



# DisplayPort™ Compliance Update

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Bob Crepps

Technical Marketing Engineer  
VTM, Inc

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# Marks and Logos



DisplayPort Icon – for general use, raise awareness



Dual-mode Icon – general use, not required to be on product



Certified Logo – for use with devices tested at ATC, or self-test

***License required for all marks and logos. Certified logo free to members.***

# DisplayPort Certified Logo Process

Steps you must complete to use the DP Certified Logo and have your product listed on [www.displayport.org](http://www.displayport.org):

- Submit your product to Authorized Test Center for compliance testing
- Receive “Pass” report from ATC
- Do you have a DP Certified Logo License?
  - Get application from <http://www.displayport.org/compliance-standards/default.htm>
  - Free to VESA members, \$1500/year for non-members
  - One license per company, not per product
- Send product information to [moderator@vesa.org](mailto:moderator@vesa.org) for listing on <http://www.displayport.org/certified-devices/default.htm>
  - Send manufacturer name, product/family model, product description, link to product web site
  - Listing is optional, not required.

# Why Certify Your Product?

- Statement of Product Quality
- Increased Brand Value
- Improved Quality of User Experience
- Inclusion in VESA DisplayPort Marketing



<http://www.displayport.org> Example

CONSUMER SITE | **INDUSTRY SITE** | RETAILER SITE

Member Login:   >



[Not a member? Register now](#)

Search:

**Why DisplayPort**

The next digital generation  
**Products**

Latest devices with DisplayPort

**Compliance**

Become certified

**Brand Tools**

Market and sell DisplayPort

**News + White Papers**

Technical Information

**FAQ**

Quick information

**Events**

Where to find DisplayPort



# Product Directory

Products with DisplayPort technology offer high performance digital display performance. Find the latest PC's, Laptops, consumer electronics and displays containing DisplayPort by searching the list below.



Components

# Current Status

- PHY and Link CTS 1.1a in force
- EDID for Sinks

Coming Soon:

- EDID for Sources (in final review)
- Link Layer CTS 1.1b proposal near completion (enhanced audio tests)
- Interoperability in final review
- Cable Adapter Verification

# EDID for Sources

Field	Byte/Bit Definition	Hex Data	Stored
Header =		(00 FF FF FF FF FF FF 00)h	(00 FF FF
<ul style="list-style-type: none"> <li>Checks EDID against CDF</li> <li>Tests formats, timing, normal and error cases</li> </ul>	ID Manufacturer PNPID Code:	(____)h	DEL conv
	ID Product Code: LSB: MSB:	(____)h	(36 40)h
<ul style="list-style-type: none"> <li>Will join Certified Logo Program after PlugTest</li> </ul>	ID Serial Number:	(____)h	(84353640)h
<ul style="list-style-type: none"> <li>Completed GMR, in final review</li> </ul>	Week of Manufacture:	(____)h	(19)h = Week #25
	Year of Manufacture:	(____)d converts to (____)h	(12)h = Year 2008
	Revision Number:	(____)d converts to (____)h	(04)h

# Audio Tests

- New Sections of LL CTS 1.1b D22
  - 4.4.4 for Source, Checks Headers, Time Stamps, Info Frames, etc.
  - 5.4.4 for Sinks, Checks Format Change, Error Correction, Clock Recovery, etc.
- Adds Test Automation features
- Pilot testing at the PlugTest

***DisplayPort™ Link Layer Compliance Test Specification version 1.1b Draft 22 (Proposed)***

# Interoperability Tests

Interop testing improves reliability and end-user experience

- Interop tests:
  - Test against an array of “gold” product
  - Not all perfect, most silicon represented
  - Functional tests: format/resolution, unplug/replug, sleep-wake, etc.
- Prototype at PlugTest, will join Compliance Program by year end

***DisplayPort Interoperability Test Draft 4***

# Source-side Cable Adapters



# Cable Adapter Verification

- Problem: Some Cable Adapters not implemented correctly
  - DP-HDMI Adapters lack HDMI ID Rom
  - Interop issue, consumer expects audio from HDMI
- VESA has begun a verification test program for Source-side Cable Adapters
  - Inrush current subject to change

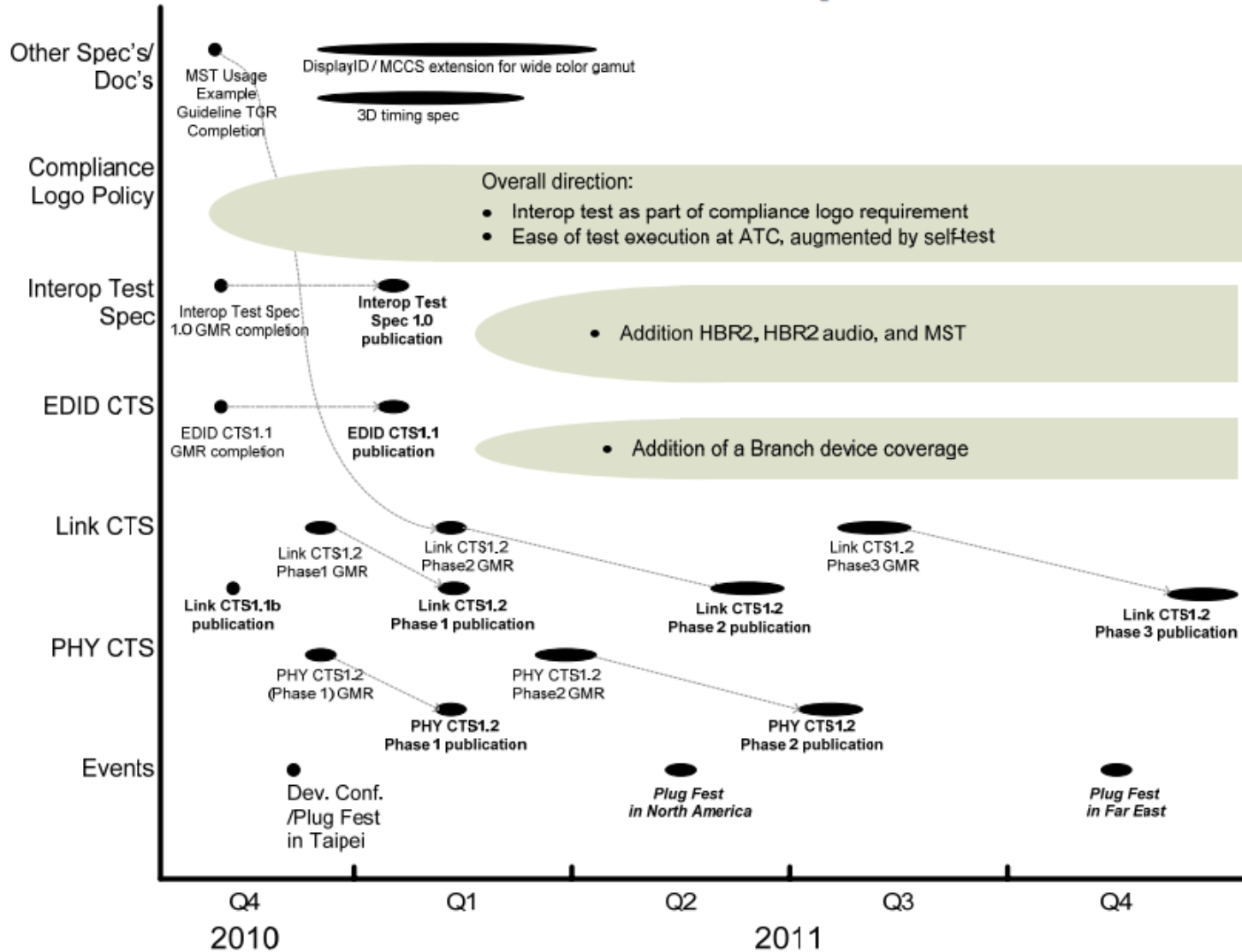
\*See Self-Test Overview rev 1.0

# Verified Cable Adapters

- Listed on [displayport.org](http://displayport.org)
- Carry the DP Certified Logo
- Testing available at the PlugTest
- Ongoing testing through VESA (VTM)
- [dpcpm@vtm-inc.com](mailto:dpcpm@vtm-inc.com) for questions
- [www.vesa.org](http://www.vesa.org) for docs

***DP Dual-mode Cable Adapter Verification Procedure  
version 1***

# Estimated CTS1.2 and Interop Test Timeline



# Features Covered in Link Layer CTS1.2

## Phase 1

- HBR2 Link Training
- HBR2 SST operation
- HBR audio transport
- Stereo 3D transport
- SST Repeaters

## Phase 2

- Sideband MSG/MST transport

## Phase 3

- AV Sync
- GTC
- FAUX

***DisplayPort Link Layer Compliance Test  
Specification version 1.2 Draft***

# Features Covered in PHY Layer CTS1.2

## Phase 1

- HBR2
- Active Cable

## Phase 2

- FAUX

***DisplayPort PHY Layer Compliance Test  
Specification version 1.2 Draft 5***

# Proposed Logo Program Changes

- Consumers don't know the difference between Certified Logo and DP Icon
- Obstacles for Sources to get tested

Need to provide benefit for devices that pass compliance tests

# Proposed Logo Program Changes

- Allow Sources more self-test options
- Change requirements to use DP mark
  - Require certification to use DP icon, stop using Certified mark
  - Devise a new mark for certified devices
- Enhance “Integrators List” of Certified devices on [displayport.org](http://displayport.org)
- Provide some certification testing at PlugTests

# Proposed Logo Program Changes

- Changes effective January 1, 2012
- VESA Board deciding policy now
- All VESA members welcome to attend Marketing Task Group meetings and provide input

# Thank you for your attention

- Questions?



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