

WS-Management Working Group Charter

February 11, 2009

The information provided below is subject to change and reflects the current knowledge of the work group.

Management Problem(s) and Environment

The system management domain has a need for a general SOAP-based protocol for managing computers systems (e.g., personal computers, workstations, servers, smart devices). This system management protocol needs to support web services and allow constellations of computer systems and network based services to collaborate seamlessly.

The need is to provide interoperability between management applications and managed resources; identify a core set of web service specifications and usage requirements that expose a common set of operations central to all systems management. Management clients need to be able to execute specific management methods with strongly typed input and output parameters.

CIM-based management in a Web services environment requires that the CIM Schema (classes, properties and methods) be rendered in XML structures that support XML instance documents, XML Schema, and WSDL (the Web Services Description Language). To achieve this, CIM's definitive MOF (the Managed Object Format) must be mapped to XML structures via an explicit algorithm that can be programmed for automatic translation.

Working Group Charter

The Distributed Management Task Force (DMTF) has chartered the WS-Management work group with the following objectives:

1. Develop a set of DMTF standards that meet the needs of system management for a web services protocol to access managed resources.
 - a. Provide web service access to the Common Information Model
 - b. Preserve compatibility with existing implementations.
 - c. Where Web Services standards or industry initiatives exist, the group will investigate those with a goal of re-using or profiling those in its work.
2. Develop and maintain the algorithmic mapping of CIM MOF to XML structures in a manner that supports using CIM modeled resources in Web services environments and under Web services protocols.

The goal is to provide a solution for CIM resources; however the solution shall not be limited to CIM resources. The WS-Management Protocol specifications should not preclude the creation of alternative mappings for resources that are not modeled with CIM.

Alliance Partnerships

This Working Group will have an alliance with W3C WS-Resource Access WG. The alliance creation is in progress.

SNIA's SMIS effort is using WS-Management in its work.

Reliance/Coordination with other WG Models

The WS-Management work group collaborates with the following sub-committees and work groups to ensure consistency with their models, specifications, and profiles:

- Infrastructure Sub-Committee
 - WS Resource Catalog Work Group
 - WBEM Infrastructure Modeling Work Group
 - Policy Work Group
 - Generic Operations Work Group
 - CIM-XML Work Group
 - Architecture Work Group
- Platform Sub-Committee
 - Desktop & Mobile Work Group (DMWG)
 - Server Management Work Group (SMWG)
 - Physical Platform Profiles Work Group (PPP)
 - System Virtualization, Partitioning, and Clustering (SVPC)
- Schema Sub-Committee
 - Security Work Group

In addition to the work within the DMTF Technical Committee this work group will work with the forums under the Interoperability Committee in response to requests for clarifications, interpretations and errata as needed.

This work group's parent is the Infrastructure Subcommittee.

Prior Work

Completed Work

DSP#	Title	Version	State
DSP0226	WS-Management Protocol Specification	1.0.0	Final
DSP8012	WS-Management Identify Schema	1.0.0	Final
DSP8015	WS-Management Protocol XML Schema	1.0.0	Final
DSP0227	WS-Management CIM Binding Specification	1.0.0	Preliminary
DSP0230	WS-CIM Mapping Specification	1.0.0	Final

Current Work – Overview, Deliverables and Timeline

DSP#	Title	Version	State	Target
DSP0226	WS-Management Protocol Specification	1.1.0	draft	Q2-2009
DSP8015	WS-Management Protocol XML Schema	1.1.0	draft	Q2-2009
DSP0227	WS-Management CIM Binding Specification	1.0.0	Preliminary	Q1-2009
DSP8019	WS-Management CIM Binding XML Schema	1.0.0	Draft	Q1-2009
DSP0230	WS-CIM Mapping Specification	1.0.1	Errata draft	Q3-2009

Multiple specifications developed in this work group, including DSP226, DSP227, and DSP230, along with associated XML schemas are intended to be submitted to the INCITS Fast Track process for approval as ANSI and ISO standards.

Feedback from the interoperability testing conducted by the forums will be used to provide clarification of the specifications and for the issuance of errata as appropriate."

Future Work

DSP#	Title	Version	Expected Start
DSPxxx	WS-Management – Class Operations Specification		Q4-2008
DSP0226	WS-Management Protocol Specification	2.0.0	

DSP0227	WS-Management - CIM Binding Specification	2.0.0	
DSPxxxx	WS-Management Identify Operation Extensions Specification		
DSPxxxx	WS-Management Security Extensions Specification		

The Working Group will continue to maintain DSP0230 in response to requirements emerging from the DTMF/CIM community.

The WG has decided that a version of WS-Management shall be created that re-uses the work of the W3C WS-ResourceAccess WG. The timing and version of this specification will be determined by the WG.

DMTF Contacts

Working Group Chairman send email to wsman-chair@dmf.org

To join the DMTF see <http://www.dmf.org/join/>

To join the Work Group, see: <http://www.dmf.org/apps/org/workgroup/wsman>