



#### Web Services Distributed Management (WSDM) TC Submission: Web Services Manageability

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### Background

- Started with active involvement of the authors on W3C Web Services Architecture Working Group Management Task Force.
- To avoid fragmentation of Management Standards we co-authored a specification to facilitate development of consensus among management vendors.
- Considered concepts from existing work on Web services as a management platform.
- The specification is the agreed minimum sufficient set of information that make Web service endpoints manageable.

# Main Considerations

- Does not imply the implementation of the manageability or the manager
- Captures manageability with XML and WSDL
- Consistent with existing standards based Web Service infrastructures
- Consistent with existing management models and standards
- Use existing infrastructure mechanisms
- Easily extensible model
- Easily implementable, reducing impact on Web service development

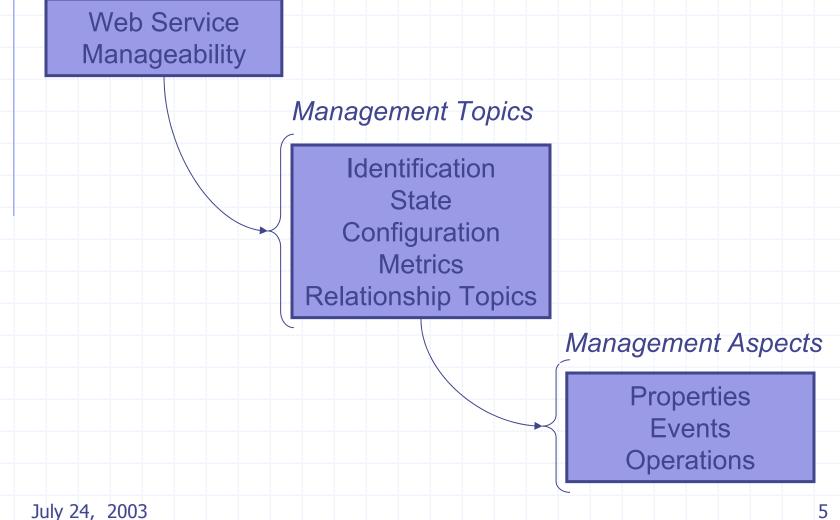
# **Intention of Submission**

#### Specification

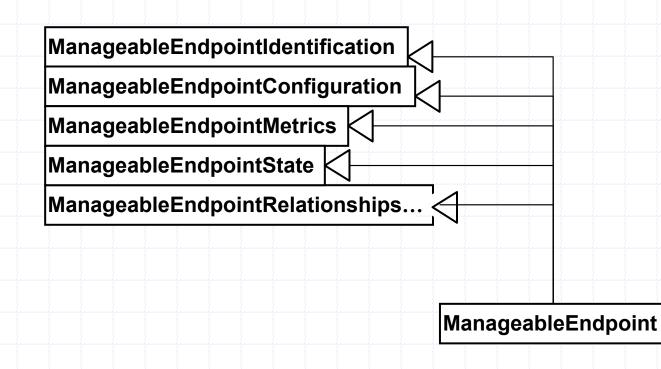
- Define the model for the manageability of Web services
- Define access to this manageability
- Access and model can be rendered in:
  - WSDL 1.1 \*
  - GWSDL \*
  - CIM Models
  - WSDL 1.2

 Identify requirements for more general Web services standards, but does not define them
Submitting the Common Base Event specification
XML event format for management events

# Management Topics and Aspects



# Web Service Manageability Model



# **Interface Strategies**

- Each topic contains one or more interfaces (portTypes)
  - Interfaces can be defined based on separation of concerns, roles, visibility, re-use, ...
  - Managed Resource interfaces are composed from topic interfaces to support management views
- Consistent interfaces across representations in WSDL and GWSDL

# **Extensible Manageability**

#### Topics are extensible

- New topics can be created
- Any topic can have aspects added to them (i.e. define new properties, operations, and events)
- New aspects can be created

Manageability information is extensible

# Infrastructure

- Supports building WS-I basic profile compliant manageable Web services
- Leverages non-management specific infrastructure available to us from
  - WS\* e.g. WS-addressing, WS-policy...
  - OGSI e.g. serviceData, notifications...
  - CMM e.g. lifecycle, relationships, metadata...
- Does not imply a specific management framework

### Conclusion

We intend to submit this work to the OASIS WSDM TC

We are looking forward to working with the WSDM TC on developing these ideas further