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DMTF CDM Initiative Overview

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Agenda

- Today's Diagnostics Landscape
- Business Value of Interoperable Diagnostics
- Common Diagnostics Model Overview
- CDM Forum Charter & Initiatives
- Complete End-to-End Solution
- Tools to Ease CDM Provider Implementation
- CDM Forum Roadmap/Timeline
- CDM Forum Membership Model

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.
- <http://www.dmtf.org/standards/cdm>



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



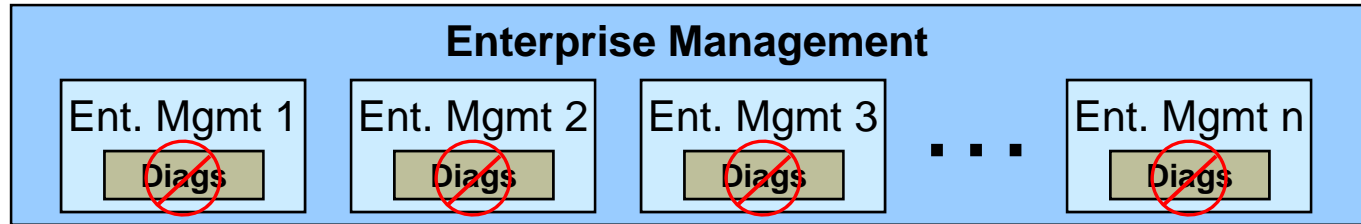
Computers & Diagnostics – 25 years ago

OEM Centric Ecosystem

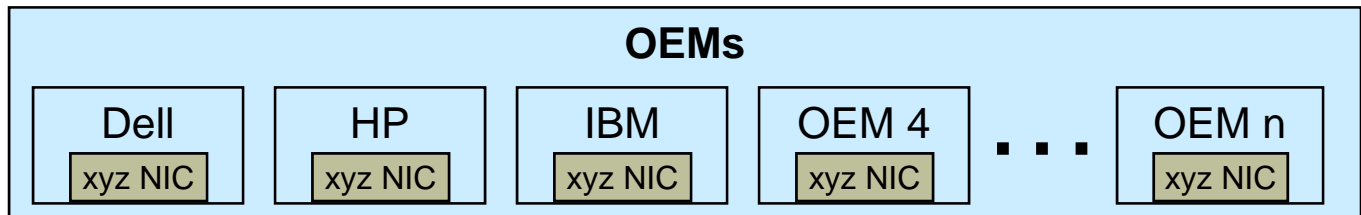
<u>HW Design</u>	<u>Design Val.</u>	<u>Diag Dev.</u>	<u>Mfg Process</u>	<u>Support Tools</u>
CPU	CPU	CPU	CPU	CPU
Chipset	Chipset	Chipset	Chipset	Chipset
DRAM	DRAM	DRAM	DRAM	DRAM
DIMMs	DIMMs	DIMMs	DIMMs	DIMMs
Disk Drives	Disk Drives	Disk Drives	Disk Drives	Disk Drives
I/O card	I/O card	I/O card	I/O card	I/O card
.....

Today's Diagnostics Landscape

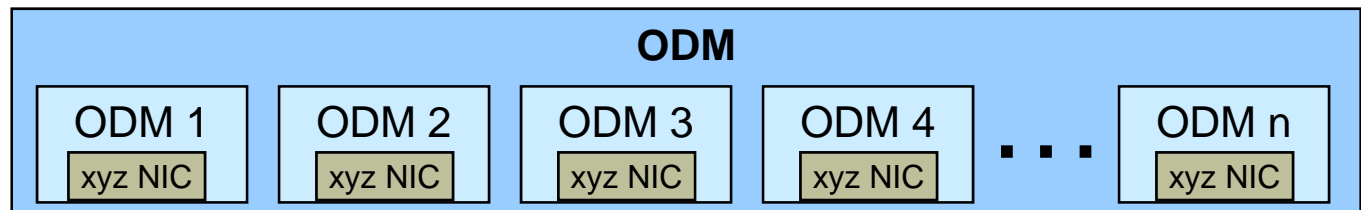
Diagnostic test not available in Enterprise Mgmt Solution, all existing diags use proprietary APIs



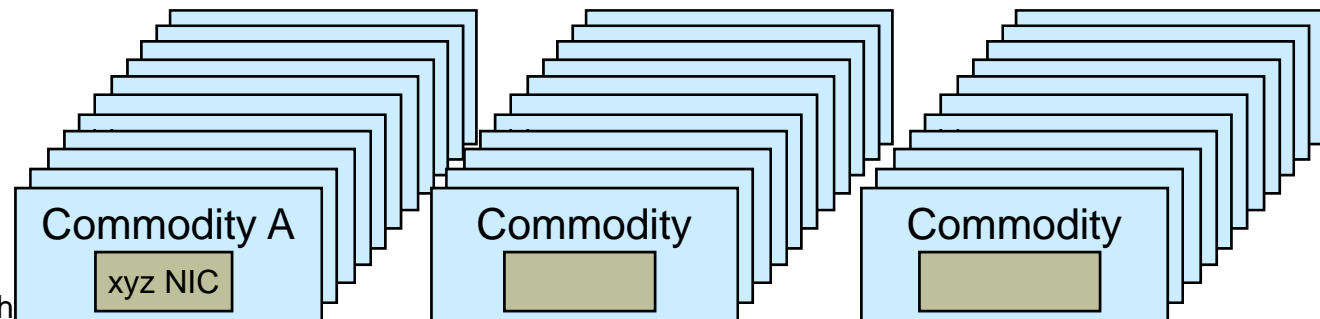
OEMs again develop their own diags to test same part



ODM develop their own diags to test the same part



All commodity Suppliers invest in diags to test their product

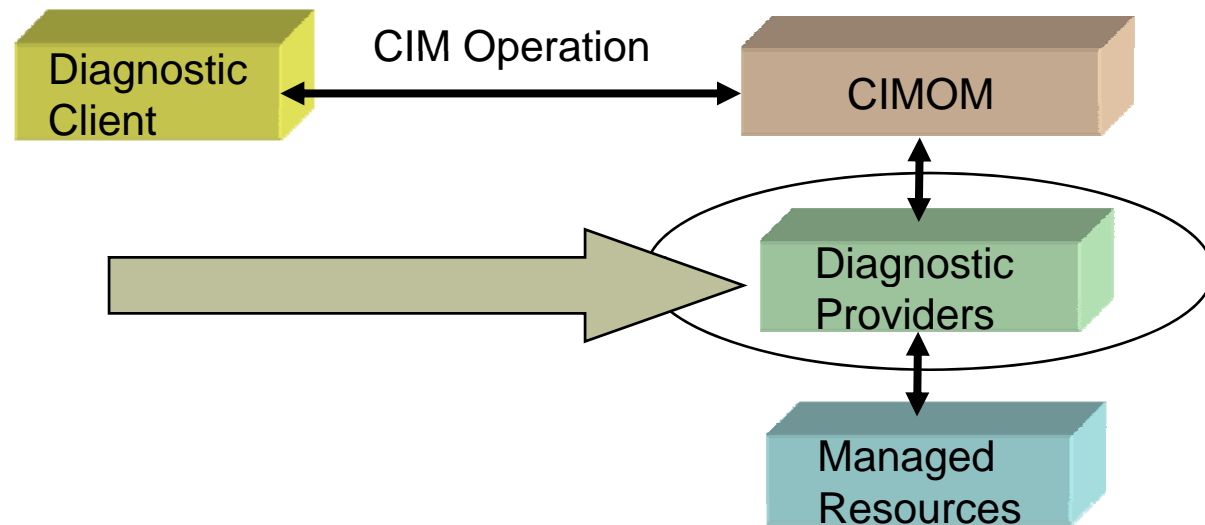




Business Value of Interoperable Diagnostics

- Enables creation of comprehensive Health Management Solutions
- Creates consistency across the entire computer industry
 - across OEMs, platforms architectures, Operating Systems
 - across commodity supplier, ODM Mfg, OEM Mfg, Field Support, End Customers
- Leverages commodity creator's technical expertise & experience
- Enables better problem determination
- Increases System reliability/quality
- Less discrepancy/disputes between commodity vendor & OEMs
- More efficient software development (single vs. multiple efforts)
- Reduce No Problem Found (NPF or NTF, No Trouble Found)
- Increase First Call Resolution (FCR or FTF, First Time Fix)

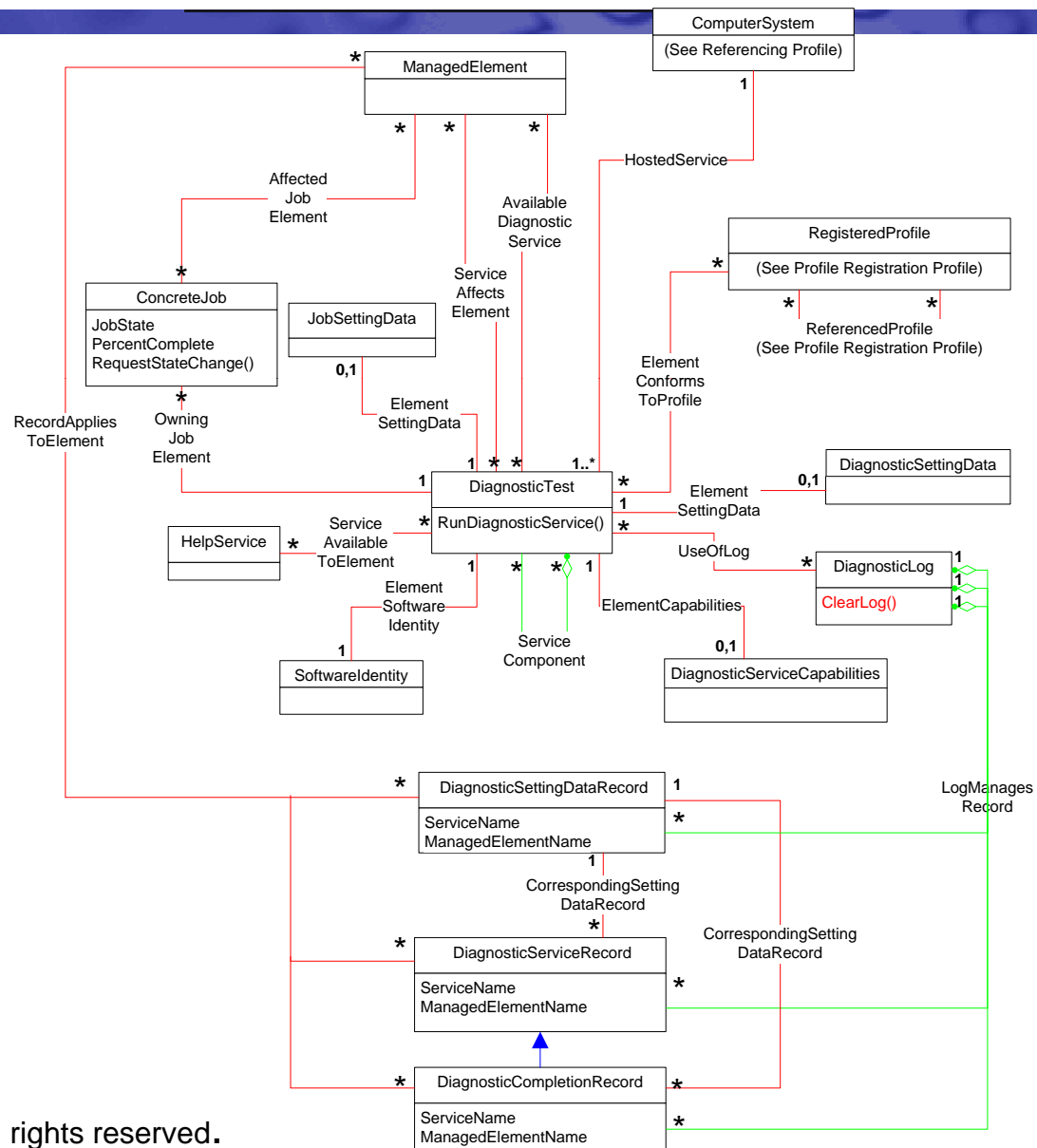
Common Diagnostic Model (CDM)



A common **industry standard** diagnostics interface that enables **seamless integration** of vendor-supplied diagnostic services into system and SAN management frameworks that is **Platform and OS independent**:

- *discover, configure and execute diagnostic tests*
- *view progress and control test execution*
- *view and manage test execution results*

DMTF CDM v2 Model





CDM Forum Charter & Initiatives

- Unite the computer industry around a single interoperable interface to all system diagnostics
- Supported by Key industry champions (AMD, Broadcom, Dell, HP, IBM, Intel, PC-Doctor, Symantec)
- Rally & pool industry resources to facilitate & accelerate broad adoption
- Synergy to drive broad industry adoption of CDM
 - OEM requirement for commodity suppliers (Dell, HP, IBM)
 - Critical mass exist for broad industry adoption
 - Participate to influence and promote industry adoption
 - Collaborate on consistent implementation and solution stack



CDM Forum Charter & Initiatives

- Facilitate the creation of CDM modules
 - Collaborate on common tools and aids
 - Fund & support CDM development aids
 - Pool industry resources to minimize individual company investments
- Establish Interoperability/Conformance Certification
 - Establish interoperability guidelines
 - Fund creation of Conformance Testing tools
 - Establish industry-wide testing/certification process



Complete End-to-End solution

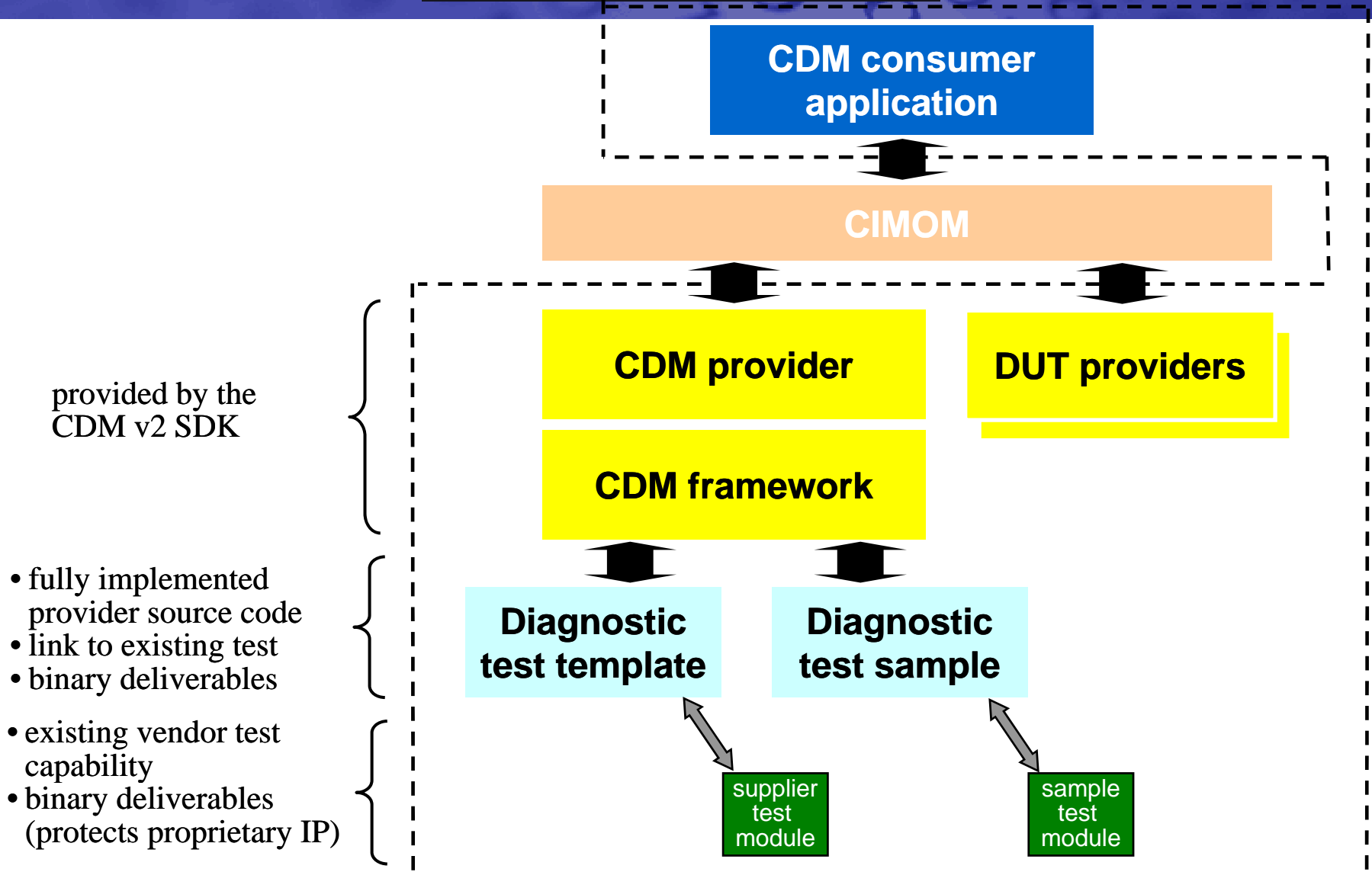
- Broad set of client applications using CDM (diagnostic) Providers
 - OEM developed applications (refer to demos below)
 - Other manageability tools & applications
- Interoperability Validation – CDM Conformance testing (Diagnostic Profile)
 - Client applications ensured consistent provider implementation
- Interoperability demonstration – CDM PlugFest
 - Interoperability demonstrates across multi-vendor, multi-platform, multi-OS CDM provider & client implementations



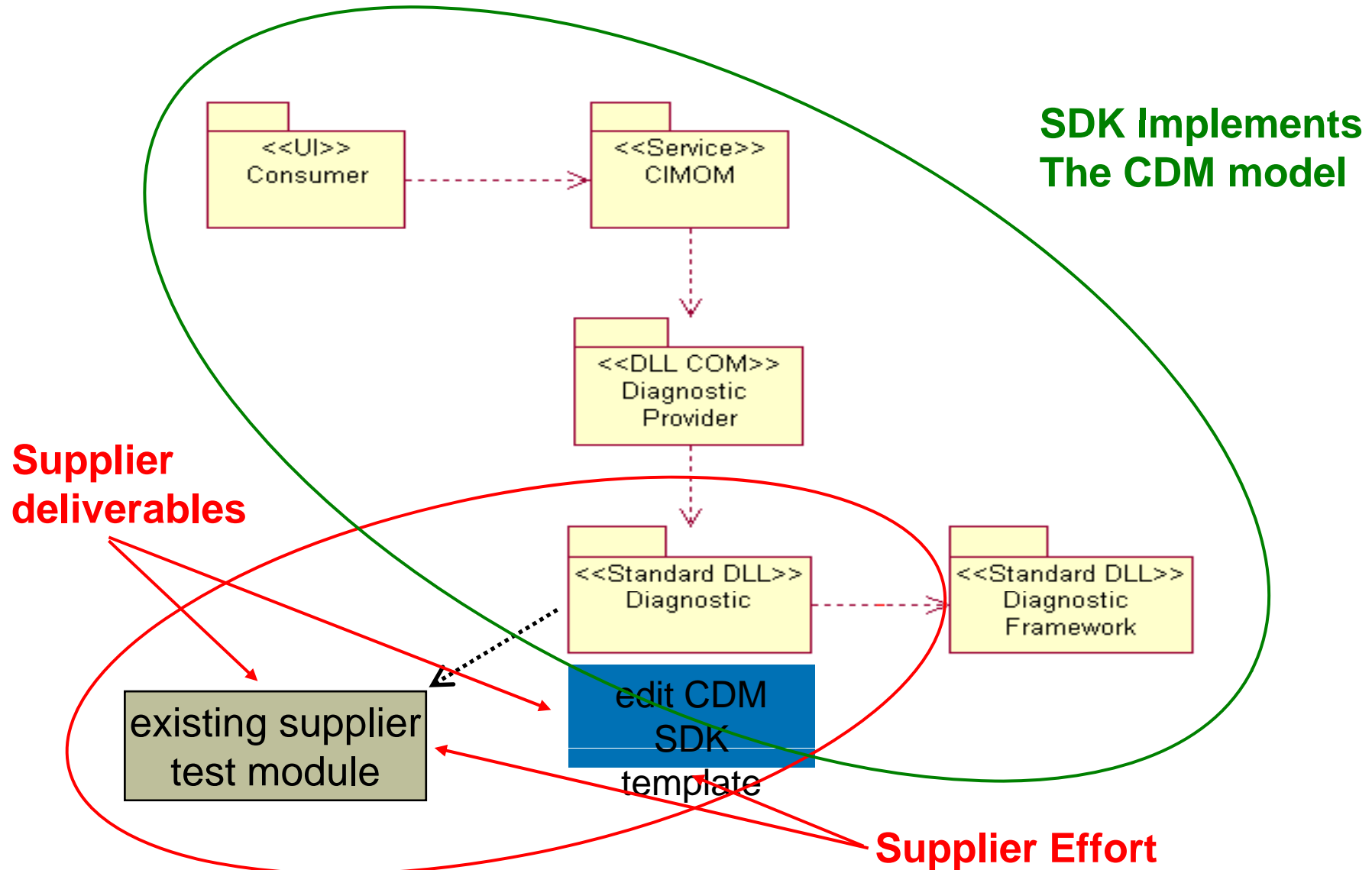
Tools to ease CDM implementation

- CDM technical education
 - 2007 Manageability Developer's Conference, Dec. 3rd-6th, Santa Clara, CA
 - 8 sessions dedicated to CDM (http://www.mandevcon.com/track_cdm.html)
- Sample CDM code
 - <http://www.intel.com/design/servers/cdm/tools.htm>
- Generic CIM provider dev. aid - CIMPLE SDK
 - <http://www.cimple.org/>
- HP CDM SDK

HP CDM v2 SDK



HP CDM v2 SDK

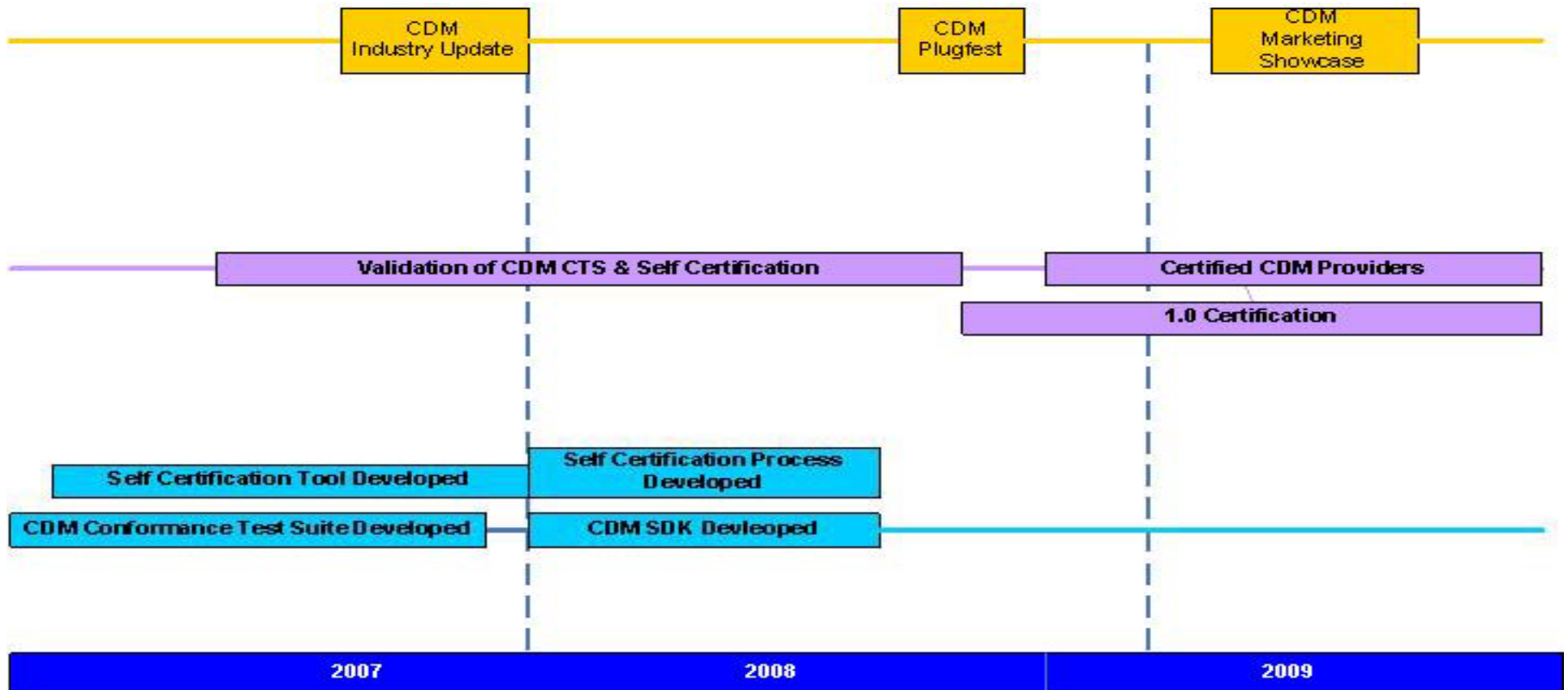




CDM Forum Charter & Initiatives

- CDM Forum proposed availability & timeline
 - Interim solutions can be created sooner
 - Highly dependent on Industry participation & support
- Host Interoperability demonstrations - Plug-Fest (providers and clients)
 - Annual/semi-annual hands-on event, bring together various implementations to demonstrate interoperability of providers and clients across vendors, platforms and OS (includes resolving issues)

CDM Initiative Timeline





CDM Forum Participating Membership

- Participate in conference calls and face-to-face meetings of the Forum, access the Forum's general discussion reflector
- Vote on informational ballots (i.e., straw polls, etc.)
- Access to Forum certification software and process
- Submission of a limited number of product certification requests and records
- Listed in Forum publications and press releases
- Ability to issue their own press releases and publications that reflect membership in the Forum
- Participate in general conferences of the Forum and Plugfests (additional fees for these activities may apply).



CDM Forum Leadership Membership

- All Participating member benefits, plus
- Access to all Forum governance communication and documents
- Vote on all forum matters (such as Forum finances and direction, approval of test suites and/or specifications, as well as certification process and the resolution of disputes over certification results)
- Participate in Forum governance, including eligibility for role as a Forum officer
- Access to Forum source code, including the ability to contribute source code (as approved by formal vote)



Call to Action

- Come up to speed on CDM
- Join the DMTF CDM Forum
- Start implementing CDM
- Participate at CDM Plugfest
- Deliver Certified Modules/Solutions

Questions

