UPnP+ Certification

In order to improve UPnP technology implementations and encourage the use of the latest version of UPnP specifications, UPnP Forum has created the UPnP+ certification level. UPnP+ certified products will be more reliable, more secure and will have increased functionality. The anticipated benefits include improved features and performance in:

- Interoperability
- Security
- Evolving standards (HTML5, IPv6, etc.)
- Cloud-based features
- New services

In support of this effort, UPnP Forum is in the process of updating the UPnP Certification Test Tool for enhanced testing and will expand its testing program to improve the quality of open source implementations.

The following are the requirements for UPnP+ certification compared to UPnP certification for all UPnP certified devices.

Specification	UPnP Certification	UPnP+ Certification
UDA	 UPnP version 1.0 is a minimum requirement, UPnP version 1.1 is optional 	UPnP version 2.0 is a minimum requirement
IPv6 Annex	 UPnP certification requires IPv4 support IPv6 support is optional and the currently published IPv6 annex is out of date 	UPnP+ certification requires dual-stack (IPv4/IPv6) implementation as described in the new UPnP UDA annex
UDA Cloud Annex	UDA V1.0 devices cannot be certified as cloud devices, however legacy UDA V1.0 devices can be bridged to the cloud using a UPnP+ certified CPDev Cloud Proxy device	 UPnP cloud device support (UCCD) is mandatory for UPnP+ device certification UPnP cloud control point support (UCC-CP) is mandatory for UPnP+ control point certification

UPnP+ Certification

The following are the requirements for UPnP+ certification compared to UPnP certification for floating services. These services can be added to other device types.

Service	UPnP Certification	UPnP+ Certification
DeviceProtection	DeviceProtection:1 is optional	 DeviceProtection:1 is required for UPnP+ certification http://upnp.org/specs/gw/deviceprotection1/ http://sourceforge.net/projects/upnpdm/ - an open source implementation from Orange (includes DeviceProtection, DeviceManagement: BMS & CMS & SMS)
FriendlyInfoUpdate	FriendlyInfoUpdate:1 support is optional	 FriendlyInfoUpdate:1 support is mandatory for UPnP+ certification
EnergyManagement	EnergyManagement:1 is optional	 EnergyManagement:1 support is mandatory in UPnP+ certification EnergyManagement proxy is mandatory for mains powered devices http://upnp.org/specs/lp/energymanagement1/
BasicManagementService	BasicManagementService:1 is optional	BasicManagementService:2 is mandatory
ConfigurationManagementSer vice	 ConfigurationManagement Service:1 is optional 	ConfigurationManagementService:2 is optional
SoftwareManagementService	 SoftwareManagementServi ce:1 is optional 	SoftwareManagementService:2 is optional
QOS	QOS:2 is optional	QOS:2 is optional
QOS	• QOS:3 is optional	QOS:3 is optional

UPnP+ Certification

The following are the requirements for UPnP+ certification compared to UPnP certification for individual Device Control Protocols. If a particular DCP is used, the UPnP+ requirements for that device must be met for UPnP+ certification. DCPs not listed in this table have no additional requirements for UPnP+ certification.

Specification	UPnP Certification	UPnP+ Certification
IGD	• IGD:1	• IGD:2 http://upnp.org/specs/gw/igd2/
AV	• AV:1	AV:4 http://upnp.org/specs/av/av4/
MediaServer	MediaServer:1	MediaServer:4
		 MULTI_STREAM feature
		 CONTAINER_SHORTCUTS feature
		CDS Search()
		 MULTI_STREAM properties are conditionally
		required
		 Relaxed Tracking Changes Option
		 TCO properties are conditionally required
MediaRenderer	MediaRenderer:1	 MediaRenderer:3
		 Trickmode Pause() is required
		 SetStaticPlaylist(), SetStreamingPlaylist() and
		GetPlaylistInfo() are required
		 GetRendererItemInfo() is required
		 GetAllowedTransforms(), GetTransforms(),
		SetTransforms() and
		GetAllAvailableTransforms() are required