Data Portal Version 3
Lookup Web Service

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Data Portal – Lookup Web Service

1. DESCRIPTION

The Lookup web service performs UDDI lookups against the DataPortal private UDDI server on behalf of other modules or users. The service allows modules to locate and call other internal DataPortal modules or external services provided by external facilities.

2. WEB SERVICES OFFERED

2.1 GetFacilities

Method signature: String[] getFacilities()

This operation will return a String array containing a list of all the Facilities currently registered with the Data Portal as offering external services.

Note that the special facility name of "Dataportal" is not returned. See below.

2.2 GetServiceTypes

Method signature: String[] getServiceTypes()

This operation returns a String array containing a list of all Service types supported by the Data Portal. Currently the following are supported:

ACM	Access Control List
AUTH	Authentication
FACADM	Facilities Administation
LOOKUP	Service Lookup
QNR	Query and Reply
SESSION	Dataportal Session Manager
XMLW	XML Wrapper

Service types directly map onto UDDI Tmodel definitions.

2.3 GetServices

Method signature: String[] getServices(String facility)

When passed a valid facility name this operation will return a String array of the service types supported by the facility.

The special facility name "Dataportal" denotes internal services to the DataPortal such as the LookUp Module, Session manager etc.

2.4 LookupEndpoint

Method signature: String[] lookupEndpoint(String[] facilityList, String serviceType)

Given a string array of valid facility names and a valid service type this operation will return an array of web service endpoints. Where a particular service is not supported by a facility the endpoint returned is "null".

2.5 LookupWSDL

Method signature: String[] lookupWSDL(String[] facilityList, String serviceType)

This operation works identically to the lookupEndpoint method but returns pointers to the web service's WSDL documents instead of the actual web service endpoint.

3. USING THE WEB SERVICES

Typically a module or outside service would make use of the lookup module as follows :

For example, to find the endpoints for all XML Wrappers assuming WSDL2Java was used to create proxy stubs to the LookUp Web Service :

```
LookUpModuleService service = new LookUpModuleServiceLocator();
LookUpModule port = service.getLookUpService();

String[] endpoints = port.lookupEndpoint(port.getFacilities(), "XMLW");
```