DLNA Certification Program Versioning

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INTRODUCTION

This document defines Versioning for the DLNA Certification Program, starting with the objectives to be achieved, then outlining the technical details of implementation, logos and messaging. VidiPath Certification is also available and discussed.

OBJECTIVES OF VERSIONING

Allow differentiation
Over the years DLNA has added a very wide range of features encompassing more and more functionality but with only one version of certification there has been no clear way to distinguish products with more or less features. To allow companies to differentiate their products DLNA has introduced distinct levels of certification. Each level increases features built on core DLNA functionality.

Increase certification
Effective July 2015, the new certification versions allow TV, mobile and other manufacturers to incorporate DLNA 2.0 and 3.0 Certification into their product plans for this year. This immediately allows more DLNA devices to be fully tested under the new DLNA Certification Program.

Allow for an improved version of DLNA with a new brand
Versioning allows new certification versions to include beneficial – but more demanding to implement – items, allowing interested companies to pace introduction of higher end devices with more features. DLNA can better facilitate market diversity with a range of features that allow companies to differentiate, according to what they are aiming for in terms of connectivity. The highest version, 4.0, promises to give the consumer an outstanding experience with the latest and most feature rich DLNA Guidelines. Companies using the highest version can differentiate from competitors with DLNA 4.0 and its new brand. Since other easier to implement versions exist, the bar for DLNA 4.0 was set high without the need for a “one size fits all product types DLNA” as has been done in the past.

DLNA Core
While the newer versions increase the quality and add new features, all versions are built on the same core DLNA functionality. Each new version builds on the core of the previous versions.

Other benefits of Versioning
Long term we expect that versioning will engender competition between member companies to have the highest level of certification for their products.

CERTIFICATION PROGRAMS

DLNA Certified 2.0
Essentially this is going back to Certification that was allowed prior to March 31, 2014, meaning:

- Support of DLNA Guidelines August 2009 including all errata approved since then.
- No requirement on response time (playback, PRT, or user interface, UIRT)
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- Unregistered properties policy is applied with the exception of DTCP IP. Test lab will look for all DLNA features offered by the device and check whether this matches the registration with the exception of the DTCP IP feature.

Tools: Current certification tools with mandatory trick modes turned off.

Test Plan: The 2.0 Certification Test Plan version 1.0 or later,
Certification is through the existing DLNA test laboratories, the Independent Certification Vendors (ICVs).

**DLNA Certified 3.0**

Certification to the DLNA Guidelines December 2011. This includes mandatory trick modes, response time testing (PRT and UIRT), and unregistered properties testing with no exceptions. It does not include the common video format selected by DLNA to enable playback and sharing between mobile devices and your living room (TVs, STBs, etc.). This version is a candidate for a self-certification program planned for fall 2015 coinciding with the launch of the Golden DMP/DMR. However, because some features do not yet have a mature testing program, if a DLNA 3.0 device includes the following additional features, it is required to go through the existing DLNA test laboratories:

- Remote user interface, whatever role, server, controller, or sink.
- Energy Management, whatever role low power control, proxy, or endpoint:
- Device management, whatever role, diagnostics endpoint or controller.
- HTTP Adaptive Delivery (DASH)
- Authentication.

Tools: Current Tools

Test Plan: The 3.0 Certification Test Plan version 1.0 or later
ICV Testing now, self-certification when possible.

**DLNA Certified 4.0**

This Certification Program is expected to launch first quarter of 2017

Features of DLNA 4.0

- MII requirements - (defining feature of DLNA 4.0)
- DMP+DMR or X-DMR for clients, DMS for servers
- MPEG-2 & AVC (extend formats to HD)
- AVC in MP4 containers (mandatory in current guidelines)
- Networked Devices Power Save (mandatory in current guidelines)
- Diagnostics both layer 2 and layer 3
- HEVC
- DLNA IPv6

**VidiPath**

Built off of DLNA’s years of interoperability, VidiPath enables streaming of subscription TV to any VidiPath Certified device throughout the home regardless of the manufacturer. Consumer Electronics (CE) products that are certified to the VidiPath Guidelines can directly support the full range of subscriber programming, movies, DVR content, channel guides, and other premium features, all with consistent user interface from
their service provider. For more information about the VidiPath Certification Program, please go here: http://vidipath.com/certification/.

LOGOS AND MESSAGING

**DLNA Certified 2.0**

For any device that has passed the DLNA Certified 2.0 program, when using the Word Mark, DLNA Members may message “DLNA Certified 2.0” on product packaging, product descriptions, product manuals, etc. Members shall not, however, message “DLNA Certified 3.0” or any other version of certification status unless the device has passed such level of testing.

Members may use the standard DLNA Certified Logo. In addition, the following logo is available for members to use for DLNA Certified 2.0

![DLNA Certified 2.0 Logo](image)

**DLNA Certified 3.0**

For any device that has passed the DLNA Certified 3.0 program testing, when using the Word Mark, DLNA Members may message “DLNA Certified 3.0” on product packaging, product descriptions, product manuals, etc. Members shall not, however, message any other version of certification status unless the device has passed such level of testing.

Members may also mention that the device includes support for advanced fast-forward, re-wind and frame-by-frame playback capabilities and guaranteed response time.

Members may use the standard DLNA Certified Logo. In addition, the following logo is available for members to use for DLNA Certified 3.0

![DLNA Certified 3.0 Logo](image)

**DLNA Certified 4.0**

![DLNA Certified 4.0 Logo](image)
**VidiPath**

For any device that has passed the VidiPath Certification Program testing, when using the Word Mark, DLNA Members may message “VidiPath” on product packaging, product descriptions, product manuals, etc. Members shall not, however, message any other version of certification status unless the device has passed such level of testing.