

**Open Cloud Standards
Incubator Charter
Proposal
Dated 04/16/2009**

**The information provided below is subject to change and
reflects the current state of the Initiative proposal within the
DMTF.**

Management Problem(s) and Environment

A new computing paradigm is quickly emerging called Cloud Computing. Vendors have embraced the need to provide interoperability between enterprise computing and cloud service providers.

Virtualization technology and the evolution from software packages that can be created and deployed as a collection of virtual images is becoming the primary focus for delivering and managing software solutions into enterprise customers today. As these customers look to also take advantage of cloud computing, extensions are needed to enable interactions between private clouds within enterprises and between private and public cloud providers to exploit this emerging business model.

The Open Cloud Standards incubator will be focused on addressing the above with cloud resource management protocols, packaging formats and security mechanisms to enable interoperability.

Incubator Scope

The DMTF's Open Cloud Standards incubator will develop a suite of DMTF informational specifications that deliver architectural semantics to unify the interoperable management of enterprise computing and cloud computing. This may include extensions to existing DMTF specifications including the Common Information Model (CIM), Open Virtualization Format (OVF), WBEM Protocols, member submissions and investigation of opportunities for collaboration with other industry standards bodies.

The scope of this activity is focused on mainly cloud resource management aspects of Infrastructure as a Service (IaaS) with some work touching on Platform as a Service (PaaS) including SLAs, QoS, utilization, provisioning and accounting and billing.

Business Justification

This effort will enable new enterprise-to-cloud computing management that will support this emerging market. This initiative would provide benefit to our members on several fronts:

- 1) Enable the use of cloud computing within enterprises and improve the interoperability between cloud platforms via open cloud resource management standards.
- 2) Increase awareness and support by management systems vendors that develop products to manage cloud resources
- 3) Enable cloud service portability.
- 4) Provide management consistency cross cloud and enterprise platforms.

Initial Leadership Members/Review Board

The following leadership or board companies are the initial proponents of this DMTF Incubator to address the problems identified in this document.

- **AMD** – Paul Vancil paul.vancil@amd.com
- **Cisco** – Steve Diamond sdiamon@cisco.com
- **Citrix** – Abolfazl Sirjani abolfazl.sirjani@citrix.com
- **EMC** – Wayne Adams wayne_adams@emc.com
- **HP** – Nigel Cook nigel.cook@hp.com
- **IBM** – Mike Baskey mbaskey@us.ibm.com
- **Intel** – Billy Cox billy.cox@intel.com
- **Microsoft** – John Parchem Johnp@microsoft.com
- **Novell** – Alan Murray amurray@novell.com
- **Sun** – Mark Carlson mark.carlson@sun.com
- **Red Hat** – Mike Evans mevans@redhat.com
- **Savvis** – Ken Owens ken.owens@savvis.net
- **VMware** – Winston Bumpus wbumpus@vmware.com

Incubator Goals

The cloud incubator is intending to create a set of information specifications to advance the industry thinking around cloud interoperability and its management, especially between clouds.

Incubator Deliverables

- Cloud taxonomy
- Terms and definitions
- Cloud Interoperability whitepaper
- Informational specifications
- Proposed OVF changes for cloud usage

- Proposed Profiles for management of resources exposed by a cloud
- Proposed changes to other DMTF standards
- Requirements for trust for cloud resource management.
- Work register(s) with appropriate alliance partners (See below)

Incubator Timeline

The Cloud incubator is expected to complete within 1 year from approval of the charter by the board.

Phase 1

- Cloud Taxonomy – 3Q09
- Cloud Trust requirements – 3Q09
- Alliance partner identification – 3Q09
- Use cases and requirements for Cloud Profiles – 3Q09
- Cloud Interoperability White paper – 3Q09

Phase 2

- Proposed Profiles – 4Q09
- Proposed OVF changes for cloud usage – 1Q10
- Proposed Changes for DMTF Standards - 1Q10

Participation Requirements

Addition of new leadership members requires a SUPER MAJORITY (75%) of the Review Board.

Review Board Voting Policy

Review Board Voting will be a SUPER MAJORITY (75%) of the Review Board.

Alliance Partnerships

SNIA – Cloud Storage TWG

Others - TBD

Reliance/Coordination with other WG Models

The Systems Virtualization, Partitioning, and Clustering Working Group including all profiles and the OVF specification.

Coordination with DMTF marketing committee on various messaging opportunities.

Others TBD

Interim Co-Chairs

Winston Bumpus, VMware, Inc. wbumpus@vmware.com

Mike Baskey, IBM, mbaskey@us.ibm.com

Related Work

TBD