

WSDM 0.5 manageability scenario

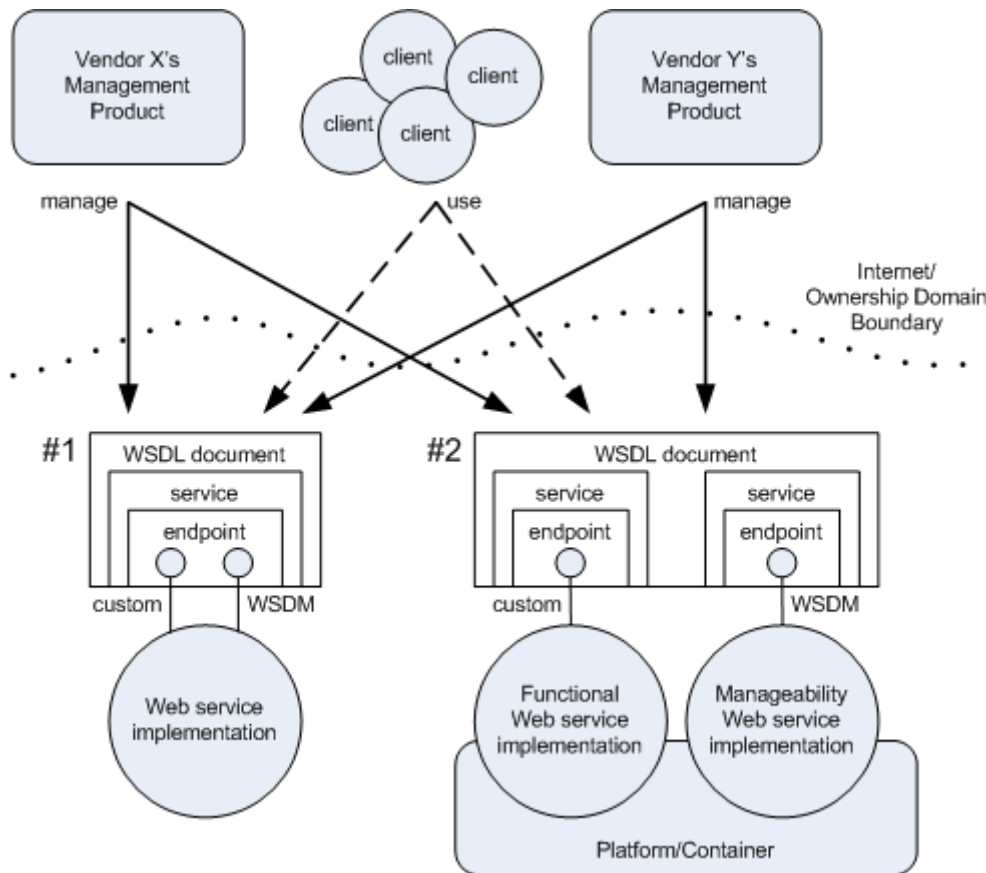
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This write-up represents an attempt to describe the interop scenario discussed at the December 2003 OASIS WSDM F2F.

The intent of this interop scenario is to demonstrate that a given Web service can be made manageable using WSDM 0.5 specification and that management products by various vendors could **monitor** the Web service via implementation of this standard.

The following diagram presents the architecture of the interop scenario.



Managers (Management Products) discover WSDL document which contains descriptions of both functional and manageability endpoints. Case #1 is when WSDM interfaces are realized by the same endpoint that realizes custom (functional) interfaces. This is the “composability” approach (manageability is a “quality” of the same service). Case #2 is when WSDM interfaces are implemented by a separate service (manageability service). This is the “delegation” approach (providing manageability is delegated to another service).

Managers establish the endpoint that provides manageability for a given Web service endpoint and manage the Web service endpoint. The intent is to enable the following capabilities for the managers to make use of:

1. Retrieval of the Identification of the Web service endpoint being managed. This could also include metadata such as DisplayName, etc.
2. Retrieval of Metrics/Counters of requests/replies/faults that occur when clients use the Web service endpoint. Possible addition: expose counters of number of distinct users that were authenticated (allowed and also not allowed).
3. Retrieval of the Service State information such as UP/DOWN and time since last state change (i.e. uptime, downtime).
4. Notifications against Service State.
5. Notifications against Request Processing such as RECEIVED/PROCESSING/PROCESSED/FAILED. Possible modification is: conditional notifications based on request processing time threshold, client's security token in the header or a particular XML data in the payload.

Managers need to demonstrate the ability to monitor WSDM 0.5 -manageable Web services by exercising the above capabilities on the manageability endpoints. One demonstration could be as follows. At the Web service end someone shuts the service down, immediately a notification is sent to the managers that correctly subscribed to such notifications. Managers display the DOWN status on the service. Repeat the same for UP. Another demonstration is: managers discover manageable Web services and display their status, counters, etc.