

For V 1.01 Standard Device Template

Naming conventions and versioning (Device Template Title Page)

- ___ 1. The Device name is compliant with UPnP naming and versioning conventions
 - a) Device name is descriptive of function and is < 64 characters
 - b) Capitalizes first letter of each word used in name of the DeviceType
 - c) Draft version number 0.8 - 0.9 is appended to the device name reflecting TDC.
 - d) Template file name should match the device name and version replacing ":" with a space. For example, file name = DeviceType 0.8

Overview and Scope (Device Template Section 1)

- ___ 2. The Overview provides a synopsis of the device's function and intended application.
 - a) Provides a clear, 3-5 sentence summary of device functionality.
 - b) Identifies primary functions at the embedded device and service level
 - c) Identifies functionality not addressed by this device.
 - d) Functional diagram includes all major functional components of the device.
 - e) Includes a change log outlining evolution of the design at a high level.

Device Model (Device Template section 2.2)

- ___ 3. All devices (required and optional) are specified in the Device Requirements table.
 - a) The defining DeviceType is listed first followed by embedded devices (indented to show hierarchy).
 - b) Each embedded device includes a minimum version number.
 - c) Root devices are specified. Any device may be root (ie; a root device description includes embedded devices in it's deviceList, where these devices may share an optional Presentation URL versus each device exposing an independent device description and Presentation URL.)
 - d) Each device is listed as either required or optional.
 - e) The Device Requirements table explicitly specifies any embedded options required by the standard DeviceType:V being defined. Note, for each embedded device, only it's required services and embedded devices are assumed. Therefore, the Device Requirements table must explicitly specify any embedded options that are required.

- ___ 4. All services (required and optional) are specified in the Device Requirements table.
 - a) Each service has a minimum version number.
 - b) Each service is listed as either required or optional in the context of the defining DeviceType:V (not in the context of the embedded device).
 - c) Each service includes a "ServiceID" that is < 64 characters and is unique within the device context.
 - d) ServiceIDs for multiple instances of a service use a common descriptive name with an index as necessary to identify the instance.

- ___ 5. The Description of Device Requirements (recommended) is provided where necessary.
 - a) Common services shared between devices are identified (if any)
 - b) Multiple instances of a given service are identified (if any)

- ___ 6. Dependencies and/or interactions (if any) between embedded devices and services are fully specified in section 2.2.2.
 - Note: If no dependencies or interactions are specified, then each embedded device and service is assumed to function independently.
 - For example, most devices will need to specify the affect the SwitchPower service will have on other services.
 - Dependencies and interactions must be adequately specified to facilitate implementation and specification of Device semantic test cases.

Theory of operation (Device Template section 2.3)

- ___ 7. The Theory of operation (optional) provides a description of device functionality as necessary to facilitate implementation and application.
 - a) Includes definition of terms if needed
 - b) Provides a pseudo-code description of action sequences that demonstrate how a control point is intended to interact with this device, and explicitly demonstrates the relationships specified in section 2.2.2. Relationships Between Services (if any).
 - c) Provides a description of the internal function of the device for example, it's state model (where necessary tp describe device behavior).

XML Device Template (Device Template section 3.0)

- ___ 8. The XML Device Template is complete
 - a) Information identified by Red italics has been specified by the working committee.
 - b) The Device Template is consistent with the Device Requirements table.
 - c) All device options (Embedded devices and services) have been specified in the XML Device Template.

- ___ 9. The XML syntax is well formed. Use the following procedure to verify syntax:
 - a) Procedure to be provided.

- ___ 10. The XML schema is valid in accordance with the UPnP template language. Use the following procedure to validate the schema:
 - a) Procedure to be provided.

Test (Template section 4.0)

- ___ 8. TBD

Template Design Complete (TDC) – To be formally declared by the Working Committee

- ___ 11. This Device template meets Version .8 TDC criteria suitable for implementation and test.
- a) This device definition meets requirements of targeted product scenarios
 - d) There are no unresolved design issues that would prevent sample implementations.
 - e) The design has been reviewed by at least 3 sample implementers.
 - b) This device model is well defined in accordance with this checklist.
 - c) This device template effectively balances the tradeoffs between:
 - Baseline functional requirements for the V1 device
 - Implementation complexity (no. of embedded devices and services)
 - Re-usability (modular, generic building blocks where feasible)
 - Extensibility (Is extensible for Version 2 of the device – if applicable).
 - d) Device options (embedded devices and services) are limited to the core set required for sample implementation and standardization.
 - e) The XML device template is complete.
 - f) Optional and Recommended design descriptions have been completed to the satisfaction of the working committee including:
 - Description of Device Requirements
 - Relationships Between Services
 - Theory of Operation