

OASIS SAF TC / DMTF CMWG Work Register

Version 6.0

Date Initiated: October 4 2010

Cloud Computing Environment Management Standards Development and Adoption

Alliance Organizations

[Distributed Management Task Force](#) (DMTF) Cloud Management Working Group (CMWG)

and

[Organization for the Advancement of Structured Information Standards](#) (OASIS) Symptoms Automation Framework (SAF) TC

OASIS SAF TC Work Area Associated with Liaison

Work on the cloud aspects of the SAF in defining interactions and facilitating mutual understanding between various resources and processes, and support management decision making in the cloud ecosystem, especially hybrid clouds, would be the relevant areas of the OASIS TC activity associated with the alliance.

DMTF CMWG Work Area Associated with Liaison

The work the DMTF CMWG performs on development of the Cloud reference architecture, use cases including service level monitoring, as well as virtualization, storage, security, network requirements and specifications as applicable to virtualized and/or cloud environments related to policies/contracts involved with performance and availability levels would be in scope.

Business Justification for Liaison

This joint effort between DMTF CMWG and OASIS SAF TC aims to coordinate the work around development and adoption of the standards for the cloud computing environment to prevent the divergence of information models, management interfaces, protocols and metrics used for the cloud computing management. It aims to bridge a significant gap currently in the understanding and collaboration between entities and across domains towards better management and automation, especially in hybrid clouds.

Industry divergence in the management area drives development, integration and operational costs up. For this reason, equipment vendors, software and service providers and enterprises will benefit from this work.

Customers and vendors of both organizations benefit from this effort by having consistent information models, management interfaces, protocols and metrics used for the cloud computing management from technology through business perspectives. Combined work will provide a stronger basis for management application interoperability and co-existence and will allow to lower development, integration and operational costs. Specifically, reducing the time to diagnose problems impacting service levels and optimizing resource utilization are specific customer benefits resulting from this ecosystem.

Scope of Liaison Activity

This Work Register between DMTF and OASIS aims to coordinate the effort between DMTF CMWG and OASIS SAF TC around development and adoption of the standards for the cloud computing environment.

In particular, the liaison will look at the coordination of SAF capabilities with the CMWG management interfaces for enhancing the interactions between the various cloud entities, and supporting management-level automated decision making based on the plethora of information from the relevant areas, e.g., resource utilization, provisioning, monitoring/reporting and auditing.

The following ongoing work and associated artifacts such as whitepapers, specifications, and technical reports will be contributed to the alliance by participating members:

Provided and supported by DMTF CMWG:

- Cloud Service Management Models
 - With supporting management architecture, use cases, and interactions
- Mappings to DMTF's OVF and SVPC, SNIA's Cloud Data Management Interface (CDMI), TMF's Information Framework (SID) and other infrastructure (server, storage, network) models which may be prevalent in the industry.
- Cloud Management Interface Requirements on Protocol, Operations, Security & Message
- Other notes and white papers as necessary

Provided and supported by OASIS SAF TC:

- SAF Whitepaper
- SAF Specification (including architecture, roles, information model, and interfaces)
- SAF/CMWG use case mapping

It is expected that the following items will be developed as a result of the liaison:

- Marketing material announcing the alliance, and a co-developed message around Cloud management standards.
- Co-developed whitepaper exploring the synergy between SAF Cloud Profile and CMWG model, including:
 - Use cases which illustrate the challenges of automated Cloud management.
 - Symptoms originating from cloud provider resources, cloud consumer business conditions, or other sources.
 - Actions implementable according to CMWG interfaces, and evocable via SAF.
 - Syndromes to identify resource conditions and support decisions on management operations (e.g. add capacity when resource load is high)
 - An application scenario in a domain of interest to both groups to illustrate use and capabilities
- SAF Cloud Profile aligned with CMWG interfaces/protocols (VMAN, OVF, and so forth).
- CMWG artifacts aligned with SAF.

In addition, it is expected that the CMWG will review the SAF working documents (especially Cloud profile materials), providing feedback and recommendations.

Activity Tracking

The specific recommendations will be tracked between the OASIS SAF TC and the DMTF as an action item list. The action item list will contain the recommendation, recommendation date, OASIS TC contact/working group, DMTF contact/working group, status (open/closed/in progress), OASIS TC tracking number or DMTF Change Request Number (or both), and the corresponding specifications versions where the recommendation will appear. If there are questions, the DMTF or OASIS TC contact may need to participate in a conference call with the "other" team.

Risks Associated with Liaison or Non-Activity

Without this work there is a very high potential of the divergence in the development of the information models, management interfaces, protocols and interaction patterns used for cloud computing management.

Further, a significant missed opportunity for improving the support for automated decision making in the area of cloud management, which is the one that needs SAF concepts the most, due to the highly “fragmented” environment, and the disparate information flows.

Milestones, Dates to be Achieved and Review Points

The collaboration work needs to be accompanied by proper tracking of identified work items with associated actions, change control requests and responses to the co-operating party.

- Feb 2011: Co-developed CMWG/SAF marketing messaging around Cloud standards.

- Apr 2011: Co-developed CMWG/SAF whitepaper.
- 2Q 2011: SAF Cloud Profile aligned with CMWG
- 3Q 2011:CMWG artifacts aligned with OASIS SAF

Work Register Review Date

The review date of this work register is April 2011 following the completion of the first deliverables. The work register will be updated upon closure to refocus the milestones and deliverables as needed to include on-going dialogue on cloud management and future coordination proposals.

Resources Identified / Points of Contact:

Within OASIS SAF TC:

Jeff Vaught (TC co-chair, Jeffrey.Vaught@ca.com),

Within DMTF CMWG:

Mark Johnson (CMWG Co-chair, mwj@us.ibm.com)

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Within both DMTF CMWG and OASIS SAF:

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Related Contacts

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Approved by the DMTF Board of Directors; Board Resolution 2011--01-04 on 1/24/2011