



Welcome

Taiwan Workshop 2014



# Agenda

- 1:30-1:55pm - Welcome, VESA Overview
- 2:00-2:30pm - DP 1.3 Overview and Certification
- 2:30-2:50pm – Break
- 2:50-3:35pm – DP Alt Mode on USB Type-C Overview
- 3:35-4:00pm – DP Certification Process and Service by Allion
- Q&A

Presentations will be available for download after the Workshop at:  
<http://www.vesa.org/displayport-developer> (no membership required)



# VESA Overview

## 24 Years of Standardization

**Jim Choate**

**Consultant - VESA Compliance Program Manager**

**November 12, 2014**



# VESA Vision

- VESA's vision is continual growth in technical standards development and evolution into an international trade association, with a worldwide membership driving standards initiatives, product implementations, and market implementation.



# How Does VESA Operate?

- VESA is lead by a Board of Directors which represents a voting membership comprised of more than 220 leading multinational corporations, small and mid-sized manufacturers and individuals
- Board members:
  - Alan Kobayashi, MegaChips, Chairman of the Board
  - Syed A. Hussain, AMD, Vice Chair
  - Richard Hubbard, Texas Instruments, Secretary/Treasurer
  - Simon Ellis, Intel
  - Brian Fetz, Keysight
  - Pablo Ortega, NVIDIA
  - Craig Wiley, Parade Technologies



# How Does VESA Operate?

## VESA Staff

Bill Lempesis, Executive Director

Joan White, Manager of Member Services

## Consultants

Keiko Sakimura, VESA Japan

Joel Boardman, Sidecar, DP Branding

Jim Choate, Compliance Manager

Bob Crepps, VTM, Compliance

Trish McDermott, Avatar Tech Publishing



# VESA Membership



# Benefits of Membership

- Be an integral member of an organization that establishes the future direction of the display industry and influences important industry trends.
- Maintain competitive edge by gaining knowledge of new technology standards initiatives as they are originated.
- Network with industry experts from more than 220 leading PC and consumer electronics companies, participate in state-of-the-art technical discussions.
- Decrease manufacturing costs, increase reliability and productivity, and access global markets through participation in standards development efforts and members-only interoperability PlugTests and workshops.
- Expand promotional opportunities by linking to VESA's web site ([www.vesa.org](http://www.vesa.org)) and being featured in VESA literature, press events/releases & trade show demonstrations.





## Benefits of Membership (continued)

- Stay informed about display technology efforts worldwide through VESA communications bulletins, announcements, technical papers and fact sheets.
- Reduce design work and access standards implementation aids by attending VESA technology conferences, Task Group/Subgroup and general meetings, panel discussions, and other events.
- Expand promotional opportunities by linking to VESA's web site ([www.vesa.org](http://www.vesa.org)) and being featured in VESA literature, press events/releases, trade show demonstrations, and other marketing activities.
- Access to inexpensive PlugTests to test the interoperability of DisplayPort products.



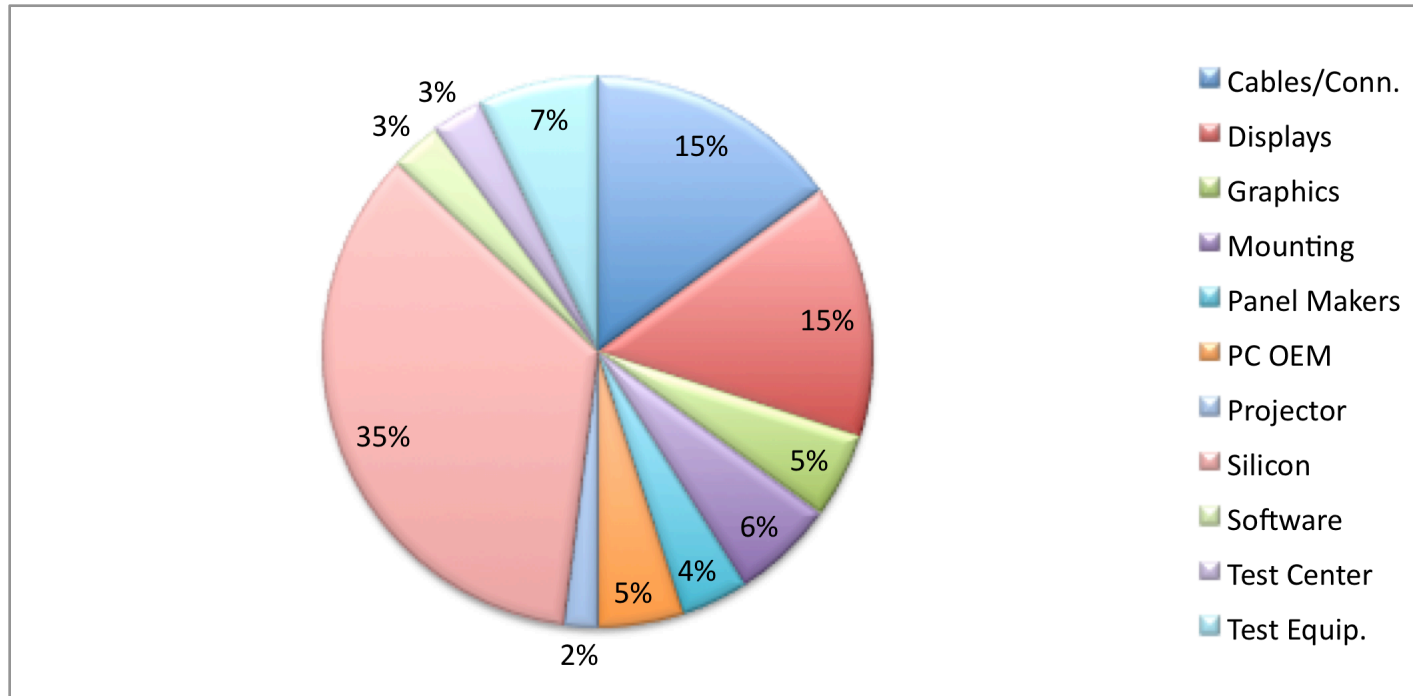
# Who Belongs to VESA?

- VESA's members include more than 220 leading PC/computer, display, hardware, software, and component manufacturers worldwide
- VESA's membership **IS** the industry
  - Membership is represented by more than 1100 industry technical experts registered in WorkZone



# VESA Membership is Diverse

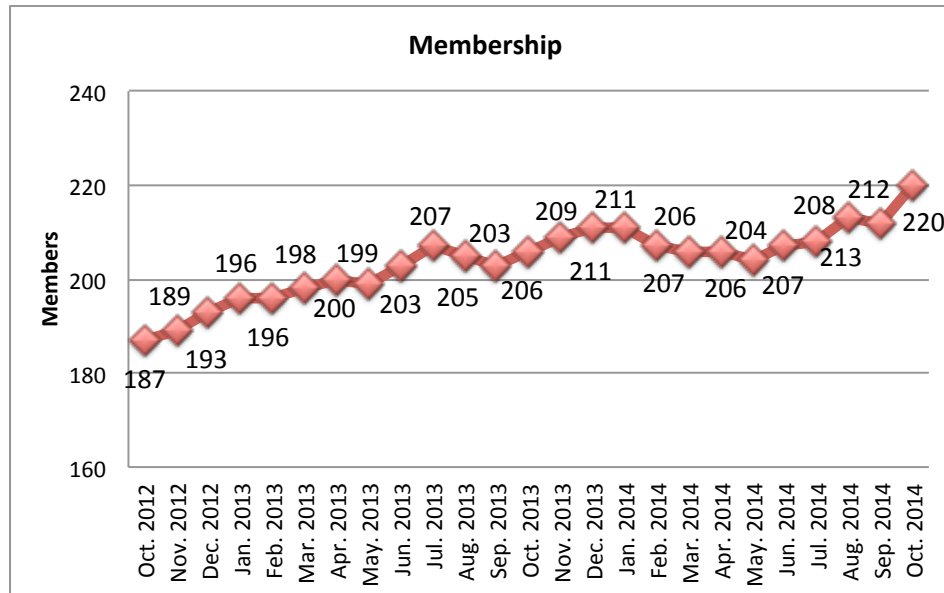
Membership by Sector



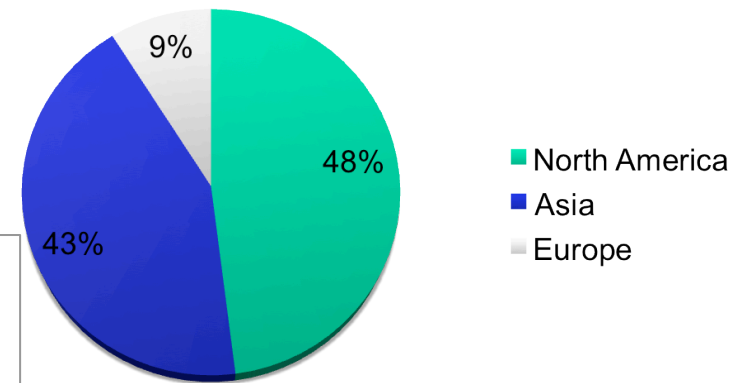


# About VESA

- Global industry alliance with more than 220 member companies



Membership by Region



*VESA Membership  
Continues to Grow!*

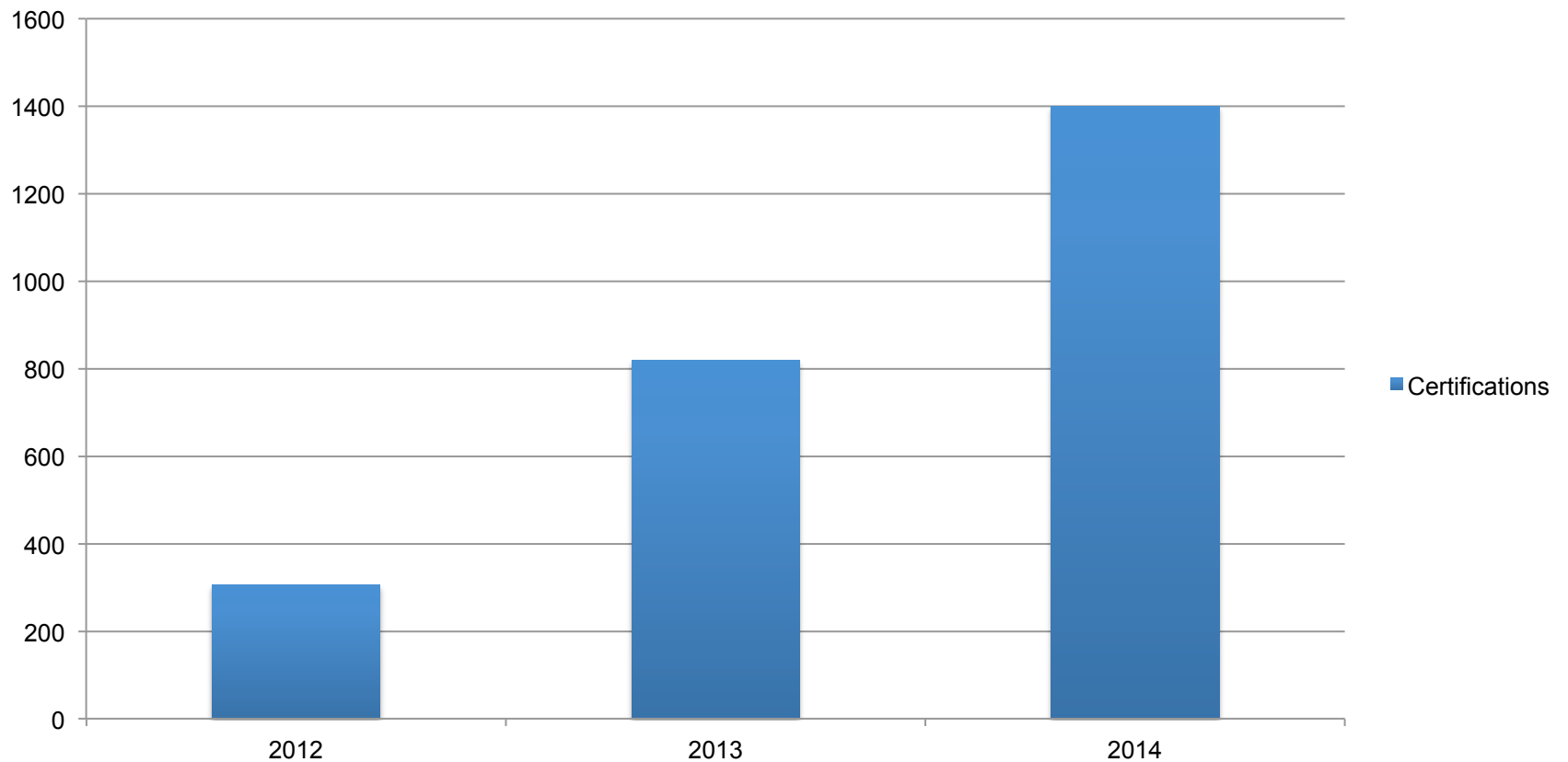
Mission to develop, promote and support ecosystem of vendors and certified interoperable products for the electronics industry

Facilitate DisplayPort standards development, publication and compliance testing, as well as promotion and marketing





## Certifications



Total Products Certified over the last three years



# VESA Marketing



# Website Updates

- New displayport.org site





# New VESA.org website



Select Language 

 Member Login

 Join VESA

[About VESA](#)[News & Events](#)[DisplayPort Developer](#)[DP FAQs](#)[Resources](#)

Our  
Mission



Purchase  
Standards



Learn about:

**DisplayPort**

The VESA Learning Center features the latest presentations (DP 1.3 and DP Alt Mode on USB Type-C), YouTube videos, white papers about Mobility, DisplayPort, Multi-Stream, Compression, and much more. Visit the Learning Center today and start learning.

[Visit Learning Center](#)

## Recent News & Events

### [Call for Requirements: Advanced Display Stream Compression](#)

Posted on October 31st, 2014

VESA published the Display Stream Compression Standard v1.1[1] (DSC v1.1) on August 1, 2014. The Display Stream Compression Task Group defined this standard, and is now investigating a new, more [...]

[Read More](#)

### [VESA® Offers DisplayPort™ Workshop On Latest Standards](#)

Posted on October 21st, 2014

Taipei Event will cover Technical Background and Compliance Testing for DisplayPort 'Alternate Mode' on USB Type-C and DisplayPort 1.3 NEWARK, CA (21 October 2014) – The Video Electronics Standards Association [...]

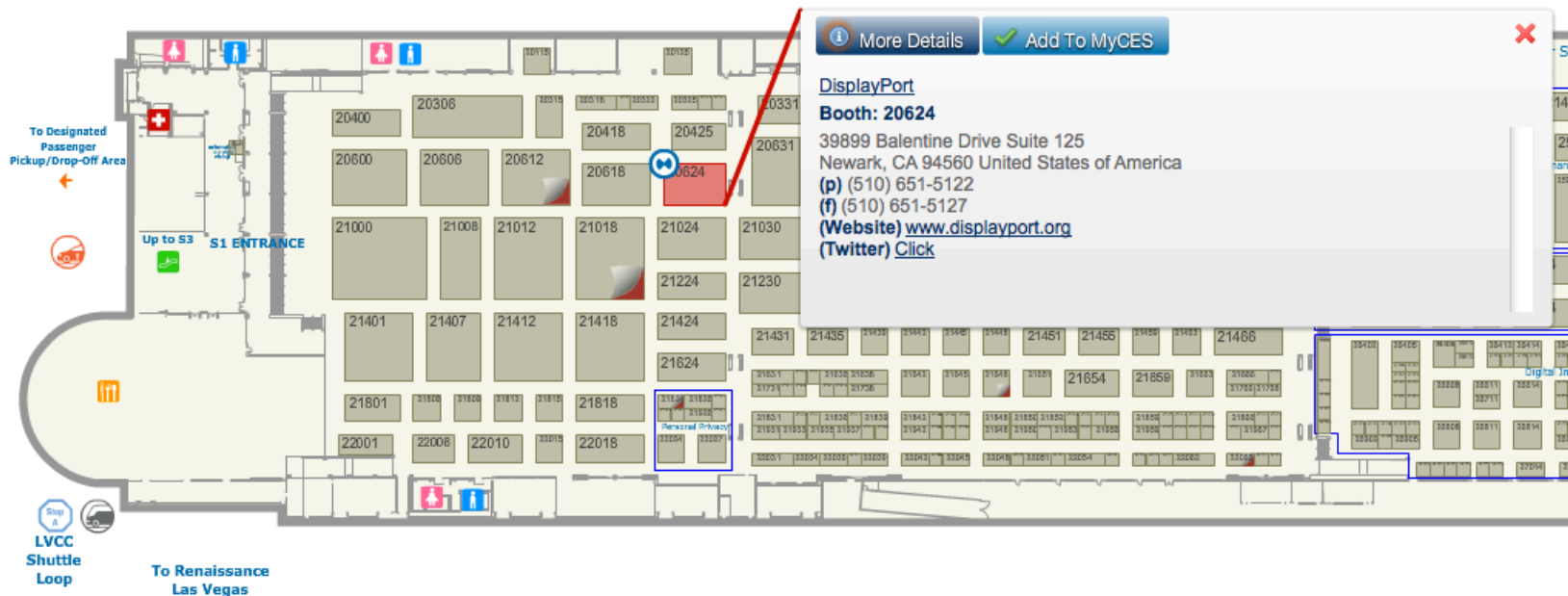
[Read More](#)





# CES 2015

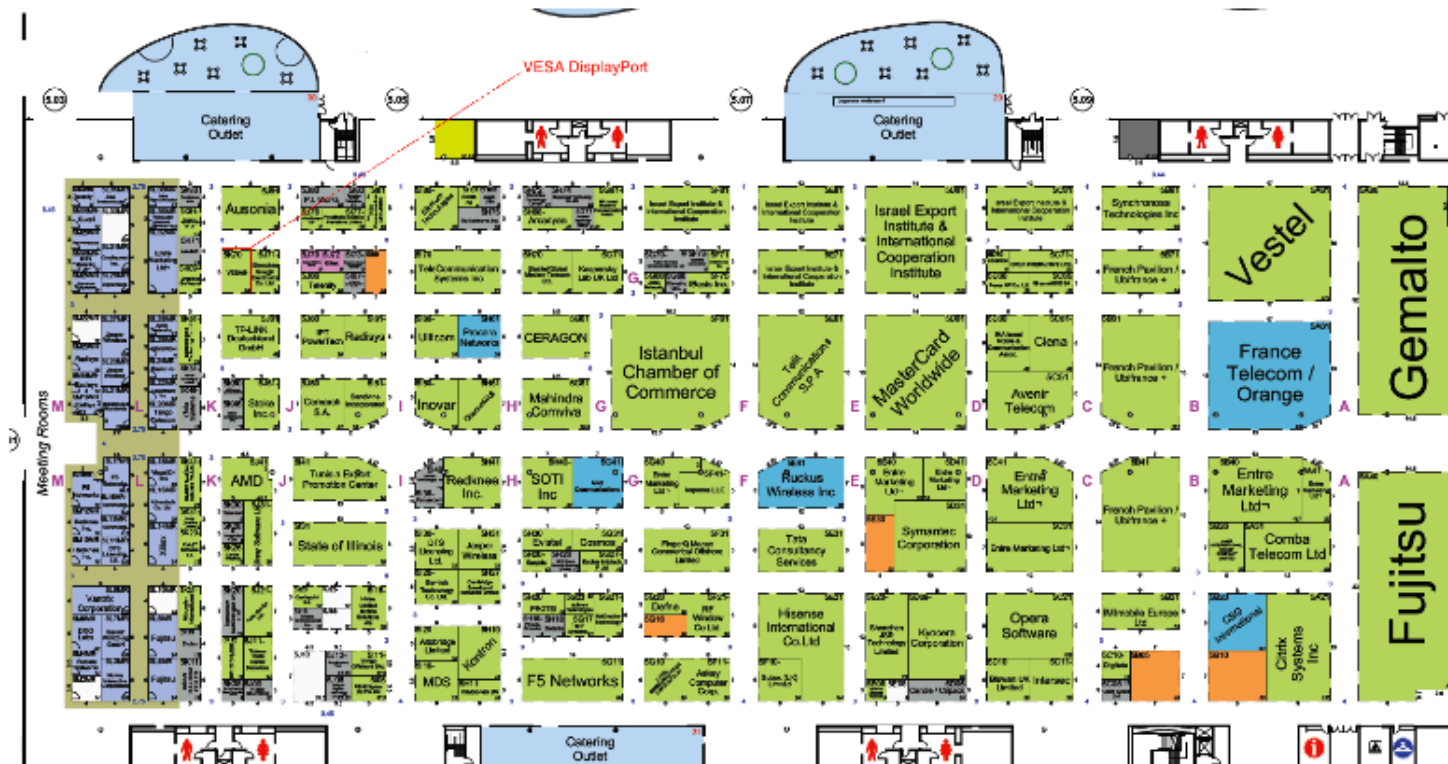
- 30x45 Booth in South Hall Level 1 #20624





# Mobile World Congress 2015

- 24 sq. Meter Booth in Hall 5 #5K70





# YouTube Videos for DisplayPort

Visit Our YouTube Channel

Click on the YouTube icon from  
[vesa.org](http://vesa.org) or [displayport.org](http://displayport.org)



# New Standards/Specifications 2014

Specification released in 2014

- DockPort Specification (Jan 2014)
- DisplayPort Adaptive-Sync (May 2014)
- Display Stream Compression Standard (Aug 2014)
- DisplayPort Alternate Mode on USB Type-C (Sept 2014)
- DisplayPort 1.3 Specification (Sept 2014)



# Standards/Work Under Development

- DP Alt Mode over USB Type-C CTS
- DP 1.3 CTS
- WDE compliance plan
- DSC Compliance Test Guideline
- Advanced Display Stream Compression: call for requirements

*DisplayPort and VESA stay ahead of the Technology Curve*



# Liaison Update

- CEA
  - Ongoing work on EDID and Timings
  - Joint PlugTest under discussion
- ISO/IEC
  - Work on display stream compression coding system
- MIPI
  - Liaison on compression standardization
- Wi-Fi Alliance
  - Formed a joint working group to develop compliance testing
- Thunderbolt
  - Building a relationship. VTM attends Thunderbolt Plugfests and events. DP testing part of certification.
- USB-IF
  - Liaison agreement for DP Alt Mode and USB PD



# VESA Logo Policy

- VESA Membership\* required for use of all DisplayPort trademarks
  - Membership helps to support VESA technical developments and promotional infrastructure
  - Assures OEM is using latest standard
  - Encourages PlugTest participation
- The product must be certified (ATC or self-test)
- Must have a signed Trademark License Agreement on file with VESA



\* An authorized reseller of a VESA member may use the trademarks





# Requirements for Certification

## *All Devices*

- PHY CTS 1.2b
- Link CTS 1.2 Core rev. 1.1
- Interop CTS 1.0
- EDID CTS 1.1
- *For Multistream:* Multistream Interop Test 1.0\*
- *For Dual-mode Adapter:* Dual-mode CTS 1.1
- Self-test, ATC, third-party test OK
  - *Resellers can submit a reseller report*

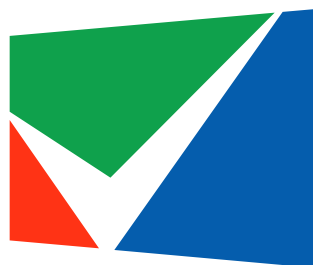
*\*Multistream interop Test only at ATCs – self-test coming soon*



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**VESA**

Thank You!