

# Open Grid Service Common Management Model Working Group (CMM-WG)

## Global Grid Forum

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### Chairs

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### Information

Web site: <https://forge.gridforum.org/projects/cmm-wg/>

### Charter

In IT systems today there are many entities that need to be managed through a set of management operations. Each of these entities has some form of state (runtime state, configuration, etc). The purpose of this WG will be to define the Common Management Model (CMM) in which these entities will be represented as manageable resources and services. Manageable resources and services can include any type of entity, ranging from hardware (such as a disk drive), to software components (such as a database or message queue), to complete solutions (such as a billing system or provisioning), and also to transient things such as print jobs.

The Common Management Model will provide a set of port types that build on and supplement the GGF's OGSi Specification (<http://www.globalgridforum.org/ogsi-wg>) that are of broad and general use for management in the Grid. Some of these port types may have broader applicability elsewhere, such as in the OGSi workgroup's Grid Service Specification, a W3C or OASIS workgroup, or in the DMTF's Interoperability workgroup. It is expected that this workgroup will work with other workgroups and standards bodies as necessary.

The Common Management Model will rely on, but not be limited to, existing model standards, such as DMTF's Common Information Model (CIM) ([http://www.dmtf.org/standards/standard\\_cim.php](http://www.dmtf.org/standards/standard_cim.php)), IETF's Management Information

Base standards (MIBs) (<http://www.ietf.org/RFC>), and Java Management Extensions (JMX) (<http://java.sun.com/products/JavaManagement/>) to surface detailed resource manageability information. XML representation of that resource manageability information is necessary, but it is outside the scope of this workgroup; it is assumed to be the responsibility of the groups owning those resource models. It is within the scope of this workgroup to provide a best practices document for modeling manageable resources and services. This provides the industry with information on utilizing the output of this workgroup in a larger context.

We will work with (1) other GGF workgroups to coordinate the use and possible extension of schemas and (2) the OGSi workgroup to coordinate the use of and extensions to the service data framework.

The output of this workgroup will be

- (1) a specification that defines
  - (a) port types that build on and extend GGF's OGSi Specification that are of broad and general use, such as lifecycle state, relationships, and locating fine-grained resources (intent is Recommendation document)
  - (b) additional port types that are canonical and useful for multiple services, such as an operational port type with operations such as a stop/start/pause/resume, etc
  - (c) XML schema extensions that are necessary for management, such as for lifecycle and change control
- (2) best practices document for modeling resources / services (intent is Community Practice document)

This workgroup will NOT

- (1) define or suggest a single coalesced resource model from existing models
- (2) define domain specific (higher order) schemas – this is best done in separate domain specific GGF workgroup with the advice/counsel from members of this workgroup; however, it is expected that these workgroups will extend the broad and general use CMM-defined port types to adapt them to their needs
- (3) define lower level schema / XML representations for existing detailed standards models, e.g. for CIM which is DMTF responsibility or for SNMP MIBs which is IETF responsibility; however, if questions arise in these other standards bodies regarding the best practices document, or in defining the XML representations,

this group will provide advice and counsel to aid in the alignment, adaptation, and extension of CMM-defined port types

## Schedule

### February 17

- Submit CRM draft for BOF (includes WSDL for port types defined in CRM spec)
- Submit WSDL draft for base set of resources

### GGF8 - June 2003

- Specification draft text for port types and XML schema extensions
- Best Practices outline

### GGF9 - October 2003

- Specification draft text for port types and XML schema extensions
- Best Practices interim draft

### GGF10 - 2004 (first quarter)

- Last call ready of Specification draft text for port types and XML schema extensions
- Best Practices interim draft

### GGF11 - 2004 (mid year)

- Last call for Best Practices draft