSe
progressLocationPublicServLocal	pLPSl
progressLocationPublicServRemote	prLPS
progressLocationTransit	pLT
progressLocationUser	pLU
prompting	prmp
promptingMode	prM
protectedAgainstClearing	pAC
pulseRate	pRe
queryVoiceAttrib	qVA
QueryVoiceAttribute	QVA
queryVoiceAttribute	qVAe
QueryVoiceAttributeResponse	QVAR
queue	q

queued	qd
queuedConnection	qC
queuedConnectionInfo	qCI
QueuedEvent	QE
queueService	qS
QueueService	QS
QueueServiceResponse	QSR
reason	rsn
reasonForTerm	rFT
reasonForTermAbnormalTermination	rFTA
reasonForTermCallTransferred	rFTC
reasonForTermNormalClearing	rFTN
reasonForTermOther	rFTO
reasonForTermUnsuccessfulCallAttempt	rFTU
recall	rcll
recognized	rcgn
RecognizedEvent	RE
reconnectCall	rC
ReconnectCall	RC
ReconnectCallResponse	RCR
record	rcrd
recordCreationTime	rCT
recordedCall	rCl
RecordEvent	REt
recordGain	rG
recordingGain	rGn
recordMessage	rM
RecordMessage	RM
RecordMessageResponse	RMR
recordMsg	rMg
recordNumber	rN
rejectCause	rCe
rejectCauseBusyOverflow	rCBO
rejectCauseCalendarOverflow	rCCO
rejectCauseCapacityOverflow	rCCOw

rejectCauseQueueTimeOverflow	rCQT
rejectCauseUnknownOverflow	rCUO
rejectionThreshold	rT
rejectsRequestsWithOldConnectionID	rRWO
relativePosition	rP
releasingDevice	rD
remainRetries	rR
remainRetriesNoCountAvailable	rRNC
remainRetriesNoListAvailable	rRNL
remainRetriesRetryCount	rRRC
replyTimeout	rTt
reportsWithSnapsCallData	rWSC
reportsWithSnapsDeviceData	rWSD
reposition	rpst
Reposition	Rpst
RepositionResponse	RR
requestedAgentState	rAS
requestedAgentStateLoggedOff	rASL
requestedAgentStateLoggedOn	rASLn
requestedAgentStateNotReady	rASN
requestedAgentStateReady	rASR
requestedAgentStateWorkingAfterCall	rASW
requestedConnectionInfo	rCI
requestedConnectionState	rCS
requestedDeviceCategory	rDC
requestedDeviceCategoryACD	rDCA
requestedDeviceCategoryACDGroup	rDCAp
requestedDeviceCategoryGenericIV	rDCG
requestedDeviceCategoryHuntGroup	rDCH
requestedDeviceCategoryListenerIV	rDCL
requestedDeviceCategoryMessageIV	rDCM
requestedDeviceCategoryNetwInterface	rDCN
requestedDeviceCategoryOther	rDCO
requestedDeviceCategoryOtherGroup	rDCOp
requestedDeviceCategoryPark	rDCP

requestedDeviceCategoryPickGroup	rDCPp
requestedDeviceCategoryPromptIV	rDCPV
requestedDeviceCategoryPromptQueueIV	reDCP
requestedDeviceCategoryRouteingDevice	rDCR
requestedDeviceCategoryStation	rDCS
requestedDeviceCategoryUserGroup	rDCU
requestedDeviceCategoryVDTMFIV	rDCV
requestedDeviceCategoryVoiceUnit	rDCVt
requestedDeviceID	rDID
requestedFilterList	rFL
requestedMonitorFilter	rMF
requestedMonitorMediaClass	rMMC
requestedMonitorMediaClassAudio	rMMCo
requestedMonitorMediaClassChat	rMMCt
requestedMonitorMediaClassData	rMMCa
requestedMonitorMediaClassIM	rMMCM
requestedMonitorMediaClassImage	rMMCe
requestedMonitorMediaClassMMS	rMMCS
requestedMonitorMediaClassSMS	reMMC
requestedMonitorMediaClassVoice	rqMMC
requestedMonitorrMediaClassEmail	rMMCl
requestedMonitorrMediaClassMessage	ruMMC
requestedProtocolVersions	rPV
requestedRouteingMediaClass	rRMC
requestedStatusFilter	rSF
requestedStatusFilterDisabled	rSFD
requestedStatusFilterEnabled	rSFE
requestedStatusFilterInitializing	rSFI
requestedStatusFilterMessageLost	rSFM
requestedStatusFilterNormal	rSFN
requestedStatusFilterOverloadImminent	rSFO
requestedStatusFilterOverloadReached	rSFOd
requestedStatusFilterOverloadRelieved	reSFO
requestedStatusFilterPartiallyDisabled	rSFP
requestingDevice	rDe

requestSystemStatus	rSS
RequestSystemStatus	RSS
RequestSystemStatusResponse	RSSR
requestTypes	rTs
requestTypesRequestSystemStatus	rTRS
requestTypesSwitchingFuncionDevicesChanged	rTSF
requestTypesSwitchingFunctionCapsChanged	rTSFd
requestTypesSystemStatus	rTSS
reRoute	rRe
ReRoute	RRe
reservesCallingDevice	rCD
resettedAfterCall	rAC
resource	rsrc
restricted	rstr
result	rslt
resultingConnectionInfo	rCIo
resultingConnectionInformation	rCIn
resultingMessage	rMe
resultionConnectionInformation	reCI
resume	rsm
Resume	Rsm
ResumeDataCollection	RDC
resumeDataCollection	rDCn
ResumeDataCollectionResponse	RDCR
resumeDataPath	rDP
ResumeDataPath	RDP
ResumeDataPathResponse	RDPR
ResumeResponse	ReR
retainAudio	rA
RetrieveCall	RCl
retrieveCall	reC
RetrieveCallResponse	RCRe
retrieved	rtrv
retrievedConnection	rCn
retrievedConnectionInfo	rtCI

RetrievedEvent	ReE
retrievingDevice	reD
retryCount	rCt
review	rvw
Review	Rvw
reviewEvent	rE
ReviewEvent	RvE
ReviewResponse	RvR
ringCount	riC
ringCountInAck	rCIA
ringDuration	rDn
ringer	rngr
ringerModeNotRinging	rMNR
ringerModeRinging	rMR
ringerStatus	rS
RingerStatusEvent	RSE
ringerStatusItem	rSI
ringerStatusList	rSL
ringMode	riM
ringPattern	rPn
ringPatternInAck	rPIA
ringVolAbs	rVA
ringVolume	rV
ringVolumeAbs	rVAs
ringVolumeAbsInAck	rVAI
ringVolumeInAck	rVIA
ringVolumeInc	rVI
routeCallInfo	roCI
routedCall	roC
routedCallInfo	ruCI
routeEnd	rEd
RouteEnd	REd
routeingDevice	roD
RouteingEvent	RoE
routeingMode	roM

routeingProfile	rPe
routeingServices	rSs
routeingServList	rSLt
routeRegister	rRr
RouteRegister	RRr
routeRegisterAbort	rRA
RouteRegisterAbort	RRA
routeRegisterCancel	rRC
RouteRegisterCancel	RRC
RouteRegisterCancelResponse	RRCR
routeRegisterReqID	rRRI
RouteRegisterResponse	RRR
routeReject	rRt
RouteReject	RRt
routeRequest	roR
RouteRequest	RoR
routeSelAlgorithm	rSA
routeSelAlgorithmACD	rSAA
routeSelAlgorithmEmergency	rSAE
routeSelAlgorithmLeastCost	rSAL
routeSelAlgorithmNormal	rSAN
routeSelAlgorithmUserDefined	rSAU
RouteSelect	RS
routeSelect	rSt
routeSelected	rSd
routeUsed	rU
RouteUsed	RU
routeUsedReq	rUR
ruleName	rNe
samplingRate	sR
secondaryCall	sC
secondaryCallConnectionInfo	sCCI
secondaryOldCall	sOC
security	scrt
securityFormat	sF

securityInfo	sI
securityMode	sM
segmentID	sID
selectedRoute	sRe
selectedStandard	sS
sendBroadcastData	sBD
SendBroadcastData	SBD
SendBroadcastDataResponse	SBDR
sendData	sD
SendData	SD
SendDataResponse	SDR
SendMessage	SM
sendMessage	sMe
SendMessageResponse	SMR
sendMulticastData	sMD
SendMulticastData	SMD
SendMulticastDataResponse	SMDR
sendsDataPathResumed	sDPR
sendsDivertedToAll	sDTA
SendStoredCDR	SSCD
SendStoredCDRResponse	SSCDe
sendStoredCDRs	sSCD
sendUserInformation	sUI
SendUserInformation	SUI
SendUserInformationResponse	SUIR
sensitiveCall	sCl
serverTermReason	sTR
servEvtsList	sEL
serviceCompletionFailure	sCF
ServiceCompletionFailureEvent	SCFE
serviceCrossRefID	sCRI
serviceInitiated	sId
ServiceInitiatedEvent	SIE
servicesPermitted	sP
sessionID	sIDD

setAgentState	sAS
SetAgentState	SAS
SetAgentStateResponse	SASR
setAutoAnswer	sAA
SetAutoAnswer	SAA
SetAutoAnswerResponse	SAAR
setAutoWorkMode	sAWM
SetAutoWorkMode	SAWM
SetAutoWorkModeResponse	SAWMe
setButtonInformation	sBI
SetButtonInformation	SBI
SetButtonInformationResponse	SBIR
setCallerIDStatus	sCID
SetCallerIDStatus	SCID
SetCallerIDStatusResponse	SCIDe
setDisplay	sDy
SetDisplay	SDy
SetDisplayResponse	SDRe
setDoNotDisturb	sDND
SetDoNotDisturb	SDND
SetDoNotDisturbResponse	SDNDe
SetForwarding	SF
setForwarding	sFg
SetForwardingResponse	SFR
setHookswitchStatus	sHS
SetHookswitchStatus	SHS
SetHookswitchStatusResponse	SHSR
setLampMode	sLM
SetLampMode	SLM
SetLampModeResponse	SLMR
setMessageWaitingIndicator	sMWI
SetMessageWaitingIndicator	SMWI
SetMessageWaitingIndicatorResponse	SMWIe
setMicrophoneGain	sMG
SetMicrophoneGain	SMG

SetMicrophoneGainResponse	SMGR
setMicrophoneMute	sMM
SetMicrophoneMute	SMM
SetMicrophoneMuteResponse	SMMR
setMsgWaitingIndicator	sMWIr
setRingerStatus	sRS
SetRingerStatus	SRS
SetRingerStatusResponse	SRSR
setRouteingMode	sRM
SetRouteingMode	SRM
SetRouteingModeResponse	SRMR
setSpeakerMute	sSM
SetSpeakerMute	SSM
SetSpeakerMuteResponse	SSMR
setSpeakerVolume	sSV
SetSpeakerVolume	SSV
SetSpeakerVolumeResponse	SSVR
setVoiceAttrib	sVA
SetVoiceAttribute	SVA
setVoiceAttribute	sVAe
SetVoiceAttributeResponse	SVAR
sFReprEt	sFRE
sFReprExclamation	sFREn
sFReprGeneric	sFRG
sFReprImplicitTON	sFRI
sFReprNM	sFRN
sFReprOther	sFRO
sFReprPercent	sFRP
sFReprPriTONAbbreviated	sFRPd
sFReprPriTONLevel1	sF1
sFReprPriTONLevel2	sF2
sFReprPriTONLevel3	sF3
sFReprPriTONLocal	sFRPl
sFReprPriTONUnknown	sFRPn
sFReprPubTONAbbreviated	sFReP

sFReprPubTONInternal	sFRpP
sFReprPubTONNational	sFRrP
sFReprPubTONSubscriber	sFRPr
sFReprPubTONUnkown	sFRPu
sFReprSlash	sFRS
shortFormDeviceID	sFDI
shortFormDeviceIDInAck	sFDIk
signallingCondition	sCn
signallingConditionActionDestinationDetection	sCAD
signallingConditionActionRemainConnected	sCAR
signallingConditionCallDelivered	sCCD
signallingConditionCallEstablished	sCCE
signallingConditionsAction	sCA
signallingDetection	sDn
silenceTimeout	sT
silenceTimeoutExpired	sTE
SilenceTimeoutExpiredEvent	STEE
simpleCallState	sCS
simpleThreshold	sTd
singleStepConference	sSC
singleStepConferenceCall	sSCC
SingleStepConferenceCall	SSCC
SingleStepConferenceCallResponse	SSCCe
singleStepConferenceHold	sSCH
singleStepTransfer	sST
singleStepTransferCall	sSTC
SingleStepTransferCall	SSTC
SingleStepTransferCallResponse	SSTCe
sms	sms
SnapshotCall	SC
snapshotCall	snC
snapshotCallData	sCD
SnapshotCallData	SCD
SnapshotCallResponse	SCR
snapshotCallResponseInfo	sCRIo

snapshotData	sDa
snapshotDevice	sDe
SnapshotDevice	SDe
snapshotDeviceData	sDD
SnapshotDeviceData	SDD
SnapshotDeviceResponse	SnDR
snapshotDeviceResponseInfo	sDRI
snapshotObject	sO
snapshotServices	sSs
snapshotServList	sSL
speaker	spkr
speakerMute	spM
SpeakerMuteEvent	SME
speakerMuteItem	sMI
speakerMuteList	sML
speakerMuteOn	sMO
speakerMuteReadable	sMR
speakerMuteSettable	sMS
speakerPresent	sPt
speakerVolAbs	sVAs
speakerVolAbsInAck	sVAI
speakerVolume	sV
speakerVolumeAbs	spVA
SpeakerVolumeEvent	SVE
speakerVolumeInc	sVI
speakerVolumeItem	sVIm
speakerVolumeList	sVL
speakerVolumeReadable	sVR
speakerVolumeSettable	sVS
speechDetected	sDd
SpeechDetectedEvent	SDE
speed	spd
src	src
start	strt
Start	Strt

startCDRTransmission	sCDR
StartCDRTransmission	SCDR
StartCDRTransmissionResponse	SCDRe
startDataCollection	sDC
StartDataCollection	SDC
StartDataCollectionResponse	SDCR
startDataPath	sDP
StartDataPath	SDP
StartDataPathResponse	SDPR
startDTMFDigitsCollection	sDTM
started	strtd
StartedEvent	SE
startOfMessage	sOM
StartResponse	SR
startTelephonyTonesCollection	sTTC
stateIncompatibility	sIy
statusFilterDisabled	sFD
statusFilterEnabled	sFE
statusFilterInitializing	sFI
statusFilterMessageLost	sFML
statusFilterNormal	sFN
statusFilterOverloadImminent	sFOI
statusFilterOverloadReached	sFOR
statusFilterOverloadRelieved	sFORd
statusFilterPartiallyDisabled	sFPD
statusReportingServList	sRSL
stop	stop
Stop	Stop
stopCDRTransmission	sCDRn
StopCDRTransmission	SCDRn
StopCDRTransmissionResponse	StCDR
stopDataCollection	sDCn
StopDataCollection	SDCn
StopDataCollectionResponse	SDCRe
stopDataPath	sDPh

StopDataPath	SDPh
StopDataPathResponse	SDPRe
stopDTMFDigitsCollection	sDTMn
stopEvent	sE
StopEvent	SEt
StopResponse	SRe
stopTelephonyTonesCollection	sTTCn
string	strn
subDomainCallLinkageData	sDCL
subDomainCallLinkageID	sDCLD
subDomainThreadID	sDTI
subjectOfCall	sOCI
subjectOfCallInAck	sOCI
subscribedResourceAvailability	sRA
supplServiceInfo	sSI
supportAdjustment	sA
supportedEvents	sEs
supportedServices	suS
supportFailedWithAssConn	sFWA
supportFailedWithAssConnNotReportet	sFWAt
supportFailedWithoutAssConn	sFWAn
supportsAdjustmentOfMediaCharacteristics	sAOM
supportsAlternate	sAe
supportsClearing	sCg
supportsConference	sCe
supportsDTMFTonesABCD	sDTMD
supportsModifyingPosition	sMP
supportsOfferedModeOfAlerting	sOMO
supportsPauseToneChar	sPTC
supportsPrompting	sPg
supportsReceiving	sRg
supportsSending	sSg
suppServiceInfoCallCompletion	sSIC
suppServiceInfoCallDiversion	sSICn
suppServiceInfoCallForwarding	sSICg

suppServiceInfoConferencing	suSIC
suppServiceInfoConsultationCall	sSICl
suppServiceInfoIntrusion	sSII
suppServiceInfoNormalCall	sSIN
suppServiceInfoOther	sSIO
suppServiceInfoTransferCall	sSIT
suppServiceInfoUserUserInfo	sSIU
suspend	sspn
Suspend	Sspn
suspendDataCollection	suDC
SuspendDataCollection	SuDC
SuspendDataCollectionResponse	SuDCR
suspendDataPath	suDP
SuspendDataPath	SuDP
SuspendDataPathResponse	SuDPR
suspendPlay	sPy
SuspendPlayEvent	SPE
suspendRecord	sRd
SuspendRecordEvent	SRE
SuspendResponse	SuR
swAppearanceAddressability	sAAy
swAppearanceTypes	sAT
swDomainDefaultForMonitorTypeIsDevice	sDDF
swDomainFeatures	sDF
swFunctionCapsChanged	sFCC
SwFunctionCapsChanged	SFCC
SwFunctionCapsChangedResponse	SFCCe
swFunctionDefaultSettings	sFDS
swFunctionDevicesChanged	sFDC
SwFunctionDevicesChanged	SFDC
SwFunctionDevicesChangedResponse	SFDCe
swFunctionSupportsReceiving	sFSR
swFunctionSupportsSending	sFSS
switchingFunctionCapsChanged	sFCCd
SwitchingFunctionDevices	SFD

switchingFunctionDevices	sFDs
switchingFunctionDevicesChanged	sFDCd
switchingFunctionDevsChanged	swFDC
switchingFunctionSupportsReceiving	sFSRg
switchingFunctionSupportsSending	sFSSg
switchingSubDomainCCIEType	sSDC
switchingSubDomainInformationElements	sSDI
switchingSubDomainName	sSDN
switchProvided	sPd
synthesizedMessage	syM
SynthesizeMessage	SMe
synthesizeMessage	snM
SynthesizeMessageResponse	SMRe
synthesizeMsg	sMg
sysStatRegisterID	sSRI
systemRegister	sRr
SystemRegister	SRr
SystemRegisterAbort	SRA
SystemRegisterCancel	SRC
SystemRegisterCancelResponse	SRCR
SystemRegisterResponse	SRR
systemResourceAvailibility	sRAy
systemServices	syS
systemServList	sSLt
systemStatServList	sSSL
SystemStatus	SS
systemStatus	ssS
systemStatusDisabled	sSD
systemStatusEnabled	sSE
systemStatusInitializing	sSIg
systemStatusMessageLost	sSML
systemStatusNormal	sSN
systemStatusOverloadImminent	sSOI
systemStatusOverloadReached	sSOR
systemStatusOverloadRelieved	sSORd

systemStatusPartiallyDisabled	sSPD
systemStatusRegister	sSR
systemStatusRegisterAbort	sSRA
systemStatusRegisterCancel	sSRC
SystemStatusResponse	SSR
systemStatusTimer	sSTr
targetDevice	tD
targetDeviceInAck	tDIA
tariffTable	tT
tarifTable	tTe
telephonyTonesGenerated	tTG
TelephonyTonesGeneratedEvent	TTGE
telTonesData	tTD
termination	trmn
terminationChar	tC
terminationCharacter	tCr
terminationCharInAck	tCIA
terminationDTMFDigitDetected	tDTM
terminationDurationExceeded	tDE
terminationEndOfDataDetected	tEOD
terminationEndOfSpeechDetected	tEOS
terminationParameter	tP
terminationSpeech	tS
terminationSpeechDetected	tSD
text	text
textToBeSynthesized	tTBS
threadData	tDa
threadIDTimeStamp	tIDT
threadLinkageFeatureSupported	tLFS
threadLinkageID	tLID
threadSwitchingSubDomainName	tSSD
timeout	tmt
timeoutInAck	tIA
timePeriod	tPd
timeStamp	tSp

timeStampMode	tSM
toneDetected	tDd
toneDetectedBeep	tDB
toneDetectedBilling	tDBg
toneDetectedBusy	tDBy
toneDetectedCarrier	tDC
toneDetectedConfirmation	tDCn
toneDetectedDial	tDD
toneDetectedFaxCNG	tDFC
toneDetectedHold	tDH
toneDetectedHowler	tDHr
toneDetectedIntrusion	tDI
toneDetectedModemCNG	tDMC
toneDetectedOther	tDO
toneDetectedPark	tDP
toneDetectedRecordWarning	tDRW
toneDetectedReorder	tDR
toneDetectedRingback	tDRk
toneDetectedSf0	tD0
toneDetectedSf1	tD1
toneDetectedSf10	tD10
toneDetectedSf2	tD2
toneDetectedSf3	tD3
toneDetectedSf4	tD4
toneDetectedSf5	tD5
toneDetectedSf6	tD6
toneDetectedSf7	tD7
toneDetectedSf8	tD8
toneDetectedSf9	tD9
toneDetectedSilence	tDS
toneDetectedSitIC	tDSI
toneDetectedSitNC	tDSN
toneDetectedSitRO	tDSR
toneDetectedSitVC	tDSV
toneDuration	tDn

toneFrequency	tF
toneGenerated	tG
tonePauseDuration	tPD
toneToSend	tTS
toneToSendBeep	tTSB
toneToSendBilling	tTSBg
toneToSendBusy	tTSBy
toneToSendCarrier	tTSC
toneToSendConfirmation	tTSCn
toneToSendDial	tTSD
toneToSendFaxCNG	tTSF
toneToSendHold	tTSH
toneToSendHowler	tTSHr
toneToSendIntrusion	tTSI
toneToSendModemCNG	tTSM
toneToSendPark	tTSP
toneToSendRecordWarning	tTSR
toneToSendReorder	tTSRr
toneToSendRingback	tTSRk
toneToSendSf0	tT0
toneToSendSf1	tT1
toneToSendSf10	tT10
toneToSendSf100	tT100
toneToSendSf11	tT11
toneToSendSf12	tT12
toneToSendSf13	tT13
toneToSendSf14	tT14
toneToSendSf15	tT15
toneToSendSf16	tT16
toneToSendSf17	tT17
toneToSendSf18	tT18
toneToSendSf19	tT19
toneToSendSf2	tT2
toneToSendSf20	tT20
toneToSendSf21	tT21

toneToSendSf22	tT22
toneToSendSf23	tT23
toneToSendSf24	tT24
toneToSendSf25	tT25
toneToSendSf26	tT26
toneToSendSf27	tT27
toneToSendSf28	tT28
toneToSendSf29	tT29
toneToSendSf3	tT3
toneToSendSf30	tT30
toneToSendSf31	tT31
toneToSendSf32	tT32
toneToSendSf33	tT33
toneToSendSf34	tT34
toneToSendSf35	tT35
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toneToSendSf37	tT37
toneToSendSf38	tT38
toneToSendSf39	tT39
toneToSendSf4	tT4
toneToSendSf40	tT40
toneToSendSf41	tT41
toneToSendSf42	tT42
toneToSendSf43	tT43
toneToSendSf44	tT44
toneToSendSf45	tT45
toneToSendSf46	tT46
toneToSendSf47	tT47
toneToSendSf48	tT48
toneToSendSf49	tT49
toneToSendSf5	tT5
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toneToSendSf66	tT66
toneToSendSf67	tT67
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toneToSendSf69	tT69
toneToSendSf7	tT7
toneToSendSf70	tT70
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toneToSendSf73	tT73
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toneToSendSf78	tT78
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toneToSendSf95	tT95
toneToSendSf96	tT96
toneToSendSf97	tT97
toneToSendSf98	tT98
toneToSendSf99	tT99
toneToSendSilence	tTSS
toneToSendSitIC	tTSSC
toneToSendSitNC	toTSS
toneToSendSitRO	tTSSO
toneToSendSitVC	tnTSS
transAndConfSetup	tACS
transAndConfSetupAlternateInAck	tACSk
transAndConfSetupConsultationInAck	trACS
transAndConfSetupHoldMakeInAck	taACS
transAndConfSetupParameter	tACSr
transAndConfSetupTwoCallsConnectedInAck	tnACS
transAndConfSetupTwoCallsHoldInAck	tsACS
transfer	trns
TransferCall	TC
transferCall	tCl
TransferCallResponse	TCR
TransferedEvent	TE
transferMode	tM
transferModeTransferAtEndOfCall	tMTA
transferModeTransferOnRequest	tMTO

transferModeTransferOnThresholdReached	tMTOd
transferred	trnsd
transferredCall	trC
transferredCallInfo	tCI
transferredCallInfoInAck	tCII
transferredCollInfoInAck	tCIIk
transferredConnections	tCs
transferredConnectionsEndpointDeviceID	tCED
transferredConnectionsResultingConnectionInfo	tCRC
transferredTo	tTo
transferredToDevice	tTDe
transferringDevice	tDe
twoCallsInConnected	tCIC
twoCallsInHold	tCIH
typeOfChargingInfo	tOCI
typeOfChargingInfoSubTotal	tOCIl
typeOfChargingInfoTotal	tyOCI
typeOfNetworkISDNPrivate	tONI
typeOfNetworkISDNPublic	tONIc
typeOfNetworkNonISDNPrivate	tONN
typeOfNetworkNonISDNPublic	tONNc
typeOfNetworkOther	tONO
typeOfNumber	tON
typeOfUnits	tOU
unknown	unkn
unspecified	unsp
user	user
userData	uD
userSpecific	uS
userSpecificDefaultForwardDestination	uSDF
userSpecificDefaultFowardingType	uSDFe
userUserInfo	uUI
vendorSpecificEvtsList	vSEL
vendorSpecificServList	vSSL
visibleACDRelatedDevices	vACD

voice	vc
voiceAttribChanged	vAC
VoiceAttributeChangedEvent	VACE
voiceAttributesChanged	vACd
voiceErrorOccurred	vEO
VoiceErrorOccurredEvent	VEOE
voiceEvtsList	vEL
voiceServices	vS
voiceServList	vSL
voiceUnitCall	vUC
volAbs	vA
volInc	vI
volumeReadable	vR
volumeSettable	vSe

Annex E

(informative)

Examples of Device Identifier Element Encodings

This Annex illustrates how deviceIDs are encoded in the XML protocol.

The CSTA Device Identifiers (deviceIDs) element type is associated with many different parameters in CSTA services and events.

In order to enhance readibility, XML attributes are used to qualify the different possible types of deviceIDs.

E.1 Simple DeviceID (no attributes)

```
<csta:deviceID>4711</csta:deviceID>
```

E.2 DeviceID typed as a dialing number

```
<csta:deviceID typeOfNumber="dialingNumber">4711</csta:deviceID>
```

E.3 DeviceID typed as a device number

```
<csta:deviceID typeOfNumber="deviceNumber">100</csta:deviceID>
```

E.4 DeviceID typed as a explicit national number

```
<csta:deviceID typeOfNumber="explicitPublic:national">18005551212</csta:deviceID>
```

E.5 DeviceID typed as other type of numbering plan

```
<csta:deviceID typeOfNumber="other">abc=</csta:deviceID>
```

E.6 DeviceID media characteristics

```
<csta:deviceID mediaClass="voice audio other" switchingSubDomainCCIEType="isdn"
bitRate="variable">4711</csta:deviceID>
```

E.7 DeviceID including all attributes

```
<csta:deviceID typeOfNumber="implicitPublic" bitRate="constant" connectionRate="0"
delayTolerance="10" mediaClass="voice" switchingSubDomainCCIEType="isdn"
switchingSubDomainInformationElements="abcdef==">123456</csta:deviceID>
```

Annex F

(informative)

Examples of Connection ID Encodings

This Annex illustrates how connectionIDs are encoded in the XML protocol.

F.1 Fully Specified Connection ID

A CSTA connectionID, unless otherwise specified in ECMA-269, contains a callID and a deviceID portion. This is called a fully specified connectionID.

```
<camponConnection>
  <callID>1</callID>
  <deviceID>22222</deviceID>
</camponConnection>
```

F.2 CallID only ConnectionID

In some cases, as specified in ECMA-269, a callID-only connectionID can be used (e.g., Clear Call service).

```
<callToBeAnswered>
  <callID>1</callID>
</callToBeAnswered>
```

F.3 DeviceID only ConnectionID

In some cases, as specified in ECMA-269, a device-only connectionID can be used (e.g., Answer Call service).

```
<connectionToBeCleared>
  <deviceID>22222</deviceID>
</connectionToBeCleared>
```

Annex G

(informative)

Examples of CSTA-specific XML

This Annex illustrates examples of CSTA-specific information in XML instance documents.

G.1 Make Call service request - with only mandatory elements

This example illustrates a CSTA Make Call service with just the mandatory elements provided.

```
<?xml version="1.0" encoding="UTF-8"?>
<MakeCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <callingDevice>22343</callingDevice>
  <calledDirectoryNumber>18005551212</calledDirectoryNumber>
</MakeCall>
```

G.2 Make Call service request - with optional elements

This example illustrates some of the optional elements specified in the Make Call service.

```
<?xml version="1.0" encoding="UTF-8"?>
<MakeCall xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <callingDevice>22343</callingDevice>
  <calledDirectoryNumber>18005551212</calledDirectoryNumber>
  <accountCode>0001</accountCode>
  <authCode>0001</authCode>
  <autoOriginate>prompt</autoOriginate>
  <correlatorData>
    <string>0001</string>
  </correlatorData>
  <userData>
    <string>0001</string>
  </userData>
  <callCharacteristics>
    <priorityCall>true</priorityCall>
  </callCharacteristics>
  <mediaCallCharacteristics>
    <mediaClass>
      <voice>true</voice>
    </mediaClass>
  </mediaCallCharacteristics>
  <callingConnectionInfo>
    <flowDirection>transmitAndReceive</flowDirection>
    <numberOfChannels>2</numberOfChannels>
  </callingConnectionInfo>
  <extensions>
    <security>
      <messageSequenceNumber>123</messageSequenceNumber>
      <securityInfo>
        <string>0001</string>
```

```
      </securityInfo>
    </security>
    <privateData>
      <string>0001</string>
    </privateData>
  </extensions>
</MakeCall>
```


G.3 Make Call - Positive Acknowledgement

This example illustrates a positive acknowledgement to the Make Call service.


```
<?xml version="1.0" encoding="UTF-8"?>
<MakeCallResponse xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <callingDevice>
    <callID>1</callID>
    <deviceID>22343</deviceID>
  </callingDevice>
</MakeCallResponse>
```


G.4 Make Call - Negative Acknowledgement

This example illustrates a negative acknowledgement to the Make Call service.


```
<?xml version="1.0" encoding="UTF-8"?>
<CSTAErrorCode xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <operation>invalidCallingDeviceID</operation>
</CSTAErrorCode>
```


G.5 Delivered Event

This example illustrates a Delivered event.


```
<?xml version="1.0" encoding="UTF-8"?>
<DeliveredEvent xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <monitorCrossRefID>1<monitorCrossRefID>
  <connection>
    <callID>1</callID>
    <deviceID>33333</deviceID>
  </connection>
  <alertingDevice>
    <deviceIdentifier>33333</deviceIdentifier>
  </alertingDevice>
  <callingDevice>
    <deviceIdentifier>22222</deviceIdentifier>
  </callingDevice>
  <calledDevice>
    <deviceIdentifier>33333</deviceIdentifier>
  </calledDevice>
  <lastRedirectionDevice>
    <notRequired/>
  </lastRedirectionDevice>
  <cause>normal</cause>
</DeliveredEvent>
```

Annex H

(informative)

CSTA XML with SOAP

This Annex illustrates examples of CSTA XML instance documents using the Simple Object Access Protocol (SOAP). These examples do not assume that HTTP is used as the transport.

This Annex assumes multiple outstanding requests, therefore an invokeID is added to the SOAP Header to provide the necessary correlation information.

The type of invokeID may also be defined as XML Schema xsd:anyURI.

H.1 CSTA service request

This example illustrates a CSTA Make Call service with SOAP. The invokeID is provided in the SOAP header.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed43">
  <SOAP-ENV:Header>
    <invokeID xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4/invokeID">1</
invokeID>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <csta:MakeCall>
      <csta:callingDevice>4711</csta:callingDevice>
      <csta:calledDirectoryNumber>4712</csta:calledDirectoryNumber>
    </csta:MakeCall>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

H.2 CSTA service response (positive acknowledgement)

This example illustrates a positive acknowledgement to the Make Call service. The invokeID in the SOAP header can be used to correlate the response to the request.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <SOAP-ENV:Header>
    <invokeID xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4/invokeID">1</
invokeID>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <csta:MakeCallResponse>
      <csta:callingDevice>
        <csta:callID>1</callID>
        <csta:deviceID>22343</deviceID>
      </csta:callingDevice>
    </csta:MakeCallResponse>
```

```
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

H.3 CSTA service response (negative acknowledgement)

This example illustrates a negative acknowledgement to the Make Call service. The SOAP FAULT element is used to provide the error information. The invokeID in the SOAP header can be used to correlate the response to the request.

The faultcode indicates that the failure is due to incorrect information provided by the client. The CSTAErrorCode indicates that the error category is "Operation" and the specific error is "Invalid Called DeviceID".

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <SOAP-ENV:Header>
    <invokeID xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4/invokeID">1</
invokeID>
  </SOAP-ENV:Header>
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <SOAP-ENV:faultcode>Client</SOAP-ENV:faultcode>
      <SOAP-ENV:faultstring>CSTA Error</SOAP-ENV:faultstring>
      <SOAP-ENV:detail>
        <csta:CSTAErrorCode
        xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
          <csta:operation>invalidCalledDeviceID</csta:operation>
        </csta:CSTAErrorCode>
      </SOAP-ENV:detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

H.4 Delivered Event

This example illustrates a Delivered event.

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
 <SOAP-ENV:Body>
    <csta:DeliveredEvent>
      <csta:monitorCrossRefID>1</csta:monitorCrossrefID>
      <csta:connection>
        <csta:callID>1</csta:callID>
        <csta:deviceID>33333</csta:deviceID>
      </csta:connection>
      <csta:alertingDevice>
        <csta:deviceIdentifier>33333</csta:deviceIdentifier>
      </csta:alertingDevice>
      <csta:callingDevice>
        <csta:deviceIdentifier>22222</csta:deviceIdentifier>
      </csta:callingDevice>
      <csta:calledDevice>
```

```
      <csta:deviceIdentifier>33333</csta:deviceIdentifier>
    </csta:calledDevice>
    <csta:lastRedirectionDevice>
      <csta:notRequired/>
    </csta:lastRedirectionDevice>
    <csta:cause>csta:normal</csta:cause>
  </csta:DeliveredEvent>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Annex I

(informative)

CSTA XML with SOAP with HTTP

This Annex illustrates examples of CSTA XML instance documents using the Simple Object Access Protocol (SOAP) with HTTP.

This Annex assumes at most one request is outstanding, therefore header information to correlate requests with responses is not included in the examples.

I.1 CSTA service request

This example illustrates a CSTA Make Call service with SOAP and HTTP. The first group of lines represent the HTTP header information.

```
POST /anyserver HTTP/1.1
Host: anyweb.com
Content-Type: text/xml
Content-Length: nnn
SOAPAction: Makecall

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <SOAP-ENV:Body>
    <csta:MakeCall>
      <csta:callingDevice>4711</csta:callingDevice>
      <csta:calledDirectoryNumber>4712</csta:calledDirectoryNumber>
    </csta:MakeCall>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

I.2 CSTA service response (positive acknowledgement)

This example illustrates a positive acknowledgement to the Make Call service. The first group of lines represent the HTTP header information. The 200 response code indicates a successful response.

```
HTTP/1.1 200 OK
Content-Type: text/xml
Content-Length: nnnn

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
  <SOAP-ENV:Body>
    <csta:MakeCallResponse>
      <csta:callingDevice>
        <csta:callID>1</callID>
        <csta:deviceID>22343</deviceID>
      </csta:callingDevice>
    </csta:MakeCallResponse>
```

```
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

I.3 CSTA service response (negative acknowledgement)

This example illustrates a negative acknowledgement to the Make Call service. The SOAP FAULT element is used to provide the error information. The 500 response code indicates that the request failed.

```
HTTP/1.1 500 Internal Server Error
Content-Type: text/xml
Content-Length: nnnn

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">

  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <SOAP-ENV:faultcode>Client</SOAP-ENV:faultcode>
      <SOAP-ENV:faultstring>CSTA Error</SOAP-ENV:faultstring>
      <SOAP-ENV:detail>
        <csta:CSTAErrorCode
        xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
          <csta:operation>invalidCalledDeviceID</csta:operation>
        </csta:CSTAErrorCode>
      </SOAP-ENV:detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

I.4 Delivered Event

This example illustrates a Delivered event. For CSTA events, the SOAP proxy (in the client machine) becomes a type of SOAP server.

```
POST /anyserver HTTP/1.1
Host: anyweb.com
Content-Type: text/xml
Content-Length: nnn
SOAPAction: DeliveredEvent

<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
 <SOAP-ENV:Body>
    <csta:DeliveredEvent>
      <csta:monitorCrossRefID>1</csta:monitorCrossrefID>
      <csta:connection>
        <csta:callID>1</csta:callID>
        <csta:deviceID>33333</csta:deviceID>
      </csta:connection>
      <csta:alertingDevice>
        <csta:deviceIdentifier>33333</csta:deviceIdentifier>
      </csta:alertingDevice>
      <csta:callingDevice>
```

```
      <csta:deviceIdentifier>22222</csta:deviceIdentifier>
    </csta:callingDevice>
    <csta:calledDevice>
      <csta:deviceIdentifier>33333</csta:deviceIdentifier>
    </csta:calledDevice>
    <csta:lastRedirectionDevice>
      <csta:notRequired/>
    </csta:lastRedirectionDevice>
    <csta:cause>csta:normal</csta:cause>
  </csta:DeliveredEvent
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Annex J

(informative)

CSTA XML over TCP

This Annex illustrates how CSTA XML instance documents are transported over TCP/IP.

J.1 Message Format

Each XML instance message that is sent across a TCP/IP stream is preceded by a message prefix. This prefix consists of a two byte header and a two byte length component as illustrated below..

0	1	2	3	4 . . .
Header		Length		message body

- the header is two bytes. It indicates the format of the XML instance message. The following header formats are defined:
  - 00 - indicates that the message body consists of a CSTA XML instance message without SOAP. As illustrated in 2, the message body consists of an Invoke ID component followed by an XML instance message.
  - 01 - indicates that the message body consists of a SOAP enveloped CSTA XML instance message as illustrated in 3.
- the length is defined as the length of the full message, i.e., the length of the message body plus the length of the message prefix. The byte ordering is most significant byte first.

There is one XML instance message (CSTA service request, service response, or event) per TCP packet.

The XML instance message is encoded as ASCII text. White space and line feeds are allowed (and ignored) between XML statements.

J.2 TCP without SOAP

When TCP is used to transport a CSTA XML instance message without SOAP, a four byte Invoke ID is provided in order to correlate CSTA service request with response messages. This Invoke ID is provided in the message body that precedes the XML instance message as illustrated in the following figure.

0	1	2	3	4	5	6	7	8 . . .
0	0	Length		Invoke ID				XML message body

- Invoke ID is four bytes. It is used to correlate a CSTA service request with a service response. It is encoded as four ASCII numerical characters. A new Invoke ID is created in a CSTA service request message and is repeated in the corresponding service (postitive or fault) response message. A value of "9999" is used for CSTA events.

- XML Message Body. Examples of the XML message body content are provided in Annex D.

J.3 TCP with SOAP

When TCP is used to transport a CSTA XML instance message with SOAP, the message body consists of the SOAP enveloped CSTA XML instance message as illustrated in the following figure.

0	1	2	3	4 . . .
0	1	Length		SOAP XML message body

- SOAP XML Message - Examples of the SOAP XML message body content are provided in Annex E. Note that the Invoke ID is contained in the SOAP header as described in Annex E.

Annex K

(informative)

CSTA Data Type Schema for Encapsulation

This Annex specifies a schema for CSTA data types that can be used to encapulatate CSTA data objects so that they can be carried over various types of network protocols such as SIP.

A specific MIME media type, text/CSTA-type is designed to contain these data objects. The formats of the data types are specified in Clause 9.

K.1 CSTA Data Type Schema

The following is an example of an XML document that contains CSTA Call Linkage Information. This could be carried in the contents of a text/CSTA-type MIME data type in a SIP message, for example.

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema targetNamespace="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:csta="http://www.ecma-international.org/standards/ecma-323/csta/ed4"
elementFormDefault="qualified" attributeFormDefault="unqualified">
  <xsd:annotation>
    <xsd:documentation>CSTA-objects-for-encapsulation</xsd:documentation>
  </xsd:annotation>
  <xsd:include schemaLocation="call-control.xsd"/>
  <xsd:include schemaLocation="device-feature-types.xsd"/>
  <xsd:element name="CSTAObjectTypes">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element ref="csta:correlatorData" minOccurs="0"/>
        <xsd:element ref="csta:userData" minOccurs="0"/>
        <xsd:element ref="csta:callLinkageData" minOccurs="0"/>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>

</xsd:schema>
```

K.2 CSTA Data Type Example

The following is an example of an XML document that contains CSTA Call Linkage Information. This could be carried in the contents of a text/CSTA-type MIME data type in a SIP message, for example.

```
<?xml version="1.0" encoding="UTF-8"?>
<CSTAObjectTypes xmlns="http://www.ecma-international.org/standards/ecma-323/csta/ed4">
<callLinkageData>
    <globalCallData>
      <globalCallLinkageID>
        <globallyUniqueCallLinkageID>7652834615269898</globallyUniqueCallLinkageID>
      </globalCallLinkageID>
```

```
</globalCallData>
</callLinkageData>
</CSTAObjectTypes>
```

Annex L

(informative)

Registration Template for application/CSTAdata+XML MIME Media Type

MIME media type name: application

MIME subtype name: CSTAdata+XML

Required parameters: (none)

Optional parameters: (none)

Encoding considerations:

This content type uses XML, employing UTF-8 character encoding.

Security considerations:

This content type is designed to carry CSTA data types over network protocols. Appropriate precautions should be taken to insure that applications observing these CSTA objects are authorized to do so.

Interoperability considerations:

text/CSTA-type documents are specified by the XML schemas standardized in ECMA-323.

Published specification:

The published Standard ECMA-323 is available at:

http://www.ecma-international.org/publications/standards/Ecma-323.htm

Applications which use this media type:

The text/CSTA-type MIME type is used to carry CSTA data types specified in CSTA XML (ECMA-323) over various types of network protocols.

Additional information:

CSTA XML (ECMA-323) is an application level protocol that enables an application to control and observe communications involving various types of media (voice calls, video calls, instant messages, Email, SMS, Page, etc.) and devices associated with the media.

Person & email address to contact for further information:

Ecma International Helpdesk
Rue du Rhone 114
CH-1204 Geneva
Switzerland
helpdesk@ecma-international.org

Intended usage: common

Author/change controller:

The ECMA-323 Standard is developed and maintained by the Ecma TC32/TG11 Working Group.

Annex M

(informative)

Summary of changes in this edition

1. Changed target and CSTA Namespace from "http://www.ecma-international.org/standards/ecma-323/csta/ed3" to "http://www.ecma-international.org/standards/ecma-323/csta/ed4".
2. 2.4: Added conformance option for XML tag options
3. 2.5: Added conformance option for normative CSTA over SIP transport
4. 9.9: CallCharacteristics parameter type: added encryptedCall
5. 15.1.7: Clear Call service - added reason parameter
6. 15.1.18: Make Call service - added reason parameter
7. 16.1.1: Associate Data service - added deviceInfo parameter
8. 16.2.1: Call Information event - added deviceInfo parameter
9. 19.1.11, 19.2.9: Added ringDuration parameter to Get Ringer Status service, Ringer Status event, Get Forwarding service, Set Forwarding service, Forwarding event
10. 20.1.8: Get CallBack service - new
11. Annex A (PICS):
    a. Added Basic Speech Service and Advanced Speech Service profiles
    b. Added CSTA over SIP Transport option
    c. Added XML Tag Options
12. Annex E: Namespace added for invokeID element in examples. Clarified when header information (e.g. invokeID) is needed.
13. Annex F: Clarified when header information (e.g. invokeID) is not needed
14. Annex K: Normative CSTA Over SIP (uaCSTA) Transport Mechanism
15. Annex L: Added Short Tag Annex