DMTF and GGF
(an inevitable union)

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Work Groups
- Applications/Metrics
- Architecture
- Behavior and State
- Database
- Networks
- Policy
- Security Protection and Management
- Server Management
- Support
- System and Devices
- User and Security
- Utility Computing
- WBEM Interoperability/Events
**DMTF Alliances**

**Alliance Partners**
- BladeS – Blade server environment
- CompTIA – Diagnostics and help desk/support
- InTAP, Japan – Interoperability and protocols
- itSMF - ITIL
- NAC – IT-related issues, esp RBAC, identity, use of directories, …
- NIST – General modeling and policy
- Open Group – Open Source, applications, Unix modeling, …
- SNIA – Storage environment
- TMF – Telco environment
- GGF

**OpenSource Support**
- WBEMSource/The Open Group
  - Pegasus and Pegasus-J (aka SNIA Object Manager)
- Java WBEM Services
- OpenWBEM
- SBLIM (Standards Based Linux Instrumentation for Manageability) and CMPI (Common Manageability Programming Interface)
IT Customer Demands

- Need improved management tools: 54%
- Better interoperability: 35%
- Cost or price reductions: 23%
- Virtualization across multiple vendors: 15%
- Standards support: 9%
- Performance improvements: 8%
- Improved scalability: 7%
- Reliability improvements: 6%
- Ease of use improvements: 5%
- Other capabilities: 5%
- New technologies: 5%
- Better migration support: 4%
- Improved services: 2%
- Clearer management vision: 2%
- Vertical application integration: 1%

n = 132
Utility Computing on Standards
Developer’s Dilemma

Management Application

Integration Infrastructure

Policy Engine

Object Model Mapping

Protocol Mapping

Transport Mapping

Device Types

Processor

Application

Array

Many Other

Vendor Unique Object Models

Discovery Service

Security Service

RPC

Command Line

Telnet

CORBA

C++ Library

C Library

Java Library

SCSI Mode Page

XML DTD

SNMP

FC- GS

TCP/IP Socket
Utility: Cross Platform Management

- Consistent application of durable names
- Cross stove pipe association/correlation
- Predictable profiles for basic interoperability

Users

Web Server
- URL
- HTML
- JPEG
- GIF
- JSP

Application
- JSP
- EJB
- SERVLET
- JDBC
- SQL

Database
- SQL
- INDEX
- TABLE
- DATAFILE
- LVM
- I/O

Storage
- I/O
- CHANNEL
- LUN
- DISK

Alerts & alarms
Initiate configuration changes
Correlation & root cause analysis
More Rational

- Need multiple management transports
- Transports evolve
- Modern IDL don’t completely describe an interoperable interface
- Scalable vendor implementations (Profiles)
- Discovery of scaled implementation (Discovery Templates)
Integrated and Interoperable Grid Components

Common Information Model