DCML ORGANIZATION RELEASES
DRAFT 1.0 FRAMEWORK SPECIFICATION

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TCP/IP Provided Common Communication

- **Before TCP/IP...**
  - Too many communication protocols
    - IBM SNA, IBM LU6.2, DEC DECnet, IBM NetBIOS, IBM/Microsoft NetBEUI, Novell IPX, Mac AppleTalk, ...
    - No universal language

- **TCP/IP came along and boom, Internet**
  - Common language unleashed latent power
  - Now everything speaks TCP/IP
Before HTML...

Too many content formats
- Gopher, FTP, Adobe Postscript, Microsoft Word, Apple HyperCard, Lexis/Nexis, Dialog, Quark, ...
- No universal language

HTML came along and boom, Web
Common language unleashed latent power
Now everything speaks HTML
Standards Resulted In Explosive Growth

- 8 years into 25-year shift to web architecture
- 700M Internet users; 1B PC’s sold in 8 years

Explosion of technology and complexity in the datacenter

- Servers: 5M shipped this year; up 10x in 8 years
- Web applications everywhere
- New technologies: Linux, Intel, Java, BEA, ...
- An enormous amount & diversity of stuff
Stop Managing In Silos For Peaks
DCML Enables IT As A Service
DCML Provides Common Management

- **Data Center Markup Language**
- DCML does for the datacenter...
  - What TCP/IP did for networking
  - What HTML did for content
- Universal language for the datacenter that handles the heterogeneous and semantic information required to manage at the level of a service.
DCML Members

Other members
Announcing DCML 1.0 Framework Spec

- DCML is an XML-based specification
- DCML represents the contents of data centers and information used in managing those contents
- The DCML Framework working group is chartered with defining the overall approach, concepts and structures fundamental to DCML
- The Framework working group has defined the process by which other working groups produce subsequent DCML definitions to support specific applications
**Conceptual Model Classifications**

**Environment**

Collection of managed entities in the physical managed environment, including:
- Servers
- Network
- Storage
- Facilities
- Customers

**Blueprint**

- IT Services
- Web Tier
- Application Cluster
- HA Load Balancers

**Rules**

- Operating Systems
  - HP/UX
  - Solaris
  - Linux
  - Windows
  - NT4
  - 2000
  - Patch 1
  - Patch 2
- Applications
  - Oracle
  - BEA
  - WLS
  - 5.7
  - 5.8
  - 7.0
  - 8.0

**Instances**

Collection of managed entities in the physical managed environment, including:
- Servers
- Network
- Storage
- Facilities
- Customers

**Classes**

- Operational view of managed environment
- Adds context over environment classification
- Includes information on: Services, Relationships, Tiers, Clusters, Custom configurations, Constraints

**Policies**

- Collection of reusable resources
- Objects required to build the environment
- Change mgmt windows
- Technology dependencies
- Technology compatibilities
- Standard builds
- Default configurations
- Vendor updates
Example: DCML-Powered Business Continuity

DCML enables disaster recovery by addressing critical holes in current methods:

- **Recipe v. catalog**: DCML enables dramatically quicker and cheaper recovery
- **Data v. configuration**: DCML captures critical configuration information that conventional backup systems do not address
- **Different systems, one standard**: DCML enables different management systems in the various facilities to exchange relevant data

DCML File
(XML of environment, relationships & policies)

- <hardware>
- <software>
- <configuration>
- <network>
- <configurations>
- <application>
- <tier 1> <tier 2> <tier 3>
- <relationships>
- <requires>
- <contains>
- <connects>

Uses DCML to accurately and rapidly rebuild environment at secondary site.
DCML Specification Lifecycle

Subgroup Specifications:
- Server
- Network
- Applications
- Services
- Etc.

Feedback

Framework Specification

Implementations and Deployment
DCML Reception

- Private reception at Madame Tussaud’s wax museum—join us!
- 8:30 to 11:00
- Venetian Resort, Hotel & Casino
Question and Answer Session
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