



November 15-18, Santa Clara Marriott, Santa Clara, CA

# System Management Forum (SMF)

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SMF Co-Chairs



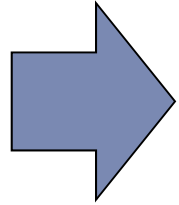


# Disclaimer

- The information in this presentation represents a snapshot of work in progress within the DMTF.
- This information is subject to change. The Standard Specifications remain the normative reference for all information.
- For additional information, see the Distributed Management Task Force (DMTF) Web site.



The DMTF was formed to lead the development, adoption and unification of management standards and initiatives for desktop, enterprise and internet environments



DMTF Initiatives and the SMF

Conformance Test Suites and  
Conformance Programs

Current Status

Call for Action



# DMTF Initiatives

- A DMTF Management Initiative is a set of specifications, documents and activities in a specific domain with
  - Technical components
    - Top-level spec defining scope, profiles and protocols
    - White papers
  - Messaging components
    - Press releases, presentations and coordination of events, Web presence, etc.
  - Conformance and/or interoperability components
    - Plugfests, development of conformance program specifications and conformance test suites
- An initiative is designed to promote specification adoption by vendors and customers



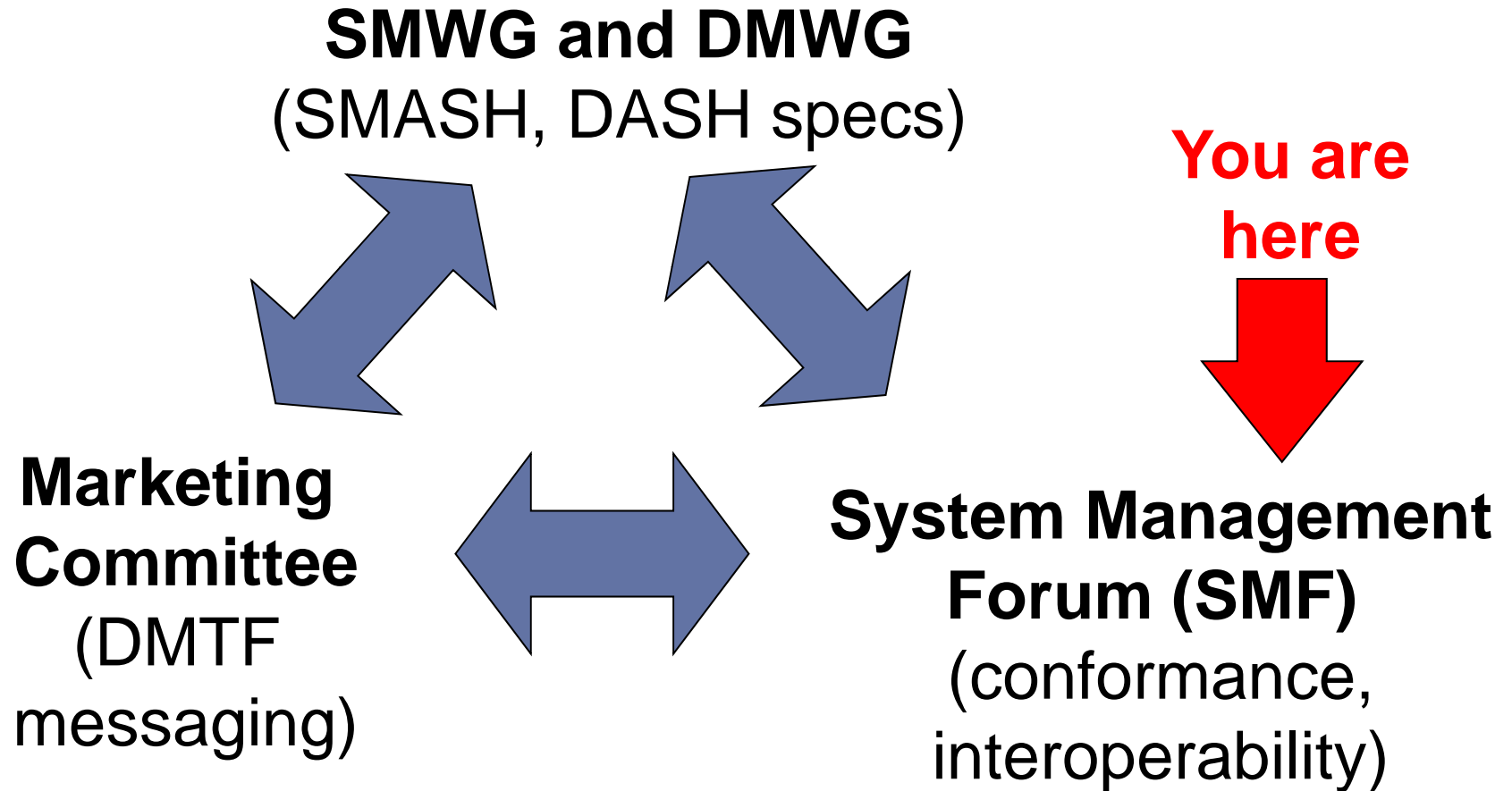
# DMTF Initiatives

- SMASH\*
  - System Management Architecture for Server Hardware
  - Key specification – DSP0217 SMASH Implementation Requirements Specification
    - Collection of profiles related to Server system hardware management
- DASH\*
  - Desktop and mobile management Architecture for System Hardware
  - Key specification – DSP0232 DASH Implementation Requirements Specification
    - Collection of profiles related to Desktop/Mobile system hardware management

\* To know more about DASH and SMASH, please refer to SDMWG session



# SMF Supports the SMASH\*, DASH\* Initiatives



\* To know more about DASH and SMASH, please refer to SDMVG session



# SMF Membership

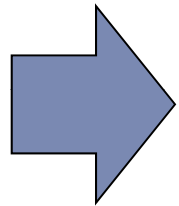
- SMF Leadership Companies
  - AMD, Dell, Intel, VMware
    - Responsible for governance, events, deliverables, etc.
    - Implementation experience and leadership
    - Overseeing conformance test suite and program development
- SMF Participatory Companies
  - AMI, Broadcom, Fujitsu, HP, Hitachi, IBM, Realtek
    - Providing implementation experience
    - Monitoring test suite development progress, validating releases
    - Participating at program events, plugfests, etc.



# The SMF Value Proposition

- SMASH and DASH Conformance Programs
  - Conformance Test Suites (CTS)
  - Product Self-Certification Process
  - Publication of Certified Results
- Interoperability
  - Plugfests
- Promotion
  - DMTF public site presence
  - DMTF Certification Registry
  - Demos, Events, etc.

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# Conformance Test Suite Specification Coverage

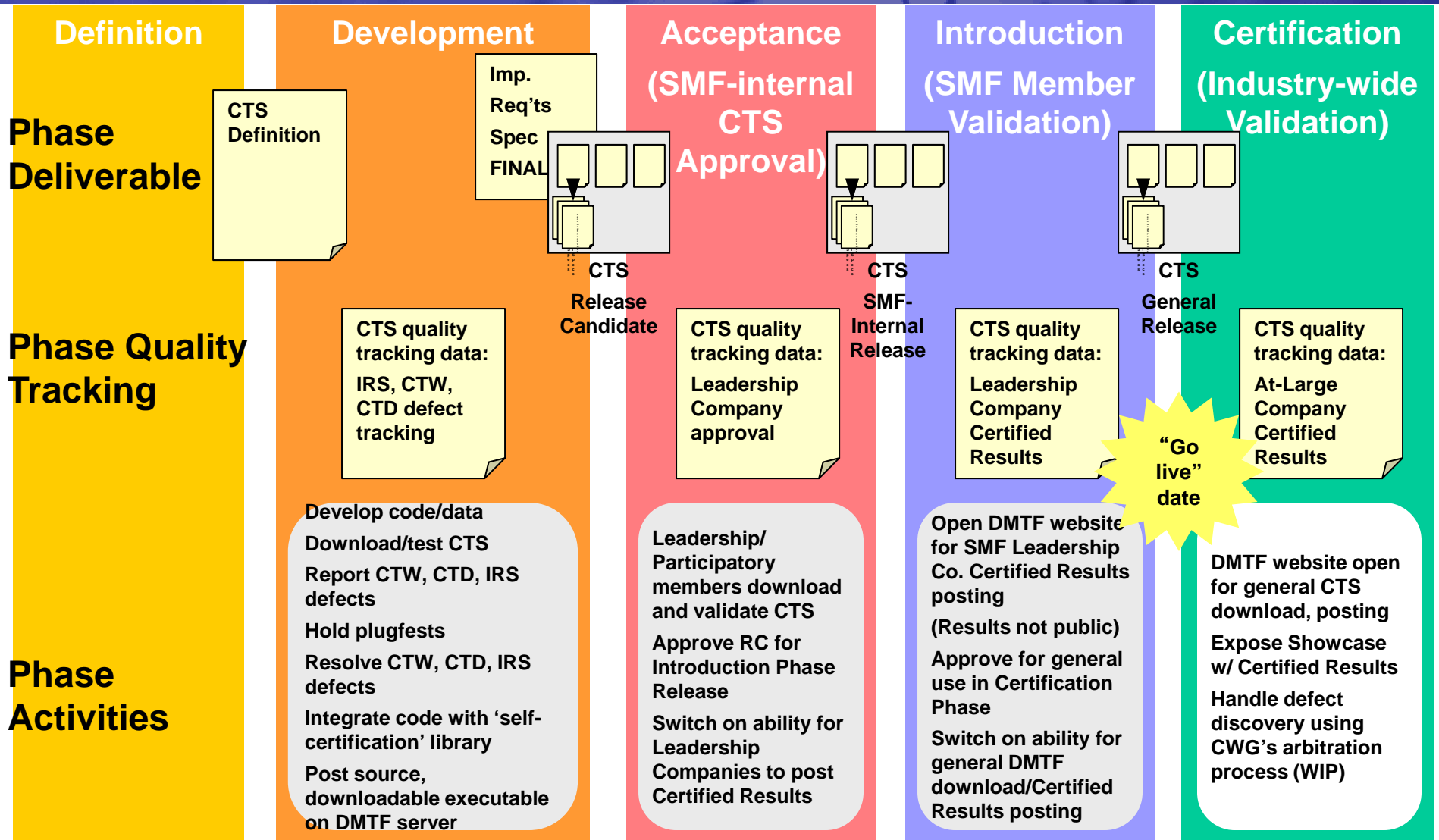
- Test normative statements of specs
  - Mandatory requirements
  - Optional requirements when implemented
  - Conditional requirements when testable condition is true
- Tests for
  - instances of classes and associations
  - Property existence/support
  - Property values and association cardinalities
  - Valid, testable error conditions
  - Items indicated as mandatory (“MUST”/“shall”), e.g.
- Protocol tested as practical and as-needed by profile tests
  - No certification for protocols themselves
- Don't test
  - Non-normative statements
  - Functional testing
  - Non-testable functionality and statements, e.g.:
    - Behavior in case of failure (if can't create failure from tester)
    - Text mode output for SMASH CLP (use XML instead)



# Conformance Test Suites

- Test Suite
  - Package of tests released by the SMF for an initiative spec version
    - Examples: DASH 1.0 CTS, SMASH 1.0 CTS, SMASH 2.0 CTS
  - Bundles a test engine, documentation, and certification tools
- Test Suites in development or release
  - DASH 1.0 CTS v1.0.0
    - Tests profiles through WS-Management protocol
    - Released through DASH 1.0 Conformance Program (open to members)
  - DASH 1.0 CTS v1.0.1
    - First maintenance release, in validation by members
  - SMASH 1.0 CTS
    - Tests profiles through SM-CLP
    - In validation by members
- Availability
  - Binaries of official SMF releases publicly available at program launch
  - Binaries of preliminary releases available to SMF members only
  - Source available for SMF Leadership members (may leverage internally)

# CTS Development and Release

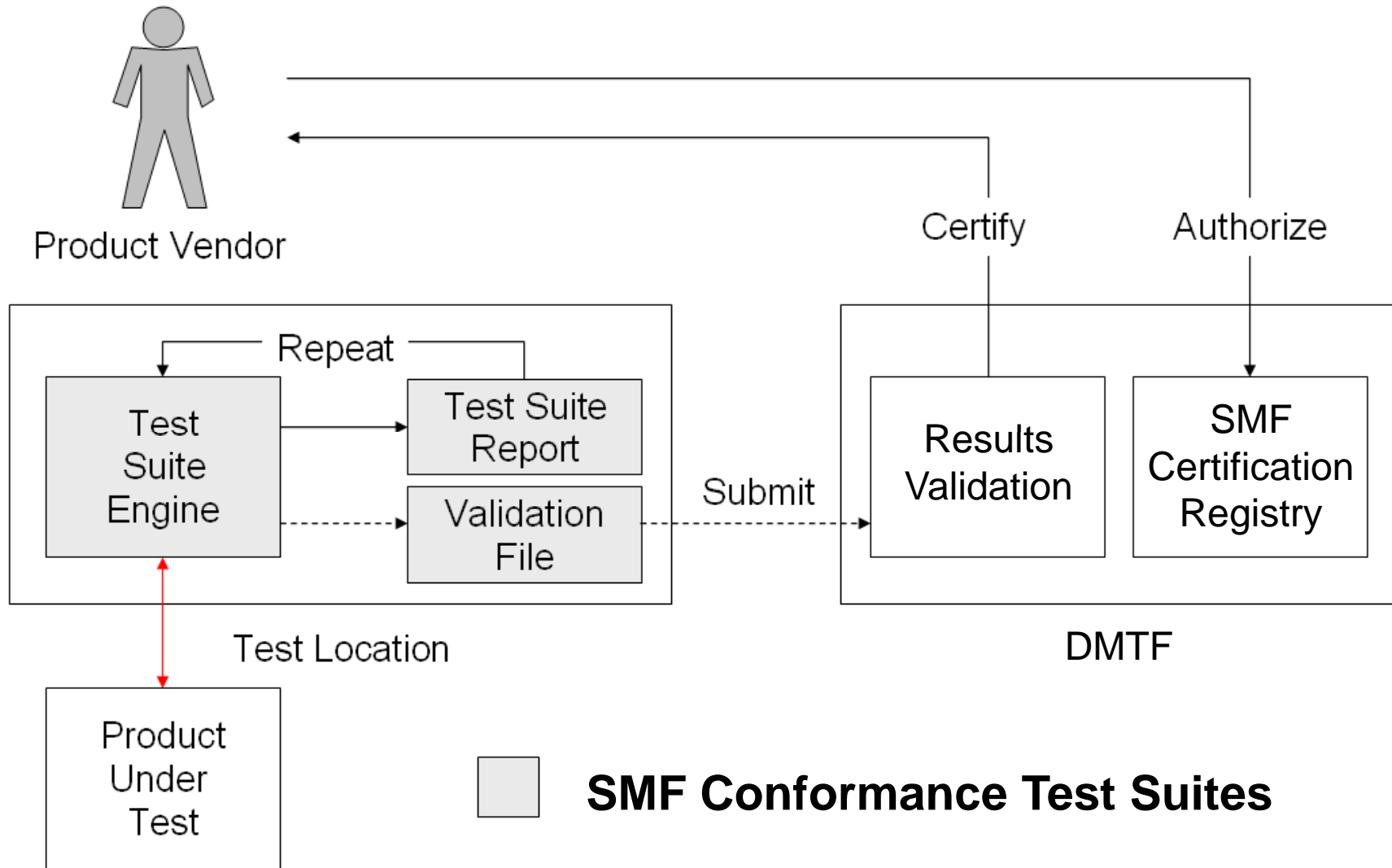




# Conformance Program Policies and Procedures

- Program rules, instructions, forms are published in P&P documents
  - DSP5001, DASH 1.0 CP Policies and Procedures
  - DSP5003, SMASH 1.0 CP Policies and Procedures
- Conformance Requirements
  - Relevant specifications
  - Allowed exceptions
  - Conformance Test Suite identification
  - CTS results interpretation
- Procedures
  - Program is administered by a third party Program Administrator
  - Participant signs and submits an Application (once per program)
  - Participant tests implementation, saves/submits results to Administrator
  - Program Administrator certifies results, publishes in Certification Registry
- Scope of Certification
  - Tested Product (Model/Version)
  - Qualified Products – those products sharing same system management feature that is present in the Tested Product
- Issue reporting and anonymous appeal processes

# Self-Certification Process





# SMF Conformance Programs

- Self-service, self-testing processes
- SMF Members have program benefits
  - Access to release candidates
  - Early program participation
  - No program application fees
  - Unlimited program submissions (Leadership)
    - Participatory level members receive 3 free per year
- Phased program releases
  - First phase
    - Opened to members only with private publication
  - Second phase
    - Member results published via DMTF Registry
  - Final phase
    - Program opened for public participation/publication



# Conformance Program Fees

## Fees and SMF Membership Dues

Membership Level	Conformance Program Fees		SMF Dues <sup>1</sup>
	Application	Per Product <sup>4</sup>	
SMF Leadership	N/C	N/C	\$25,000
SMF Participatory	N/C	\$200 <sup>3</sup>	\$5,000
Other DMTF members <sup>2</sup>	\$2500	\$500	N/A
Non-DMTF members <sup>2</sup>	\$3500	\$1000	N/A

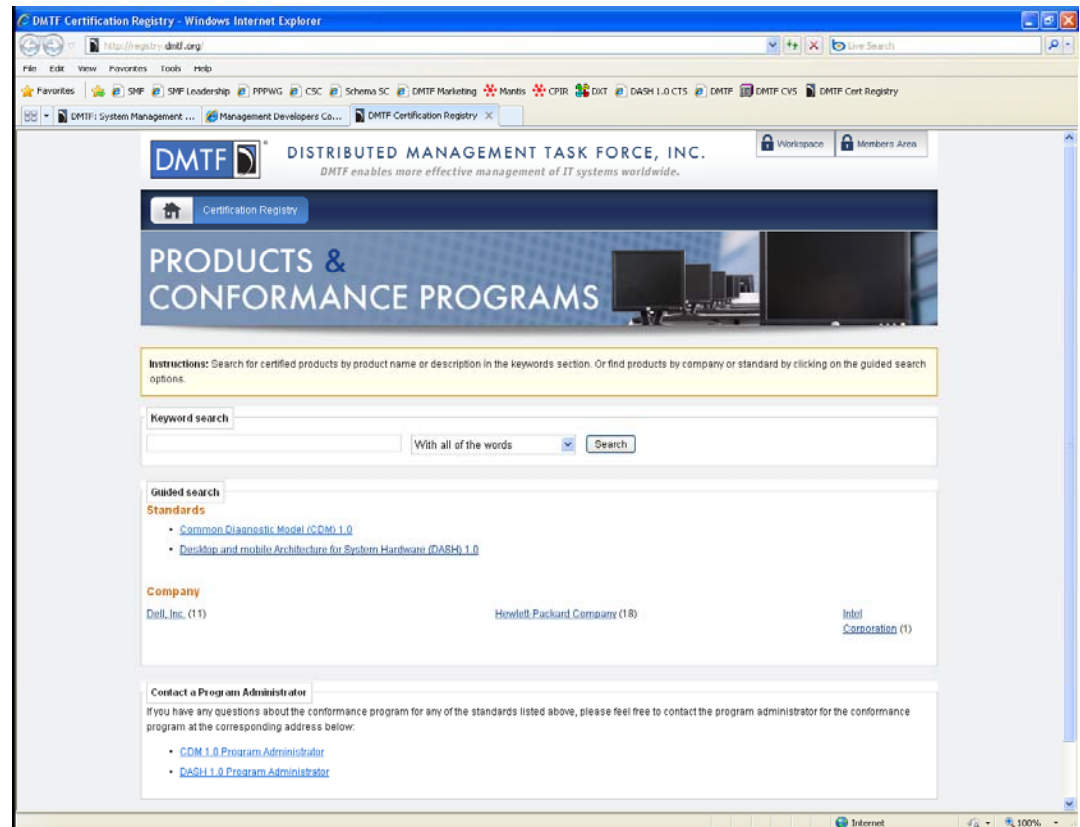
(1) Does not include DMTF dues; (2) Available to non-SMF members at a later date, (3) N/C for 3 first products in a membership year; (4) Per-Product includes Tested and Qualified Products

# Certification Registry Landing Page



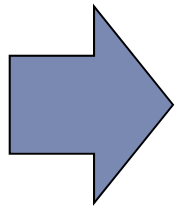
<http://registry.dmtf.org>

Detailed look at the DMTF Certification Registry for DASH 1.0 CP in related session material



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# Conformance Programs

- DASH 1.0 CP
  - March 15, 2010 - Opened to members
  - August 25, 2010 – Published member results
  - Late 2010/early 2011 – Open to public
- SMASH 1.0 CP
  - Members validating SMASH 1.0 CTS
  - Late 2010 – Open to SMF members
  - Plan to leave in members-only status, begin SMASH 2.0 CP development
- DASH 1.1 CP
  - Late 2010/early 2011 – Development start
- SMASH 2.0 CP
  - Late 2010/early 2011 – Development start

- DASH
  - DASH 1.0 CTS v1.0.0 – Released
  - DASH 1.0 CTS v1.0.1 – RC3 in validation
  - DASH 1.1 CTS – in Definition phase
- SMASH
  - SMASH 1.0 CTS v1.0.0 – RC2 in validation
  - SMASH 2.0 CTS – in Definition phase



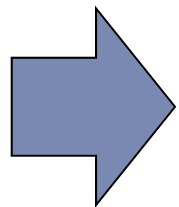
## Next Steps

- DASH 1.0 Conformance Program
  - Open to public
- SMASH 1.0 Conformance Program
  - Complete validation of SMASH 1.0 CTS v1.0.0
  - Open program to SMF members
  - Start SMASH 2.0 development/validation
- Future initiative conformance program work
  - DASH 1.1
  - SMASH 2.0

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# Get Involved!

## Be an SMF Member!

- Join the SMF: <http://www.dmtf.org/join/smf>
  - Enrollment open to all DMTF members
  - Dues: \$25K Leadership, \$5K Participatory
    - Always pro-rated!
    - Join now and receive full FY2010 benefits!
- Use the SMF CTS RCs, report bugs
  - A win-win – improves test suite quality and improves your product’s “time-to-certification”
- Submit results, get certified
  - Certified results are important for your company
- Participate in the plugfests

# Q&R

