

[MS-WORDSWCF]: Word Automation Services WCF Service Protocol Specification

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1 Introduction

This document specifies the Word Automation Services WCF Service Protocol that is used to convert documents from one file format to another file format.

1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

Coordinated Universal Time (UTC)
globally unique identifier (GUID)
Hypertext Transfer Protocol (HTTP)
Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)

The following terms are defined in [\[MS-OFCGLOS\]](#):

bookmark
conversion group
conversion item
conversion job
culture name
dictionary
document template
endpoint
external group
field
macro
partition
Portable Document Format (PDF)
result set
SOAP (Simple Object Access Protocol)
SOAP action
SOAP body
SOAP fault
stored procedure
SystemID
template
thumbnail
URI (Uniform Resource Identifier)
URL (Uniform Resource Locator)
WSDL (Web Services Description Language)
WSDL message
WSDL operation
XML namespace
XML namespace prefix
XML Paper Specification (XPS)
XML Schema

The following terms are specific to this document:

document property: A name/value pair that serves as metadata for a document.

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as described in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

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1.3 Protocol Overview (Synopsis)

This protocol allows a protocol client to create and manage a persistent queue of document conversions. It also allows the protocol client to initiate the conversion of documents in the queue from one file format to another file format. The protocol server maintains the queue and initiates conversions based on requests from a protocol client.

1.4 Relationship to Other Protocols

This protocol uses the **SOAP** message protocol for formatting request and response messages, as described in [\[SOAP1.1\]](#), [\[SOAP1.2/1\]](#) and [\[SOAP1.2/2\]](#). It transmits those messages by using **HTTP**, as described in [\[RFC2616\]](#), or **HTTPS**, as described in [\[RFC2818\]](#).

The following diagram shows the underlying messaging and transport stack that is used by the protocol:

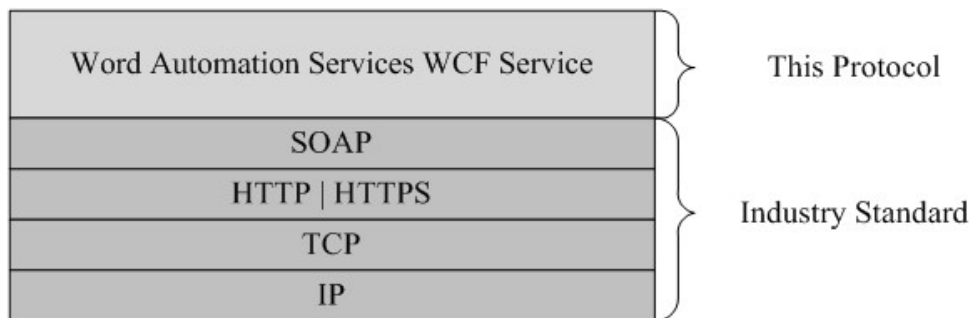
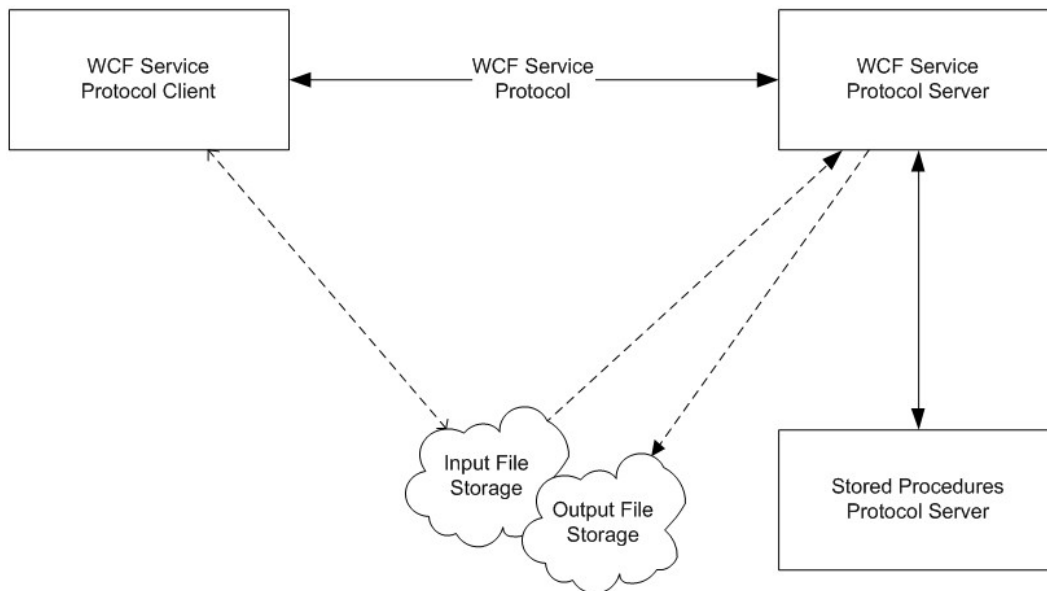


Figure 1: This protocol in relation to underlying messaging and transport stack protocols

Although the protocol server processes requests from the protocol client to create and manage a queue of **conversion jobs**, the protocol server uses the Word Automation Services Stored Procedures protocol defined in [\[MS-WORDSSP\]](#) to store the conversion job queue. Additionally, although the protocol server initiates the conversion of **conversion items** within the queue, this protocol does not specify the storage method of the input and output files.

The following diagram shows the relationship between this protocol and the database protocol. Dotted lines indicate interactions that are implementation-specific and not significant for interoperability in relation to these protocols.



1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint (4) URIs** that are known by protocol clients. The endpoint (4) URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [\[MS-SPTWS\]](#).

The protocol client obtains the requisite ApplicationClassId and ApplicationVersion values and the endpoint (4) URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either protocol.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server.

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [\[MS-SPSTWS\]](#).

This protocol assumes that the protocol client provides the input file and output file locations of a conversion item as **URLs** that are in a format that is understood by the protocol server.

1.6 Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are connected by high-bandwidth, low-latency network connections.

The protocol was designed to enable a protocol client to communicate with a protocol server to manage a queue of conversion jobs and initiates document conversions from one file format to another. The protocol server only performs actions in response to a request from the protocol client, which:

- Creates conversion jobs.
- Cancels conversion jobs.

- Provides access to the status of conversion jobs.
- Initiates the conversion of conversion items.

1.7 Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

- **Supported Transports:** This protocol can be implemented by using transports that support sending SOAP messages, as specified in section [2.1](#).
- **Protocol Versions:** This protocol is not versioned.

Capability Negotiation: This protocol does not support version negotiation.

1.8 Vendor-Extensible Fields

None.

1.9 Standards Assignments

None.

2 Messages

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The **WSDL** in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect protocol behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **present**, and **not null**.

2.1 Transport

Protocol servers **MUST** support SOAP over HTTP or HTTPS.

All protocol messages **MUST** be transported by using HTTP bindings at the transport level.

Protocol messages **MUST** be formatted as specified in either [\[SOAP1.1\]](#) section 4 or [\[SOAP1.2/1\]](#) section 5. Protocol server faults **MUST** be returned by using either HTTP status codes, as specified in [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified in [\[SOAP1.1\]](#) section 4.4 or [\[SOAP1.2/1\]](#) section 5.4.

If the HTTPS transport is used, a server certificate **MUST** be deployed.

This protocol **MAY** transmit an additional SOAP header, the **ServiceContext** header, as specified in [\[MS-SPSTWS\]](#).

This protocol does not define any means for activating a protocol server or protocol client. The protocol server **MUST** be configured and begin listening in an implementation-specific way. In addition, the protocol client **MUST** know the format and transport that is used by the protocol server, for example, the SOAP format over an HTTP transport.

2.2 Common Message Syntax

This section contains common definitions that are used by this protocol. The syntax of the definitions uses **XML Schema**, as specified in [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and WSDL, as specified in [\[WSDL\]](#).

2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific **XML namespace prefix** for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

Prefix	Namespace URI	Reference
wsdl	http://schemas.xmlsoap.org/wsdl/	[WSDL]
wsa10	http://www.w3.org/2005/08/addressing	[WSA1.0 Core] , [WSA1.0 SOAP Binding]
wsam	http://www.w3.org/2007/05/addressing/metadata	[WSA1.0 Metadata]
msc	http://schemas.microsoft.com/ws/2005/12/wsdl/contract	

Prefix	Namespace URI	Reference
soap	http://schemas.xmlsoap.org/wsdl/soap/	[SOAP1.1]
xsd	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
tns6	http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response	
tns26	http://schemas.microsoft.com/office/server/word/2009/08/service	
tns25	http://schemas.microsoft.com/office/server/word/2009/08/service/Imports	
tns24	http://schemas.microsoft.com/office/server/word/2009/08/getId/response	
tns27	http://tempuri.org/	
tns5	http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus	
tns21	http://schemas.microsoft.com/office/server/word/2009/08/getItems/response	
tns20	http://schemas.microsoft.com/office/server/word/2009/08/getItems	
tns23	http://schemas.microsoft.com/office/server/word/2009/08/getId	
tns22	http://schemas.microsoft.com/office/server/word/2009/08/convertBatch	
tns19	http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response	
tns4	http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response	
tns11	http://schemas.microsoft.com/2003/10/Serialization/Arrays	
tns1	http://schemas.microsoft.com/office/server/word/2009/08/ping/response	
tns12	http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response	
tns	http://schemas.microsoft.com/office/server/word/2009/08/ping	
tns2	http://schemas.microsoft.com/2003/10/Serialization/	
i0	http://schemas.microsoft.com/office/server/word/2009/08/service	
wsaw	http://www.w3.org/2006/05/addressing/wsdl	[WSA1.0 Core]
wsu	http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd	[WSS]
tns7	http://schemas.microsoft.com/office/server/word/2009/08/addJob	
wsa	http://schemas.xmlsoap.org/ws/2004/08/addressing	[SOAP1.1]
tns8	http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings	
tns18	http://schemas.microsoft.com/office/server/word/2009/08/getGroups	

Prefix	Namespace URI	Reference
tns9	http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions	
tns15	http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response	
tns14	http://schemas.microsoft.com/office/server/word/2009/08/submitJob	
tns17	http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response	
tns16	http://schemas.microsoft.com/office/server/word/2009/08/getJobs	
wsx	http://schemas.xmlsoap.org/ws/2004/09/mex	[WS-MetaDataExchange]
tns10	http://schemas.microsoft.com/office/server/word/2009/08/addGroup	
tns13	http://schemas.microsoft.com/office/server/word/2009/08/addItems	
soap12	http://schemas.xmlsoap.org/wsdl/soap12/	[SOAP1.2/1] [SOAP1.2/2]
tns3	http://schemas.microsoft.com/office/server/word/2009/08/cancelJob	
wsp	http://www.w3.org/ns/ws-policy	[WS-Policy]
xs	http://www.w3.org/2001/XMLSchema	[XMLSCHEMA1] [XMLSCHEMA2]
soapenc	http://schemas.xmlsoap.org/soap/encoding/	[SOAP1.1]
wsap	http://schemas.xmlsoap.org/ws/2004/08/addressing/policy	[SOAP1.1]

2.2.2 Messages

None.

2.2.3 Elements

The following table summarizes the set of common XML Schema element definitions defined by this specification. XML Schema element definitions that are specific to a particular operation are described with the operation.

Element	Description
ConversionJobSettings	Contains a collection of preferred settings for a conversion job.
GroupId	Uniquely identifies a conversion group within a conversion job.
JobId	Uniquely identifies a conversion job.
PartitionId	Identifies the partition (1) of a conversion job.
UserToken	Represents user credentials.

2.2.3.1 ConversionJobSettings (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings>)

The **ConversionJobSettings** element is a **ConversionJobSettings** (section [2.2.4.2](#)) value that specifies a collection of preferred settings for all conversion items within a conversion job.

```
<xs:element minOccurs="0" name="Settings" nillable="true"
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
type="q2:ConversionJobSettings"/>
```

2.2.3.2 GroupId

The **GroupId** element contains a 2-byte, signed integer value that identifies a conversion group within a conversion job, as follows:

- The value **MUST** be a non-negative integer.
- The value **MUST** be less than 32,768.
- The protocol client **MUST** specify a unique value for each conversion group within the same conversion job.

```
<xs:element minOccurs="0" name="GroupId" type="xs:short"/>
```

2.2.3.3 JobId

The **JobId** element contains an 8-byte, unsigned integer value that uniquely identifies a conversion job, as follows:

- The protocol client **MUST** specify a unique 8-byte value for each conversion job.
- When used with the **stored procedures, result sets** and XML structures specified in [\[MS-WORDSSP\]](#), the value **MUST** be represented as an 8-byte, signed integer value.

```
<xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
```

2.2.3.4 PartitionId

The **PartitionId** element contains a **guid** (section [2.2.5.9](#)) value identifying the partition (1) of a conversion job.

```
<xs:element minOccurs="0" name="PartitionId" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
```

2.2.3.5 UserToken

The **UserToken** element is a variable-length structure that represents a user, encoded as a **base64Binary** value. This structure specifies the **SystemID** for the user and the **external groups** of which the user is a member

```
<xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
```

The following table specifies the binary format of the user token.

0	1	2	3	4	5	6	7	8	9	1	0	1	2	3	4	5	6	7	8	9	2	0	1	2	3	4	5	6	7	8	9	3	0	1
Time																																		
...																																		
Size																																		
Magic1																																		
AuthenticationType																																		
UserSystemIdSize																																		
TokenGroupSize																																		
Magic2																																		
UserSystemId (variable)																																		
...																																		
TokenGroups (variable)																																		
...																																		

Time (8 bytes): An 8-byte, unsigned integer value specifying the time that this token was generated, stored as seconds since midnight, January 1, 1899, **Coordinated Universal Time (UTC)**.

Size (4 bytes): A 4-byte, unsigned integer value specifying the length of the **UserToken** structure in bytes.

Magic1 (4 bytes): A 4-byte, unsigned integer specifying the version of the **UserToken** structure. This version of the protocol **MUST** always use the value 0xEAEBEEEF.

AuthenticationType (4 bytes): A 4-byte, unsigned integer value specifying the authentication provider for the SystemID in the **UserSystemId** field. The following table specifies the allowable values for this field.

Value	Meaning
0x00000001	Windows Integrated Authentication

Value	Meaning
0x00000003	ASP.NET Forms Authentication

UserSystemIdSize (4 bytes): A 4-byte, unsigned integer value specifying the length of the **UserSystemId** field in bytes.

TokenGroupSize (4 bytes): A 4-byte, unsigned integer value specifying the length in bytes of the **TokenGroups** field.

Magic2 (4 bytes): A 4-byte, unsigned integer specifying the version of the **UserToken** structure. This version of the protocol MUST always use the value 0xDADBDEDF.

UserSystemId (variable): A variable-length field containing the serialized binary SystemID for the user. The length of this field is specified in the **UserSystemIdSize** field.

TokenGroups (variable): A variable-length field containing a Token Groups structure ([\[MS-WSSFO\]](#) section 2.2.4.4), which contains serialized binary SystemIDs for the external groups of which the user is a member. The length of this field is specified in the **TokenGroupsSize** field.

2.2.4 Complex Types

The following table summarizes the set of common XML Schema complex type definitions defined by this specification. XML Schema complex type definitions that are specific to a particular operation are described with the operation.

Complex Type	Description
ArrayOfString	An array of string values.
ConversionJobSettings	A collection of preferred settings for a conversion job.
FixedFormatSettings	A collection of preferred settings for a conversion job that has a preferred SaveFormat (section 2.2.5.8) value of PDF or XPS .

2.2.4.1 ArrayOfstring (from namespace <http://schemas.microsoft.com/2003/10/Serialization/Arrays>)

The **ArrayOfstring** complex type represents an array of arbitrary string values.

```
<xs:complexType name="ArrayOfstring">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

string: A single string value.

2.2.4.2 ConversionJobSettings (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings>)

The **ConversionJobSettings** complex type specifies a collection of preferred settings for all conversion items within a conversion job.

```
<xs:complexType name="ConversionJobSettings">
  <xs:sequence>
    <xs:element minOccurs="0" name="AddThumbnail" type="xs:boolean"/>
    <xs:element minOccurs="0" name="CompatibilityMode"
      xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q1:CompatibilityMode"/>
    <xs:element minOccurs="0" name="DefaultLanguageId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="DoNotEmbedSystemFonts" type="xs:boolean"/>
    <xs:element minOccurs="0" name="EmbedFonts" type="xs:boolean"/>
    <xs:element minOccurs="0" name="FixedFormatSettings" nillable="true"
      type="tns:FixedFormatSettings"/>
    <xs:element minOccurs="0" name="MarkupView"
      xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q2:MarkupTypes"/>
    <xs:element minOccurs="0" name="OutputFormat"
      xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q3:SaveFormat"/>
    <xs:element minOccurs="0" name="OutputSaveBehavior"
      xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q4:SaveBehavior"/>
    <xs:element minOccurs="0" name="RevisionState"
      xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q5:RevisionState"/>
    <xs:element minOccurs="0" name="SubsetEmbeddedFonts" type="xs:boolean"/>
    <xs:element minOccurs="0" name="UpdateFields" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

AddThumbnail: A Boolean value that specifies a preference to save the output file of a conversion item with an added **thumbnail**.

CompatibilityMode: A **CompatibilityMode** (section [2.2.5.2](#)) value that specifies the preferred compatibility mode of the output file of a conversion item.

DefaultLanguageId: A string value that specifies the preferred **culture name** to use when resolving language-dependent ambiguities when saving the output file of a conversion item.

DoNotEmbedSystemFonts: A Boolean value that specifies a preference for common fonts to not be saved within the output file of a conversion item.

EmbedFonts: A Boolean value that specifies a preference for fonts used within the document to be obfuscated and saved within the output file of a conversion item.

FixedFormatSettings: A **FixedFormatSettings** (section [2.2.4.3](#)) element that specifies a collection of preferred settings for all conversion items within a conversion job that has a preferred **SaveFormat** (section [2.2.5.8](#)) value of **PDF** or **XPS**.

MarkupView: A **MarkupTypes** (section [2.2.5.5](#)) value that specifies the preferred markup types in the output file of a conversion item.

OutputFormat: A **SaveFormat** (section [2.2.5.8](#)) value that specifies the preferred file format of the output file of a conversion item.

OutputSaveBehavior: A **SaveBehavior** (section [2.2.5.7](#)) value that specifies the preferred overwrite behavior of the output file of a conversion item when the output file already exists.

RevisionState: A **RevisionState** (section [2.2.5.6](#)) value that specifies the preferred visibility of revision marking and comments in the output file of a conversion item.

SubsetEmbeddedFonts: A Boolean value that specifies a preference to only save characters required for a document when saving embedded fonts in the output file of a conversion item.

UpdateFields: A Boolean value that specifies a preference to automatically update **fields (3)** when saving the output file of a conversion item.

2.2.4.3 FixedFormatSettings (from namespace

<http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings>)

The **FixedFormatSettings** complex type specifies a collection of preferred settings for the output file all conversion items within a conversion job that has a preferred **SaveFormat** (section [2.2.5.8](#)) value of **PDF** or **XPS**.

```
<xs:complexType name="FixedFormatSettings">
  <xs:sequence>
    <xs:element minOccurs="0" name="BalloonState"
      xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q6:BalloonState"/>
    <xs:element minOccurs="0" name="BitmapEmbeddedFonts" type="xs:boolean"/>
    <xs:element minOccurs="0" name="Bookmarks"
      xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q7:FixedFormatBookmark"/>
    <xs:element minOccurs="0" name="IncludeDocumentProperties" type="xs:boolean"/>
    <xs:element minOccurs="0" name="IncludeDocumentStructure" type="xs:boolean"/>
    <xs:element minOccurs="0" name="OutputQuality"
      xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
      type="q8:FixedFormatQuality"/>
    <xs:element minOccurs="0" name="UsePDFa" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

BalloonState: A **BalloonState** (section [2.2.5.1](#)) value that specifies the preferred visibility of markup balloons in the output file of a conversion item.

BitmapEmbeddedFonts: A Boolean value that specifies a preference to rasterize fonts when they cannot be embedded in the output file of a conversion item.

Bookmarks: A **FixedFormatBookmark** (section [2.2.5.3](#)) value that specifies the preferred **bookmarks** to be created in the output file of a conversion item.

IncludeDocumentProperties: A Boolean value that specifies a preference to include **document properties** in the output file of a conversion item.

IncludeDocumentStructure: A Boolean value that specifies a preference to include document structure tags in the output file of a conversion item.

OutputQuality: A **FixedFormatQuality** (section [2.2.5.4](#)) value that specifies the preferred quality of the output file of a conversion item.

UsePDFA: A Boolean value that specifies a preference to use the PDF/A format defined in [\[ISO-19005-1\]](#) for the output file all conversion items within a conversion job that has a preferred **SaveFormat** (section [2.2.5.8](#)) value of **PDF**.

2.2.5 Simple Types

The following table summarizes the set of common XML Schema simple type definitions defined by this specification. XML Schema simple type definitions that are specific to a particular operation are described with the operation.

Simple Type	Description
BalloonState	The preferred visibility of markup balloons in the output file of a conversion item in a conversion job with a preferred SaveFormat (section 2.2.5.8) value of PDF or XPS .
CompatibilityMode	The preferred compatibility mode of the output file of a conversion item.
FixedFormatBookmark	The preferred bookmarks to be created in the output files of a conversion item in a conversion job with a preferred SaveFormat (section 2.2.5.8) value of PDF or XPS .
FixedFormatQuality	The preferred quality of the output file of a conversion item in a conversion job with a preferred SaveFormat (section 2.2.5.8) value of PDF or XPS .
MarkupTypes	A list of preferred markup types for the output file of a conversion item.
RevisionState	The preferred visibility of revision marking and comments in the output file of a conversion item.
SaveBehavior	The preferred overwrite behavior of the output file of a conversion item.
SaveFormat	The preferred file format of the output file of a conversion item.
guid	Represents a GUID or unique identifier.

2.2.5.1 BalloonState (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A string value specifying the preferred visibility of markup balloons in the output file of a conversion item in a conversion job with a preferred **SaveFormat** (section [2.2.5.8](#)) value of **PDF** or **XPS**.

```
<xs:simpleType name="BalloonState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AlwaysUse"/>
    <xs:enumeration value="Inline"/>
    <xs:enumeration value="OnlyCommentsAndFormatting"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for BalloonState:

Value	Meaning
AlwaysUse	Display all revision marking and comments in balloons.
Inline	Display all revision marking and comments inline.
OnlyCommentsAndFormatting	Display only comments and formatting revisions in markup balloons and other revision marking inline.

2.2.5.2 CompatibilityMode (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A string value specifying the preferred compatibility mode of the output file of a conversion item.

```
<xs:simpleType name="CompatibilityMode">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Word2003"/>
    <xs:enumeration value="Word2007"/>
    <xs:enumeration value="Word2010"/>
    <xs:enumeration value="MaintainCurrentSetting"/>
    <xs:enumeration value="Current"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for CompatibilityMode:

Value	Meaning
Word2003	Compatible with features defined in [MS-DOC] .
Word2007	Compatible with word processing features specified in [ECMA-376] .
Word2010	Compatible with word processing features specified in [ISO/IEC-29500-1] and [ISO/IEC-29500-4] as well as those specified in [MS-DOCX] .
MaintainCurrentSetting	Maintain the compatibility mode of the input file.
Current	Use the latest compatibility mode of the protocol server.

2.2.5.3 FixedFormatBookmark (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A string value specifying the preferred creation of bookmarks in the output file of a conversion item in a conversion job with a preferred **SaveFormat** (section [2.2.5.8](#)) value of **PDF** or **XPS**.

```
<xs:simpleType name="FixedFormatBookmark">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="Headings"/>
    <xs:enumeration value="Bookmarks"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for FixedFormatBookmark:

Value	Meaning
None	Create no bookmarks.
Headings	Create bookmarks from the headings in the input file.
Bookmarks	Create bookmarks from the bookmarks in the input file.

2.2.5.4 FixedFormatQuality (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A string value specifying the preferred quality of the output file of a conversion item in a conversion job with a preferred **SaveFormat** (section [2.2.5.8](#)) value of **PDF** or **XPS**.

```
<xs:simpleType name="FixedFormatQuality">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Standard"/>
    <xs:enumeration value="Minimum"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for FixedFormatQuality:

Value	Meaning
Standard	Optimize quality for printing.
Minimum	Optimize quality for online viewing.

2.2.5.5 MarkupTypes (from namespace <http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A list of string values specifying the preferred markup types to display in the output file of a conversion item.

```
<xs:simpleType name="MarkupTypes">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Comments"/>
        <xs:enumeration value="Ink"/>
        <xs:enumeration value="Text"/>
        <xs:enumeration value="Formatting"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for MarkupTypes:

Value	Meaning
Comments	Display comments.
Ink	Display ink annotations.
Text	Display content revisions.
Formatting	Display formatting revisions.

2.2.5.6 RevisionState (from namespace

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A string value specifying the preferred visibility of revision marking and comments in the output file of a conversion item.

```
<xs:simpleType name="RevisionState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Final"/>
    <xs:enumeration value="FinalShowingMarkup"/>
    <xs:enumeration value="Original"/>
    <xs:enumeration value="OriginalShowingMarkup"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for RevisionState:

Value	Meaning
Final	Display the final document without revision marking and comments.
FinalShowingMarkup	Display the final document with revision marking and comments.
Original	Display the original document without revision marking and comments.
OriginalShowingMarkup	Display the original document with revision marking and comments.

2.2.5.7 SaveBehavior (from namespace

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A string value specifying the preferred overwrite behavior of the output file of a conversion item when the output file already exists.

```
<xs:simpleType name="SaveBehavior">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AppendIfPossible"/>
    <xs:enumeration value="AlwaysOverwrite"/>
    <xs:enumeration value="AppendOnly"/>
    <xs:enumeration value="NeverOverwrite"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for SaveBehavior:

Value	Meaning
AppendIfPossible	If the output file location supports version history, append to the file's version history. If the output file location does not support version history, overwrite the existing file.
AlwaysOverwrite	Always overwrite the existing file.
AppendOnly	If the output file location supports version history, append to the file's version history. If the output file location does not support version history, do not save the output file.
NeverOverwrite	Never overwrite an existing file.

2.2.5.8 SaveFormat (from namespace

<http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions>)

A string value specifying the preferred file format of the output file of a conversion item.

```
<xs:simpleType name="SaveFormat">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Automatic"/>
    <xs:enumeration value="Document"/>
    <xs:enumeration value="DocumentMacroEnabled"/>
    <xs:enumeration value="Document97"/>
    <xs:enumeration value="Template"/>
    <xs:enumeration value="TemplateMacroEnabled"/>
    <xs:enumeration value="Template97"/>
    <xs:enumeration value="MHTML"/>
    <xs:enumeration value="PDF"/>
    <xs:enumeration value="RTF"/>
    <xs:enumeration value="XML"/>
    <xs:enumeration value="XPS"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for SaveFormat:

Value	Meaning
Automatic	Automatically determined based on the file extension.
Document	Office Open XML document. For more information, see [ECMA-376] , [ISO/IEC-29500-1] , [ISO/IEC-29500-4] and [MS-DOCX] .
DocumentMacroEnabled	Office Open XML document with macros enabled. For more information, see [ECMA-376] , [ISO/IEC-29500-1] , [ISO/IEC-29500-4] , [MS-DOCX] , [MS-OFFMACRO] , and [MS-OFFMACRO2] .
Document97	Word Binary File Format document. For more information, see [MS-DOC] .
Template	Office Open XML document template . For more information, see [ECMA-376] , [ISO/IEC-29500-1] , [ISO/IEC-29500-4] and [MS-DOCX] .
TemplateMacroEnabled	Office Open XML document template with macros enabled. For more information, see [ECMA-376] , [ISO/IEC-29500-1] , [ISO/IEC-29500-4] , [MS-

Value	Meaning
	DOCX], [MS-OFFMACRO], and [MS-OFFMACRO2]
Template97	Word Binary File Format document template (1) . For more information, see [MS-DOC].
MHTML	Single file web page. For more information, see [RFC2557] .
PDF	Portable Document Format (PDF) file. For more information, see [ISO-19005-1] .
RTF	Rich Text Format (RTF). For more information, see [MS-RTF] .
XML	Word XML document.
XPS	XML Paper Specification (XPS) file. For more information, see [MSFT-XPS] .

2.2.5.9 guid (from namespace <http://schemas.microsoft.com/2003/10/Serialization/>)

A string representing a GUID or unique identifier.

```
<xs:simpleType name="guid">
  <xs:restriction base="xs:string">
    <xs:pattern value="\da-fA-F}{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
```

2.2.6 Attributes

This specification does not define any common XML Schema attribute definitions.

2.2.7 Groups

This specification does not define any common XML Schema group definitions.

2.2.8 Attribute Groups

This specification does not define any common XML Schema attribute group definitions.

3 Protocol Details

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect protocol behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **present**, and **not null**.

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls that are made by the higher-layer protocol or application are passed directly to the transport, and the results that are returned by the transport are passed directly to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret HTTP status codes that are returned by the protocol server as specified in [\[RFC2616\]](#), section 10.

This protocol allows protocol servers to notify protocol clients of application-level faults by using SOAP faults. Except where otherwise specified, these SOAP faults are not significant for interoperability and protocol clients can interpret them in an implementation-specific manner.

This protocol allows protocol servers to perform implementation-specific authorization checks and to notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults, as specified previously in this section.

3.1 Server Details

3.1.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

This protocol uses the following three basic data structures:

- conversion item: A single conversion from an input file to an output file.
- conversion group: A hierarchical grouping of conversion items based on input file URL and output file URL. A conversion group is comprised of one or more conversion items. There are two logical types of conversion groups.
 - For conversion items within a conversion group that specify a common input root URL and common output root URL, the path specified by a conversion item will be a URL relative to both the common input root and output root URLs.
 - For conversion items within a conversion group that do not specify a common input root URL and common output root URL, the input file and output file paths specified by a conversion item will be a full, absolute URL.
- conversion job: A logical group of conversion groups that also contains conversion settings that apply to all conversion items within the conversion groups. A conversion job is comprised of one or more conversion groups.

The protocol client builds up a conversion job and sends it to the protocol server which stores the data unchanged. The protocol client adds a conversion job as follows:

1. The protocol client first calls the **AddJob** operation to add a new conversion job, specifying the conversion job identifier, conversion job settings and other data that applies to all conversion groups and conversion items in the conversion job.
2. For each conversion group in the conversion job, the protocol client calls the **AddGroup** or **AddItems** operation, specifying the conversion group identifier, all conversion items in the conversion group and other data that applies to all conversion items in the conversion group.
3. After all conversion groups have been added to the conversion job, the protocol client submits the conversion job by calling the **SubmitJob** operation.

The protocol client initiates the conversion of one or more conversion items to the protocol server using the **ConvertBatch** operation. After a conversion item has either failed or successfully finished, the protocol server is responsible for updating the status of the conversion items in the database.

The protocol client is able to retrieve a list of conversion jobs, including the conversion job identifier and other metadata, with the **GetJobs** operation. The overall status of a specific conversion job is returned by the **GetJobStatus** operation. To check the status of a specific conversion item, the protocol client first uses the **GetGroups** operation to retrieve the list of conversion groups in a conversion job and then uses the **GetItems** operation to retrieve the individual conversion items in each conversion group.

3.1.2 Timers

None.

3.1.3 Initialization

None.

3.1.4 Message Processing Events and Sequencing Rules

This specification includes the following **WSDL operations**:

WSDL Operation	Description
AddGroup	Adds a group of conversion items that share a common input and output path to a conversion job.
AddItems	Adds a group of conversion items that do not share a common path to a conversion job.
AddJob	Adds a new conversion job to the queue.
CancelJob	Marks a conversion job as canceled.
ConvertBatch	Initiates the conversion of a batch of conversion items.
GetGroups	Gets a conversion job and the conversion groups within the conversion job.
GetId	Gets the unique identifier of a currently running instance of the protocol server.
GetItems	Gets the conversion items in a conversion group.

WSDL Operation	Description
GetJobs	Gets a list of conversion jobs.
GetJobStatus	Gets the status of a conversion job.
Ping	Contacts a protocol server to determine the responsiveness of the service.
SubmitJob	Marks a conversion job as submitted to specify that all conversion groups in a conversion job have been added.

3.1.4.1 AddGroup

Adds a group of conversion items that share a common input and output path to a conversion job.

```
<wsdl:operation name="AddGroup">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
    name="AddGroupRequest" message="tns:AddGroupRequest"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
    name="AddGroupResponse" message="tns:AddGroupResponse"/>
</wsdl:operation>
```

The protocol client sends an **AddGroupRequest** request **WSDL message** for each group of conversion items being added to a conversion job that share a common input and output path.

The protocol server MUST call the **proc_AddGroup** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.15. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@GroupId	This MUST be the conversion group identifier specified by the GroupId element.
@InputRoot	This MUST be the root input URL specified by the InputRoot element.
@OutputRoot	This MUST be the root output URL specified by the OutputRoot element.
@MaxAttemptsCount	This MUST be an integer value specifying the maximum number of conversion attempts for each conversion item.
@JobXml	<p>This MUST be the list of conversion item relative URLs specified by the Items element.</p> <p>This list MUST be encoded as XML according to the XML Schema specified in [MS-WORDSSP] section 2.2.6.4.2 with a root element of group.</p> <p>The following pseudocode specifies how to create the XML from the Items element:</p> <pre>WRITE START ELEMENT 'group' FOR ConversionItem = 0 TO COUNT(AddGroupRequest.Items) WRITE START ELEMENT 'item' WITH WITH ATTRIBUTES 'id' = ConversionItem + 1 'in' = AddGroupRequest.Items[ConversionItem]</pre>

Parameter	Value
	<pre> WRITE END ELEMENT 'item' ENDFOR WRITE END ELEMENT 'group' </pre>

The protocol server MUST respond with an **AddGroupResponse** message.

3.1.4.1.1 Messages

3.1.4.1.1.1 AddGroupRequest

The requested WSDL message for the **AddGroup** WSDL operation.

The **SOAP action** value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addGroup
```

The **SOAP body** contains the **AddGroupRequest** element.

3.1.4.1.1.2 AddGroupResponse

The response WSDL message for the **AddGroup** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response
```

The SOAP body contains the **AddGroupResponse** element.

3.1.4.1.2 Elements

3.1.4.1.2.1 AddGroupRequest

The input data for the **AddGroup** WSDL operation.

```

<xs:element name="AddGroupRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element minOccurs="0" name="InputRoot" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Items" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q1:ArrayOfstring"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="OutputRoot" nillable="true" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

GroupId: A **GroupId** (section [2.2.3.2](#)) element containing a new, unique value generated by the protocol client that identifies the conversion group within the conversion job.

InputRoot: A string containing the base URL of the input path of all conversion items in the conversion group. This element **MUST NOT** be null.

Items: An **ArrayOfstring** (section [2.2.4.1](#)) element containing the path of each conversion item in the conversion group, relative to the **InputRoot** and **OutputRoot**.

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job to which the conversion group belongs.

OutputRoot: A string containing the base URL of the output path of all conversion items in the conversion group. This element **MUST NOT** be null.

3.1.4.1.2.2 AddGroupResponse

The result data for the **AddGroup** WSDL operation.

```
<xs:element name="AddGroupResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.2 AddItems

Adds a group of conversion items that do not share a common path to a conversion job.

```
<wsdl:operation name="AddItems">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
    name="AddItemsRequest" message="tns:AddItemsRequest"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
    name="AddItemsResponse" message="tns:AddItemsResponse"/>
</wsdl:operation>
```

The protocol client sends an **AddItemsRequest** request WSDL message for each group of conversion items being added to a conversion job that do not necessarily share a common input and output path.

The protocol server **MUST** call the **proc_AddGroup** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.15. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@GroupId	This MUST be the conversion group identifier specified by the GroupId element.
@MaxAttemptsCount	This MUST be an integer value specifying the maximum number of conversion attempts for each conversion item.
@JobXml	This MUST be the list of conversion items specified by the InputUrls element and OutputUrls element. This list MUST be encoded as XML according to the XML Schema specified in [MS-WORDSSP] section 2.2.6.4.2 with a root element of group .

Parameter	Value
	<p>The following pseudocode specifies how to create the XML from the Items element:</p> <pre data-bbox="527 279 1266 541"> WRITE START ELEMENT 'group' FOR ConversionItem = 0 TO COUNT(AddItemsRequest.InputUrls) WRITE START ELEMENT 'item' WITH WITH ATTRIBUTES 'id' = ConversionItem + 1 'in' = AddItemsRequest.InputUrls[ConversionItem] 'out' = AddItemsRequest.OutputUrls[ConversionItem] WRITE END ELEMENT 'item' ENDFOR WRITE END ELEMENT 'group' </pre>

The protocol server MUST respond with an **AddItemsResponse** message.

3.1.4.2.1 Messages

3.1.4.2.1.1 AddItemsRequest

The requested WSDL message for the **AddItems** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addItems
```

The SOAP body contains the **AddItemsRequest** element.

3.1.4.2.1.2 AddItemsResponse

The response WSDL message for the **AddItems** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response
```

The SOAP body contains the **AddItemsResponse** element.

3.1.4.2.2 Elements

3.1.4.2.2.1 AddItemsRequest

The input data for the **AddItems** WSDL operation.

```

<xs:element name="AddItemsRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element minOccurs="0" name="InputUrls" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q1:ArrayOfstring"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    
```

```

    <xs:element minOccurs="0" name="OutputUrls" nillable="true"
    xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
    type="q2:ArrayOfstring"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

GroupId: A **GroupId** (section [2.2.3.2](#)) element containing a new, unique value generated by the protocol client that identifies the conversion group within the conversion job.

InputUrls: An **ArrayOfstrings** (section [2.2.4.1](#)) element containing the full input path of each conversion item in the conversion group. This element **MUST** contain the same number of strings as the **OutputUrls** element.

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job to which the conversion group belongs.

OutputUrls: An **ArrayOfstrings** (section [2.2.4.1](#)) element containing the full output path of each conversion item in the conversion group. This element **MUST** contain the same number of strings as the **InputUrls** element.

3.1.4.2.2 AddItemsResponse

The result data for the **AddItems** WSDL operation.

```

<xs:element name="AddItemsResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.3 AddJob

Adds a new conversion job to the queue.

```

<wsdl:operation name="AddJob">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
  name="AddJobRequest" message="tns:AddJobRequest"/>
  <wsdl:output
  wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob/response"
  name="AddJobResponse" message="tns:AddJobResponse"/>
</wsdl:operation>

```

The protocol client sends an **AddJobRequest** request WSDL message to add a new conversion job to the queue.

The protocol server **MUST** call the **proc_AddJob** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.14. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@Name	This MUST be the string value specified by the Name element.

Parameter	Value
@UserTokenHeader	This MUST be the first 32-bytes of the serialized binary value of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the first 32-bytes of the serialized binary value of the UserToken element, which contain all fields except for the variable-length UserSystemId field and the variable-length TokenGroups field.
@UserTokenSid	This MUST be the SystemID of the user of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the UserSystemId field of the serialized binary value of the UserToken element.
@UserTokenGroups	This MUST be the external groups ([MS-WSSFO] section 2.2.4.4) of which the user is a member from the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the TokenGroups field of the serialized binary value of the UserToken element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.
@Settings	This MUST be a ConversionJobSettings (section 2.2.3.1) element containing the preferred settings specified by the Settings element in the AddJobRequest request WSDL message.

The protocol server MUST respond with an **AddJobResponse** message.

3.1.4.3.1 Messages

3.1.4.3.1.1 AddJobRequest

The requested WSDL message for the **AddJob** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/addJob
```

The SOAP body contains the **AddJobRequest** element.

3.1.4.3.1.2 AddJobResponse

The response WSDL message for the **AddJob** method.

The SOAP action value is:

The SOAP body contains the **AddJobResponse** element.

3.1.4.3.2 Elements

3.1.4.3.2.1 AddJobRequest

The input data for the **AddJob** WSDL operation.

```
<xs:element name="AddJobRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="PartitionId" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
      <xs:element minOccurs="0" name="Settings" nillable="true"
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
type="q2:ConversionJobSettings"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section [2.2.3.3](#)) element containing a new, unique value generated by the protocol client that identifies the conversion job.

Name: An optional string that is stored along with the conversion job.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

Settings: An optional **ConversionJobSettings** (section [2.2.4.2](#)) element that provides a collection of preferred settings for all conversion items within the conversion job.

UserToken: A **UserToken** (section [2.2.3.5](#)) element that provides user credentials for accessing the input and output files in the conversion job.

3.1.4.3.2.2 AddJobResponse

The result data for the **AddJob** WSDL operation.

```
<xs:element name="AddJobResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.4 CancelJob

Marks a conversion job as canceled.

```

<wsdl:operation name="CancelJob">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
name="CancelJobRequest" message="tns:CancelJobRequest"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
name="CancelJobResponse" message="tns:CancelJobResponse"/>
</wsdl:operation>

```

The protocol client sends a **CancelJobRequest** request WSDL message to mark a conversion job as canceled.

The protocol server MUST call the **proc_CancelJob** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.12. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.

The protocol server MUST respond with a **CancelJobResponse** response WSDL message.

3.1.4.4.1 Messages

3.1.4.4.1.1 CancelJobRequest

The requested WSDL message for the **CancelJob** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/cancelJob
```

The SOAP body contains the **CancelJobRequest** element.

3.1.4.4.1.2 CancelJobResponse

The response WSDL message for the **CancelJob** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response
```

The SOAP body contains the **CancelJobResponse** element.

3.1.4.4.2 Elements

3.1.4.4.2.1 CancelJobRequest

The input data for the **CancelJob** WSDL operation.

```
<xs:element name="CancelJobRequest">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="PartitionId" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job to mark as canceled.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

3.1.4.4.2 CancelJobResponse

The result data for the **CancelJob** WSDL operation.

```

<xs:element name="CancelJobResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>

```

3.1.4.5 ConvertBatch

Initiates the conversion of a batch of conversion items.

```

<wsdl:operation name="ConvertBatch">
  <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
name="ConvertBatchRequest" message="tns:ConvertBatchRequest"/>
</wsdl:operation>

```

The protocol client sends a **ConvertBatchRequest** request WSDL message to initiate the conversion of a batch of conversion items on the currently running instance of the protocol server and the protocol server MUST initiate the conversion of each conversion item specified by a **ConvertBatchItem** element in the **Items** child element of the **ConvertBatchRequest** request WSDL message.

When a conversion item has successfully finished, the protocol server MUST call the **proc_UpdateSucceededItem** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.1. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId child element of the ConvertBatchItem element for the conversion item.
@GroupId	This MUST be the conversion group identifier specified by the GroupId child element of the ConvertBatchItem element for the conversion item.
@ItemId	This MUST be the conversion item identifier specified by the ItemId child element of the ConvertBatchItem element for the conversion item.

Parameter	Value
@Reserved	This value MUST be null.

When a conversion item has failed, the protocol server MUST call the **proc_UpdateFailedItem** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.2. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId child element of the ConvertBatchItem element for the conversion item.
@GroupId	This MUST be the conversion group identifier specified by the GroupId child element of the ConvertBatchItem element for the conversion item.
@ItemId	This MUST be the conversion item identifier specified by the ItemId child element of the ConvertBatchItem element for the conversion item.
@NoRetry	This value specifies whether the conversion item should not be retried.
@ErrorCode	This value specifies the error code of the failure.
@Reserved	This value MUST be null.

3.1.4.5.1 Messages

3.1.4.5.1.1 ConvertBatchRequest

The requested WSDL message for the **ConvertBatch** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/convertBatch
```

The SOAP body contains the **ConvertBatchRequest** element.

3.1.4.5.2 Elements

3.1.4.5.2.1 ConvertBatchRequest

The input data for the **ConvertBatch** WSDL operation.

```
<xs:element name="ConvertBatchRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Items" nillable="true"
type="tns:ArrayOfConvertBatchItem"/>
      <xs:element minOccurs="0" name="Jobs" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
type="q1:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Items: An **ArrayOfConvertBatchItem** element containing the set of conversion items to be converted.

Jobs: An **ArrayOfKeyValueOfunsignedLongConvertBatchJobIdfuNjXEA** element that represents a **dictionary** of conversion jobs to which the conversion items in the **ConvertBatchRequest** request WSDL message belong.

3.1.4.5.3 Complex Types

3.1.4.5.3.1 ArrayOfConvertBatchItem (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/convertBatch>)

The **ArrayOfConvertBatchItem** complex type contains a set of **ConvertBatchItem** elements representing the conversion items for which conversion is being initiated.

```
<xs:complexType name="ArrayOfConvertBatchItem">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ConvertBatchItem" nillable="true"
type="tns:ConvertBatchItem"/>
  </xs:sequence>
</xs:complexType>
```

ConvertBatchItem: A single **ConvertBatchItem** element representing a single conversion item.

3.1.4.5.3.2 ConvertBatchItem (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/convertBatch>)

The **ConvertBatchItem** complex type represents a single conversion item in a **ConvertBatchRequest** request WSDL message.

```
<xs:complexType name="ConvertBatchItem">
  <xs:sequence>
    <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
    <xs:element minOccurs="0" name="InputFile" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ItemId" type="xs:int"/>
    <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="OutputFile" nillable="true" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

GroupId: A **GroupId** (section [2.2.3.2](#)) element that identifies the conversion group to which the conversion item belongs.

InputFile: A string value containing the full path for the input file of the conversion item.

ItemId: An integer value that identifies the conversion item within the conversion group to which the conversion item belongs.

JobId: A **JobId** (section [2.2.3.3](#)) element that identifies the conversion job to which the conversion item belongs.

OutputFile: A string value containing the full path for the output file of the conversion item.

3.1.4.5.3.3 ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA (from namespace <http://schemas.microsoft.com/2003/10/Serialization/Arrays>)

The **ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA** complex type represents a dictionary of conversion jobs to which the conversion items in the **ConvertBatchRequest** request WSDL message belong.

```
<xs:complexType name="ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded"
      name="KeyValueOfunsignedLongConvertBatchJobdfuNjXEA">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key" type="xs:unsignedLong"/>
          <xs:element name="Value" nillable="true"
            xmlns:q1="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
            type="q1:ConvertBatchJob"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

KeyValueOfunsignedLongConvertBatchJobdfuNjXEA: A single dictionary entry representing a conversion job and the unique identifier of that conversion job.

KeyValueOfunsignedLongConvertBatchJobdfuNjXEA.Key: The key of the dictionary entry containing an integer value that uniquely identifies the conversion job.

KeyValueOfunsignedLongConvertBatchJobdfuNjXEA.Value: The **ConvertBatchJob** value of the dictionary entry.

3.1.4.5.3.4 ConvertBatchJob (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/convertBatch>)

The **ConvertBatchJob** complex type represents a single conversion job to which one or more conversion items in the **ConvertBatchRequest** request WSDL message belong.

```
<xs:complexType name="ConvertBatchJob">
  <xs:sequence>
    <xs:element minOccurs="0" name="Settings" nillable="true"
      xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
      type="q2:ConversionJobSettings"/>
    <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
  </xs:sequence>
</xs:complexType>
```

Settings: A **ConversionJobSettings** (section [2.2.4.2](#)) element specifying the preferred settings for the conversion items within the conversion job.

UserToken: A **UserToken** (section [2.2.3.5](#)) element that provides user credentials for accessing the input and output files of the conversion items within the conversion job.

3.1.4.6 GetGroups

Gets a conversion job and the conversion groups within the conversion job.

```
<wsdl:operation name="GetGroups">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
name="GetGroupsRequest" message="tns:GetGroupsRequest"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
name="GetGroupsResponse" message="tns:GetGroupsResponse"/>
</wsdl:operation>
```

The protocol client sends a **GetGroupsRequest** request WSDL message to get a conversion job and all conversion groups within the conversion job.

The protocol server MUST call the **proc_GetGroups** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.10. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.

The protocol server MUST respond with a **GetGroupsResponse** response WSDL message based on the result set returned by **proc_GetGroups** ([\[MS-WORDSSP\]](#) section 3.1.5.10) stored procedure. The protocol server MUST write a **GetGroupsGroup** element as a child of the **Groups** element for each row in the **proc_GetGroups.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.5) result set. The following table specifies how each column value in a row is represented in the **GetGroupsResponse** response WSDL message.

Column	Value
GroupId	This value MUST be represented by the Id child element of the GetGroupsGroup element for the conversion group.
InputRoot	This value MUST be represented by the InputRoot child element of the GetGroupsGroup element for the conversion group.
OutputRoot	This value MUST be represented by the OutputRoot child element of the GetGroupsGroup element for the conversion group.
CreateTime	If this row is the first row in the result set, this value MUST be represented by the CreateTime element of the GetGroupsResponse response WSDL message. For all other rows, this value MUST be ignored.
CancelTime	If this row is the first row in the result set, this value MUST be represented by the CancelTime element of the GetGroupsResponse response WSDL message. For all other rows, this value MUST be ignored.
Submitted	If this row is the first row in the result set, the inverse of this value MUST be represented by the NotSubmitted element of the GetGroupsResponse response WSDL message. For all other rows, this value MUST be ignored.
Settings	If this row is the last row in the result set, the ConversionJobSettings (section 2.2.3.1)

Column	Value
	<p>element containing the preferred settings MUST be represented by the Settings element of the GetGroupsResponse response WSDL message.</p> <p>For all other rows, this value MUST be ignored.</p>

3.1.4.6.1 Messages

3.1.4.6.1.1 GetGroupsRequest

The requested WSDL message for the **GetGroups** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getGroups
```

The SOAP body contains the **GetGroupsRequest** element.

3.1.4.6.1.2 GetGroupsResponse

The response WSDL message for the **GetGroups** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response
```

The SOAP body contains the **GetGroupsResponse** element.

3.1.4.6.2 Elements

3.1.4.6.2.1 GetGroupsRequest

The input data for the **GetGroups** WSDL operation.

```
<xs:element name="GetGroupsRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="PartitionId" nillable="true"
        xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

3.1.4.6.2.2 GetGroupsResponse

The result data for the **GetGroups** WSDL operation.

```

<xs:element name="GetGroupsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="CancelTime" nillable="true" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="CreateTime" type="xs:dateTime"/>
      <xs:element minOccurs="0" name="Groups" nillable="true"
type="tns:ArrayOfGetGroupsGroup"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
      <xs:element minOccurs="0" name="Settings" nillable="true"
xmlns:q1="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
type="q1:ConversionJobSettings"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

CancelTime: A **dateTime** value specifying when the conversion job was canceled. If the conversion job has not been canceled, the protocol server **MUST** write a null value.

CreateTime: A **dateTime** value specifying when the conversion job was created.

Groups: An **ArrayOfGetGroupsGroup** element containing the conversion groups within the conversion job.

NotSubmitted: A **boolean** value specifying if the conversion job has not been submitted.

Settings: A **ConversionJobSettings** (section [2.2.4.2](#)) element specifying the preferred settings for all conversion items within the conversion job.

3.1.4.6.3 Complex Types

3.1.4.6.3.1 ArrayOfGetGroupsGroup (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response>)

The **ArrayOfGetGroupsGroup** complex type contains a set of **GetGroupsGroup** elements representing the conversion groups in a conversion job.

```

<xs:complexType name="ArrayOfGetGroupsGroup">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="GetGroupsGroup" nillable="true"
type="tns:GetGroupsGroup"/>
  </xs:sequence>
</xs:complexType>

```

GetGroupsGroup: A single **GetGroupsGroup** element representing a single conversion group in a conversion job.

3.1.4.6.3.2 GetGroupsGroup (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response>)

The **GetGroupsGroup** complex type represents a single conversion group in a conversion job.

```

<xs:complexType name="GetGroupsGroup">

```

```

<xs:sequence>
  <xs:element minOccurs="0" name="Id" type="xs:short"/>
  <xs:element minOccurs="0" name="InputRoot" nillable="true" type="xs:string"/>
  <xs:element minOccurs="0" name="OutputRoot" nillable="true" type="xs:string"/>
</xs:sequence>
</xs:complexType>

```

Id: An integer value identifying the conversion group.

InputRoot: If this value is non-null, this MUST be a string value specifying the base input URL of the of all conversion items in the conversion group.

OutputRoot: If the **InputRoot** element has a non-null value, this MUST be a string value specifying the base output URL of all conversion items in the conversion group. Otherwise, this element MUST be ignored.

3.1.4.7 GetId

Gets the unique identifier of a currently running instance of the protocol server.

```

<wsdl:operation name="GetId">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId"
name="GetIdRequest" message="tns:GetIdRequest"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
name="GetIdResponse" message="tns:GetIdResponse"/>
</wsdl:operation>

```

The protocol client sends a **GetIdRequest** request WSDL message and the protocol server MUST return a **GetIdResponse** response WSDL message, as follows:

- The protocol server MUST return an identifier that uniquely identifies the current instance of the protocol server.
- The protocol server MUST NOT return an identifier used by another protocol server.
- If the current instance of the protocol server has previously received a **GetIdRequest** request WSDL message, the protocol server MUST return the same identifier returned in the previous **GetIdResponse** response WSDL message.
- If the current instance of the protocol server has not previously received a **GetIdRequest** request WSDL message, the protocol server MUST return a new identifier.

3.1.4.7.1 Messages

3.1.4.7.1.1 GetIdRequest

The requested WSDL message for the **GetId** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getId
```

The SOAP body contains the **GetIdRequest** element.

3.1.4.7.1.2 GetIdResponse

The response WSDL message for the **GetId** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getId/response
```

The SOAP body contains the **GetIdResponse** element.

3.1.4.7.2 Elements

3.1.4.7.2.1 GetIdRequest

The input data for the **GetId** WSDL operation.

```
<xs:element name="GetIdRequest">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.4.7.2.2 GetIdResponse

The result data for the **GetId** WSDL operation.

```
<xs:element name="GetIdResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="AssignedItemCount" type="xs:int"/>
      <xs:element minOccurs="0" name="Id"
        xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

AssignedItemCount: An integer value that specifies the count of conversion items the current running instance of the protocol server is converting.

Id: A **guid** (section [2.2.5.9](#)) element that uniquely identifies the current running instance of the protocol server.

3.1.4.8 GetItems

Gets the conversion items in a conversion group.

```
<wsdl:operation name="GetItems">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
    name="GetItemsRequest" message="tns:GetItemsRequest"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
    name="GetItemsResponse" message="tns:GetItemsResponse"/>
</wsdl:operation>
```

The protocol client sends a **GetItemsRequest** request WSDL message to get conversion items within a conversion group.

The protocol server MUST call the **proc_GetItems** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.9. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@GroupId	This MUST be the conversion group identifier specified by the GroupId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.
@NotSubmitted	This MUST be the value specified by the NotSubmitted element.
@NotStarted	This MUST be the value specified by the NotStarted element.
@InProgress	This MUST be the value specified by the InProgress element.
@Succeeded	This MUST be the value specified by the Succeeded element.
@Failed	This MUST be the value specified by the Failed element.
@Canceled	This MUST be the value specified by the Canceled element.

The protocol server MUST respond with a **GetItemsResponse** response WSDL message based on the result set returned by **proc_GetItems** ([\[MS-WORDSSP\]](#) section 3.1.5.9) stored procedure. The protocol server MUST write a **GetItemsItem** element as a child of the **Items** element for each row in the **proc_GetItems.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.4) result set. The following table specifies how each column value in a row is represented in the **GetItemsResponse** response WSDL message.

Column	Value
ItemId	This value MUST be represented by the Id child element of the GetItemsItem element for the conversion item.
StartTime	This value MUST be represented by the StartTime child element of the GetItemsItem element for the conversion item.
StopTime	This value MUST be represented by the StopTime child element of the GetItemsItem element for the conversion item.
ErrorCode	This value MUST be represented by the ErrorCode child element of the GetItemsItem element for the conversion item.
InputFile	This value MUST be represented by the InputFile child element of the GetItemsItem element for the conversion item.
OutputFile	This value MUST be represented by the OutputFile child element of the GetItemsItem element for the conversion item.

3.1.4.8.1 Messages

3.1.4.8.1.1 GetItemsRequest

The requested WSDL message for the **GetItems** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getItems
```

The SOAP body contains the **GetItemsRequest** element.

3.1.4.8.1.2 GetItemsResponse

The response WSDL message for the **GetItems** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getItems/response
```

The SOAP body contains the **GetItemsResponse** element.

3.1.4.8.2 Elements

3.1.4.8.2.1 GetItemsRequest

The input data for the **GetItems** WSDL operation.

```
<xs:element name="GetItemsRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Canceled" type="xs:boolean"/>
      <xs:element minOccurs="0" name="Failed" type="xs:boolean"/>
      <xs:element minOccurs="0" name="GroupId" type="xs:short"/>
      <xs:element minOccurs="0" name="InProgress" type="xs:boolean"/>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="NotStarted" type="xs:boolean"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
      <xs:element minOccurs="0" name="PartitionId" nillable="true"
        xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
      <xs:element minOccurs="0" name="Succeeded" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Canceled: A boolean value specifying if unfinished conversion items in a canceled conversion job are included in the **GetItemsResponse** response WSDL message.

Failed: A Boolean value specifying if failed conversion items in a submitted conversion job are included in the **GetItemsResponse** response WSDL message.

GroupId: A **GroupId** (section [2.2.3.2](#)) element identifying the conversion group.

InProgress: A boolean value specifying if in-progress conversion items in a non-canceled, submitted conversion job are included in the **GetItemsResponse** response WSDL message.

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job.

NotStarted: A boolean value specifying if unstarted conversion items in a non-canceled, submitted conversion job are included in the **GetItemsResponse** response WSDL message.

NotSubmitted: A boolean value specifying if conversion items in a non-submitted and non-cancelled conversion job are included in the **GetItemsResponse** response WSDL message.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

Succeeded: A boolean value specifying if successfully finished conversion items in a submitted conversion job are included in the **GetItemsResponse** response WSDL message.

3.1.4.8.2.2 GetItemsResponse

The result data for the **GetItems** WSDL operation.

```
<xs:element name="GetItemsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0"
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
ref="q2:Items"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

q2:Items: An **ArrayOfGetItemsItem** element containing a set of conversion items.

3.1.4.8.3 Complex Types

3.1.4.8.3.1 ArrayOfGetItemsItem (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/getItems/response>)

The **ArrayOfGetItemsItem** complex type contains a set of **GetItemsItem** elements representing conversion items in a conversion group.

```
<xs:complexType name="ArrayOfGetItemsItem">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="GetItemsItem" nillable="true"
type="tns:GetItemsItem"/>
  </xs:sequence>
</xs:complexType>
```

GetItemsItem: A single **GetItemsItem** element representing a single conversion item in a conversion group.

3.1.4.8.3.2 GetItemsItem (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/getItems/response>)

The **GetItemsItem** complex type represents a single conversion item in a conversion group.

```
<xs:complexType name="GetItemsItem">
  <xs:sequence>
    <xs:element minOccurs="0" name="ErrorCode" nillable="true" type="xs:int"/>
    <xs:element minOccurs="0" name="Id" type="xs:int"/>
    <xs:element minOccurs="0" name="InputFile" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="OutputFile" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="StartTime" nillable="true" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="StopTime" nillable="true" type="xs:dateTime"/>
  </xs:sequence>
</xs:complexType>
```

ErrorCode: An integer value specifying the error code of a failed conversion item. If the conversion item has failed, the protocol server **MUST** write a non-null value.

Id: An integer value that uniquely identifies the conversion item within the conversion group.

InputFile: If the conversion group specifies base input and output URLs, this **MUST** be a string value containing the path of the conversion item relative to those URLs. If the conversion group does not specify base input and output URLs, this **MUST** be a string value containing the full input path of the conversion item.

OutputFile: If the conversion group specifies base input and output URLs, the protocol client **MUST** ignore this element. If the conversion group does not specify base input and output URLs, this **MUST** be a string value containing the full output path of the conversion item.

StartTime: A **dateTime** value that specifies when the conversion item started.

StopTime: A **dateTime** value that specifies when the conversion item finished.

3.1.4.9 GetJobs

Gets a list of conversion jobs.

```
<wsdl:operation name="GetJobs">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
    name="GetJobsRequest" message="tns:GetJobsRequest"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
    name="GetJobsResponse" message="tns:GetJobsResponse"/>
</wsdl:operation>
```

The protocol client sends a **GetJobsRequest** request WSDL message to get a list of conversion jobs.

The protocol server **MUST** call the **proc_GetJobs** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.8. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.
@UserTokenHeader	This MUST be the first 32-bytes of the serialized binary value of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the first 32-bytes of the serialized binary value of the UserToken element, which contain all fields except for the variable-length UserSystemId field and the variable-length TokenGroups field.
@UserTokenSid	This MUST be the SystemID of the user of the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the UserSystemId field of the serialized binary value of the UserToken element.
@UserTokenGroups	This MUST be the external groups ([MS-WSSFO] section 2.2.4.4) of which the user is a member from the UserToken (section 2.2.3.5) element, as follows: <ul style="list-style-type: none"> ▪ If UserToken is null, this value MUST be null. ▪ If UserToken is not null, this value MUST be the TokenGroups field of the serialized binary value of the UserToken element.
@ActiveOnly	This MUST be the value specified by the ActiveOnly element.
@SubmittedOnly	This MUST be the value specified by the SubmittedOnly element.

The protocol server MUST respond with a **GetJobsResponse** response WSDL message based on the result set returned by the **proc_GetJobs** ([\[MS-WORDSSP\]](#) section 3.1.5.8) stored procedure. The protocol server MUST write a **GetJobsJob** element as a child of the **Jobs** element for each row in the **proc_GetJobs.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.3) result set. The following table specifies how each column value in a row is represented in the **GetJobsResponse** response WSDL message.

Column	Value
JobId	This value MUST be represented by the JobId child element of the GetJobsJob element for the conversion job.
CreateTime	This value MUST be represented by the CreateTime child element of the GetJobsJob element for the conversion job.
CancelTime	This value MUST be represented by the CancelTime child element of the GetJobsJob element for the conversion job.
Submitted	This inverse of this value MUST be represented by the NotSubmitted child element of the GetJobsJob element for the conversion job.
Name	This value MUST be represented by the Name child element of the GetJobsJob element for the conversion job.

3.1.4.9.1 Messages

3.1.4.9.1.1 GetJobsRequest

The requested WSDL message for the **GetJobs** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getJobs
```

The SOAP body contains the **GetJobsRequest** element.

3.1.4.9.1.2 GetJobsResponse

The response WSDL message for the **GetJobs** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response
```

The SOAP body contains the **GetJobsResponse** element.

3.1.4.9.2 Elements

3.1.4.9.2.1 GetJobsRequest

The input data for the **GetJobs** WSDL operation.

```
<xs:element name="GetJobsRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="ActiveOnly" type="xs:boolean"/>
      <xs:element minOccurs="0" name="PartitionId" nillable="true"
xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
      <xs:element minOccurs="0" name="SubmittedOnly" type="xs:boolean"/>
      <xs:element minOccurs="0" name="UserToken" nillable="true" type="xs:base64Binary"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

ActiveOnly: A Boolean value specifying if only non-cancelled conversion jobs with unfinished conversion items are included in the **GetJobsResponse** response WSDL message.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element specifying the partition (1) to return conversion jobs from. The protocol server MUST NOT return conversion jobs that are part of a different partition (1).

SubmittedOnly: A Boolean value specifying if only conversion jobs that have been submitted are included in the **GetJobsResponse** response WSDL message.

UserToken: A **UserToken** (section [2.2.3.5](#)) element that provides user credentials for accessing the input and output files in the conversion job.

3.1.4.9.2.2 GetJobsResponse

The result data for the **GetJobs** WSDL operation.

```
<xs:element name="GetJobsResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Jobs" nillable="true" type="tns:ArrayOfGetJobsJob"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Jobs: An **ArrayOfGetJobsJob** element containing the conversion jobs.

3.1.4.9.3 Complex Types

3.1.4.9.3.1 ArrayOfGetJobsJob (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response>)

The **ArrayOfGetJobsJob** complex type contains a set of **GetJobsJob** elements representing a set of conversion jobs.

```
<xs:complexType name="ArrayOfGetJobsJob">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="GetJobsJob" nillable="true"
      type="tns:GetJobsJob"/>
  </xs:sequence>
</xs:complexType>
```

GetJobsJob: A single **GetJobsJob** element representing a single conversion job.

3.1.4.9.3.2 GetJobsJob (from namespace <http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response>)

The **GetJobsJob** complex type represents a single conversion job.

```
<xs:complexType name="GetJobsJob">
  <xs:sequence>
    <xs:element minOccurs="0" name="CancelTime" nillable="true" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="CreateTime" type="xs:dateTime"/>
    <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="NotSubmitted" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
```

CancelTime: A **dateTime** value specifying when the conversion job was canceled. If the conversion job has been canceled, the protocol server **MUST** write a non-null value.

CreateTime: A **dateTime** value specifying when the conversion job was created.

JobId: A **JobId** (section [2.2.3.3](#)) element that identifies the conversion job.

Name: An optional string that is stored along with the conversion job.

NotSubmitted: A Boolean value specifying that the conversion job has been submitted.

3.1.4.10 GetJobStatus

Gets the status of a conversion job.

```
<wsdl:operation name="GetJobStatus">
  <wsdl:input
    wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
    name="GetJobStatusRequest" message="tns:GetJobStatusRequest"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
    name="GetJobStatusResponse" message="tns:GetJobStatusResponse"/>
</wsdl:operation>
```

The protocol client sends a **GetJobStatusRequest** request WSDL message to get the status of a conversion job.

The protocol server MUST call the **proc_GetJobStatus** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.7. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.
@PartitionId	This MUST be the partition (1) identifier specified by the PartitionId element.

The protocol server MUST respond with a **GetJobStatusResponse** response WSDL message based on the first row of the **proc_GetJobStatus.ResultSet0** ([\[MS-WORDSSP\]](#) section 2.2.4.2) result set. The protocol server MUST ignore all rows in the result set after the first row. The following table specifies how each column value in the first row is represented in the **GetJobStatusResponse** response WSDL message.

Column	Value
Total	This value MUST be represented by the Count element of the GetJobStatus response WSDL message.
NotSubmitted	This value MUST be represented by the NotSubmitted element of the GetJobStatus response WSDL message.
NotStarted	This value MUST be represented by the NotStarted element of the GetJobStatus response WSDL message.
InProgress	This value MUST be represented by the InProgress element of the GetJobStatus response WSDL message.
Succeeded	This value MUST be represented by the Succeeded element of the GetJobStatus response WSDL message.
Failed	This value MUST be represented by the Failed element of the GetJobStatus response WSDL message.

Column	Value
Canceled	This value MUST be represented by the Canceled element of the GetJobStatus response WSDL message.
Name	This value MUST be represented by the Name element of the GetJobStatus response WSDL message.

3.1.4.10.1 Messages

3.1.4.10.1.1 GetJobStatusRequest

The requested WSDL message for the **GetJobStatus** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus
```

The SOAP body contains the **GetJobStatusRequest** element.

3.1.4.10.1.2 GetJobStatusResponse

The response WSDL message for the **GetJobStatus** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response
```

The SOAP body contains the **GetJobStatusResponse** element.

3.1.4.10.2 Elements

3.1.4.10.2.1 GetJobStatusRequest

The input data for the **GetJobStatus** WSDL operation.

```
<xs:element name="GetJobStatusRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
      <xs:element minOccurs="0" name="PartitionId" nillable="true"
        xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job.

PartitionId: A **PartitionId** (section [2.2.3.4](#)) element identifying the partition (1) of the conversion job.

3.1.4.10.2.2 GetJobStatusResponse

The result data for the **GetJobStatus** WSDL operation.

```
<xs:element name="GetJobStatusResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="Canceled" type="xs:int"/>
      <xs:element minOccurs="0" name="Count" type="xs:int"/>
      <xs:element minOccurs="0" name="Failed" type="xs:int"/>
      <xs:element minOccurs="0" name="InProgress" type="xs:int"/>
      <xs:element minOccurs="0" name="Name" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="NotStarted" type="xs:int"/>
      <xs:element minOccurs="0" name="NotSubmitted" type="xs:int"/>
      <xs:element minOccurs="0" name="Succeeded" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Canceled: An integer value specifying the number of unfinished conversion items in a canceled conversion job. If the conversion job has not been canceled, this value **MUST** be 0.

Count: An integer value specifying the total count of conversion items in a conversion job.

Failed: An integer value specifying the count of failed conversion items in a submitted conversion job. If the conversion job has not been submitted, this value **MUST** be 0.

InProgress: An integer value specifying the count of in-progress conversion items in a non-canceled, submitted conversion job. If the conversion job has been canceled or has not been submitted, this value **MUST** be 0.

Name: An optional string that is stored along with the conversion job.

NotStarted: An integer value specifying the count of unstarted conversion items in a non-canceled, submitted conversion job. If the conversion job has been canceled or has not been submitted, this value **MUST** be 0.

NotSubmitted: An integer value specifying the count of conversion items in a non-submitted and non-canceled conversion job. If the conversion job has been canceled or has been submitted, this value **MUST** be 0.

Succeeded: An integer value specifying the count of succeeded conversion items in a submitted conversion job. If the conversion job has not been submitted, this value **MUST** be 0.

3.1.4.11 Ping

Contacts a protocol server to determine the responsiveness of the service.

```
<wsdl:operation name="Ping">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping"
    name="PingRequest" message="tns:PingRequest"/>
  <wsdl:output
    wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
    name="PingResponse" message="tns:PingResponse"/>
</wsdl:operation>
```


The protocol client sends a **PingRequest** request WSDL message and the protocol server MUST increment a counter and MUST return a **PingResponse** response WSDL message.

3.1.4.11.1 Messages

3.1.4.11.1.1 PingRequest

The requested WSDL message for the **Ping** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/ping
```

The SOAP body contains the **PingRequest** element.

3.1.4.11.1.2 PingResponse

The response WSDL message for the **Ping** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/ping/response
```

The SOAP body contains the **PingResponse** element.

3.1.4.11.2 Elements

3.1.4.11.2.1 PingRequest

The input data for the **Ping** WSDL operation.

```
<xs:element name="PingRequest">  
  <xs:complexType>  
    <xs:sequence/>  
  </xs:complexType>  
</xs:element>
```

3.1.4.11.2.2 PingResponse

The result data for the **Ping** WSDL operation.

```
<xs:element name="PingResponse">  
  <xs:complexType>  
    <xs:sequence>  
      <xs:element minOccurs="0" name="Count" type="xs:int"/>  
      <xs:element minOccurs="0" name="Received" type="xs:dateTime"/>  
      <xs:element minOccurs="0" name="Responded" type="xs:dateTime"/>  
    </xs:sequence>  
  </xs:complexType>  
</xs:element>
```

Count: An integer value containing the count of **Ping** operations the protocol server has performed.

Received: A **dateTime** value specifying when the protocol server began the **Ping** operation after receiving the **PingRequest** WSDL message.

Responded: A **dateTime** value specifying when the protocol server ended the **Ping** operation before returning the **PingResponse** WSDL message.

3.1.4.12 SubmitJob

Marks a conversion job as submitted to specify that all conversion groups in a conversion job have been added.

```
<wsdl:operation name="SubmitJob">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
name="SubmitJobRequest" message="tns:SubmitJobRequest"/>
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
name="SubmitJobResponse" message="tns:SubmitJobResponse"/>
</wsdl:operation>
```

The protocol client sends a **SubmitJobRequest** request WSDL message to mark a conversion job as submitted to specify that all conversion groups in the conversion job have been added.

The protocol server MUST call the **proc_SubmitJob** stored procedure, as specified in [\[MS-WORDSSP\]](#) section 3.1.5.4. The following table specifies the parameter values for the stored procedure.

Parameter	Value
@JobId	This MUST be the conversion job identifier specified by the JobId element.

The protocol server MUST respond with a **SubmitJobResponse** response WSDL message.

3.1.4.12.1 Messages

3.1.4.12.1.1 SubmitJobRequest

The requested WSDL message for the **SubmitJob** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/submitJob
```

The SOAP body contains the **SubmitJobRequest** element.

3.1.4.12.1.2 SubmitJobResponse

The response WSDL message for the **SubmitJob** method.

The SOAP action value is:

```
http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response
```

The SOAP body contains the **SubmitJobResponse** element.

3.1.4.12.2 Elements

3.1.4.12.2.1 SubmitJobRequest

The input data for the **SubmitJob** WSDL operation.

```
<xs:element name="SubmitJobRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" name="JobId" type="xs:unsignedLong"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

JobId: A **JobId** (section [2.2.3.3](#)) element identifying the conversion job to mark as submitted.

3.1.4.12.2.2 SubmitJobResponse

The result data for the **SubmitJob** WSDL operation.

```
<xs:element name="SubmitJobResponse">
  <xs:complexType>
    <xs:sequence/>
  </xs:complexType>
</xs:element>
```

3.1.5 Timer Events

None.

3.1.6 Other Local Events

None.

4 Protocol Examples

4.1 Creating a Conversion Job

This example demonstrates how a protocol client adds a new conversion job to the queue.

The protocol client has a folder of five documents to convert to PDF. Additionally, the protocol client has a sixth document to convert to PDF that is in a separate folder. The conversion job will contain two conversion groups, with the first conversion group containing the five documents in the same folder and the second conversion group containing the sixth document.

The following table shows the full input URLs, conversion group id and conversion item id of the six conversion items.

Group Id	Item Id	Full Input URL
1	1	http://server/LoremIpsum/Aenean nec.docx
1	2	http://server/LoremIpsum/Fusce aliquet.docx
1	3	http://server/LoremIpsum/Lorem ipsum.docx
1	4	http://server/LoremIpsum/Nunc viverra.docx
1	5	http://server/LoremIpsum/Pellentesque.docx
2	1	http://server/Other/Other.docx

The following table shows the full output URLs, conversion group id and conversion item id of the six conversion items.

Group Id	Item Id	Full Output URL
1	1	http://server/Archive/Aenean nec.pdf
1	2	http://server/Archive/Fusce aliquet.pdf
1	3	http://server/Archive/Lorem ipsum.pdf
1	4	http://server/Archive/Nunc viverra.pdf
1	5	http://server/Archive/Pellentesque.pdf
2	1	http://server/Archive/Other.pdf

The protocol client creates a unique conversion job identifier with the value 11181981853491788161.

4.1.1 Adding the Job

The protocol client then sends the following **AddJob** request WSDL message:

```
<AddJobRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
  xmlns:b="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
```

```

<JobId>11181981853491788161</JobId>
<Name>Protocol example</Name>
<PartitionId i:nil="true" />
<Settings>
  <b:AddThumbnail>>false</b:AddThumbnail>
  <b:CompatibilityMode>MaintainCurrentSetting</b:CompatibilityMode>
  <b:DoNotEmbedSystemFonts>>true</b:DoNotEmbedSystemFonts>
  <b:EmbedFonts>>false</b:EmbedFonts>
  <b:FixedFormatSettings>
    <b:BalloonState>OnlyCommentsAndFormatting</b:BalloonState>
    <b:BitmapEmbeddedFonts>>true</b:BitmapEmbeddedFonts>
    <b:Bookmarks>None</b:Bookmarks>
    <b:IncludeDocumentProperties>>true</b:IncludeDocumentProperties>
    <b:IncludeDocumentStructure>>true</b:IncludeDocumentStructure>
    <b:OutputQuality>Standard</b:OutputQuality>
    <b:UsePDFA>>false</b:UsePDFA>
  </b:FixedFormatSettings>
  <b:MarkupView>Comments Ink Text Formatting</b:MarkupView>
  <b:OutputFormat>PDF</b:OutputFormat>
  <b:OutputSaveBehavior>AppendIfPossible</b:OutputSaveBehavior>
  <b:RevisionState>FinalShowingMarkup</b:RevisionState>
  <b:SubsetEmbeddedFonts>>false</b:SubsetEmbeddedFonts>
  <b:UpdateFields>>false</b:UpdateFields>
</Settings>
<UserToken i:nil="true" />
</AddJobRequest>

```

The protocol server receives the request and adds the conversion job to the database by calling the **proc_AddJob** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@Name	Protocol example
@UserTokenHeader	NULL
@UserTokenSid	NULL
@UserTokenGroups	NULL
@PartitionId	NULL
@Settings	<ConversionJobSettings xmlns="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"> <AddThumbnail>>false</AddThumbnail> <CompatibilityMode>MaintainCurrentSetting</CompatibilityMode> <DoNotEmbedSystemFonts>>false</DoNotEmbedSystemFonts> <EmbedFonts>>false</EmbedFonts> <FixedFormatSettings>

Parameter	Value
	<pre> <BalloonState>OnlyCommentsAndFormatting</BalloonState> <BitmapEmbeddedFonts>true</BitmapEmbeddedFonts> <Bookmarks>None</Bookmarks> <IncludeDocumentProperties>true</IncludeDocumentProperties> <IncludeDocumentStructure>true</IncludeDocumentStructure> <OutputQuality>Standard</OutputQuality> <UsePDFA>>false</UsePDFA> </FixedFormatSettings> <MarkupView>Comments Ink Text Formatting</MarkupView> <OutputFormat>PDF</OutputFormat> <OutputSaveBehavior>AppendIfPossible</OutputSaveBehavior> <RevisionState>FinalShowingMarkup</RevisionState> <SubsetEmbeddedFonts>>false</SubsetEmbeddedFonts> <UpdateFields>>false</UpdateFields> </ConversionJobSettings> </pre>

The protocol server then sends the following **AddJob** response WSDL message:

```

<AddJobResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addJob" />

```

4.1.2 Adding the First Group

The protocol client then sends the following **AddGroup** request WSDL message:

```

<AddGroupRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
  xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <GroupId>1</GroupId>
  <InputRoot>http://server/LoremIpsum/</InputRoot>
  <Items>
    <b:string>Aenean%20nec.docx</b:string>
    <b:string>Fusce%20aliquet.docx</b:string>
    <b:string>Lorem%20ipsum.docx</b:string>
    <b:string>Nunc%20viverra.docx</b:string>
    <b:string>Pellentesque.docx</b:string>
  </Items>
  <JobId>11181981853491788161</JobId>
  <OutputRoot>http://server/Archive/</OutputRoot>
</AddGroupRequest>

```

The protocol server receives the request and adds the conversion group to the database by calling the **proc_AddGroup** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	1

Parameter	Value
@InputRoot	http://server/LoremIpsum/
@OutputRoot	http://server/Archive/
@MaxAttemptsCount	1
@JobXml	<pre><group xmlns="http://schemas.microsoft.com/office/server/word/2009/08/databaseJobAdd"> <item id="1" in="Aenean%20nec.docx" /> <item id="2" in="Fusce%20aliquet.docx" /> <item id="3" in="Lorem%20ipsum.docx" /> <item id="4" in="Nunc%20viverra.docx" /> <item id="5" in="Pellentesque.docx" /> </group></pre>

The protocol server then sends the following **AddGroup** response WSDL message:

```
<AddGroupResponse
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response" />
```

4.1.3 Adding the Second Group

The protocol client then sends the following **AddItems** request WSDL message:

```
<AddItemsRequest
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
xmlns:b="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <GroupId>2</GroupId>
  <InputUrls>
    <b:string>http://server/Other/Other.docx</b:string>
  </InputUrls>
  <JobId>11181981853491788161</JobId>
  <OutputUrls>
    <b:string>http://server/Archive/Other.pdf</b:string>
  </OutputUrls>
</AddItemsRequest>
```

The protocol server receives the request and adds the conversion group to the database by calling the **proc_AddGroup** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	2
@InputRoot	NULL
@OutputRoot	NULL
@MaxAttemptsCount	1
@JobXml	<pre><group xmlns="http://schemas.microsoft.com/office/server/word/2009/08/databaseJobAdd"> <item id="1" in="http://server/Other/Other.docx" out="http://server/Archive/Other.pdf" /> </group></pre>

The protocol server then sends the following **AddItems** response WSDL message:

```
<AddItemsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response" />
```

4.1.4 Submitting the Job

The protocol client then sends the following **SubmitJob** request WSDL message:

```
<SubmitJobRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/submitJob">
  <JobId>11181981853491788161</JobId>
</SubmitJobRequest>
```

The protocol server receives the request and adds the conversion group to the database by calling the **proc_SubmitJob** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455

The protocol server then sends the following **SubmitJob** response WSDL message:

```
<SubmitJobResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response" />
```

4.2 Getting the Status of a Conversion Job

This example demonstrates how a protocol client gets an existing conversion job and retrieves its status. This example uses the conversion job defined in section [4.1](#) with a conversion job id of 11181981853491788161.

4.2.1 Getting the Jobs

The protocol client sends the following **GetJobs** request WSDL message:

```
<GetJobsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <ActiveOnly>false</ActiveOnly>
  <PartitionId i:nil="true" />
  <SubmittedOnly>true</SubmittedOnly>
  <UserToken i:nil="true" />
</GetJobsRequest>
```

The protocol server receives the request and gets the list of conversion jobs from the database by calling the **proc_GetJobs** stored procedure using the following parameters:

Parameter	Value
@PartitionId	NULL
@UserTokenHeader	NULL
@UserTokenSid	NULL
@UserTokenGroups	NULL
@ActiveOnly	0
@SubmittedOnly	1

The stored procedure returns the following **proc_GetJobs.ResultSet0** result set:

JobId	CreateTime	CancelTime	Submitted	Name
- 1731414452807260922	2010-01-08 08:42:01.833	NULL	1	A previous job
5718799996475903468	2010-01-10 10:16:26.653	2010-01-10 10:17:27.553	1	A canceled job
- 7264762220217763455	2010-01-12 11:19:49.830	NULL	1	Protocol example

The protocol server then sends the following **GetJobs** response WSDL message:

```
<GetJobsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Jobs>
    <GetJobsJob>
      <CreateTime>2010-01-08T08:42:01.833</CreateTime>
      <JobId>16715329620902290694</JobId>
      <Name>A previous job</Name>
    </GetJobsJob>
    <GetJobsJob>
      <CancelTime>2010-01-10 10:17:27.553</CancelTime>
      <CreateTime>2010-01-10 10:16:26.653</CreateTime>
    </GetJobsJob>
  </Jobs>
</GetJobsResponse>
```

```

    <JobId>5718799996475903468</JobId>
    <Name>A canceled job</Name>
  </GetJobsJob>
</GetJobsJob>
  <CreateTime>2010-01-12T11:19:49.83</CreateTime>
  <JobId>11181981853491788161</JobId>
  <Name>Protocol example</Name>
</GetJobsJob>
</Jobs>
</GetJobsResponse>

```

4.2.2 Getting the Job Status

The protocol client sends the following **GetJobStatus** request WSDL message:

```

<GetJobStatusRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <JobId>11181981853491788161</JobId>
  <PartitionId i:nil="true" />
</GetJobStatusRequest>

```

The protocol server receives the request and gets the status of the conversion job from the database by calling the **proc_GetJobStatus** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@PartitionId	NULL

The stored procedure returns the following **proc_GetJobStatus.ResultSet0** result set:

Total	NotSubmitted	NotStarted	InProgress	Succeeded	Failed	Canceled	Name
6	0	1	1	3	1	0	Protocol example

The protocol server then sends the following **GetJobStatus** response WSDL message:

```

<GetJobStatusResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response">
  <Canceled>0</Canceled>
  <Count>6</Count>
  <Failed>1</Failed>
  <InProgress>1</InProgress>
  <Name>Protocol example</Name>
  <NotStarted>1</NotStarted>
  <NotSubmitted>0</NotSubmitted>
  <Succeeded>3</Succeeded>
</GetJobStatusResponse>

```

4.2.3 Getting the Groups

The protocol client sends the following **GetGroups** request WSDL message:

```
<GetGroupsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <JobId>11181981853491788161</JobId>
  <PartitionId i:nil="true" />
</GetGroupsRequest>
```

The protocol server receives the request and gets the conversion groups in the conversion job from the database by calling the **proc_GetGroups** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@PartitionId	NULL

The stored procedure returns the following **proc_GetGroups.ResultSet0** result set:

GroupID	InputRoot	OutputRoot	CreateTime	CancelTime	Submitted	Settings
1	http://server/LoremIpsum/	http://server/Archive/	2010-01-12 11:19:49.830	NULL	1	<ConversionJobSettings xmlns="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"> <AddThumbnail>>false</AddThumbnail> <CompatibilityMode>MaintainCurrentSetting</CompatibilityMode> <DoNotEmbedSystemFonts>>false</DoNotEmbedSystemFonts> <EmbedFonts>>false</EmbedFonts> <FixedFormatSettings> <BalloonState>OnlyCommentsAndFormatting</BalloonState> <BitmapEmbeddedFonts>>true</BitmapEmbeddedFonts> <Bookmarks>None</Bookmarks> <IncludeDocumentProperties>>true</IncludeDocumentProperties> <IncludeDocumentStructure>>true</Inclu

GroupID	InputRoot	OutputRoot	CreateTime	CancelTime	Submitted	Settings
						<pre> deDocumentStructure> <OutputQuality>Standard</OutputQuality> <UsePDFA>>false</UsePDFA> </FixedFormatSettings> <MarkupView>Comments Ink Text Formatting</MarkupView> <OutputFormat>PDF</OutputFormat> <OutputSaveBehavior>AppendIfPossible</OutputSaveBehavior> <RevisionState>FinalShowingMarkup</RevisionState> <SubsetEmbeddedFonts>>false</SubsetEmbeddedFonts> <UpdateFields>>false</UpdateFields> </ConversionJobSettings> </pre>
2	NULL	NULL	2010-01-12 11:19:49.830	NULL	1	<pre> <ConversionJobSettings xmlns="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" xmlns:i="http://www.w3.org/2001/XMLSchema-instance"> <AddThumbnail>>false</AddThumbnail> <CompatibilityMode>MaintainCurrentSetting</CompatibilityMode> <DoNotEmbedSystemFonts>>false</DoNotEmbedSystemFonts> <EmbedFonts>>false</EmbedFonts> <FixedFormatSettings> <BalloonState>OnlyCommentsAndFormatting</BalloonState> </FixedFormatSettings> <BitmapEmbeddedFonts>>true</BitmapEmbeddedFonts> <Bookmarks>None</Bookmarks> <IncludeDocumentProperties>>true</IncludeDocumentProperties> <IncludeDocumentStructure>>true</IncludeDocumentStructure> <OutputQuality>Standard</OutputQuality> </pre>

GroupID	InputRoot	OutputRoot	CreateTime	CancelTime	Submitted	Settings
						y> <UsePDFA>>false</UsePDFA> </FixedFormatSettings> <MarkupView>Comments Ink Text Formatting</MarkupView> <OutputFormat>PDF</OutputFormat> <OutputSaveBehavior>AppendIfPossible</OutputSaveBehavior> <RevisionState>FinalShowingMarkup</RevisionState> <SubsetEmbeddedFonts>>false</SubsetEmbeddedFonts> <UpdateFields>>false</UpdateFields> </ConversionJobSettings>

The protocol server then sends the following **GetGroups** response WSDL message:

```

<GetGroupsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
  xmlns:b="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <CancelTime i:nil="true" />
  <CreateTime>2010-01-12T11:19:49.83</CreateTime>
  <Groups>
    <GetGroupsGroup>
      <Id>1</Id>
      <InputRoot>http://server/LoremIpsum</InputRoot>
      <OutputRoot>http://server/Archive</OutputRoot>
    </GetGroupsGroup>
    <GetGroupsGroup>
      <Id>2</Id>
    </GetGroupsGroup>
  </Groups>
  <NotSubmitted>>false</NotSubmitted>
  <Settings>
    <b:AddThumbnail>>false</b:AddThumbnail>
    <b:CompatibilityMode>MaintainCurrentSetting</b:CompatibilityMode>
    <b:DoNotEmbedSystemFonts>>true</b:DoNotEmbedSystemFonts>
    <b:EmbedFonts>>false</b:EmbedFonts>
    <b:FixedFormatSettings>
      <b:BalloonState>OnlyCommentsAndFormatting</b:BalloonState>
      <b:BitmapEmbeddedFonts>>true</b:BitmapEmbeddedFonts>
      <b:Bookmarks>None</b:Bookmarks>
      <b:IncludeDocumentProperties>>true</b:IncludeDocumentProperties>
      <b:IncludeDocumentStructure>>true</b:IncludeDocumentStructure>
      <b:OutputQuality>Standard</b:OutputQuality>
      <b:UsePDFA>>false</b:UsePDFA>
    </b:FixedFormatSettings>
    <b:MarkupView>Comments Ink Text Formatting</b:MarkupView>
    <b:OutputFormat>PDF</b:OutputFormat>

```

```

    <b:OutputSaveBehavior>AppendIfPossible</b:OutputSaveBehavior>
    <b:RevisionState>FinalShowingMarkup</b:RevisionState>
    <b:SubsetEmbeddedFonts>>false</b:SubsetEmbeddedFonts>
    <b:UpdateFields>>false</b:UpdateFields>
  </Settings>
</GetGroupsResponse>

```

4.2.4 Getting the Items in the First Group

The protocol client sends the following **GetItems** request WSDL message:

```

<GetItemsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Canceled>>false</Canceled>
  <Failed>>true</Failed>
  <GroupId>1</GroupId>
  <InProgress>>true</InProgress>
  <JobId>11181981853491788161</JobId>
  <NotStarted>>true</NotStarted>
  <NotSubmitted>>false</NotSubmitted>
  <PartitionId i:nil="true" />
  <Succeeded>>true</Succeeded>
</GetItemsRequest>

```

The protocol server receives the request and gets the conversion items in the first conversion group in the conversion job from the database by calling the **proc_GetItems** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	1
@PartitionId	NULL
@NotSubmitted	0
@NotStarted	1
@InProgress	1
@Succeeded	1
@Failed	1
@Canceled	0

The stored procedure returns the following **proc_GetItems.ResultSet0** result set:

ItemId	StartTime	StopTime	ErrorCode	InputFile	OutputFile
1	2010-01-12 11:20:02.140	2010-01-12 11:20:06.977	NULL	Aenean%20nec.docx	NULL

ItemId	StartTime	StopTime	ErrorCode	InputFile	OutputFile
2	2010-01-12 11:20:02.140	2010-01-12 11:20:07.150	99	Fusce%20aliquet.docx	NULL
3	2010-01-12 11:20:02.140	2010-01-12 11:20:07.290	NULL	Lorem%20ipsum.docx	NULL
4	2010-01-12 11:20:02.140	NULL	NULL	Nunc%20viverra.docx	NULL
5	NULL	NULL	NULL	Pellentesque.docx	NULL

The protocol server then sends the following **GetItems** response WSDL message:

```
<GetItemsResponse
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
  xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
  <Items
    xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response">
    <GetItemsItem>
      <Id>1</Id>
      <InputFile>Aenean%20nec.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
      <StopTime>2010-01-12T11:20:06.977</StopTime>
    </GetItemsItem>
    <GetItemsItem>
      <ErrorCode>99</ErrorCode>
      <Id>2</Id>
      <InputFile>Fusce%20aliquet.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
      <StopTime>2010-01-12T11:20:07.15</StopTime>
    </GetItemsItem>
    <GetItemsItem>
      <Id>3</Id>
      <InputFile>Lorem%20ipsum.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
      <StopTime>2010-01-12T11:20:07.29</StopTime>
    </GetItemsItem>
    <GetItemsItem>
      <Id>4</Id>
      <InputFile>Nunc%20viverra.docx</InputFile>
      <StartTime>2010-01-12T11:20:02.14</StartTime>
    </GetItemsItem>
    <GetItemsItem>
      <Id>5</Id>
      <InputFile>Pellentesque.docx</InputFile>
    </GetItemsItem>
  </Items>
</GetItemsResponse>
```

4.2.5 Getting the Items in the Second Group

The protocol client sends the following **GetItems** request WSDL message:

```
<GetItemsRequest
  xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
```

```

xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<Canceled>false</Canceled>
<Failed>true</Failed>
<GroupId>2</GroupId>
<InProgress>true</InProgress>
<JobId>11181981853491788161</JobId>
<NotStarted>true</NotStarted>
<NotSubmitted>false</NotSubmitted>
<PartitionId i:nil="true" />
<Succeeded>true</Succeeded>
</GetItemsRequest>

```

The protocol server receives the request and gets the conversion items in the second conversion group in the conversion job from the database by calling the **proc_GetItems** stored procedure using the following parameters:

Parameter	Value
@JobId	-7264762220217763455
@GroupId	2
@PartitionId	NULL
@NotSubmitted	0
@NotStarted	1
@InProgress	1
@Succeeded	1
@Failed	1
@Canceled	0

The stored procedure returns the following **proc_GetItems.ResultSet0** result set:

Item Id	StartTime	StopTime	ErrorCode	InputFile	OutputFile
1	2010-01-12 11:21:01.387	2010-01-12 11:21:01.690	NULL	http://server/Other/Other.docx	http://server/Archive/Other.pdf

The protocol server then sends the following **GetItems** response WSDL message:

```

<GetItemsResponse
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
<Items
xmlns="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response">
<GetItemsItem>
<Id>1</Id>
<InputFile>http://server/Other/Other.docx</InputFile>
<OutputFile>http://server/Archive/Other.pdf</OutputFile>

```



```
<StartTime>2010-01-12T11:21:01.387</StartTime>  
<StopTime>2010-01-12T11:21:01.69</StopTime>  
</GetItemsItem>  
</Items>  
</GetItemsResponse>
```

5 Security

5.1 Security Considerations for Implementers

This protocol does not introduce any additional security considerations beyond those that apply to its underlying protocols.

5.2 Index of Security Parameters

Security Parameter	Section
UserToken	2.2.3.5

6 Appendix A: Full WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns:i0="http://schemas.microsoft.com/office/server/word/2009/08/service"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/service"
  name="IWordServiceApplication"

  targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/service"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"

  <wsdl:types>
    <xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/ping"
      elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/ping"
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:element name="PingRequest">
        <xs:complexType>
          <xs:sequence />
        </xs:complexType>
      </xs:element>
    </xs:schema>
    <xs:schema
      xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
      elementFormDefault="qualified"

      targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:element name="PingResponse">
        <xs:complexType>
          <xs:sequence>
            <xs:element minOccurs="0"
              name="Count"
              type="xs:int" />
            <xs:element minOccurs="0"
              name="Received"
              type="xs:dateTime" />
            <xs:element minOccurs="0"
              name="Responded"
              type="xs:dateTime" />
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:schema>
    <xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/"
      attributeFormDefault="qualified"
      elementFormDefault="qualified"
      targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/"
      xmlns:xs="http://www.w3.org/2001/XMLSchema">
      <xs:element name="anyType"
        nillable="true"
        type="xs:anyType" />
      <xs:element name="anyURI"
        nillable="true"
        type="xs:anyURI" />
      <xs:element name="base64Binary"
```

```

        nillable="true"
        type="xs:base64Binary" />
<xs:element name="boolean"
    nillable="true"
    type="xs:boolean" />
<xs:element name="byte"
    nillable="true"
    type="xs:byte" />
<xs:element name="dateTime"
    nillable="true"
    type="xs:dateTime" />
<xs:element name="decimal"
    nillable="true"
    type="xs:decimal" />
<xs:element name="double"
    nillable="true"
    type="xs:double" />
<xs:element name="float"
    nillable="true"
    type="xs:float" />
<xs:element name="int"
    nillable="true"
    type="xs:int" />
<xs:element name="long"
    nillable="true"
    type="xs:long" />
<xs:element name="QName"
    nillable="true"
    type="xs:QName" />
<xs:element name="short"
    nillable="true"
    type="xs:short" />
<xs:element name="string"
    nillable="true"
    type="xs:string" />
<xs:element name="unsignedByte"
    nillable="true"
    type="xs:unsignedByte" />
<xs:element name="unsignedInt"
    nillable="true"
    type="xs:unsignedInt" />
<xs:element name="unsignedLong"
    nillable="true"
    type="xs:unsignedLong" />
<xs:element name="unsignedShort"
    nillable="true"
    type="xs:unsignedShort" />
<xs:element name="char"
    nillable="true"
    type="tns:char" />
<xs:simpleType name="char">
    <xs:restriction base="xs:int" />
</xs:simpleType>
<xs:element name="duration"
    nillable="true"
    type="tns:duration" />
<xs:simpleType name="duration">
    <xs:restriction base="xs:duration">
        <xs:pattern value="\-?P(\d*D)?(T(\d*H)?(\d*M)?(\d*(\.\d*)?S)?)?" />
    
```

```

        <xs:minInclusive value="-P10675199DT2H48M5.4775808S" />
        <xs:maxInclusive value="P10675199DT2H48M5.4775807S" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="guid"
    nillable="true"
    type="tns:guid" />
<xs:simpleType name="guid">
    <xs:restriction base="xs:string">
        <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}" />
    </xs:restriction>
</xs:simpleType>
<xs:attribute name="FactoryType"
    type="xs:QName" />
<xs:attribute name="Id"
    type="xs:ID" />
<xs:attribute name="Ref"
    type="xs:IDREF" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:element name="CancelJobRequest">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0"
                    name="JobId"
                    type="xs:unsignedLong" />
                <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
                    minOccurs="0"
                    name="PartitionId"
                    nillable="true"
                    type="q1:guid" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:element name="CancelJobResponse">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">

```

```

<xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
<xs:element name="GetJobStatusRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0"
        name="JobId"
        type="xs:unsignedLong" />
      <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0"
        name="PartitionId"
        nillable="true"
        type="q1:guid" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
  elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/respons
e"

  xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:element name="GetJobStatusResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0"
        name="Canceled"
        type="xs:int" />
      <xs:element minOccurs="0"
        name="Count"
        type="xs:int" />
      <xs:element minOccurs="0"
        name="Failed"
        type="xs:int" />
      <xs:element minOccurs="0"
        name="InProgress"
        type="xs:int" />
      <xs:element minOccurs="0"
        name="Name"
        nillable="true"
        type="xs:string" />
      <xs:element minOccurs="0"
        name="NotStarted"
        type="xs:int" />
      <xs:element minOccurs="0"
        name="NotSubmitted"
        type="xs:int" />
      <xs:element minOccurs="0"
        name="Succeeded"
        type="xs:int" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
  elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addJob"

```

```

        xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" />
    <xs:element name="AddJobRequest">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0"
                    name="JobId"
                    type="xs:unsignedLong" />
                <xs:element minOccurs="0"
                    name="Name"
                    nillable="true"
                    type="xs:string" />
                <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
                    minOccurs="0"
                    name="PartitionId"
                    nillable="true"
                    type="q1:guid" />
                <xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
                    minOccurs="0"
                    name="Settings"
                    nillable="true"
                    type="q2:ConversionJobSettings" />
                <xs:element minOccurs="0"
                    name="UserToken"
                    nillable="true"
                    type="xs:base64Binary" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="AddJobResponse">
        <xs:complexType>
            <xs:sequence />
        </xs:complexType>
    </xs:element>
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSetting
s"
        xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
/>
    <xs:complexType name="ConversionJobSettings">
        <xs:sequence>
            <xs:element minOccurs="0"
                name="AddThumbnail"
                type="xs:boolean" />
            <xs:element
xmlns:q1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
                minOccurs="0"
                name="CompatibilityMode"
                type="q1:CompatibilityMode" />
            <xs:element minOccurs="0"
                name="DefaultLanguageId"

```

```

        nillable="true"
        type="xs:string" />
<xs:element minOccurs="0"
    name="DoNotEmbedSystemFonts"
    type="xs:boolean" />
<xs:element minOccurs="0"
    name="EmbedFonts"
    type="xs:boolean" />
<xs:element minOccurs="0"
    name="FixedFormatSettings"
    nillable="true"
    type="tns:FixedFormatSettings" />
<xs:element
xmlns:q2="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0"
    name="MarkupView"
    type="q2:MarkupTypes" />
<xs:element
xmlns:q3="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0"
    name="OutputFormat"
    type="q3:SaveFormat" />
<xs:element
xmlns:q4="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0"
    name="OutputSaveBehavior"
    type="q4:SaveBehavior" />
<xs:element
xmlns:q5="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0"
    name="RevisionState"
    type="q5:RevisionState" />
<xs:element minOccurs="0"
    name="SubsetEmbeddedFonts"
    type="xs:boolean" />
<xs:element minOccurs="0"
    name="UpdateFields"
    type="xs:boolean" />
</xs:sequence>
</xs:complexType>
<xs:element name="ConversionJobSettings"
    nillable="true"
    type="tns:ConversionJobSettings" />
<xs:complexType name="FixedFormatSettings">
    <xs:sequence>
        <xs:element
xmlns:q6="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
            minOccurs="0"
            name="BalloonState"
            type="q6:BalloonState" />
        <xs:element minOccurs="0"
            name="BitmapEmbeddedFonts"
            type="xs:boolean" />
    </xs:sequence>
</xs:complexType>
xmlns:q7="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    minOccurs="0"
    name="Bookmarks"
    type="q7:FixedFormatBookmark" />
<xs:element minOccurs="0"

```



```

        name="IncludeDocumentProperties"
        type="xs:boolean" />
    <xs:element minOccurs="0"
        name="IncludeDocumentStructure"
        type="xs:boolean" />
    <xs:element
xmlns:q8="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
        minOccurs="0"
        name="OutputQuality"
        type="q8:FixedFormatQuality" />
    <xs:element minOccurs="0"
        name="UsePDFA"
        type="xs:boolean" />
</xs:sequence>
</xs:complexType>
<xs:element name="FixedFormatSettings"
    nillable="true"
    type="tns:FixedFormatSettings" />
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"
    elementFormDefault="qualified"

targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Word.Server.Conversions"

        xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:simpleType name="CompatibilityMode">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Word2003" />
            <xs:enumeration value="Word2007" />
            <xs:enumeration value="Word2010" />
            <xs:enumeration value="MaintainCurrentSetting" />
            <xs:enumeration value="Current" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="CompatibilityMode"
        nillable="true"
        type="tns:CompatibilityMode" />
    <xs:simpleType name="BalloonState">
        <xs:restriction base="xs:string">
            <xs:enumeration value="AlwaysUse" />
            <xs:enumeration value="Inline" />
            <xs:enumeration value="OnlyCommentsAndFormatting" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="BalloonState"
        nillable="true"
        type="tns:BalloonState" />
    <xs:simpleType name="FixedFormatBookmark">
        <xs:restriction base="xs:string">
            <xs:enumeration value="None" />
            <xs:enumeration value="Headings" />
            <xs:enumeration value="Bookmarks" />
        </xs:restriction>
    </xs:simpleType>
    <xs:element name="FixedFormatBookmark"
        nillable="true"
        type="tns:FixedFormatBookmark" />

```

```

<xs:simpleType name="FixedFormatQuality">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Standard" />
    <xs:enumeration value="Minimum" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="FixedFormatQuality"
  nillable="true"
  type="tns:FixedFormatQuality" />
<xs:simpleType name="MarkupTypes">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="Comments" />
        <xs:enumeration value="Ink" />
        <xs:enumeration value="Text" />
        <xs:enumeration value="Formatting" />
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="MarkupTypes"
  nillable="true"
  type="tns:MarkupTypes" />
<xs:simpleType name="SaveFormat">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Automatic" />
    <xs:enumeration value="Document" />
    <xs:enumeration value="DocumentMacroEnabled" />
    <xs:enumeration value="Document97" />
    <xs:enumeration value="Template" />
    <xs:enumeration value="TemplateMacroEnabled" />
    <xs:enumeration value="Template97" />
    <xs:enumeration value="MHTML" />
    <xs:enumeration value="PDF" />
    <xs:enumeration value="RTF" />
    <xs:enumeration value="XML" />
    <xs:enumeration value="XPS" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="SaveFormat"
  nillable="true"
  type="tns:SaveFormat" />
<xs:simpleType name="SaveBehavior">
  <xs:restriction base="xs:string">
    <xs:enumeration value="AppendIfPossible" />
    <xs:enumeration value="AlwaysOverwrite" />
    <xs:enumeration value="AppendOnly" />
    <xs:enumeration value="NeverOverwrite" />
  </xs:restriction>
</xs:simpleType>
<xs:element name="SaveBehavior"
  nillable="true"
  type="tns:SaveBehavior" />
<xs:simpleType name="RevisionState">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Final" />
    <xs:enumeration value="FinalShowingMarkup" />
    <xs:enumeration value="Original" />
  </xs:restriction>

```

```

        <xs:enumeration value="OriginalShowingMarkup" />
    </xs:restriction>
</xs:simpleType>
<xs:element name="RevisionState"
    nillable="true"
    type="tns:RevisionState" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
    <xs:element name="AddGroupRequest">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0"
                    name="GroupId"
                    type="xs:short" />
                <xs:element minOccurs="0"
                    name="InputRoot"
                    nillable="true"
                    type="xs:string" />
                <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
                    minOccurs="0"
                    name="Items"
                    nillable="true"
                    type="q1:ArrayOfstring" />
                <xs:element minOccurs="0"
                    name="JobId"
                    type="xs:unsignedLong" />
                <xs:element minOccurs="0"
                    name="OutputRoot"
                    nillable="true"
                    type="xs:string" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
    elementFormDefault="qualified"
    targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch" />
    <xs:complexType name="ArrayOfstring">
        <xs:sequence>
            <xs:element minOccurs="0"
                maxOccurs="unbounded"
                name="string"
                nillable="true"
                type="xs:string" />
        </xs:sequence>
    </xs:complexType>
    <xs:element name="ArrayOfstring"
        nillable="true"
        type="tns:ArrayOfstring" />
    <xs:complexType name="ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA">
        <xs:sequence>

```

```

    <xs:element minOccurs="0"
      maxOccurs="unbounded"
      name="KeyValueOfunsignedLongConvertBatchJobdfuNjXEA">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="Key"
            type="xs:unsignedLong" />
          <xs:element
            xmlns:q1="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
            name="Value"
            nillable="true"
            type="q1:ConvertBatchJob" />
        </xs:sequence>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA"
  nillable="true"
  type="tns:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA" />
</xs:schema>
<xs:schema
  xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
  elementFormDefault="qualified"

  targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import
    namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" />
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:element name="ConvertBatchRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0"
          name="Items"
          nillable="true"
          type="tns:ArrayOfConvertBatchItem" />
        <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0"
          name="Jobs"
          nillable="true"
          type="q1:ArrayOfKeyValueOfunsignedLongConvertBatchJobdfuNjXEA" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfConvertBatchItem">
    <xs:sequence>
      <xs:element minOccurs="0"
        maxOccurs="unbounded"
        name="ConvertBatchItem"
        nillable="true"
        type="tns:ConvertBatchItem" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfConvertBatchItem"
    nillable="true"
    type="tns:ArrayOfConvertBatchItem" />
  <xs:complexType name="ConvertBatchItem">
    <xs:sequence>

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    <xs:element minOccurs="0"
      name="GroupId"
      type="xs:short" />
    <xs:element minOccurs="0"
      name="InputFile"
      nillable="true"
      type="xs:string" />
    <xs:element minOccurs="0"
      name="ItemId"
      type="xs:int" />
    <xs:element minOccurs="0"
      name="JobId"
      type="xs:unsignedLong" />
    <xs:element minOccurs="0"
      name="OutputFile"
      nillable="true"
      type="xs:string" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ConvertBatchItem"
  nillable="true"
  type="tns:ConvertBatchItem" />
<xs:complexType name="ConvertBatchJob">
  <xs:sequence>
    <xs:element
      xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
      minOccurs="0"
      name="Settings"
      nillable="true"
      type="q2:ConversionJobSettings" />
    <xs:element minOccurs="0"
      name="UserToken"
      nillable="true"
      type="xs:base64Binary" />
  </xs:sequence>
</xs:complexType>
<xs:element name="ConvertBatchJob"
  nillable="true"
  type="tns:ConvertBatchJob" />
</xs:schema>
<xs:schema
  xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
  elementFormDefault="qualified"

  targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="AddGroupResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
  <xs:element name="AddItemsResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
  elementFormDefault="qualified"

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targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" />
  <xs:element name="AddItemsRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0"
          name="GroupId"
          type="xs:short" />
        <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0"
          name="InputUrls"
          nillable="true"
          type="q1:ArrayOfstring" />
        <xs:element minOccurs="0"
          name="JobId"
          type="xs:unsignedLong" />
        <xs:element xmlns:q2="http://schemas.microsoft.com/2003/10/Serialization/Arrays"
          minOccurs="0"
          name="OutputUrls"
          nillable="true"
          type="q2:ArrayOfstring" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
  elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="SubmitJobRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0"
          name="JobId"
          type="xs:unsignedLong" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
  elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="SubmitJobResponse">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
  elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">

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<xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
<xs:element name="GetJobsRequest">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0"
        name="ActiveOnly"
        type="xs:boolean" />
      <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
        minOccurs="0"
        name="PartitionId"
        nillable="true"
        type="q1:guid" />
      <xs:element minOccurs="0"
        name="SubmittedOnly"
        type="xs:boolean" />
      <xs:element minOccurs="0"
        name="UserToken"
        nillable="true"
        type="xs:base64Binary" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
<xs:schema
  xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
  elementFormDefault="qualified"

  targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetJobsResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0"
          name="Jobs"
          nillable="true"
          type="tns:ArrayOfGetJobsJob" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ArrayOfGetJobsJob">
    <xs:sequence>
      <xs:element minOccurs="0"
        maxOccurs="unbounded"
        name="GetJobsJob"
        nillable="true"
        type="tns:GetJobsJob" />
    </xs:sequence>
  </xs:complexType>
  <xs:element name="ArrayOfGetJobsJob"
    nillable="true"
    type="tns:ArrayOfGetJobsJob" />
  <xs:complexType name="GetJobsJob">
    <xs:sequence>
      <xs:element minOccurs="0"
        name="CancelTime"
        nillable="true"
        type="xs:dateTime" />
      <xs:element minOccurs="0"
        name="CreateTime"

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        type="xs:dateTime" />
    <xs:element minOccurs="0"
        name="JobId"
        type="xs:unsignedLong" />
    <xs:element minOccurs="0"
        name="Name"
        nillable="true"
        type="xs:string" />
    <xs:element minOccurs="0"
        name="NotSubmitted"
        type="xs:boolean" />
</xs:sequence>
</xs:complexType>
<xs:element name="GetJobsJob"
    nillable="true"
    type="tns:GetJobsJob" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:element name="GetGroupsRequest">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0"
                    name="JobId"
                    type="xs:unsignedLong" />
                <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
                    minOccurs="0"
                    name="PartitionId"
                    nillable="true"
                    type="q1:guid" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
</xs:schema>
<xs:schema
    xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import
        namespace="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings" />
    <xs:element name="GetGroupsResponse">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0"
                    name="CancelTime"
                    nillable="true"
                    type="xs:dateTime" />
                <xs:element minOccurs="0"
                    name="CreateTime"
                    type="xs:dateTime" />
                <xs:element minOccurs="0"
                    name="Groups"
                    nillable="true"

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        type="tns:ArrayOfGetGroupsGroup" />
    <xs:element minOccurs="0"
        name="NotSubmitted"
        type="xs:boolean" />
    <xs:element
xmlns:q1="http://schemas.microsoft.com/office/server/word/2009/08/conversionJobSettings"
        minOccurs="0"
        name="Settings"
        nillable="true"
        type="q1:ConversionJobSettings" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:complexType name="ArrayOfGetGroupsGroup">
    <xs:sequence>
        <xs:element minOccurs="0"
            maxOccurs="unbounded"
            name="GetGroupsGroup"
            nillable="true"
            type="tns:GetGroupsGroup" />
    </xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfGetGroupsGroup"
    nillable="true"
    type="tns:ArrayOfGetGroupsGroup" />
<xs:complexType name="GetGroupsGroup">
    <xs:sequence>
        <xs:element minOccurs="0"
            name="Id"
            type="xs:short" />
        <xs:element minOccurs="0"
            name="InputRoot"
            nillable="true"
            type="xs:string" />
        <xs:element minOccurs="0"
            name="OutputRoot"
            nillable="true"
            type="xs:string" />
    </xs:sequence>
</xs:complexType>
<xs:element name="GetGroupsGroup"
    nillable="true"
    type="tns:GetGroupsGroup" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
    <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    <xs:import
namespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response" />
    <xs:element name="GetItemsRequest">
        <xs:complexType>
            <xs:sequence>
                <xs:element minOccurs="0"
                    name="Canceled"
                    type="xs:boolean" />
                <xs:element minOccurs="0"

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        name="Failed"
        type="xs:boolean" />
<xs:element minOccurs="0"
    name="GroupId"
    type="xs:short" />
<xs:element minOccurs="0"
    name="InProgress"
    type="xs:boolean" />
<xs:element minOccurs="0"
    name="JobId"
    type="xs:unsignedLong" />
<xs:element minOccurs="0"
    name="NotStarted"
    type="xs:boolean" />
<xs:element minOccurs="0"
    name="NotSubmitted"
    type="xs:boolean" />
<xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
    minOccurs="0"
    name="PartitionId"
    nillable="true"
    type="q1:guid" />
<xs:element minOccurs="0"
    name="Succeeded"
    type="xs:boolean" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="GetItemsResponse">
<xs:complexType>
<xs:sequence>
<xs:element
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
    minOccurs="0"
    ref="q2:Items" />
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:complexType name="ArrayOfGetItemsItem">
<xs:sequence>
<xs:element minOccurs="0"
    maxOccurs="unbounded"
    name="GetItemsItem"
    nillable="true"
    type="tns:GetItemsItem" />
</xs:sequence>
</xs:complexType>
<xs:element name="ArrayOfGetItemsItem"
    nillable="true"
    type="tns:ArrayOfGetItemsItem" />
<xs:complexType name="GetItemsItem">
<xs:sequence>

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    <xs:element minOccurs="0"
        name="ErrorCode"
        nillable="true"
        type="xs:int" />
    <xs:element minOccurs="0"
        name="Id"
        type="xs:int" />
    <xs:element minOccurs="0"
        name="InputFile"
        nillable="true"
        type="xs:string" />
    <xs:element minOccurs="0"
        name="OutputFile"
        nillable="true"
        type="xs:string" />
    <xs:element minOccurs="0"
        name="StartTime"
        nillable="true"
        type="xs:dateTime" />
    <xs:element minOccurs="0"
        name="StopTime"
        nillable="true"
        type="xs:dateTime" />
  </xs:sequence>
</xs:complexType>
<xs:element name="GetItemsItem"
    nillable="true"
    type="tns:GetItemsItem" />
<xs:element name="Items"
    nillable="true"
    type="tns:ArrayOfGetItemsItem" />
</xs:schema>
<xs:schema xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getId"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getId"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="GetIdRequest">
    <xs:complexType>
      <xs:sequence />
    </xs:complexType>
  </xs:element>
</xs:schema>
<xs:schema
xmlns:tns="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
    elementFormDefault="qualified"

targetNamespace="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
    xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:element name="GetIdResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0"
            name="AssignedItemCount"
            type="xs:int" />
        <xs:element xmlns:q1="http://schemas.microsoft.com/2003/10/Serialization/"
            minOccurs="0"
            name="Id"

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        type="q1:guid" />
    </xs:sequence>
</xs:complexType>
</xs:element>
</xs:schema>
</wsdl:types>
<wsdl:message name="PingRequest">
    <wsdl:part xmlns:q1="http://schemas.microsoft.com/office/server/word/2009/08/ping"
        name="parameters"
        element="q1:PingRequest" />
</wsdl:message>
<wsdl:message name="PingResponse">
    <wsdl:part
xmlns:q2="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
        name="parameters"
        element="q2:PingResponse" />
</wsdl:message>
<wsdl:message name="CancelJobRequest">
    <wsdl:part xmlns:q3="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
        name="parameters"
        element="q3:CancelJobRequest" />
</wsdl:message>
<wsdl:message name="CancelJobResponse">
    <wsdl:part
xmlns:q4="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
        name="parameters"
        element="q4:CancelJobResponse" />
</wsdl:message>
<wsdl:message name="GetJobStatusRequest">
    <wsdl:part
xmlns:q5="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
        name="parameters"
        element="q5:GetJobStatusRequest" />
</wsdl:message>
<wsdl:message name="GetJobStatusResponse">
    <wsdl:part
xmlns:q6="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
        name="parameters"
        element="q6:GetJobStatusResponse" />
</wsdl:message>
<wsdl:message name="AddJobRequest">
    <wsdl:part xmlns:q7="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
        name="parameters"
        element="q7:AddJobRequest" />
</wsdl:message>
<wsdl:message name="AddJobResponse">
    <wsdl:part xmlns:q8="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
        name="parameters"
        element="q8:AddJobResponse" />
</wsdl:message>
<wsdl:message name="AddGroupRequest">
    <wsdl:part xmlns:q9="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
        name="parameters"
        element="q9:AddGroupRequest" />
</wsdl:message>
<wsdl:message name="AddGroupResponse">
    <wsdl:part
xmlns:q10="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
        name="parameters"

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        element="q10:AddGroupResponse" />
</wsdl:message>
<wsdl:message name="AddItemsRequest">
  <wsdl:part xmlns:q11="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
    name="parameters"
    element="q11:AddItemsRequest" />
</wsdl:message>
<wsdl:message name="AddItemsResponse">
  <wsdl:part
xmlns:q12="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
    name="parameters"
    element="q12:AddItemsResponse" />
</wsdl:message>
<wsdl:message name="SubmitJobRequest">
  <wsdl:part xmlns:q13="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
    name="parameters"
    element="q13:SubmitJobRequest" />
</wsdl:message>
<wsdl:message name="SubmitJobResponse">
  <wsdl:part
xmlns:q14="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
    name="parameters"
    element="q14:SubmitJobResponse" />
</wsdl:message>
<wsdl:message name="GetJobsRequest">
  <wsdl:part xmlns:q15="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
    name="parameters"
    element="q15:GetJobsRequest" />
</wsdl:message>
<wsdl:message name="GetJobsResponse">
  <wsdl:part
xmlns:q16="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
    name="parameters"
    element="q16:GetJobsResponse" />
</wsdl:message>
<wsdl:message name="GetGroupsRequest">
  <wsdl:part xmlns:q17="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
    name="parameters"
    element="q17:GetGroupsRequest" />
</wsdl:message>
<wsdl:message name="GetGroupsResponse">
  <wsdl:part
xmlns:q18="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
    name="parameters"
    element="q18:GetGroupsResponse" />
</wsdl:message>
<wsdl:message name="GetItemsRequest">
  <wsdl:part xmlns:q19="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
    name="parameters"
    element="q19:GetItemsRequest" />
</wsdl:message>
<wsdl:message name="GetItemsResponse">
  <wsdl:part xmlns:q20="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
    name="parameters"
    element="q20:GetItemsResponse" />
</wsdl:message>
<wsdl:message name="ConvertBatchRequest">
  <wsdl:part
xmlns:q21="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"

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                name="parameters"
                element="q21:ConvertBatchRequest" />
</wsdl:message>
<wsdl:message name="GetIdRequest">
  <wsdl:part xmlns:q22="http://schemas.microsoft.com/office/server/word/2009/08/getId"
    name="parameters"
    element="q22:GetIdRequest" />
</wsdl:message>
<wsdl:message name="GetIdResponse">
  <wsdl:part
xmlns:q23="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
    name="parameters"
    element="q23:GetIdResponse" />
</wsdl:message>
<wsdl:portType name="IWordServiceApplication">
  <wsdl:operation name="Ping">
    <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping"
      name="PingRequest"
      message="tns:PingRequest" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/ping/response"
      name="PingResponse"
      message="tns:PingResponse" />
  </wsdl:operation>
  <wsdl:operation name="CancelJob">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
      name="CancelJobRequest"
      message="tns:CancelJobRequest" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob/response"
      name="CancelJobResponse"
      message="tns:CancelJobResponse" />
  </wsdl:operation>
  <wsdl:operation name="GetJobStatus">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
      name="GetJobStatusRequest"
      message="tns:GetJobStatusRequest" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus/response"
      name="GetJobStatusResponse"
      message="tns:GetJobStatusResponse" />
  </wsdl:operation>
  <wsdl:operation name="AddJob">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
      name="AddJobRequest"
      message="tns:AddJobRequest" />
    <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addJob/response"
      name="AddJobResponse"
      message="tns:AddJobResponse" />
  </wsdl:operation>
  <wsdl:operation name="AddGroup">
    <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
      name="AddGroupRequest"
      message="tns:AddGroupRequest" />

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        <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
            name="AddGroupResponse"
            message="tns:AddGroupResponse" />
    </wsdl:operation>
    <wsdl:operation name="AddItems">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
            name="AddItemsRequest"
            message="tns:AddItemsRequest" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/addGroup/response"
            name="AddItemsResponse"
            message="tns:AddItemsResponse" />
    </wsdl:operation>
    <wsdl:operation name="SubmitJob">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
            name="SubmitJobRequest"
            message="tns:SubmitJobRequest" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/submitJob/response"
            name="SubmitJobResponse"
            message="tns:SubmitJobResponse" />
    </wsdl:operation>
    <wsdl:operation name="GetJobs">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
            name="GetJobsRequest"
            message="tns:GetJobsRequest" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getJobs/response"
            name="GetJobsResponse"
            message="tns:GetJobsResponse" />
    </wsdl:operation>
    <wsdl:operation name="GetGroups">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
            name="GetGroupsRequest"
            message="tns:GetGroupsRequest" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getGroups/response"
            name="GetGroupsResponse"
            message="tns:GetGroupsResponse" />
    </wsdl:operation>
    <wsdl:operation name="GetItems">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
            name="GetItemsRequest"
            message="tns:GetItemsRequest" />
        <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getItems/response"
            name="GetItemsResponse"
            message="tns:GetItemsResponse" />
    </wsdl:operation>
    <wsdl:operation name="ConvertBatch">
        <wsdl:input
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
            name="ConvertBatchRequest"
            message="tns:ConvertBatchRequest" />

```

```

</wsdl:operation>
<wsdl:operation name="GetId">
  <wsdl:input wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId"
    name="GetIdRequest"
    message="tns:GetIdRequest" />
  <wsdl:output
wsam:Action="http://schemas.microsoft.com/office/server/word/2009/08/getId/response"
    name="GetIdResponse"
    message="tns:GetIdResponse" />
</wsdl:operation>
</wsdl:portType>
<wsdl:binding name="CustomBinding_IWordServiceApplication"
  type="tns:IWordServiceApplication">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http" />
  <wsdl:operation name="Ping">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/ping"
      style="document" />
    <wsdl:input name="PingRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="PingResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="CancelJob">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/cancelJob"
      style="document" />
    <wsdl:input name="CancelJobRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="CancelJobResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetJobStatus">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getJobStatus"
      style="document" />
    <wsdl:input name="GetJobStatusRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="GetJobStatusResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="AddJob">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addJob"
      style="document" />
    <wsdl:input name="AddJobRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="AddJobResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="AddGroup">

```



```

    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addGroup"
    style="document" />
    <wsdl:input name="AddGroupRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="AddGroupResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="AddItems">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/addItems"
    style="document" />
    <wsdl:input name="AddItemsRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="AddItemsResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="SubmitJob">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/submitJob"
    style="document" />
    <wsdl:input name="SubmitJobRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="SubmitJobResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetJobs">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getJobs"
    style="document" />
    <wsdl:input name="GetJobsRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="GetJobsResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetGroups">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getGroups"
    style="document" />
    <wsdl:input name="GetGroupsRequest">
      <soap:body use="literal" />
    </wsdl:input>
    <wsdl:output name="GetGroupsResponse">
      <soap:body use="literal" />
    </wsdl:output>
  </wsdl:operation>
  <wsdl:operation name="GetItems">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getItems"
    style="document" />
    <wsdl:input name="GetItemsRequest">

```

```

    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output name="GetItemsResponse">
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
<wsdl:operation name="ConvertBatch">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/convertBatch"
    style="document" />
  <wsdl:input name="ConvertBatchRequest">
    <soap:body use="literal" />
  </wsdl:input>
</wsdl:operation>
<wsdl:operation name="GetId">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/server/word/2009/08/getId"
    style="document" />
  <wsdl:input name="GetIdRequest">
    <soap:body use="literal" />
  </wsdl:input>
  <wsdl:output name="GetIdResponse">
    <soap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

7 Appendix B: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® SharePoint® Server 2010

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

8 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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