

Netcool/OMNIbus
Version 7 Release 4

*Object Server OSLC Interface
Reference Guide*



Netcool/OMNIbus
Version 7 Release 4

*Object Server OSLC Interface
Reference Guide*



Note

Before using this information and the product it supports, read the information in “Notices” on page 111.

This edition applies to version 7, release 4 of IBM Tivoli Netcool/OMNIbus (product number 5724-S44) and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright IBM Corporation 1994, 2013.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Figures

1. Relationships between event management
OSLC resources 1

About this publication

Tivoli Netcool/OMNIBus is a service level management (SLM) system that delivers real-time, centralized monitoring of complex networks and IT domains.

The *IBM Tivoli Netcool/OMNIBus Administration Guide* provides detailed information about administrative tools, functions, and capabilities of Tivoli Netcool/OMNIBus. In addition, it is designed to be used as a reference guide to assist you in designing and configuring your environment.

Intended audience

This publication is intended for administrators who are responsible for configuring Tivoli Netcool/OMNIBus.

What this publication contains

This publication contains the following sections:

- Chapter 1, “Overview of the ObjectServer OSLC interface,” on page 1: Describes the OSLC interface and how to enable it by setting ObjectServer properties.
- Chapter 2, “OSLC services,” on page 9: The format and nature of the event management OSLC URIs
- Chapter 3, “ObjectServer OSLC resources,” on page 13: Describes the OSLC resources.
- Chapter 4, “Common behaviors,” on page 45: Lists the HTTP and HTTP version support, query parameters, authentication mechanisms, and so on.
- Appendix A, “Property XML name spaces,” on page 49: The XML name spaces that the OSLC interface supports.
- Appendix B, “Sample service provider definition,” on page 51: Sample service provider definition.
- Appendix C, “Examples: Resource RDF/XML payloads,” on page 55: Sample resource RDF/XML payloads.
- Appendix D, “Examples: HTTP requests and responses,” on page 77: Sample HTTP requests and resources.
- Appendix E, “Resource shape configuration file,” on page 101: The configuration file that is used for resource shape configuration.
- “List of abbreviations” on page x: Terms and abbreviations that are used in this publication.

Publications

This section lists publications in the Tivoli Netcool/OMNIBus library and related documents. The section also describes how to access Tivoli publications online and how to order Tivoli publications.

Your Tivoli Netcool/OMNIBus library

The following documents are available in the Tivoli Netcool/OMNIBus library:

- *IBM Tivoli Netcool/OMNIBus Installation and Deployment Guide, SC14-7526*
Includes installation and upgrade procedures for Tivoli Netcool/OMNIBus, and describes how to configure security and component communications. The publication also includes examples of Tivoli Netcool/OMNIBus architectures and describes how to implement them.
- *IBM Tivoli Netcool/OMNIBus Administration Guide, SC14-7527*
Describes how to perform administrative tasks using the Tivoli Netcool/OMNIBus Administrator GUI, command-line tools, and process control. The publication also contains descriptions and examples of ObjectServer SQL syntax and automations.
- *IBM Tivoli Netcool/OMNIBus Web GUI Administration and User's Guide, SC14-7528*
Describes how to perform administrative and event visualization tasks using the Tivoli Netcool/OMNIBus Web GUI.
- *IBM Tivoli Netcool/OMNIBus User's Guide, SC14-7529*
Provides an overview of the desktop tools and describes the operator tasks related to event management using these tools.
- *IBM Tivoli Netcool/OMNIBus Probe and Gateway Guide, SC14-7530*
Contains introductory and reference information about probes and gateways, including probe rules file syntax and gateway commands.
- *IBM Tivoli Monitoring for Tivoli Netcool/OMNIBus Agent User's Guide, SC14-7532*
Describes how to install the health monitoring agent for Tivoli Netcool/OMNIBus and contains reference information about the agent.
- *IBM Tivoli Netcool/OMNIBus Event Integration Facility Reference, SC14-7533*
Describes how to develop event adapters that are tailored to your network environment and the specific needs of your enterprise. This publication also describes how to filter events at the source.
- *IBM Tivoli Netcool/OMNIBus Error Messages Guide, SC14-7534*
Describes system messages in Tivoli Netcool/OMNIBus and how to respond to those messages.
- *IBM Tivoli Netcool/OMNIBus Web GUI Administration API (WAAPI) User's Guide, SC22-7535*
Shows how to administer the Tivoli Netcool/OMNIBus Web GUI using the XML application programming interface named WAAPI
- *IBM Tivoli Netcool/OMNIBus ObjectServer HTTP Interface Reference Guide, SC27-5613*
Describes the URIs and common behaviors of the Application Programming Interface (API) that is called the ObjectServer HTTP Interface. Describes how to enable the API and provides examples of JSON payloads, and HTTP requests and responses.
- *IBM Tivoli Netcool/OMNIBus ObjectServer OSLC Interface Reference Guide, SC27-5613*
Describes the services, resources, and common behaviors of the Open Services for Lifecycle Collaboration (OSLC) Application Programming Interface

(API) that is called the ObjectServer OSLC Interface. Describes how to enable the API and provides examples of service provider definitions, RDF/XML payloads, and HTTP requests and responses.

Accessing terminology online

The IBM Terminology Web site consolidates the terminology from IBM product libraries in one convenient location. You can access the Terminology Web site at the following Web address:

<http://www.ibm.com/software/globalization/terminology>

Accessing publications online

IBM posts publications for this and all other Tivoli products, as they become available and whenever they are updated, to the Tivoli Information Center Web site at:

<http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp>

Note: If you print PDF documents on other than letter-sized paper, set the option in the **File > Print** window that allows Adobe Reader to print letter-sized pages on your local paper.

Ordering publications

You can order many Tivoli publications online at the following Web site:

<http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

You can also order by telephone by calling one of these numbers:

- In the United States: 800-879-2755
- In Canada: 800-426-4968

In other countries, contact your software account representative to order Tivoli publications. To locate the telephone number of your local representative, perform the following steps:

1. Go to the following Web site:
<http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>
2. Select your country from the list and click **Go**. The Welcome to the IBM Publications Center page is displayed for your country.
3. On the left side of the page, click **About this site** to see an information page that includes the telephone number of your local representative.

Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully.

With this product, you can use assistive technologies to hear and navigate the interface. You can also use the keyboard instead of the mouse to operate some features of the graphical user interface.

Tivoli technical training

For Tivoli technical training information, refer to the following IBM Tivoli Education Web site:

<http://www.ibm.com/software/tivoli/education>

Support information

If you have a problem with your IBM software, you want to resolve it quickly. IBM provides the following ways for you to obtain the support you need:

Online

Go to the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html> and follow the instructions.

IBM Support Assistant

The IBM Support Assistant (ISA) is a free local software serviceability workbench that helps you resolve questions and problems with IBM software products. The ISA provides quick access to support-related information and serviceability tools for problem determination. To install the ISA software, go to <http://www.ibm.com/software/support/isa>.

Documentation

If you have a suggestion for improving the content or organization of this guide, send it to the Tivoli Netcool/OMNIBus Information Development team at:

<mailto://L3MMDOCS@uk.ibm.com>

Conventions used in this publication

This publication uses several conventions for special terms and actions and operating system-dependent commands and paths.

Typeface conventions

This publication uses the following typeface conventions:

Bold

- Lowercase commands and mixed case commands that are otherwise difficult to distinguish from surrounding text
- Interface controls (check boxes, push buttons, radio buttons, spin buttons, fields, folders, icons, list boxes, items inside list boxes, multicolumn lists, containers, menu choices, menu names, tabs, property sheets), labels (such as **Tip:** and **Operating system considerations:**)
- Keywords and parameters in text

Italic

- Citations (examples: titles of publications, diskettes, and CDs)
- Words defined in text (example: a nonswitched line is called a *point-to-point* line)
- Emphasis of words and letters (words as words example: "Use the word *that* to introduce a restrictive clause."; letters as letters example: "The LUN address must start with the letter *L*.")
- New terms in text (except in a definition list): a *view* is a frame in a workspace that contains data
- Variables and values you must provide: ... where *myname* represents....

Monospace

- Examples and code examples
- File names, programming keywords, and other elements that are difficult to distinguish from surrounding text
- Message text and prompts addressed to the user
- Text that the user must type
- Values for arguments or command options

Operating system-dependent variables and paths

This publication uses the UNIX convention for specifying environment variables and for directory notation.

When using the Windows command line, replace *\$variable* with *%variable%* for environment variables, and replace each forward slash (/) with a backslash (\) in directory paths. For example, on UNIX systems, the *\$NCHOME* environment variable specifies the path of the Netcool® home directory. On Windows systems, the *%NCHOME%* environment variable specifies the path of the Netcool home directory. The names of environment variables are not always the same in the Windows and UNIX environments. For example, *%TEMP%* in Windows environments is equivalent to *\$TMPDIR* in UNIX environments.

If you are using the bash shell on a Windows system, you can use the UNIX conventions.

Operating system-specific directory names

Where Tivoli Netcool/OMNIbus files are identified as located within an *arch* directory under *NCHOME*, *arch* is a variable that represents your operating system directory, as shown in the following table.

Table 1. Directory names for the arch variable

Directory name represented by <i>arch</i>	Operating system
<i>aix5</i>	AIX® systems
<i>hpux11hpie</i>	HP-UX Itanium-based systems
<i>linux2x86</i>	Red Hat Linux and SUSE systems
<i>linux2s390</i>	Linux for System z®
<i>solaris2</i>	Solaris systems
<i>win32</i>	Windows systems

Fix pack information

Information that is applicable only to the fix pack versions of Tivoli Netcool/OMNIbus are prefaced with a graphic. For example, if a set of instructions is preceded by the graphic , it means that the instructions can only be performed if you installed fix pack 1 of your installed version of Tivoli Netcool/OMNIbus. In the release notes, descriptions of known problems that are prefaced with  are solved in fix pack 1, and so on.

Note: Fix packs are distributed separately for the server components and the Web GUI component.

List of abbreviations

The API documentation for the ObjectServer HTTP interface and the ObjectServer OSLC interface use the following abbreviations and terms.

HTTP Hyper Text Transfer Protocol. HTTP version 1.1 is defined in RFC2616. Unless otherwise noted, the term HTTP is used in this document to mean both HTTP and HTTPS.

HTTPS Hyper Text Transfer Protocol Secure, as defined in RFC2818.

JazzSM Jazz for Service Management, which is available from <https://www.ibm.com/developerworks/mydeveloperworks/groups/service/html/communityview?communityUuid=69ec672c-dd6b-443d-add8-bb9a9a490eba>.

JSON JavaScript Object Notation, as defined in ECMA-262.

MIME Multipurpose Internet Mail Extensions. MIME media types are defined in *IANA MIME Media Types*.

OSLC Open Services for Lifecycle Collaboration, as defined at <http://open-services.net>.

REST Representational State Transfer, as originally and informally described in *Architectural Styles and the Design of Network-based Software Architectures*.

URI Uniform Resource Identifier, as defined in RFC3986.

XML eXtensible Markup Language, as defined by W3C.

Chapter 1. Overview of the ObjectServer OLSC interface

The Open Lifecycle for Services Collaboration (OSLC) interface is an event server provider that presents a resource-linked data view of events and the associated journal and detail resources. The OSLC interface gives access to three key ObjectServer resources: event, journal, and details. In addition, the interface gives read-only access to two further ObjectServer resources: person and group. The person and group resources represent ownership data in the event and journal resources.

You can enable the interface by setting properties in the ObjectServer.

The ObjectServer hosts another API that is called the HTTP interface. This API provides access to table data in the ObjectServer through a structured URI format that uses HTTP. POST, PATCH, GET, and DELETE requests. For more information about the HTTP interface, see the *IBM Tivoli Netcool/OMNIBUS HTTP Interface Reference Guide*.

The following figure shows the relationships that can exist between the ObjectServer resources that can be accessed by using the OSLC interface.

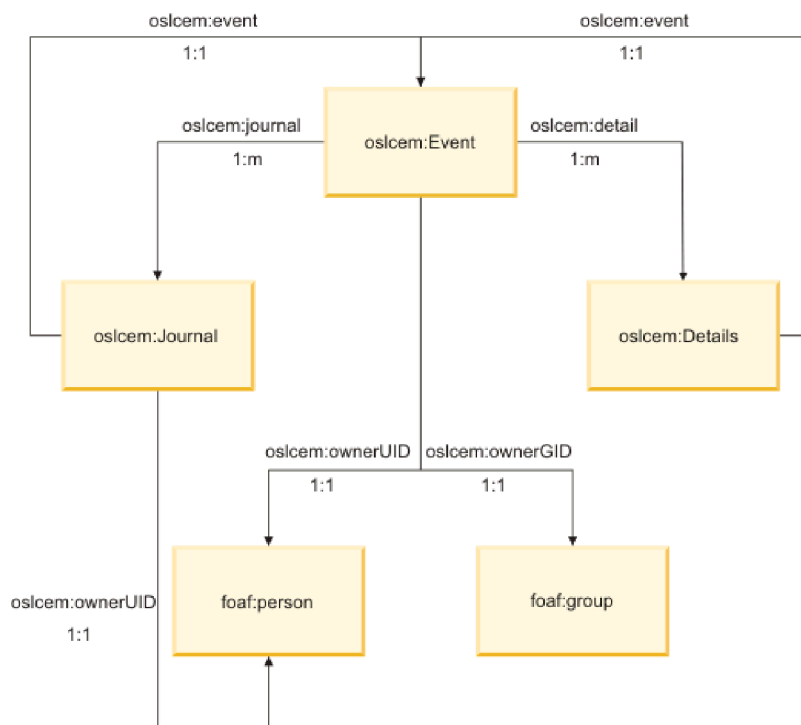


Figure 1. Relationships between event management OSLC resources

Enabling the HTTP interface and OSLC interface in the ObjectServer

The ObjectServer HTTP and OSLC interfaces are disabled by default, because the interfaces need to be configured for a secure setup.

Before you begin

Work out which ObjectServers in your environment need to be accessed via HTTP or HTTPS. Not all ObjectServers in an environment need to grant access to ObjectServer data through an HTTP-based mechanism.

About this task

Because the hosting of the HTTP and OSLC interfaces in the ObjectServer requires an embedded HTTP server, the ObjectServer can serve files to HTTP clients. Although the ObjectServer can serve pages, it is not optimized for page-serving, unlike an Apache web server. For this reason, do not use the ObjectServer to host anything other than rudimentary HTML or JavaScript pages.

Procedure

1. To enable the interfaces, set the **NRestOS.Enable** property to TRUE.
2. To configure the embedded HTTP server so that the interfaces are active on an HTTP port, specify the listening port for the connection type. For example, to make the interfaces listen on port 8080, set the properties as follows:

```
NHttpd.EnableHTTP : TRUE  
NHttpd.ListeningPort : 8080
```
3. If you want the interfaces to be active on an HTTPS port on 9090, set the properties that are shown in the following example. Because an HTTPS port is SSL encrypted, a certificate file that contains an appropriate certificate needs to be created and protected by a password.

```
NHttpd.SSLEnable : TRUE  
NHttpd.SSLListeningPort : 9090  
NHttpd.SSLCertificate : "certificatelabel"  
NHttpd.SSLCertificatePwd : "password"
```
4. To enable file-serving from the ObjectServer, set the **NHttpd.EnableFileServing** property. The root of the served pages is defined by the **NHttpd.DocumentRoot** property.
5. **Fix Pack 2** To generate the members resource reference list in the RDF/XML payload of Event, Journal, and Detail query capability responses in both **Collection** and **ResponseInfo** resource instances, set the **NRestOS.OSLCRDFMsgFormat** to "MIGRATION". For more information about this parameter and why you might need to set it, see the section *Updates to the HTTP interface and OSLC interface* in the Release Notes.

ObjectServer properties that control the HTTP interface and OSLC interface

ObjectServer properties that control the HTTP and OSLC interfaces.

The following table lists the ObjectServer properties that control the HTTP interface and the OSLC interface.

Table 2. Properties and command-line options for controlling the HTTP interface and the OSLC interface

Property	Command-line option	Description
NRestOS.Enable TRUE FALSE	-nrestosenable TRUE FALSE	Enables the HTTP interface and the OSLC interface to the ObjectServer. The default is FALSE, which means that the interfaces are disabled.
NRestOS.OSLCResource ConfigFile <i>string</i>	-nrestososlcrecfg <i>string</i>	The path to the OSLC resource configuration file. This JSON file defines how columns from the ObjectServer schema are mapped to properties in the OSLC event domain. The default is \$OMNIHOME/etc/restos/resourcecfg.json.

The following table lists the ObjectServer properties that control the embedded HTTP server.

Table 3. Properties and command-line options for controlling the embedded HTTP server

Property	Command-line option	Description
NHttpd.AccessLog <i>string</i>	-nhttpd_accesslog <i>string</i>	Specifies the name and location of the log file where the server logs all requests that it processes. The default is \$OMNIHOME/log/NCOMS_http_access.log.
NHttpd.Authentication Domain <i>string</i>	-nhttpd_authdomain <i>string</i>	Specifies the authentication domain that is used when requesting authentication details over the HTTP or HTTPS connection. The default is omnibus.

Table 3. Properties and command-line options for controlling the embedded HTTP server (continued)

Property	Command-line option	Description
Fix Pack 2 NHttpd.ConfigFile <i>string</i>	-nhttpd_configfile <i>string</i>	Specifies the path to a JSON configuration file. The default is \$OMNIHOME/etc/libnhttpd.json, which enables mimeType settings and HTTP headers in HTTP response files.
NHttpd.DocumentRoot <i>string</i>	-nhttpd_docroot <i>string</i>	Specifies the document root of the embedded web service. The default is \$OMNIHOME/etc/restos/docroot.
NHttpd.EnableFileServing TRUE FALSE	-nhttpd_enablefs TRUE FALSE	Use this property to enable default file serving by the ObjectServer. This allows the ObjectServer to act as a simple HTTP server that serves files from the local filesystem. The default is FALSE.
NHttpd.ExpireTimeout <i>unsigned</i>	-nhttpd_exptimeout <i>unsigned</i>	Specifies the maximum time, in seconds, that an HTTP 1.1 connection remains idle before it is dropped. The default is 15.
NHttpd.ListeningHostname <i>string</i>	-nhttpd_hostname <i>string</i>	Specifies the listening host name or IP address that can be used as the hostname part of a URI to the ObjectServer HTTP or HTTPS interface. The default is localhost.
NHttpd.SSLListeningPort <i>integer</i>	-nhttpd_sslport <i>integer</i>	Specifies the port on which the ObjectServer listens for HTTPS requests. The default is 0.
NHttpd.SSLCertificate <i>string</i>	-nhttpd_sslcert <i>string</i>	Specifies the name of the SSL certificate of the server. The default is ''.
NHttpd.SSLCertificatePwd <i>string</i>	-nhttpd_sslcertpwd <i>string</i>	Specifies the password required to access the SSL certificate file. The default is ''.

Table 3. Properties and command-line options for controlling the embedded HTTP server (continued)

Property	Command-line option	Description
NHttpd.SSLEnable TRUE FALSE	-nhttpd_sslenable TRUE FALSE	Enables the use of SSL support. The default is FALSE.
Fix Pack 2 NRestOS.OSLCRDFMsgFormat <i>string</i>	nrestososlcrmf <i>string</i>	Set this property to the string MIGRATION to redevelop any utilities that are based on the ObjectServer OSLC interface so that the members resource reference list is generated in a Collection resource instance instead of a ResponseInfo resource instance in the RDF/XML payload of the Event, Detail, and Journal query capability. The MIGRATION setting means that the members resource reference list is generated in both a Collection and a ResponseInfo resource instance. Redevelop your OSLC utilities to generate the members resource reference list only in the Collection resource instance. After the code that generates the list in ResponseInfo resource instance is removed, reset this property.

For more information about the properties and command-line options of the ObjectServer, see the *IBM Tivoli Netcool/OMNIBus Administration Guide*.

Enabling and configuring the IBM JazzSM service provider registry

If your environment uses Jazz for Service Management (JazzSM), you can configure the ObjectServer to register with the JazzSM service provider registry. The ObjectServer is registered as an event OSLC service provider. Registrations to JazzSM registries are configured and managed by the OSLC service provider registry table, registry.oslcsp.

About this task

Access to this table is granted only to the root user and administrators that have the OSLCAdmin role. Registrations cannot be updated. Registration records can be only inserted and deleted, not updated.

Procedure

- To create a registration, insert a registration entry into the registry.oslcsp table. The following example shows a sample SQL INSERT command for the JazzSM service provider registry that runs on the host jazzsm.company.com, on port 9080, with the default credentials:

```
INSERT INTO registry.oslcsp ( Name, RegistryURI,  
RegistryUsername, RegistryPassword )  
VALUES ( 'MyRegistration',  
'http://jazzsm.company.com:9080/oslc/pr',  
'system', 'manager' );
```

After the insert is made, the ObjectServer attempts to register the OSLC interface of the local ObjectServer with the defined JazzSM service provider registry. If the registration is successful, the registration URI that was created is stored in the RegistrationURI field. The Registered field is set to 1. If the registration is not successful, the Registered field is set to 0.

- To remove a registration from a JazzSM service provider registry, delete the registration entry from the table. For example, to remove the registration that is shown in the previous example, use the SQL DELETE command that is shown in the following example:

```
DELETE FROM registry.oslcsp WHERE Name='MyRegistration';
```

If the registration record contains a registration URI that is registered with the defined JazzSM service provider registry, the ObjectServer deletes the record after you delete the row from the table.

What to do next

If a registration fails, see the ObjectServer log file.

registry.oslc table

This table is used to configure and manage registrations of OSLC service providers to IBM® JazzSM service registries.

Table 4. OSLC service provider registration table registry.oslcsp.

Column	Type	Description
Name	VARCHAR(64)	A user-defined name for the registration table entry.
RegistryURI	VARCHAR(1024)	The OSLC service provider services record of the registry service. RegistryURI is the primary key of the table.
RegistryUsername	VARCHAR(64)	The user that is used to authenticate with the JazzSM service provider registry.
RegistryPassword	VARCHAR(64)	The password that is used to authenticate with the JazzSM service provider registry.

Table 4. OSLC service provider registration table registry.oslcsp. (continued)

Column	Type	Description
Registered	integer	Indicates whether the entry has a registration record with the JazzSM registry service. Possible values are as follows: • 0: The entry does not have a registration. • 1: The entry has a registration.
RegistrationURI	VARCHAR(1024)	The URI of the registration record in the JazzSM service provider registry for this ObjectServer.
LastRegistered	time	The date and time of the last successful registration to the JazzSM service provider registry.

Chapter 2. OSLC services

The format and nature of the event management OSLC URIs that are hosted in the ObjectServer

Base URI

The base URI for the OSLC interface is as follows.

`http://host:port/objectserver/oslc/`

Service provider service

The OSLC pattern for service providers introspects a service provider registry, for example the registry that is in Jazz for Service Management. When an HTTP GET request is made on the root URI of the service, a redirection to the service provider URI is returned. In real-life environments, use the OSLC interface through the service provider definition, where these URIs are discovered and used opaquely.

If the environment has no registry, the Tivoli Netcool/OMNIbus event management service provider definition is available through the URI that is shown in the following example. This shows a sample service provider definition for the default ObjectServer, NCOMS.

`http://host:port/objectserver/oslc/services`

The service provider services URI supports the following HTTP methods: GET.

Service provider service: GET request

The elements of an HTTP GET request to retrieve the service provider definition.

Table 5. Service provider services URI: GET request

Element	Description
HTTP method	GET
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml application/x-osl-c-em-service-description+xml
Request body	Not applicable
Example	<code>http://localhost/objectserver/oslc/services</code>

Related reference:

“Authentication mechanisms” on page 46

Connections to the OSLC interface require a set of Tivoli Netcool/OMNIBus user credentials for authentication. The only supported authentication scheme is basic HTTP authentication. If no basic HTTP credentials are provided in the HTTP **Authorization** header, a 401 (Not Authorized) HTTP response is returned.

“Example: Service provider service GET request” on page 77

Service provider service: GET response

The elements of an HTTP GET response for the retrieval of the service provider definition.

Table 6. HTTP GET elements

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml application/x-oslcm-service-description+xml
Normal HTTP response codes	200 (OK): The response body contains the RDF/XML ServiceProvider. For more information, see http://open-services.net/bin/view/Main/OslcCoreVocabulary#ServiceProvider .
Error HTTP response codes	500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Common HTTP codes are 401 (Unauthorised), 403 (Forbidden), 406 (Not Acceptable).

Related reference:

“HTTP response codes” on page 45

The common set of HTTP response codes for an HTTP method from the ObjectServer OSLC interface.

“Error RDF/XML message payload” on page 47

The OSLC interface might return an RDF/XML error message payload of OSLC type Error in any nonsuccess response code, such as 500.

“Example: Service provider service GET response” on page 77

Resource shape service

The resource shape service returns the definition of the service provider. The resource support the event management resources in the OSLC interface.

The following example shows the URI of the resource shape service.

`http://host:port/objectserver/oslc/shape`

The following HTTP methods are supported: GET.

Related reference:

Appendix A, “Property XML name spaces,” on page 49

Resource shape service: GET request

The elements of an HTTP GET request to retrieve the service provider definition.

Table 7. Resource shape service: GET request

Element	Description
HTTP method	GET
Query parameters	type Required: Specifies the required resource shape. Valid values are event, journal, or details. create Required: Specifies whether the resource shape is required. Valid values are true or false.
Request headers	Authorization Required Host Required
Accept	application/rdf+xml application/x-oslc-em-service-description+xml
Request body	Not applicable
Example	<code>http://localhost/objectserver/oslc/services</code>

Related reference:

“Authentication mechanisms” on page 46

Connections to the OSLC interface require a set of Tivoli Netcool/OMNIBus user credentials for authentication. The only supported authentication scheme is basic HTTP authentication. If no basic HTTP credentials are provided in the HTTP **Authorization** header, a 401 (Not Authorized) HTTP response is returned.

“Example: Shape service GET request” on page 78

Resource shape service: GET response

The elements of an HTTP GET response for the retrieval of the service provider definition.

Table 8. Resource shape service: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml application/x-oslcm-service-description+xml
Normal HTTP response codes	200 (OK): The response body contains the RDF/XML ServiceProvider definition. For more information, see http://open-services.net/ns/core#ResourceShape .
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Common HTTP code are 401 (Unauthorized), 403 (Forbidden), 406 (Not Acceptable).

Related reference:

“HTTP response codes” on page 45

The common set of HTTP response codes for an HTTP method from the ObjectServer OSLC interface.

“Error RDF/XML message payload” on page 47

The OSLC interface might return an RDF/XML error message payload of OSLC type Error in any nonsuccess response code, such as 500.

“Example: Shape service GET response” on page 78

Chapter 3. ObjectServer OSLC resources

The OSLC resources that are hosted in the ObjectServer.

ObjectServer OSLC resources: event

This resource provides a representation of an event that is stored in the ObjectServer.

Event definition

Tivoli Netcool/OMNIBus has a flat event schema that it is possible to modify. You can modify or remove any column of the schema except for the core columns, such as Serial and Identifier. You can also add new columns. The dynamic nature of the schema means that the OSLC event resource definition is also likely to be dynamic, which means that different environments have different shapes, except for the core column section.

You can use a configuration file to define which non-core columns are in the event resource. To define the columns, edit the configuration file. This definition is used to generate the resource representation that is presented by an HTTP request to the resource URI. For example, you can restrict the non-core columns in the schema to only those columns that you have defined.

To define which non-core columns are in the event resource, a configuration file is provided. This definition is used to generate the resource representation that is presented by an HTTP request to the resource URI. Also use the configuration file to define the XML name space that contain the properties of the resource. Six name spaces are used in the default setup.

The following table shows the event resource, as defined by the default configuration file, which contains only the core columns and the OMNIBus required properties.

Table 9. Core properties and Tivoli Netcool/OMNIBus-specific properties of the event resource shape

Prefixed name	Occurs	Read-only	Value type	Representation	Event column or description in Tivoli Netcool/OMNIBus
dcterms:identifier	zero-or-one	false	string	Not applicable	Identifier
dcterms:created	zero-or-one	false	datetime	Not applicable	First Occurrence
oslcem:ownerUID	zero-or-one	false	resource	Reference	OwnerUID
oslcem:severity	zero-or-one	false	integer	Not applicable	Severity
oslcem:summary	zero-or-one	false	string	Not applicable	Summary

Table 9. Core properties and Tivoli Netcool/OMNIBus-specific properties of the event resource shape (continued)

Prefixed name	Occurs	Read-only	Value type	Representation	Event column or description in Tivoli Netcool/OMNIBus
oslcem:node	zero-or-one	false	string	Not applicable	Node
oslcem:agent	zero-or-one	false	string	Not applicable	Agent
oslcem:alertGroup	zero-or-one	false	string	Not applicable	AlertGroup
oslcem:last Occurrence	zero-or-one	false	datetime	Not applicable	Last Occurrence
oslcem:tally	zero-or-one	false	integer	Not applicable	Tally
oslcem:acknowledged	zero-or-one	false	boolean	Not applicable	Acknowledged
oslcem:serial	zero-or-one	true	integer	Not applicable	Serial
oslcem:serverSerial	zero-or-one	true	integer	Not applicable	ServerSerial
oslcem:serverName	zero-or-one	true	integer	Not applicable	ServerName
oslcem:alertKey	zero-or-one	false	string	Not applicable	AlertKey
oslcem:manager	zero-or-one	false	string	Not applicable	Manager
oslcem:stateChange	zero-or-one	true	datetime	Not applicable	StateChange
oslcem:internalLast	zero-or-one	true	datetime	Not applicable	InternalLast
oslcem:type	zero-or-one	false	integer	Not applicable	Type
oslcem:class	zero-or-one	false	integer	Not applicable	Class
oslcem:grade	zero-or-one	false	integer	Not applicable	Grade
oslcem:OwnerGID	zero-or-one	false	resource	Reference	OwnerGID
oslcem:taskList	zero-or-one	false	string	Not applicable	TaskList
oslcem:suppressEscl	zero-or-one	false	string	Not applicable	SuppressEscl
oslcem:flash	zero-or-one	false	integer	Not applicable	Flash

Table 9. Core properties and Tivoli Netcool/OMNIBus-specific properties of the event resource shape (continued)

Prefixed name	Occurs	Read-only	Value type	Representation	Event column or description in Tivoli Netcool/OMNIBus
oslcem:expireTime	zero-or-one	false	integer	Not applicable	ExpireTime
oslcem:customer	zero-or-one	false	string	Not applicable	Customer
oslcem:service	zero-or-one	false	string	Not applicable	Service
oslcem:probeSubSecondId	zero-or-one	false	integer	Not applicable	ProbeSubSecondId
oslcem:journal	zero-or-one	true	resource	Reference	URL that fetches all the journals that are associated with the event
oslcem:detail	zero-or-one	true	resource	Reference	URL that fetches all the details that are associated with the event

For more information about the alerts.status table, see the *IBM Tivoli Netcool/OMNIBus Administration Guide*.

Event creation factory

An event resource is created by posting an RDF/XML event resource description document to the creation factory URI.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/factory/event`

The following HTTP methods are supported: POST.

Event creation factory: POST request

The requirements for a POST request to the event resource creation factory URI.

Table 10. Event creation factory: POST request

Element	Description
HTTP method	POST
Query parameters	Not applicable

Table 10. Event creation factory: POST request (continued)

Element	Description
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Content-type	application/rdf+xml
Example	http://localhost/objectserver/oslc/factory/event

Related reference:

“Authentication mechanisms” on page 46

Connections to the OSLC interface require a set of Tivoli Netcool/OMNIBus user credentials for authentication. The only supported authentication scheme is basic HTTP authentication. If no basic HTTP credentials are provided in the HTTP **Authorization** header, a 401 (Not Authorized) HTTP response is returned.

“Example: Event creation” on page 57

This example creates an event and sets various properties.

“Example: Event creation factory POST request” on page 79

Event creation factory: POST response

The elements of an HTTP POST response for the creation of an event resource through the event creation factory

Table 11. Event creation factory: POST response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive. Location The URI of the created resource.
Content-type	application/rdf+xml
Normal HTTP response codes	201 (Created): The URI of created resource contained in the HTTP header Location of the response. The response body contains an RDF/XML success message.

Table 11. Event creation factory: POST response (continued)

Element	Description
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), 406 (Not acceptable), and 415 (Unsupported Media Type).

Related reference:

“Success RDF/XML message payload” on page 46

The OSLC interface returns an RDF/XML success message payload of OSLC type ResponseInfo.

“Error RDF/XML message payload” on page 47

The OSLC interface might return an RDF/XML error message payload of OSLC type Error in any nonsuccess response code, such as 500.

“Example: Event creation factory POST response” on page 80

Event query capability

The event query capability allow queries to be made against the event set that is contained in Tivoli Netcool/OMNIBus.

The following example shows a sample URI of the event query capability.

`http://host:port/objectserver/oslc/query/events`

The following HTTP methods are supported: GET.

Event query capability: GET request

The requirements for a HTTP GET request to the event resource query capability URI.

Table 12. Event query capability: GET request

Element	Description
HTTP method	GET

Table 12. Event query capability: GET request (continued)

Element	Description
Query parameters	oslc:where Defines the conditions that the related resources must satisfy. This parameter is equivalent to the WHERE clause of an SQL statement. oslc.select Defines the properties of the event resource that should appear in the results of the HTTP response. This parameter is equivalent to the column component of an SQL SELECT statement. oslc.orderBy Defines the sort order of the result set. This parameter is equivalent to the ORDER BY clause of an SQL SELECT statement.
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	http://localhost/objectserver/oslc/query/events http://localhost/objectserver/oslc/query/events?oslc.where=oslcem%3Aseverity%3D5&oslc.orderBy=oslcem%3Aserial http://localhost/objectserver/oslc/query/events?oslc.select=oslcem%3Aseverity

Related reference:

“Authentication mechanisms” on page 46

Connections to the OSLC interface require a set of Tivoli Netcool/OMNIBus user credentials for authentication. The only supported authentication scheme is basic HTTP authentication. If no basic HTTP credentials are provided in the HTTP **Authorization** header, a 401 (Not Authorized) HTTP response is returned.

“Example: Event query capability GET request” on page 80

Event query capability: GET response

The elements of an HTTP GET response to the event resource query capability URI.

Table 13. Event query capability: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains the RDF/XML event resource query response
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Event query result” on page 58

The result message from the query capability is nonstandard but optimized to prevent unnecessary repetitive fetches of individual events. When a query is resolved, the OSLC interface has all of the events already. Consequently, in addition to generating a ResponseInfo section detailing the members of the result, the message also provides all of the requested properties of the events in the response. The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

“Error RDF/XML message payload” on page 47

The OSLC interface might return an RDF/XML error message payload of OSLC type Error in any nonsuccess response code, such as 500.

“HTTP response codes” on page 45

The common set of HTTP response codes for an HTTP method from the ObjectServer OSLC interface.

“Example: Event query capability GET response” on page 80

The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

Event resource

Every event in Tivoli Netcool/OMNIbus has its own instance URI. You can use the URI to fetch, update, and delete events. The opacity of the interface means that you do not need to look up a key field to manually create the resource URI. Resource URIs are returned to the caller in HTTP responses from the creation factory and query capability.

The following example shows a sample event resource URI.

`http://host:port/objectserver/oslc/event/keyfield`

Where *keyfield* is the key field of the event resource.

The following HTTP methods are supported: GET, PATCH, DELETE.

The update of an event is supported only through a PATCH request. The semantics of an HTTP PUT request do not translate well to event updates. An event resource is updated by patching an RDF/XML event resource description document to the specific event resource instance URI. Because this is a PATCH operation, specify only the properties that are to be updated.

Event resource: GET request

The requirements for a HTTP GET request to an event resource instance URI.

Table 14. Event resource: GET request

Element	Description
HTTP method	GET
Query parameters	oslc:select Defines the properties of the event resource that appear in the results of the HTTP response. This parameter is equivalent to the column list component of an SQL SELECT statement.
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	<code>http://localhost/objectserver/oslc/event/9999%2BNCOMS</code>

Related reference:

“Authentication mechanisms” on page 46

Connections to the OSLC interface require a set of Tivoli Netcool/OMNIbus user credentials for authentication. The only supported authentication scheme is basic HTTP authentication. If no basic HTTP credentials are provided in the HTTP **Authorization** header, a 401 (Not Authorized) HTTP response is returned.

“Example: Event resource GET request” on page 83

Event resource: GET response

The elements of a HTTP GET response to an event resource instance URI.

Table 15. Event resource: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains the RDF/XML event resource description of the event.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Event” on page 55

“Example: Event resource GET response” on page 83

Event resource: PATCH request

Table 16. Event resource: PATCH request

Element	Description
HTTP method	PATCH
Query parameters	Not applicable.
Request headers	Authorization Required Host Required
Accept	application/rdf+xml

Table 16. Event resource: PATCH request (continued)

Element	Description
Request body	An RDF/XML partial description of the event resource, which contains the event-defining properties to update.
Example	http://localhost/objectserver/oslc/event/9999%2BNCOM

Related reference:

“Example: Event PATCH” on page 58

This example updates the **creator**, **lastOccurrence**, **acknowledged**, **ownerGID** and **location** properties.

“Example: Event resource PATCH request” on page 84

Event resource: PATCH response

The elements for a HTTP PATCH response to an event resource instance URI.

Table 17. Event resource: PATCH response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), 406 (Not acceptable), and 415 (Unsupported Media Type).

Related reference:

“Success RDF/XML message payload” on page 46

The OSLC interface returns an RDF/XML success message payload of OSLC type ResponseInfo.

“Example: Event resource PATCH response” on page 85

Event resource: DELETE request

The requirements for a HTTP DELETE request to an event resource instance URI.

Table 18. Event resource: DELETE request

Element	Description
HTTP method	DELETE
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	

Related reference:

“Example: Event resource DELETE request” on page 85

Event resource: DELETE response

The elements for a HTTP DELETE response to an event resource instance URI

Table 19. Event resource: DELETE response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.

Table 19. Event resource: DELETE response (continued)

Element	Description
Error HTTP response codes	404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Success RDF/XML message payload” on page 46

The OSLC interface returns an RDF/XML success message payload of OSLC type ResponseInfo.

“Example: Event resource DELETE response” on page 85

OSLC resource: Journal

This resource represents an informational log entry by a Tivoli Netcool/OMNIBus user or an automatic action based. The log entry is based on an update that is made on an associated event. The log messages become a journal of the actions that occurred during the resolution and management of that event. A journal can be related to only one event, but one event can have many journals.

Journal definition

You can define the set of properties that make up a journal resource, in the same way as the event resource. The Tivoli Netcool/OMNIBus journal schema is fixed and cannot be changed. Consequently, the valid modifications that you can make to the journal definition are limited to XML name spaces and types.

The following table shows the default journal resource, as defined by the default definition configuration file.

Table 20. Default properties of the journal resource shape

Prefixed name	Occurs	Read-only	Value type	Representation	Event column or description in Tivoli Netcool/OMNIBus
dcterms: identifier	zero-or-one	true	string	Not applicable	KeyField
dcterms: created	zero-or-one	false	datetime	Not applicable	Chrono
oslcem: ownerUID	zero-or-one	false	resource	Reference	ownerUID

Table 20. Default properties of the journal resource shape (continued)

Prefixed name	Occurs	Read-only	Value type	Representation	Event column or description in Tivoli Netcool/OMNIBus
dcterms:content	zero-or-one	false	string	Not applicable	<i>Text, Text, ..., Text</i> Where <i>Text</i> is a journal text column. These entries are concatenated.
oslcem:event	zero-or-one	true	resource	Reference	The URI of the event to which this journal is related.

For more information about the alerts.journal table, see the *IBM Tivoli Netcool/OMNIBus Administration Guide*.

Journal creation factory

A journal resource is created by posting an RDF/XML journal resource description document to this creation factory URI.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/factory/journal`

The following HTTP methods are supported: POST.

Journal creation factory: POST request

The requirements for a HTTP POST request to the journal resource creation factory URI.

Table 21. Journal creation factory: POST request

Element	Description
HTTP method	POST
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Content-type	application/rdf+xml
Request body	An RDF/XML journal resource description, which describes the journal to create.
Example	<code>http://localhost/objectserver/oslc/factory/journal</code>

Related reference:

“Example: Journal creation” on page 65

“Example: Journal creation factory POST request” on page 86

Journal creation factory: POST response

The elements of an HTTP POST response for the creation of a journal resource through the journal creation factory URI.

Table 22. Journal creation factory: POST response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	201 (Created): The URI of the created resource is in the HTTP header Location of the response. The response body contains the RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), 406 (Not acceptable), and 415 (Unsupported Media Type).

Related reference:

“Success RDF/XML message payload” on page 46

The OSLC interface returns an RDF/XML success message payload of OSLC type ResponseInfo.

“Example: Journal creation factory POST response” on page 86

Journal query capability

The journal query capability allow queries to be made against the journal set contained in Tivoli Netcool/OMNIBus.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/query/journals`

The following HTTP methods are supported: GET.

Related reference:

“Example: Journal query capability GET request” on page 87

Journal query capability: GET request

The requirements for a HTTP GET request to the journal resource query capability.

Table 23. Journal query capability: GET request

Element	Description
HTTP method	GET
Query parameters	oslc.where Defines the conditions that related resources must satisfy. This parameter is equivalent to the WHERE clause of an SQL statement. oslc.select Defines the properties of the journal resource that should appear in the results of the HTTP response. This parameter is equivalent to the column list component of an SQL SELECT statement. oslc.orderBy Defines the sort order of the result set. This parameter is equivalent to the ORDER BY clause of an SQL SELECT statement.
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	<code>http://localhost/objectserver/oslc/query/journals</code> <code>http://localhost/objectserver/oslc/query/journals?oslc.where=oslcem%3Aevent%7Boslcem%3AserverSerial%3D99%20and%20oslcem%3AserverName%3D%22NCOMS%22%7D&oslc.orderBy=dcterms%3Acreated</code>

Related reference:

“Example: Journal creation” on page 65

“Example: Journal query capability GET request” on page 87

Journal query capability: GET response

The elements of an HTTP GET response to the journal resource query capability URI.

Table 24. Journal query capability: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Journal query result” on page 65

The result message from the query capability is nonstandard but optimized to prevent unnecessary repetitive fetches of individual journals. When a query is resolved, the OSLC interface has all of the journals already. Consequently, in addition to generating a **ResponseInfo** section detailing the members of the result, the message provides all the requested properties of the journals in the response. The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

“Example: Journal query capability GET response” on page 87

The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

Journal resource URI

Every journal in Tivoli Netcool/OMNIBus has its own instance URI. Use this URI to fetch, update, and delete journals. The opacity of the interface means that you never need to look up a key field to manually create the resource URI. Resource URIs are returned to the caller in HTTP responses from the creation factory and query capability.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/journal/keyfield`

Where *keyfield* is the key field of the journal resource.

The following HTTP methods are supported: GET, PATCH, DELETE.

Updates to journal are supported only by a PATCH request. The semantics of an HTTP PUT request do not translate well to journal updates. A journal resource is updated by patching an RDF/XML journal resource description document to the specific journal resource instance URI. Because this operation is a PATCH operation, you need to specify only the properties that are to be updated.

Journal resource: GET request

The requirements for a HTTP GET request to a journal resource instance URI.

Table 25. Journal resource: GET request

Element	Description
HTTP method	GET
Query parameters	oslc:select Defines the properties of the journal resource that are in the results of the HTTP request. This parameter is equivalent to the column list component of an SQL SELECT statement.
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	<code>http://localhost/objectserver/oslc/journal/9999%3A0%3A1337257936</code>

Related reference:

“Example: Journal resource GET request” on page 89

Journal resource: GET response

The elements of a HTTP GET response to a journal resource instance URI.

Table 26. Journal resource: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorized), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Journal” on page 64

“Example: Journal resource GET response” on page 89

Journal resource: PATCH request

The requirements for a HTTP PATCH request to a journal resource instance URI.

Table 27. Journal resource: PATCH request

Element	Description
HTTP method	PATCH
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Content-type	application/rdf+xml

Table 27. Journal resource: PATCH request (continued)

Element	Description
Request body	An RDF/XML partial description of the journal resource, which defines the properties that need to be updated.
Example	<code>http://localhost/objectserver/oslc/journal/9999%3A0%3A1337257936</code>

Related reference:

“Example: Journal PATCH” on page 65

This example updates the journal text.

“Example: Journal resource PATCH request” on page 90

Journal resource: PATCH response

The elements for a HTTP PATCH response to a journal resource instance URI.

Table 28. Journal resource: PATCH response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), 406 (Not acceptable), and 415 (Unsupported Media Type).

Related reference:

“Example: Journal resource PATCH response” on page 90

Journal resource: DELETE request

The requirements for a DELETE request to a journal resource instance URI.

Table 29. Journal resource: DELETE request

Element	Description
HTTP method	DELETE
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	http://localhost/objectserver/oslc/ journal/9999%3A0%3A1337257936

Related reference:

“Example: Journal resource DELETE request” on page 91

Journal resource: DELETE response

The elements for a HTTP DELETE response to an journal resource instance URI.

Table 30. Journal resource: DELETE response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorized), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Journal resource DELETE response” on page 91

OSLC resource: Details

A detail resource represents additional information or a data value for an event. It usually consists of raw event data from the event source. If an event is not mapped successfully to the Tivoli Netcool/OMNIBus schema, the raw elements can be populated as details, so that the failed mapping can be corrected. A detail can be associated only with one event, but an event can have many details.

Details definition

You can also define the set of properties that make up a detail resource, in the same way as the event and journal resources. The Tivoli Netcool/OMNIBus details schema is fixed and cannot be changed. Consequently, the valid modifications that you can make to the detail definition are limited to XML name spaces and types.

The following table shows the default detail resource that is defined by the default configuration file.

Table 31. Default properties of the detail resource shape

Prefixed name	Occurs	Read-only	Value-type	Representation	Event column or description in Tivoli Netcool/OMNIBus
dcterms:identifier	zero-or-one	true	string	Not applicable	KeyField
oslcem:attrValue	zero-or-one	false	Boolean	Not applicable	AttrValue
oslcem:sequence	zero-or-one	false	integer	Not applicable	Sequence
oslcem:detailName	zero-or-one	false	string	Not applicable	Name
oslcem:detailValue	zero-or-one	false	string	Not applicable	Detail
oslcem:event	zero-or-one	true	resource	Reference	The URI of the detail to which this detail is related.

For more information about the alerts.details table, see the *IBM Tivoli Netcool/OMNIBus Administration Guide*.

Related information:

 alerts.details table

Details creation factory

A detail resource is created by posting an RDF/XML detail resource description document to this creation factory URI.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/factory/detail`

The following HTTP methods are supported: POST

Details creation factory: POST request

The requirements for a HTTP POST request to the detail resource creation factory URI.

Table 32. Details creation factory: POST request

Element	Description
HTTP method	POST
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Content-type	application/rdf+xml
Request body	An RDF/XML description of the detail resource, which describes the details to create.
Example	<code>http://localhost/objectserver/oslc/factory/detail</code>

Related reference:

“Example: Detail creation factory POST request” on page 91

Event details: POST response

The elements of an HTTP POST response for the creation of a journal resource through the detail creation factory URI.

Table 33. Event details: POST response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	201 (Created): The URI of the inserted row is contained in the HTTP header Location of the response. The response body contains a JSON success message.

Table 33. Event details: POST response (continued)

Element	Description
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), 406 (Not acceptable), and 415 (Unsupported Media Type).

Related reference:

“Example: Details creation factory POST response” on page 92

Query capability

The detail query capability allow queries to be made against the detail set in Tivoli Netcool/OMNIBus.

The following example shows the query capability.

`http://host:port/objectserver/oslc/query/details`

The following HTTP methods are supported: GET.

Event details query capability: GET request

The requirements for a HTTP GET request to the detail resource query capability URI.

Table 34. Event details query capability: GET request

Element	Description
HTTP method	GET
Query parameters	oslc:where Defines the conditions that related resources must satisfy. This parameter is equivalent to the WHERE clause of an SQL statement. oslc:select Defines the properties of the detail resource that appear in the results of the HTTP response. This parameter is equivalent to the column list component of an SQL SELECT statement. oslc:orderBy Defines the sort order of the result set. This parameter is equivalent to the ORDER BY clause of an SQL SELECT statement.

Table 34. Event details query capability: GET request (continued)

Element	Description
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	http://localhost/objectserver/oslc/ query/details http://localhost/objectserver/oslc/ query/details?oslc.where=oslcem %3Aevent%7Boslcem%3AserverSerial%3D99 %20and%20oslcem%3AserverName%3D %22NCOSM%22%7D&oslc.orderBy=oslcem %3Asequence

Related reference:

“Example: Detail query capability GET request” on page 92

Event details query capability: GET response

The elements of an HTTP GET response to the detail resource query capability URI.

Table 35. Event details query capability: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Detail query result” on page 70

The result message from the query capability is nonstandard but optimized to prevent unnecessary repetitive fetches of individual details. When a query is resolved the OSLC interface has all of the details already. Consequently, in addition to generating a **ResponseInfo** section that details the members of the result, the message provides all the requested properties of the details in the response. The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

“Example: Detail query capability GET response” on page 92

The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

Event details resource

Every detail in Tivoli Netcool/OMNIBus has its own instance URI. Use this URI to fetch, update, and delete details. The opacity of the interface means that you never need to look up a key field to manually create the resource URI. Resource URIs are returned to the caller in HTTP responses from the creation factory and query capability.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/detail/keyfield`

Where *keyfield* is the key field of the event details resource.

The following HTTP methods are supported: GET, PATCH, DELETE.

Only PATCH requests can be used to update event details. The semantics of a HTTP PUT request do not translate well to detail updates. A detail resource is updated by patching an RDF/XML detail resource description document to the specific detail resource instance URI. Because this is a PATCH operation, specify only the properties that are to be updated.

Event detail resource: GET request

The requirements for a HTTP GET request to a detail resource instance URI.

Table 36. Event detail resource: GET request

Element	Description
HTTP method	GET
Query parameters	oslc:select Defines the properties of the detail resource that appear in the results of the HTTP response. This parameter is equivalent to the column list component of an SQL SELECT statement.
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable

Table 36. Event detail resource: GET request (continued)

Element	Description
Example	http://localhost/objectserver/oslc/detail/ABCDEF%23%23%23%230

Related reference:

“Example: Detail resource GET request” on page 94

Event detail resource: GET response

The elements of a HTTP GET response to a detail resource instance URI.

Table 37. Event detail resource: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Detail” on page 69

“Example: Detail resource GET response” on page 95

Event detail resource: PATCH request

The requirements for a HTTP PATCH request to a detail resource instance URI.

Table 38. Event detail resource: PATCH request

Element	Description
HTTP method	PATCH
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Content-type	application/rdf+xml
Request body	An RDF/XML partial description of the detail resource, which defines the properties to update.
Example	http://localhost/objectserver/oslc/detail/ABCDEFGH%23%23%23%230

Related reference:

“Example: Detail PATCH” on page 70

This example updates the **detail** property of the resource.

“Example: Detail resource PATCH request” on page 95

Event detail resource: PATCH response

The elements for a HTTP PATCH response to a detail resource instance URI.

Table 39. Event detail resource: PATCH response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.

Table 39. Event detail resource: PATCH response (continued)

Element	Description
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 404 (Not Found): The requested row was not found in the table because the row was deleted. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), 406 (Not acceptable), and 415 (Unsupported Media Type).

Related reference:

“Example: Detail resource PATCH response” on page 96

Event detail resource: DELETE request

The requirements for a DELETE request to a detail resource instance URI.

Table 40. Event detail resource: DELETE request

Element	Description
HTTP method	DELETE
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	http://localhost/objectserver/oslc/detail/ABCDEFGH%23%23%23%230

Related reference:

“Example: Detail resource DELETE request” on page 96

Event detail resource: DELETE response

The elements for a HTTP DELETE response to a detail resource instance URI.

Table 41. Event detail resource: DELETE response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Detail resource DELETE response” on page 96

OSLC resource: Person

This utility resource provides a meaningful representation of Tivoli Netcool/OMNIbus user. Events are owned by a user to indicate which user is processing a particular event. The Tivoli Netcool/OMNIbus schema stores only a numeric user identifier in the event itself. This utility resource gives you a means of obtaining the user name and actual name of the users that are processing events. Tivoli Netcool/OMNIbus users are created through the supplied administration tools, so require only read-only access.

No creation factory or query capability is available for this resource.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/user/userid`

Where *userid* is the Tivoli Netcool/OMNIbus user ID of the resource.

The following HTTP methods are supported: GET.

Person resource: GET request

The requirements for a HTTP GET request of a user resource instance URI.

Table 42. User resource: GET request

Element	Description
HTTP method	GET
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	http://localhost/objectserver/oslc/user/0

Related reference:

“Example: Group resource GET request” on page 97

Person resource: GET response

The elements of a HTTP GET response of a user resource instance URI.

Table 43. User resource: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: Group” on page 74

“Example: Group resource GET response” on page 97

OSLC resource: Group

This utility resource provides a meaningful representation of a Tivoli Netcool/OMNIbus group. Events are owned by a group to indicate which group is processing a particular event. The Tivoli Netcool/OMNIbus schema stores only a numeric group identifier in the event itself. This utility resource provides gives you a means of obtaining the group name. Tivoli Netcool/OMNIbus groups are created through the existing administration tools, so require only read-only access.

No creation factory or query capability is available for this resource.

The following example shows a sample URI.

`http://host:port/objectserver/oslc/user/groupid`

Where *groupid* is the Tivoli Netcool/OMNIbus group ID of the resource.

The following HTTP methods are supported: GET.

Group resource: GET request

The requirements for a HTTP GET request of a group resource instance URI.

Table 44. Group resource: GET request

Element	Description
HTTP method	GET
Query parameters	Not applicable
Request headers	Authorization Required Host Required
Accept	application/rdf+xml
Request body	Not applicable
Example	<code>http://localhost/objectserver/oslc/group/0</code>

Related reference:

“Example: Person resource GET request” on page 97

Group resource: GET response

The requirements for a HTTP GET request of a group resource instance URI.

Table 45. Group resource: GET response

Element	Description
Response headers	Server The name of the HTTPd engine. Date The date or time of the response. Connection The state of the connection. Possible states are Close or Keep-Alive.
Content-type	application/rdf+xml
Normal HTTP response codes	200 (OK): The response body contains an RDF/XML success message.
Error HTTP response codes	400 (Bad Request): The resource shape request does not use the type and create query parameters correctly. One or both of these parameters are missing from the request, or the values of the parameters are invalid. 500 (Internal Server Error): The server failed to complete the request due to an unexpected internal problem. The response body contains the RDF/XML error and more information. Other common HTTP error response codes are 401 (Unauthorised), 403 (Forbidden), and 406 (Not acceptable).

Related reference:

“Example: User” on page 75

“Example: Person resource GET response” on page 97

Chapter 4. Common behaviors

Characteristics that are common to all requests from, and all responses to the ObjectServer OSLC interface.

HTTP and HTTPS support

The ObjectServer OSLC interface supports HTTP or HTTPS connectivity at HTTP 1.0 or HTTP 1.1.

HTTP response codes

The common set of HTTP response codes for an HTTP method from the ObjectServer OSLC interface.

Success message codes

The following table shows the common HTTP success message codes.

Table 46. Common HTTP success message codes

HTTP method	HTTP response code	Comments
GET	200 (OK)	
POST	201 (Created)	The HTTP header Location contains the URI for the newly created resource.
PATCH	200 (OK)	
DELETE	200 (OK)	

Error message codes

The following table shows the common HTTP error message codes.

Table 47. Common HTTP error message codes

HTTP response code	Comments
400	Bad Request. Check the request payload and query parameters.
401	Not Authorized. The request does not contain valid authentication credentials.
403	Access to the defined resource is denied. The authentication credentials that were used to make the connection are denied access to the resources that are specified in the request.
404	The requested resource was not found. The request might be deleted.
406	The requested accept MIME type is not supported.
415	Specified content MIME type is not supported.

Table 47. Common HTTP error message codes (continued)

HTTP response code	Comments
500	Internal server error. For more information, check the RDF/XML error message payload.

OSLC query parameters

Syntax documentation about the OSLC query parameters that are supported by the Tivoli Netcool/OMNIBus OSLC interface.

oslc:where

http://open-services.net/bin/view/Main/
OslcSimpleQuerySyntaxV1?sortcol=table;table=up#oslc_where

oslc:select

http://open-services.net/bin/view/Main/
OslcSimpleQuerySyntaxV1?sortcol=table;table=up#oslc_select

oslc:orderBy

http://open-services.net/bin/view/Main/
OslcSimpleQuerySyntaxV1?sortcol=table;table=up#oslc_orderBy

Authentication mechanisms

Connections to the OSLC interface require a set of Tivoli Netcool/OMNIBus user credentials for authentication. The only supported authentication scheme is basic HTTP authentication. If no basic HTTP credentials are provided in the HTTP **Authorization** header, a 401 (Not Authorized) HTTP response is returned.

Because basic HTTP credentials are insecure, use HTTPS to ensure that the socket communication is encrypted.

For more information about using SSL to encrypt communications, see the *IBM Tivoli Netcool/OMNIBus Installation and Deployment Guide*.

Success RDF/XML message payload

The OSLC interface returns an RDF/XML success message payload of OSLC type ResponseInfo.

The error message gives details about the server return code failure in Tivoli Netcool/OMNIBus that relates to the request.

The following table shows the columns that are provided in the success message payload.

Table 48. Error DCF/XML message payload

Prefixed name	Occurs	Read-only	Value	Representation	Description
oslc:id	exactly-one	true	string	Not applicable	The key field of the affected resource.

For more information about error message payloads, see the OSLC description at <http://open-services.net/bin/view/Main/OslcCoreVocabulary#Error>.

Related reference:

“Example: RDF/XML success message” on page 75

Error RDF/XML message payload

The OSLC interface might return an RDF/XML error message payload of OSLC type Error in any nonsuccess response code, such as 500.

The following table shows the columns that are provided in the error message payload.

Table 49. RDF/XML error message payload

Prefixed name	Occurs	Read-only	Value	Representation	Description
oslc:statusCode	zero-or-one	true	string	Not applicable	The HTTP status code that is reported with the error.
oslc:message	zero-or-one	true	string	Not applicable	A message that describes the error.
oslc:extendedError	zero-or-one	true	either	Either	Extended information (type=Extended Error)

Related reference:

“Example: RDF/XML error message” on page 75

Message encryption

Encryption of the message payload is not supported.

Accept MIME types

The accept MIME types supported by the ObjectServer OSLC interface.

The supported MIME types are as follows.

application/rdf+xml (RDF/XML)

Content MIME types

The content MIME types supported by the ObjectServer OSLC interface.

The supported MIME types are as follows.

`application/rdf+xml` (RDF/XML)

Response caching

Events in the ObjectServer change constantly as a result of user or programmatic actions. Because the OSLC interface is hosted directly with the event data, there is no penalty to access the data. The interface does not cache any data, such as responses, at any level. Each OSLC request is resolved separately each time in the same way as any request upon the event data from any of the interfaces of the ObjectServer.

Appendix A. Property XML name spaces

- “DCTERMS”
- “CRTV”
- “OSLCEM”
- “OSLCEMP”
- “OSLCEMB”
- “OSLCEMM” on page 50

DCTERMS

Prefix dcterms

URI <http://purl.org/dc/terms/>

Description

Dublin Core Terms as defined by the Dublin Core Metadata Initiative.

CRTV

Prefix crtv

URI <http://open-services.net/ns/crtv#>

Description

Name space for placeholders for properties that are considered to be generic to a resource in the ObjectServer OLSC interface.

OSLCEM

Prefix oslcem

URI <http://jazz.net/ns/ism/event/omnibus#>

Description

Name space for placeholders for properties that are core to, or required for, Tivoli Netcool/OMNIBus.

OSLCEMP

Prefix oslcomp

URI <http://jazz.net/ns/ism/event/omnibus/itnm#>

Description

Name space for placeholders for properties that are core to, or required for, IBM Tivoli Network Manager IP Edition so that this product can work with Tivoli Netcool/OMNIBus event data.

OSLCEMB

Prefix oslcemb

URI <http://jazz.net/ns/ism/event/omnibus/tbsm#>

Description

Name space for placeholders for properties that are core to, or required for, IBM Tivoli Business Service Manager so that this product can work with Tivoli Netcool/OMNIBus event data.

OSLCEMM

Prefix osclemm

URI <http://jazz.net/ns/ism/event/omnibus/misc#>

Description

Name space for placeholders that do not fit into any other name space. If you add any columns to the schema, these columns need to be in this name space.

Appendix B. Sample service provider definition

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
<oslc:ServiceProvider rdf:about="http://localhost/objectserver/oslc/services">
  <dcterms:title>
    IBM Tivoli Netcool/OMNIBus ObjectServer Service Provider – [NCOMS]
  </dcterms:title>
  <dcterms:description>
    Reference Implementation OSLC for Event Management Service Document
  </dcterms:description>
  <dcterms:publisher>
    <oslc:Publisher>
      <dcterms:title>
        Open Services for Lifecycle Collaboration in Event Management
      </dcterms:title>
      <dcterms:identifier>ibm.com/software/tivoli/oslc/em</dcterms:identifier>
      <oslc:label>OSLC Event Management</oslc:label>
      <oslc:icon rdf:resource="http://localhost/images/tivoli.png"/>
    </oslc:Publisher>
  </dcterms:publisher>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>rdf</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://www.w3.org/1999/02/22-rdf-syntax-ns#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>oslc</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://open-services.net/ns/core#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>dcterms</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://purl.org/dc/terms/" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>rdfs</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://www.w3.org/2000/01/rdf-schema#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>foaf</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://xmlns.com/foaf/0.1/" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>crtv</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://open-services.net/ns/crtv#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>oslcem</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>oslcemp</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus/itm#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>oslcemb</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus/tbsm#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
  <oslc:prefixDefinition>
    <oslc:PrefixDefinition>
      <oslc:prefix>oslcemm</oslc:prefix>
      <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus/misc#" />
    </oslc:PrefixDefinition>
  </oslc:prefixDefinition>
</oslc:ServiceProvider>
</rdf:RDF>
```

```

</oslc:PrefixDefinition>
</oslc:prefixDefinition>
<oslc:prefixDefinition>
  <oslc:PrefixDefinition>
    <oslc:prefix>oslcem</oslc:prefix>
    <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus#"/>
  </oslc:PrefixDefinition>
</oslc:prefixDefinition>
<oslc:prefixDefinition>
  <oslc:PrefixDefinition>
    <oslc:prefix>oslcemp</oslc:prefix>
    <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus/itm#"/>
  </oslc:PrefixDefinition>
</oslc:prefixDefinition>
<oslc:prefixDefinition>
  <oslc:PrefixDefinition>
    <oslc:prefix>oslcemb</oslc:prefix>
    <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus/tbsm#"/>
  </oslc:PrefixDefinition>
</oslc:prefixDefinition>
<oslc:prefixDefinition>
  <oslc:PrefixDefinition>
    <oslc:prefix>oslcemm</oslc:prefix>
    <oslc:prefixBase rdf:resource="http://jazz.net/ns/ism/event/omnibus/misc#"/>
  </oslc:PrefixDefinition>
</oslc:prefixDefinition>
<oslc:service>
  <oslc:Service>
    <oslc:domain rdf:resource="http://tivoli-OSLC-prototype:80/ns/oslcem/1.0/#"/>
    <oslc:creationFactory>
      <oslc:CreationFactory>
        <dcterms:title>EM Event Creation Factory</dcterms:title>
        <oslc:label>Event Factory</oslc:label>
        <oslc:creation
          rdf:resource="http://localhost/objectserver/oslc/factory/event"/>
        <oslc:resourceShape
          rdf:resource="http://localhost/objectserver/oslc/shape?
type=event&create=true"/>
        <oslc:resourceType
          rdf:resource="http://tivoli-OSLC-prototype:80/ns/oslcem/1.0/#event"/>
        <oslc:usage rdf:resource="http://open-services.net:80/ns/core#default"/>
      </oslc:CreationFactory>
    </oslc:creationFactory>
    <oslc:creationFactory>
      <oslc:CreationFactory>
        <dcterms:title>EM Journal Creation Factory</dcterms:title>
        <oslc:label>Journal Factory</oslc:label>
        <oslc:creation
          rdf:resource="http://localhost/objectserver/oslc/factory/journal"/>
        <oslc:resourceShape
          rdf:resource="http://localhost/objectserver/oslc/shape?
type=journal&create=true"/>
        <oslc:resourceType
          rdf:resource="http://tivoli-OSLC-prototype:80/ns/oslcem/1.0/#journal"/>
        <oslc:usage
          rdf:resource="http://open-services.net:80/ns/core#default"/>
      </oslc:CreationFactory>
    </oslc:creationFactory>
    <oslc:creationFactory>
      <oslc:CreationFactory>
        <dcterms:title>EM Detail Creation Factory</dcterms:title>
        <oslc:label>Detail Factory</oslc:label>
        <oslc:creation
          rdf:resource="http://localhost/objectserver/oslc/factory/detail"/>
        <oslc:resourceShape
          rdf:resource="http://localhost/objectserver/oslc/shape?
type=detail&create=true"/>

```



```

        <oslc:resourceType rdf:resource="http://tivoli-OSLCprototype:
80/ns/oslcem/1.0/#detail"/>
        <oslc:usage rdf:resource="http://open-services.net:80/ns/core#default"/>
        </oslc:CreationFactory>
    </oslc:creationFactory>
    <oslc:queryCapability>
    <oslc:QueryCapability>
        <dcterms:title>EM Event Query Capability</dcterms:title>
        <oslc:label>Event Query</oslc:label>
        <oslc:queryBase
            rdf:resource="http://localhost/objectserver/oslc/query/events"/>
        <oslc:resourceShape
            rdf:resource="http://localhost/objectserver/oslc/shape?
type=event&create=false"/>
        <oslc:resourceType
            rdf:resource="http://tivoli-OSLC-prototype:80/ns/oslcem/1.0/#event"/>
        <oslc:usage rdf:resource="http://open-services.net:80/ns/core#default"/>
    </oslc:QueryCapability>
    </oslc:queryCapability>
    <oslc:queryCapability>
    <oslc:QueryCapability>
        <dcterms:title>EM Journal Query Capability</dcterms:title>
        <oslc:label>Journal Query</oslc:label>
        <oslc:queryBase
            rdf:resource="http://localhost/objectserver/oslc/query/journals"/>
        <oslc:resourceShape
            rdf:resource="http://localhost/objectserver/oslc/shape?
type=journal&create=false"/>
        <oslc:resourceType
            rdf:resource="http://tivoli-OSLC-prototype:80/ns/oslcem/1.0/#journal"/>
        <oslc:usage rdf:resource="http://open-services.net:80/ns/core#default"/>
    </oslc:QueryCapability>
    </oslc:queryCapability>
    <oslc:queryCapability>
    <oslc:QueryCapability>
        <dcterms:title>EM Detail Query Capability</dcterms:title>
        <oslc:label>Detail Query</oslc:label>
        <oslc:queryBase
            rdf:resource="http://localhost/objectserver/oslc/query/details"/>
        <oslc:resourceShape
            rdf:resource="http://localhost/objectserver/oslc/shape?
type=detail&create=false"/>
        <oslc:resourceType
            rdf:resource="http://tivoli-OSLC-prototype:80/ns/oslcem/1.0/#detail"/>
        <oslc:usage rdf:resource="http://open-services.net:80/ns/core#default"/>
    </oslc:QueryCapability>
    </oslc:queryCapability>
    </oslc:Service>
</oslc:service>
</oslc:ServiceProvider>
</rdf:RDF>

```

Appendix C. Examples: Resource RDF/XML payloads

Example: Event

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/event/3576%2BNCOMS">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#event"/>
    <dcterms:identifier>JUnitEventTestInstance@@@@</dcterms:identifier>
    <dcterms:created>2012-05-18T14:46:54</dcterms:created>
    <dcterms:creator rdf:resource="http://localhost/objectserver/oslc/user/501"/>
    <crtv:severity>4</crtv:severity>
    <crtv:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</crtv:summary>
    <crtv:node>localhost</crtv:node>
    <crtv:agent>createEventNew()</crtv:agent>
    <crtv:alertGroup></crtv:alertGroup>
    <crtv:lastOccurrence>2012-05-18T14:46:54</crtv:lastOccurrence>
    <crtv:tally>1</crtv:tally>
    <crtv:acknowledged>false</crtv:acknowledged>
    <oslcem:serial>3576</oslcem:serial>
    <oslcem:serverSerial>3576</oslcem:serverSerial>
    <oslcem:serverName>NCOMS</oslcem:serverName>
    <oslcem:alertKey>JUnitEventInstance</oslcem:alertKey>
    <oslcem:manager>com.ibm.netcool.omnibus.ws.junit.rest.oslc.v1.utils.
ResourceEven</oslcem:manager>
    <oslcem:stateChange>2012-05-18T13:46:54</oslcem:stateChange>
    <oslcem:internalLast>2012-05-18T13:46:54</oslcem:internalLast>
    <oslcem:type>1</oslcem:type>
    <oslcem:class>0</oslcem:class>
    <oslcem:grade>0</oslcem:grade>
    <oslcem:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/0"/>
    <oslcem:taskList>0</oslcem:taskList>
    <oslcem:suppressEsc1>0</oslcem:suppressEsc1>
    <oslcem:flash>0</oslcem:flash>
    <oslcem:expireTime>0</oslcem:expireTime>
    <oslcem:customer></oslcem:customer>
    <oslcem:service></oslcem:service>
    <oslcem:probeSubSecondId>0</oslcem:probeSubSecondId>
    <oslcem:journal rdf:resource="http://localhost/objectserver/oslc/query/journals?
oslc.where=oslcem%3Aevent%7Boslcem%3AserverSerial%3D3576%20and%20oslcem%3AserverName
%3D%22NCOMS%22%7D&amp;oslc.orderBy=dcterms%3Acreated"/>
    <oslcem:detail rdf:resource="http://localhost/objectserver/oslc/query/details?
oslc.where=oslcem%3Aevent%7Boslcem%3AserverSerial%3D3576%20and%20oslcem%3AserverName
%3D%22NCOMS%22%7D&amp;oslc.orderBy=oslcem%3Asequence"/>
    <oslcemp:eventId></oslcemp:eventId>
    <oslcemp:processReq>0</oslcemp:processReq>
    <oslcemp:nmosSerial></oslcemp:nmosSerial>
    <oslcemp:nmosObjInst>0</oslcemp:nmosObjInst>
    <oslcemp:nmosCauseType>0</oslcemp:nmosCauseType>
    <oslcemp:nmosDomainName></oslcemp:nmosDomainName>
    <oslcemp:nmosEntityId>0</oslcemp:nmosEntityId>
    <oslcemp:nmosManagedStatus>0</oslcemp:nmosManagedStatus>
    <oslcemp:nmosEventMap></oslcemp:nmosEventMap>
    <oslcemp:localNodeAlias></oslcemp:localNodeAlias>
```

```

<oslcemp:localPriObj></oslcemp:localPriObj>
<oslcemp:localSecObj></oslcemp:localSecObj>
<oslcemp:localRootObj></oslcemp:localRootObj>
<oslcemp:remoteNodeAlias></oslcemp:remoteNodeAlias>
<oslcemp:remotePriObj></oslcemp:remotePriObj>
<oslcemp:remoteSecObj></oslcemp:remoteSecObj>
<oslcemp:remoteRootObj></oslcemp:remoteRootObj>
<oslcemb:bsmIdentity></oslcemb:bsmIdentity>
<oslcemm:poll>0</oslcemm:poll>
<oslcemm:location>NOT UPDATED</oslcemm:location>
<oslcemm:physicalSlot>0</oslcemm:physicalSlot>
<oslcemm:physicalPort>0</oslcemm:physicalPort>
<oslcemm:physicalCard></oslcemm:physicalCard>
<oslcemm:x733EventType>0</oslcemm:x733EventType>
<oslcemm:x733ProbableCause>0</oslcemm:x733ProbableCause>
<oslcemm:x733SpecificProb></oslcemm:x733SpecificProb>
<oslcemm:x733CorrNotif></oslcemm:x733CorrNotif>
<oslcemm:url
  rdf:resource="http://localhost/objectserver/restapi/v1/
alerts/status"/>
<oslcemm:extendedAttr></oslcemm:extendedAttr>
<oslcemm:oldRow>0</oslcemm:oldRow>
</rdf:Description>
</rdf:RDF>

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslce="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
<rdf:Description rdf:about="http://localhost/objectserver/oslc/event/3576%2BNCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <dcterms:identifier>JUnitEventTestInstance@@@0</dcterms:identifier>
  <dcterms:created>2012-05-18T14:46:54</dcterms:created>
  <oslce:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/501"/>
  <oslce:severity>4</oslce:severity>
  <oslce:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</oslce:summary>
  <oslce:node>localhost</oslce:node>
  <oslce:agent>createEventNew()</oslce:agent>
  <oslce:alertGroup></oslce:alertGroup>
  <oslce:lastOccurrence>2012-05-18T14:46:54</oslce:lastOccurrence>
  <oslce:tally>1</oslce:tally>
  <oslce:acknowledged>false</oslce:acknowledged>
  <oslce:serial>3576</oslce:serial>
  <oslce:serverSerial>3576</oslce:serverSerial>
  <oslce:serverName>NCOMS</oslce:serverName>
  <oslce:alertKey>JUnitEventInstance</oslce:alertKey>
  <oslce:manager>com.ibm.netcool.omnibus.ws.junit.rest.oslc.v1.utils.
ResourceEven</oslce:manager>
  <oslce:stateChange>2012-05-18T13:46:54</oslce:stateChange>
  <oslce:internalLast>2012-05-18T13:46:54</oslce:internalLast>
  <oslce:type>1</oslce:type>
  <oslce:class>0</oslce:class>
  <oslce:grade>0</oslce:grade>
  <oslce:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/0"/>
  <oslce:taskList>0</oslce:taskList>
  <oslce:suppressEsc1>0</oslce:suppressEsc1>
  <oslce:flash>0</oslce:flash>
  <oslce:expireTime>0</oslce:expireTime>
  <oslce:customer></oslce:customer>
  <oslce:service></oslce:service>
  <oslce:probeSubSecondId>0</oslce:probeSubSecondId>

```

```

    <oslcem:journal rdf:resource="http://localhost/objectserver/oslcm/query/
journals?oslcm.where=oslcm%3Aevent%7Boslcm%3AserverSerial%3D3576%20and
%20oslcm%3AserverName%3D%22NCOMS%22%7D&amp;
oslcm.orderBy=dcterms%3Acreated"/>
    <oslcm:detail rdf:resource="http://localhost/objectserver/oslcm/query/details?
oslcm.where=oslcm%3Aevent%7Boslcm%3AserverSerial
%3D3576%20and%20oslcm%3AserverName%3D%22NCOMS%22%7D&
amp;oslcm.orderBy=oslcm%3Asequence"/>
    <oslcm:eventId></oslcm:eventId>
    <oslcm:processReq>0</oslcm:processReq>
    <oslcm:nmosSerial></oslcm:nmosSerial>
    <oslcm:nmosObjInst>0</oslcm:nmosObjInst>
    <oslcm:nmosCauseType>0</oslcm:nmosCauseType>
    <oslcm:nmosDomainName></oslcm:nmosDomainName>
    <oslcm:nmosEntityId>0</oslcm:nmosEntityId>
    <oslcm:nmosManagedStatus>0</oslcm:nmosManagedStatus>
    <oslcm:nmosEventMap></oslcm:nmosEventMap>
    <oslcm:localNodeAlias></oslcm:localNodeAlias>
    <oslcm:localPriObj></oslcm:localPriObj>
    <oslcm:localSecObj></oslcm:localSecObj>
    <oslcm:localRootObj></oslcm:localRootObj>
    <oslcm:remoteNodeAlias></oslcm:remoteNodeAlias>
    <oslcm:remotePriObj></oslcm:remotePriObj>
    <oslcm:remoteSecObj></oslcm:remoteSecObj>
    <oslcm:remoteRootObj></oslcm:remoteRootObj>
    <oslcm:bsmIdentity></oslcm:bsmIdentity>
    <oslcm:poll>0</oslcm:poll>
    <oslcm:location>NOT_UPDATED</oslcm:location>
    <oslcm:physicalSlot>0</oslcm:physicalSlot>
    <oslcm:physicalPort>0</oslcm:physicalPort>
    <oslcm:physicalCard></oslcm:physicalCard>
    <oslcm:x733EventType>0</oslcm:x733EventType>
    <oslcm:x733ProbableCause>0</oslcm:x733ProbableCause>
    <oslcm:x733SpecificProb></oslcm:x733SpecificProb>
    <oslcm:x733CorrNotif></oslcm:x733CorrNotif>
    <oslcm:url rdf:resource="http://localhost/objectserver/restapi/v1/
alerts/status"/>
    <oslcm:extendedAttr></oslcm:extendedAttr>
    <oslcm:oldRow>0</oslcm:oldRow>
</rdf:Description>
</rdf:RDF>

```

Example: Event creation

This example creates an event and sets various properties.

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslcm="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <rdf:Description rdf:about="http://localhost/">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
    <dcterms:identifier>JUnitEventTestInstance@@@0</dcterms:identifier>
    <dcterms:created>2012-05-18T13:46:54</dcterms:created>
    <oslcm:ownerUID rdf:resource="http://localhost/objectserver/oslcm/user/501"/>
    <oslcm:severity>4</oslcm:severity>
    <oslcm:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</oslcm:summary>
    <oslcm:node>localhost</oslcm:node>
    <oslcm:agent>createEventNew()</oslcm:agent>
    <oslcm:lastOccurrence>2012-05-18T13:46:54</oslcm:lastOccurrence>

```

```

        <oslcm:acknowledged>false</oslcm:acknowledged>
        <oslcm:alertKey>JUnitEventInstance</oslcm:alertKey>
        <oslcm:manager>com.ibm.netcool.omnibus.ws.junit.rest.oslc.v1.utils.
ResourceEvent</oslcm:manager>
        <oslcm:type>1</oslcm:type>
        <oslcm:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/0"/>
        <oslcomm:location>NOT UPDATED</oslcomm:location>
        <oslcomm:url rdf:resource="http://localhost/objectserver/restapi/v1/alerts/
status"/>
    </rdf:Description>
</rdf:RDF>

```

Example: Event PATCH

This example updates the **creator**, **lastOccurrence**, **acknowledged**, **ownerGID** and **location** properties.

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcomp="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:oslcomb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcomm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/event/
3576%2BNCOMS">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
    <oslcm:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/
65534"/>
    <oslcm:lastOccurrence>2012-05-18T13:47:10</oslcm:lastOccurrence>
    <oslcm:acknowledged>false</oslcm:acknowledged>
    <oslcm:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/1"/>
    <oslcomm:location>UPDATED</oslcomm:location>
  </rdf:Description>
</rdf:RDF>

```

Example: Event query result

The result message from the query capability is nonstandard but optimized to prevent unnecessary repetitive fetches of individual events. When a query is resolved, the OSLC interface has all of the events already. Consequently, in addition to generating a ResponseInfo section detailing the members of the result, the message also provides all of the requested properties of the events in the response. The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

Base GA version

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcomp="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:oslcomb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcomm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/events">
    <dcterms:title>Event Service Query Results</dcterms:title>
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/

```

```

3576%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3577%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3578%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3579%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3580%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3581%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3582%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3583%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3584%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
3585%2BNCOMS"/>
</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/event/
3576%2BNCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <dcterms:identifier>JUnitEventTestInstance@@@00</dcterms:identifier>
  <dcterms:created>2012-05-18T14:46:54</dcterms:created>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/
user/501"/>
  <oslcem:severity>4</oslcem:severity>
  <oslcem:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</oslcem:summary>
  <oslcem:node>localhost</oslcem:node>
  <oslcem:agent>createEventNew()</oslcem:agent>
  <oslcem:alertGroup></oslcem:alertGroup>
  <oslcem:lastOccurrence>2012-05-18T14:46:54</oslcem:lastOccurrence>
  <oslcem:tally>1</oslcem:tally>
  <oslcem:acknowledged>false</oslcem:acknowledged>
  <oslcem:serial>3576</oslcem:serial>
  <oslcem:serverSerial>3576</oslcem:serverSerial>
  <oslcem:serverName>NCOMS</oslcem:serverName>
  <oslcem:alertKey>JUnitEventInstance</oslcem:alertKey>
  <oslcem:manager>com.ibm.netcool.omnibus.ws.junit.rest.oslc.v1.utils.
ResourceEven</oslcem:manager>
  <oslcem:stateChange>2012-05-18T13:46:54</oslcem:stateChange>
  <oslcem:internalLast>2012-05-18T13:46:54</oslcem:internalLast>
  <oslcem:type>1</oslcem:type>
  <oslcem:class>0</oslcem:class>
  <oslcem:grade>0</oslcem:grade>
  <oslcem:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/0"/>
  <oslcem:taskList>0</oslcem:taskList>
  <oslcem:suppressEsc1>0</oslcem:suppressEsc1>
  <oslcem:flash>0</oslcem:flash>
  <oslcem:expireTime>0</oslcem:expireTime>
  <oslcem:customer></oslcem:customer>
  <oslcem:service></oslcem:service>
  <oslcem:probeSubSecondId>0</oslcem:probeSubSecondId>
  <oslcem:journal rdf:resource="http://localhost/objectserver/oslc/query/
journals?oslc.where=oslcem%3Aevent%7Boslcem%3AserverSerial%3D3576%20and%20oslcem
%3AserverName
%3D%22NCOMS%22%7D&oslc.orderBy=dcterms%3Acreated"/>
  <oslcem:detail rdf:resource="http://localhost/objectserver/oslc/query/
details?oslc.where=oslcem%3Aevent%7Boslcem%3AserverSerial%3D3576%20and%20oslcem
%3AserverName
%3D%22NCOMS%22%7D&oslc.orderBy=oslcem%3Asequence"/>
  <oslcemp:eventId></oslcemp:eventId>
  <oslcemp:processReq>0</oslcemp:processReq>
  <oslcemp:nmosSerial></oslcemp:nmosSerial>

```



```

<oslcepm:nmosObjInst>0</oslcepm:nmosObjInst>
<oslcepm:nmosCauseType>0</oslcepm:nmosCauseType>
<oslcepm:nmosDomainName></oslcepm:nmosDomainName>
<oslcepm:nmosEntityId>0</oslcepm:nmosEntityId>
<oslcepm:nmosManagedStatus>0</oslcepm:nmosManagedStatus>
<oslcepm:nmosEventMap></oslcepm:nmosEventMap>
<oslcepm:localNodeAlias></oslcepm:localNodeAlias>
<oslcepm:localPriObj></oslcepm:localPriObj>
<oslcepm:localSecObj></oslcepm:localSecObj>
<oslcepm:localRootObj></oslcepm:localRootObj>
<oslcepm:remoteNodeAlias></oslcepm:remoteNodeAlias>
<oslcepm:remotePriObj></oslcepm:remotePriObj>
<oslcepm:remoteSecObj></oslcepm:remoteSecObj>
<oslcepm:remoteRootObj></oslcepm:remoteRootObj>
<oslcepm:bsmIdentity></oslcepm:bsmIdentity>
<oslcepm:poll>0</oslcepm:poll>
<oslcepm:location>NOT_UPDATED</oslcepm:location>
<oslcepm:physicalSlot>0</oslcepm:physicalSlot>
<oslcepm:physicalPort>0</oslcepm:physicalPort>
<oslcepm:physicalCard></oslcepm:physicalCard>
<oslcepm:x733EventType>0</oslcepm:x733EventType>
<oslcepm:x733ProbableCause>0</oslcepm:x733ProbableCause>
<oslcepm:x733SpecificProb></oslcepm:x733SpecificProb>
<oslcepm:x733CorrNotif></oslcepm:x733CorrNotif>
<oslcepm:url rdf:resource="http://localhost/objectserver/restapi/v1/
alerts/status"/>
<oslcepm:extendedAttr></oslcepm:extendedAttr>
<oslcepm:oldRow>0</oslcepm:oldRow>
</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslce/event/
3577%2BNCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/
omnibus#Event"/>

  *** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING ***

</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslce/event/
3585%2BNCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <dcterms:identifier>JUnitEventTestInstance@@@09</dcterms:identifier>
  <dcterms:created>2012-05-18T14:46:54</dcterms:created>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslce/user/
501"/>
  <oslcem:severity>4</oslcem:severity>
  <oslcem:summary>This is a test event generated by the JUnit OSLC Event Tests.
(9)</oslcem:summary>
  <oslcem:node>localhost</oslcem:node>
  <oslcem:agent>createEventNew()</oslcem:agent>
  <oslcem:alertGroup></oslcem:alertGroup>
  <oslcem:lastOccurrence>2012-05-18T14:46:54</oslcem:lastOccurrence>
  <oslcem:tally>1</oslcem:tally>
  <oslcem:acknowledged>false</oslcem:acknowledged>
  <oslcem:serial>3585</oslcem:serial>
  <oslcem:serverSerial>3585</oslcem:serverSerial>
  <oslcem:serverName>NCOMS</oslcem:serverName>
  <oslcem:alertKey>JUnitEventInstance</oslcem:alertKey>
  <oslcem:manager>com.ibm.netcool.omnibus.ws.junit.rest.oslc.v1.utils.
ResourceEven</oslcem:manager>
  <oslcem:stateChange>2012-05-18T13:46:59</oslcem:stateChange>
  <oslcem:internalLast>2012-05-18T13:46:59</oslcem:internalLast>
  <oslcem:type>1</oslcem:type>
  <oslcem:class>0</oslcem:class>
  <oslcem:grade>0</oslcem:grade>
  <oslcem:ownerGID rdf:resource="http://localhost/objectserver/oslce/group/0"/>

```



```

<oslcm:taskList>0</oslcm:taskList>
<oslcm:suppressEsc1>0</oslcm:suppressEsc1>
<oslcm:flash>0</oslcm:flash>
<oslcm:expireTime>0</oslcm:expireTime>
<oslcm:customer></oslcm:customer>
<oslcm:service></oslcm:service>
<oslcm:probeSubSecondId>0</oslcm:probeSubSecondId>
<oslcm:journal rdf:resource="http://localhost/objectserver/oslcm/query/
journals?oslcm.where=oslcm%3Aevent%7Boslcm%3AserverSerial%3D3585%20and%20
oslcm%3AserverName%3D%22NCOMS%22%7D&oslcm.orderBy=dcterms%3Acreated"/>
<oslcm:detail rdf:resource="http://localhost/objectserver/oslcm/query/
details?oslcm.where=oslcm%3Aevent%7Boslcm%3AserverSerial%3D3585%20and%20
oslcm%3AserverName%3D%22NCOMS%22%7D&oslcm.orderBy=oslcm%3Asequence"/>
<oslcm:eventId></oslcm:eventId>
<oslcm:processReq>0</oslcm:processReq>
<oslcm:nmosSerial></oslcm:nmosSerial>
<oslcm:nmosObjInst>0</oslcm:nmosObjInst>
<oslcm:nmosCauseType>0</oslcm:nmosCauseType>
<oslcm:nmosDomainName></oslcm:nmosDomainName>
<oslcm:nmosEntityId>0</oslcm:nmosEntityId>
<oslcm:nmosManagedStatus>0</oslcm:nmosManagedStatus>
<oslcm:nmosEventMap></oslcm:nmosEventMap>
<oslcm:localNodeAlias></oslcm:localNodeAlias>
<oslcm:localPriObj></oslcm:localPriObj>
<oslcm:localSecObj></oslcm:localSecObj>
<oslcm:localRootObj></oslcm:localRootObj>
<oslcm:remoteNodeAlias></oslcm:remoteNodeAlias>
<oslcm:remotePriObj></oslcm:remotePriObj>
<oslcm:remoteSecObj></oslcm:remoteSecObj>
<oslcm:remoteRootObj></oslcm:remoteRootObj>
<oslcm:bsmIdentity></oslcm:bsmIdentity>
<oslcm:poll>0</oslcm:poll>
<oslcm:location>NOT_UPDATED</oslcm:location>
<oslcm:physicalSlot>0</oslcm:physicalSlot>
<oslcm:physicalPort>0</oslcm:physicalPort>
<oslcm:physicalCard></oslcm:physicalCard>
<oslcm:x733EventType>0</oslcm:x733EventType>
<oslcm:x733ProbableCause>0</oslcm:x733ProbableCause>
<oslcm:x733SpecificProb></oslcm:x733SpecificProb>
<oslcm:x733CorrNotif></oslcm:x733CorrNotif>
<oslcm:url rdf:resource="http://localhost/objectserver/restapi/v1/
alerts/status"/>
<oslcm:extendedAttr></oslcm:extendedAttr>
<oslcm:oldRow>0</oslcm:oldRow>
</rdf:Description>
</rdf:RDF>

```

Fix Pack 2

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslcm="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/misc#">
<oslcm:ResponseInfo rdf:about="http://localhost/objectserver/oslcm/query/events">
  <dcterms:title>Event Service Query Results</dcterms:title>
</oslcm:ResponseInfo>

<rdf:Description rdf:about="http://localhost/objectserver/oslcm/query/events">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Collection"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslcm/event/3576%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslcm/event/3577%2BNCOMS"/>

```

```

<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3578%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3579%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3580%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3581%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3582%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3583%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3584%2BNCOMS"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/3585%2BNCOMS"/>
</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/event/3576%2BNCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <dcterms:identifier>JUnitEventTestInstance@@@0</dcterms:identifier>
  <dcterms:created>2012-05-18T14:46:54</dcterms:created>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/501"/>
  <oslcem:severity>4</oslcem:severity>
  <oslcem:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</oslcem:summary>
  <oslcem:node>localhost</oslcem:node>
  <oslcem:agent>createEventNew()</oslcem:agent>
  <oslcem:alertGroup></oslcem:alertGroup>
  <oslcem:lastOccurrence>2012-05-18T14:46:54</oslcem:lastOccurrence>
  <oslcem:tally>1</oslcem:tally>
  <oslcem:acknowledged>false</oslcem:acknowledged>
  <oslcem:serial>3576</oslcem:serial>
  <oslcem:serverSerial>3576</oslcem:serverSerial>
  <oslcem:serverName>NCOMS</oslcem:serverName>
  <oslcem:alertKey>JUnitEventInstance</oslcem:alertKey>
  <oslcem:manager>com.ibm.netcool.omnibus.ws.junit.rest.oslc.v1.utils.ResourceEven
</oslcem:manager>
  <oslcem:stateChange>2012-05-18T13:46:54</oslcem:stateChange>
  <oslcem:internalLast>2012-05-18T13:46:54</oslcem:internalLast>
  <oslcem:type>1</oslcem:type>
  <oslcem:class>0</oslcem:class>
  <oslcem:grade>0</oslcem:grade>
  <oslcem:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/0"/>
  <oslcem:taskList>0</oslcem:taskList>
  <oslcem:suppressEsc1>0</oslcem:suppressEsc1>
  <oslcem:flash>0</oslcem:flash>
  <oslcem:expireTime>0</oslcem:expireTime>
  <oslcem:customer></oslcem:customer>
  <oslcem:service></oslcem:service>
  <oslcem:probeSubSecondId>0</oslcem:probeSubSecondId>
  <oslcem:journal rdf:resource="http://localhost/objectserver
/oslc/query/journals?oslc.where=
oslcem%3Aevent%7Boslcem%3AserverSerial
%3D3576%20and%20oslcem%3AserverName%3D%22NCOMS%22%7D&
amp;oslc.orderBy=dcterms%3Acreated"/>
    <oslcem:detail rdf:resource="http://localhost/objectserver/
oslc/query/details?oslc.where=
oslcem%3Aevent%7Boslcem%3AserverSerial
%3D3576%20and%20oslcem%3AserverName%3D%22NCOMS%22%7D&
amp;oslc.orderBy=oslcem%3Asequence"/>
      <oslcemp:eventId></oslcemp:eventId>
      <oslcemp:processReq>0</oslcemp:processReq>
      <oslcemp:nmosSerial></oslcemp:nmosSerial>
      <oslcemp:nmosObjInst>0</oslcemp:nmosObjInst>
      <oslcemp:nmosCauseType>0</oslcemp:nmosCauseType>
      <oslcemp:nmosDomainName></oslcemp:nmosDomainName>
      <oslcemp:nmosEntityId>0</oslcemp:nmosEntityId>
      <oslcemp:nmosManagedStatus>0</oslcemp:nmosManagedStatus>
      <oslcemp:nmosEventMap></oslcemp:nmosEventMap>
      <oslcemp:localNodeAlias></oslcemp:localNodeAlias>
      <oslcemp:localPriObj></oslcemp:localPriObj>
      <oslcemp:localSecObj></oslcemp:localSecObj>
      <oslcemp:localRootObj></oslcemp:localRootObj>
      <oslcemp:remoteNodeAlias></oslcemp:remoteNodeAlias>

```

```

<oslcepm:remotePriObj></oslcepm:remotePriObj>
<oslcepm:remoteSecObj></oslcepm:remoteSecObj>
<oslcepm:remoteRootObj></oslcepm:remoteRootObj>
<oslcepm:bsmIdentity></oslcepm:bsmIdentity>
<oslcepm:poll>0</oslcepm:poll>
<oslcepm:location>NOT UPDATED</oslcepm:location>
<oslcepm:physicalSlot>0</oslcepm:physicalSlot>
<oslcepm:physicalPort>0</oslcepm:physicalPort>
<oslcepm:physicalCard></oslcepm:physicalCard>
<oslcepm:x733EventType>0</oslcepm:x733EventType>
<oslcepm:x733ProbableCause>0</oslcepm:x733ProbableCause>
<oslcepm:x733SpecificProb></oslcepm:x733SpecificProb>
<oslcepm:x733CorrNotif></oslcepm:x733CorrNotif>
<oslcepm:url rdf:resource="http://localhost/objectserver/restapi/v1/
alerts/status"/>
  <oslcepm:extendedAttr></oslcepm:extendedAttr>
  <oslcepm:oldRow>0</oslcepm:oldRow>
</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslce/event/3577%2BNCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>

  ***** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING *****

</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslce/event/3585%2BNCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <dcterms:identifier>JUnitEventTestInstance@@@09</dcterms:identifier>
  <dcterms:created>2012-05-18T14:46:54</dcterms:created>
  <oslcepm:ownerUID rdf:resource="http://localhost/objectserver/oslce/user/501"/>
  <oslcepm:severity>4</oslcepm:severity>
  <oslcepm:summary>This is a test event generated by the JUnit OSLC Event Tests. (9)
</oslcepm:summary>
  <oslcepm:node>localhost</oslcepm:node>
  <oslcepm:agent>createEventNew()</oslcepm:agent>
  <oslcepm>alertGroup></oslcepm>alertGroup>
  <oslcepm:lastOccurrence>2012-05-18T14:46:54</oslcepm:lastOccurrence>
  <oslcepm:tally>1</oslcepm:tally>
  <oslcepm:acknowledged>false</oslcepm:acknowledged>
  <oslcepm:serial>3585</oslcepm:serial>
  <oslcepm:serverSerial>3585</oslcepm:serverSerial>
  <oslcepm:serverName>NCOMS</oslcepm:serverName>
  <oslcepm>alertKey>JUnitEventInstance</oslcepm>alertKey>
  <oslcepm:manager>com.ibm.netcool.omnibus.ws.junit.rest.
oslce.v1.utils.ResourceEven</oslcepm:manager>
  <oslcepm:stateChange>2012-05-18T13:46:59</oslcepm:stateChange>
  <oslcepm:internalLast>2012-05-18T13:46:59</oslcepm:internalLast>
  <oslcepm:type>1</oslcepm:type>
  <oslcepm:class>0</oslcepm:class>
  <oslcepm:grade>0</oslcepm:grade>
  <oslcepm:ownerGID rdf:resource="http://localhost/objectserver/oslce/group/0"/>
  <oslcepm:taskList>0</oslcepm:taskList>
  <oslcepm:suppressEsc1>0</oslcepm:suppressEsc1>
  <oslcepm:flash>0</oslcepm:flash>
  <oslcepm:expireTime>0</oslcepm:expireTime>
  <oslcepm:customer></oslcepm:customer>
  <oslcepm:service></oslcepm:service>
  <oslcepm:probeSubSecondId>0</oslcepm:probeSubSecondId>
  <oslcepm:journal rdf:resource="http://localhost/objectserver/
oslce/query/journals?oslce.where=
oslcepm%3Aevent%7Boslcepm%3AserverSerial
%3D3585%20and%20oslcepm%3AserverName%3D%22NCOMS%22%7D&
amp;oslce.orderBy=dcterms%3Acreated"/>
  <oslcepm:detail rdf:resource="http://localhost/objectserver/
oslce/query/details?oslce.where=
oslcepm%3Aevent%7Boslcepm%3Aserver

```

```

Serial%3D3585%20and%20oslcm%3AserverName%3D%22NCOMS%22%7D&
amp;oslcm.orderBy=oslcm%3Asequence"/>
  <oslcm:eventId></oslcm:eventId>
  <oslcm:processReq>0</oslcm:processReq>
  <oslcm:nmosSerial></oslcm:nmosSerial>
  <oslcm:nmosObjInst>0</oslcm:nmosObjInst>
  <oslcm:nmosCauseType>0</oslcm:nmosCauseType>
  <oslcm:nmosDomainName></oslcm:nmosDomainName>
  <oslcm:nmosEntityId>0</oslcm:nmosEntityId>
  <oslcm:nmosManagedStatus>0</oslcm:nmosManagedStatus>
  <oslcm:nmosEventMap></oslcm:nmosEventMap>
  <oslcm:localNodeAlias></oslcm:localNodeAlias>
  <oslcm:localPriObj></oslcm:localPriObj>
  <oslcm:localSecObj></oslcm:localSecObj>
  <oslcm:localRootObj></oslcm:localRootObj>
  <oslcm:remoteNodeAlias></oslcm:remoteNodeAlias>
  <oslcm:remotePriObj></oslcm:remotePriObj>
  <oslcm:remoteSecObj></oslcm:remoteSecObj>
  <oslcm:remoteRootObj></oslcm:remoteRootObj>
  <oslcm:bsmIdentity></oslcm:bsmIdentity>
  <oslcm:poll>0</oslcm:poll>
  <oslcm:location>NOT_UPDATED</oslcm:location>
  <oslcm:physicalSlot>0</oslcm:physicalSlot>
  <oslcm:physicalPort>0</oslcm:physicalPort>
  <oslcm:physicalCard></oslcm:physicalCard>
  <oslcm:x733EventType>0</oslcm:x733EventType>
  <oslcm:x733ProbableCause>0</oslcm:x733ProbableCause>
  <oslcm:x733SpecificProb></oslcm:x733SpecificProb>
  <oslcm:x733CorrNotif></oslcm:x733CorrNotif>
  <oslcm:url rdf:resource="http://localhost/objectserver/restapi/v1/
alerts/status"/>
  <oslcm:extendedAttr></oslcm:extendedAttr>
  <oslcm:oldRow>0</oslcm:oldRow>
</rdf:Description>
</rdf:RDF>

```

Example: Journal

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslcm="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/misc#">
<rdf:Description rdf:about="http://localhost/objectserver/oslcm/journal/
3576%3A0%3A1337348819">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
  <dcterms:identifier>3576:0:1337348819</dcterms:identifier>
  <oslcm:ownerUID rdf:resource="http://localhost/objectserver/oslcm/user/0"/>
  <dcterms:created>2012-05-18T14:46:59</dcterms:created>
  <dcterms:content>
    This is a test journal generated by the JUnit OSLC Journal Tests.
  </dcterms:content>
  <oslcm:event
    rdf:resource="http://localhost/objectserver/oslcm/event/3576%2BNCOMS"/>
  </rdf:Description>
</rdf:RDF>

```

Example: Journal PATCH

This example updates the journal text.

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description
    rdf:about="http://localhost/objectserver/oslc/journal/
3576%3A0%3A1337348819">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
    <dcterms:content>
      This is a test journal generated by the JUnit OSLC Journal Tests.
      ***** UPDATED JOURNAL ENTRY *****
    </dcterms:content>
  </rdf:Description>
</rdf:RDF>
```

Example: Journal creation

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
    <dcterms:created>2012-05-18T13:46:59</dcterms:created>
    <dcterms:content>
      This is a test journal generated by the JUnit OSLC Journal Tests.
    </dcterms:content>
    <oslcem:event
      rdf:resource="http://localhost/objectserver/oslc/event/3576%2BNCOMS"/>
  </rdf:Description>
</rdf:RDF>
```

Example: Journal query result

The result message from the query capability is nonstandard but optimized to prevent unnecessary repetitive fetches of individual journals. When a query is resolved, the OSLC interface has all of the journals already. Consequently, in addition to generating a **ResponseInfo** section detailing the members of the result, the message provides all the requested properties of the journals in the response. The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/journals">
    <dcterms:title>Journal Service Query Results</dcterms:title>
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
```

```

3580%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3583%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3584%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3581%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3582%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3585%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3577%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3578%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3576%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3579%3A0%3A1337348819"/>
</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/journal/
3580%3A0%3A1337348819">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
  <dcterms:identifier>3580:0:1337348819</dcterms:identifier>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
  <dcterms:created>2012-05-18T14:46:59</dcterms:created>
  <dcterms:content>
    This is a test journal generated by the JUnit OSLC Journal Tests.
  </dcterms:content>
  <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/3580%2BNCOMS"/>
</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/journal/3583%3A0%3A1337348819">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>

  ** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING **
</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/journal/
3579%3A0%3A1337348819">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
  <dcterms:identifier>3579:0:1337348819</dcterms:identifier>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
  <dcterms:created>2012-05-18T14:46:59</dcterms:created>
  <dcterms:content>
    This is a test journal generated by the JUnit OSLC Journal Tests.
  </dcterms:content>
  <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/
3579%2BNCOMS"/>
  </rdf:Description>
</rdf:RDF>

```



```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">

  <oslc:ResponseInfo rdf:about="http://localhost/objectserver/oslc/query/journals">
    <dcterms:title>Journal Service Query Results</dcterms:title>
  </oslc:ResponseInfo>

  <rdf:Description rdf:about="http://localhost/objectserver/
oslc/query/journals">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/
omnibus#Collection"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3580%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3583%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3584%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3581%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3582%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3585%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3577%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3578%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3576%3A0%3A1337348819"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslc/journal/
3579%3A0%3A1337348819"/>
  </rdf:Description>

  <rdf:Description
    rdf:about="http://localhost/objectserver/oslc/journal/
3580%3A0%3A1337348819">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/
omnibus#Journal"/>
    <dcterms:identifier>3580:0:1337348819</dcterms:identifier>
    <oslcem:ownerUID rdf:resource="http://localhost/
objectserver/oslc/user/0"/>
    <dcterms:created>2012-05-18T14:46:59</dcterms:created>
    <dcterms:content>
      This is a test journal generated by the JUnit OSLC Journal Tests.
    </dcterms:content>
    <oslcem:event
      rdf:resource="http://localhost/objectserver/oslc/event/
3580%2BNCOMS"/>
  </rdf:Description>

```

```

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/journal/
3583%3A0%3A1337348819">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>

  **** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING ****

</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/journal/
3579%3A0%3A1337348819">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/
omnibus#Journal"/>
  <dcterms:identifier>3579:0:1337348819</dcterms:identifier>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
  <dcterms:created>2012-05-18T14:46:59</dcterms:created>
  <dcterms:content>
    This is a test journal generated by the JUnit OSLC Journal Tests.
  </dcterms:content>
  <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/3579%2BNCOMS"/>
  </rdf:Description>
</rdf:RDF>

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">

<oslc:ResponseInfo rdf:about="http://localhost/objectserver/oslc/
query/journals">
  <dcterms:title>Journal Service Query Results</dcterms:title>
</oslc:ResponseInfo>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/
query/journals">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/
omnibus#Collection"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3580%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3583%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3584%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3581%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3582%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3585%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3577%3A0%3A1337348819"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3578%3A0%3A1337348819"/>
  <rdfs:member

```



```

    rdf:resource="http://localhost/objectserver/oslc/journal/
3576%3A0%3A1337348819"/>
    <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/journal/
3579%3A0%3A1337348819"/>
</rdf:Description>

<rdf:Description
    rdf:about="http://localhost/objectserver/oslc/journal/
3580%3A0%3A1337348819">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
    <dcterms:identifier>3580:0:1337348819</dcterms:identifier>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
    <dcterms:created>2012-05-18T14:46:59</dcterms:created>
    <dcterms:content>
    This is a test journal generated by the JUnit OSLC Journal Tests.
    </dcterms:content>
    <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/3580%2BNCOMS"/>
</rdf:Description>

<rdf:Description
    rdf:about="http://localhost/objectserver/oslc/journal/3583%3A0%3A1337348819">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>

    ***** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING *****

</rdf:Description>

<rdf:Description
    rdf:about="http://localhost/objectserver/oslc/journal/
3579%3A0%3A1337348819">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/
omnibus#Journal"/>
    <dcterms:identifier>3579:0:1337348819</dcterms:identifier>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
    <dcterms:created>2012-05-18T14:46:59</dcterms:created>
    <dcterms:content>
    This is a test journal generated by the JUnit OSLC Journal Tests.
    </dcterms:content>
    <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/
3579%2BNCOMS"/>
</rdf:Description>
</rdf:RDF>

```

Example: Detail

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description
    rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%40%23%23%23%230">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <dcterms:identifier>JUnitEventTestInstance@@@@###0</dcterms:identifier>
    <oslcem:attrValue>true</oslcem:attrValue>
    <oslcem:sequence>0</oslcem:sequence>
    <oslcem:detailName>EventDetail0</oslcem:detailName>
    <oslcem:detailValue>
    This is a test detail generated by the JUnit OSLC Detail Tests.
    </oslcem:detailValue>
    <oslcem:event

```

```

    rdf:resource="http://localhost/objectserver/oslc/event/
3576%2BNCOMS"/>
  </rdf:Description>
</rdf:RDF>

```

Example: Detail PATCH

This example updates the **detail** property of the resource.

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description
    rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%40%23%23%23%230">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <oslcem:detailValue>
      This is a test detail generated by the JUnit OSLC Detail Tests.
      ***** UPDATED DETAIL ENTRY *****
    </oslcem:detailValue>
  </rdf:Description>
</rdf:RDF>

```

Example: Detail creation

```

<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <oslcem:attrValue>true</oslcem:attrValue>
    <oslcem:sequence>0</oslcem:sequence>
    <oslcem:detailName>EventDetail0</oslcem:detailName>
    <oslcem:detailValue>
      This is a test detail generated by the JUnit OSLC Detail Tests.
    </oslcem:detailValue>
    <oslcem:event
      rdf:resource="http://localhost/objectserver/oslc/event/3576%2BNCOMS"/>
  </rdf:Description>
</rdf:RDF>

```

Example: Detail query result

The result message from the query capability is nonstandard but optimized to prevent unnecessary repetitive fetches of individual details. When a query is resolved the OSLC interface has all of the details already. Consequently, in addition to generating a **ResponseInfo** section that details the members of the result, the message provides all the requested properties of the details in the response. The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/details">

```

```

        <dcterms:title>Detail Service Query Results</dcterms:title>
        <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%404%23%23%23%234"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%408%23%23%23%238"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%402%23%23%23%232"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%406%23%23%23%236"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%400%23%23%23%230"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%405%23%23%23%235"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%409%23%23%23%239"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%403%23%23%23%233"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%407%23%23%23%237"/>
        <rdfs:member
            rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%401%23%23%23%231"/>
    </rdf:Description>

    <rdf:Description
        rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%404%23%23%23%234">
        <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
        <dcterms:identifier>JUnitEventTestInstance@@@4####4</dcterms:identifier>
        <oslcem:attrValue>true</oslcem:attrValue>
        <oslcem:sequence>4</oslcem:sequence>
        <oslcem:detailName>EventDetail4</oslcem:detailName>
        <oslcem:detailValue>
            This is a test detail generated by the JUnit OSLC Detail Tests.
        </oslcem:detailValue>
        <oslcem:event
            rdf:resource="http://localhost/objectserver/oslc/event/3580%2BNCOMS"/>
    </rdf:Description>

    <rdf:Description
        rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%408%23%23%23%238">
        <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>

        *** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING ***

    </rdf:Description>
    <rdf:Description
        rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%401%23%23%23%231">
        <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
        <dcterms:identifier>JUnitEventTestInstance@@@1####1</dcterms:identifier>
        <oslcem:attrValue>true</oslcem:attrValue>
        <oslcem:sequence>1</oslcem:sequence>
        <oslcem:detailName>EventDetail1</oslcem:detailName>
        <oslcem:detailValue>
            This is a test detail generated by the JUnit OSLC Detail Tests.

```

```

        </oslcm:detailValue>
        <oslcm:event
          rdf:resource="http://localhost/objectserver/oslcm/event/3577%2BNCOMS"/>
      </rdf:Description>
    </rdf:RDF>

```

Fix Pack 2

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslcm="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus#">
  <oslcm:ResponseInfo rdf:about="http://localhost/objectserver/oslcm/query/details">
    <dcterms:title>Detail Service Query Results</dcterms:title>
  </oslcm:ResponseInfo>

  <rdf:Description rdf:about="http://localhost/objectserver/oslcm/query/details">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Collection"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%234"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%238"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%232"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%236"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%230"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%235"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%239"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%233"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%237"/>
    <rdfs:member
      rdf:resource="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%231"/>
    </rdfs:member>
  </rdfs:member>
</rdf:Description>

  <rdf:Description
    rdf:about="http://localhost/objectserver/oslcm/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%234">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <dcterms:identifier>JUnitEventTestInstance@@@4###4</dcterms:identifier>
    <oslcm:attrValue>true</oslcm:attrValue>
    <oslcm:sequence>4</oslcm:sequence>
    <oslcm:detailName>EventDetail4</oslcm:detailName>
    <oslcm:detailValue>
      This is a test detail generated by the JUnit OSLC Detail Tests.
    </oslcm:detailValue>
    <oslcm:event
      rdf:resource="http://localhost/objectserver/oslcm/event/3580%2BNCOMS"/>
    </oslcm:event>
  </rdf:Description>

```

```

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%23%23%23%238">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>

  **** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING ****

</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%23%23%23%231">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
  <dcterms:identifier>JUnitEventTestInstance@@@1###1</dcterms:identifier>
  <oslcem:attrValue>true</oslcem:attrValue>
  <oslcem:sequence>1</oslcem:sequence>
  <oslcem:detailName>EventDetail1</oslcem:detailName>
  <oslcem:detailValue>
    This is a test detail generated by the JUnit OSLC Detail Tests.
  </oslcem:detailValue>
  <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/3577%2BNCOMS"/>
  </rdf:Description>
</rdf:RDF>

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
<oslc:ResponseInfo rdf:about="http://localhost/objectserver/oslc/query/details">
  <dcterms:title>Detail Service Query Results</dcterms:title>
</oslc:ResponseInfo>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/query/details">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Collection"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%234"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%238"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%232"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%236"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%230"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%235"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%239"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%233"/>
  <rdfs:member
    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%237"/>
  <rdfs:member

```

```

    rdf:resource="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%401%23%23%23%231"/>
</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%404%23%23%23%234">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
  <dcterms:identifier>JUnitEventTestInstance@@@4####4</dcterms:identifier>
  <oslcem:attrValue>true</oslcem:attrValue>
  <oslcem:sequence>4</oslcem:sequence>
  <oslcem:detailName>EventDetail4</oslcem:detailName>
  <oslcem:detailValue>
    This is a test detail generated by the JUnit OSLC Detail Tests.
  </oslcem:detailValue>
  <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/3580%2BNCOMS"/>
  </oslcem:event>
</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%408%23%23%23%238">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>

  **** CONTENTS STRIPPED TO IMPROVE UNDERSTANDING ****

</rdf:Description>

<rdf:Description
  rdf:about="http://localhost/objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%401%23%23%23%231">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
  <dcterms:identifier>JUnitEventTestInstance@@@1####1</dcterms:identifier>
  <oslcem:attrValue>true</oslcem:attrValue>
  <oslcem:sequence>1</oslcem:sequence>
  <oslcem:detailName>EventDetail1</oslcem:detailName>
  <oslcem:detailValue>
    This is a test detail generated by the JUnit OSLC Detail Tests.
  </oslcem:detailValue>
  <oslcem:event
    rdf:resource="http://localhost/objectserver/oslc/event/3577%2BNCOMS"/>
  </oslcem:event>
</rdf:Description>
</rdf:RDF>

```

Example: Group

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#">
  <oslcem:Group rdf:about="http://localhost/objectserver/oslc/group/0">
    <foaf:name>Public</foaf:name>
    <oslcem:description>Public Group</oslcem:description>
    <oslcem:groupId>0</oslcem:groupId>
  </oslcem:Group>
</rdf:RDF>

```

Example: User

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <oslcem:User rdf:about="http://localhost/objectserver/oslc/user/501">
    <foaf:name>Test User 02</foaf:name>
    <oslcem:userName>testuser02</oslcem:userName>
    <oslcem:userId>501</oslcem:userId>
  </oslcem:User>
</rdf:RDF>
```

Example: RDF/XML success message

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/
event/12571%3ANCOMS">
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <oslc:id>12571%3ANCOMS</oslc:id>
  </rdf:Description>
</rdf:RDF>
```

Example: RDF/XML error message

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/factory/event">
    <rdf:type rdf:resource="http://open-services.net/ns/core#Error"/>
    <oslc:statusCode>400</oslc:statusCode>
    <oslc:message>Object not found</oslc:message>
  </rdf:Description>
</rdf:RDF>
```

Appendix D. Examples: HTTP requests and responses

Example: Service provider service GET request

```
GET /objectserver/oslc/services HTTP/1.1
Accept: application/x-oslc-em-service-description+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Service provider service GET response

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/x-oslc-em-service-description+xml
Content-Length: 8094

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <oslc:ServiceProvider rdf:about="http://localhost/objectserver/oslc/services">
    <dcterms:title>IBM Tivoli Netcool/OMNIBus ObjectServer Service Provider
    - [NCOMS]</dcterms:title>
    <dcterms:description>Reference Implementation OSLC for Event Management
    Service Document</dcterms:description>
    <dcterms:publisher>
      <oslc:Publisher>
        <dcterms:title>Open Services for Lifecycle Collaboration in Event Management
        </dcterms:title>
        <dcterms:identifier>ibm.com/software/tivoli/oslc/em</dcterms:identifier>
        <oslc:label>OSLC Event Management</oslc:label>
        <oslc:icon rdf:resource="http://localhost/images/tivoli.png"/>
      </oslc:Publisher>
    </dcterms:publisher>
    <oslc:prefixDefinition>
      <oslc:PrefixDefinition>
        <oslc:prefix>rdf</oslc:prefix>
        <oslc:prefixBase rdf:resource="http://www.w3.org/1999/02/
22-rdf-syntax-ns#" />
      </oslc:PrefixDefinition>
    </oslc:prefixDefinition>

    ***** TRUNCATED *****

    <oslc:queryCapability>
    <oslc:QueryCapability>
    <dcterms:title>EM Event Query Capability</dcterms:title>
    <oslc:label>Event Query</oslc:label>
    <oslc:queryBase rdf:resource="http://localhost/objectserver/oslc/
```

```

query/events"/>
  <oslc:resourceShape rdf:resource="http://localhost/objectserver/oslc/shape?
type=event&create=false"/>
  <oslc:resourceType rdf:resource="http://tivoli-OSLC-prototype:80/ns/
oslcem/1.0/#event"/>
  <oslc:usage rdf:resource="http://open-services.net:80/ns/core#default"/>
</oslc:QueryCapability>
</oslc:queryCapability>
</oslc:Service>
</oslc:service>
</oslc:ServiceProvider>
</rdf:RDF>

```

Example: Shape service GET request

```

GET /objectserver/oslc/shape?type=event&create=true HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive

```

Example: Shape service GET response

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 8094

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <oslc:ResourceShape rdf:about="http://localhost/objectserver/oslc/shape?
type=event&create=true">
    <dcterms:title>Event Type Creation Shape</dcterms:title>
    <oslc:describes rdf:resource="http://tivoli-OSLC-prototype:80/ns/
oslcem/1.0/#event"/>
    <oslc:property>
      <oslc:Property>
        <oslc:name>identifier</oslc:name>
        <oslc:valueType rdf:resource="http://www.w3.org:80/2001/
XMLSchema#string"/>
        <oslc:occurs rdf:resource="http://open-services.net:80/ns/
core#Exactly-one"/>
        <oslc:propertyDefinition rdf:resource="http://purl.org:80/
dc/terms/identifier"/>
        <oslc:readOnly rdf:resource="http://www.w3.org:2001/
XMLSchema#boolean">false</oslc:readOnly>
      </oslc:Property>
    </oslc:property>
    <oslc:property>
      <oslc:Property>
        <oslc:name>created</oslc:name>
        <oslc:valueType rdf:resource="http://www.w3.org:80/2001/
XMLSchema#dateTime"/>
        <oslc:occurs rdf:resource="http://open-services.net:80/

```

```

ns/core#Exactly-one"/>
  <oslc:propertyDefinition rdf:resource="http://purl.org/80/
dc/terms/created"/>
  <oslc:readOnly rdf:resource="http://www.w3.org/2001/
XMLSchema#boolean">false</oslc:readOnly>
</oslc:Property>
</oslc:property>

***** TRUNCATED *****

<oslc:property>
<oslc:Property>
  <oslc:name>oldRow</oslc:name>
  <oslc:valueType rdf:resource="http://www.w3.org/80/2001/
XMLSchema#integer"/>
  <oslc:occurs rdf:resource="http://open-services.net:80/ns/
core#Exactly-one"/>
  <oslc:propertyDefinition rdf:resource="http://tivoli-OSLC-prototype:80/ns/
oslcem/1.0/#oldRow"/>
  <oslc:readOnly rdf:resource="http://www.w3.org/2001/
XMLSchema#boolean">false</oslc:readOnly>
</oslc:Property>
</oslc:property>
</oslc:ResourceShape>
</rdf:RDF>

```

Example: Event creation factory POST request

```

POST /objectserver/oslc/factory/event HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Content-Type: application/rdf+xml
Host: localhost
Connection: keep-alive
Content-Length: 1570

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
    <dcterms:identifier>JUnitEventTestInstance@@@0</dcterms:identifier>
    <dcterms:created>2012-07-04T15:28:11</dcterms:created>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/501"/>
    <oslcem:severity>5</oslcem:severity>
    <oslcem:summary>This is a test event generated by the JUnit OSLC Event Tests.
    (0)</oslcem:summary>
    <oslcem:node>localhost</oslcem:node>
    <oslcem:agent>createEventNew()</oslcem:agent>
    <oslcem:lastOccurrence>2012-07-04T15:28:11</oslcem:lastOccurrence>
    <oslcem:acknowledged>false</oslcem:acknowledged>
    <oslcem:alertKey>JUnitEventInstance</oslcem:alertKey>
    <oslcem:manager>ResourceEvent</oslcem:manager>
    <oslcem:type>1</oslcem:type>
    <oslcem:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/0"/>
    <oslcemm:location>NOT UPDATED</oslcemm:location>
    <oslcemm:url rdf:resource="http://localhost/objectserver/restapi/alerts/status"/>
  </rdf:Description>
</rdf:RDF>

```

Example: Event creation factory POST response

```
HTTP/1.1 201 Created
Location: http://localhost/objectserver/oslc/event/12581%3ANCOMS
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:31:53 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 818

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/event/
12581%3ANCOMS">
    <rdf:type rdf:resource="http://open-services.net/ns/
core#ResponseInfo"/>
    <oslc:id>12581%3ANCOMS</oslc:id>
  </rdf:Description>
</rdf:RDF>
```

Example: Event query capability GET request

```
GET /objectserver/oslc/query/events HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Event query capability GET response

The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 39777

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/events">
    <dcterms:title>Event Service Query Results</dcterms:title>
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
```

```

/12581%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12582%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12583%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12584%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12585%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12586%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12587%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12588%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12589%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12590%3ANCOMS"/>
</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/event
/12581%3ANCOMS">
<rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
<dcterms:identifier>JUnitEventTestInstance@@@@@</dcterms:identifier>
<dcterms:created>2012-07-04T16:28:11</dcterms:created>
<oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/501"/>
<oslcem:severity>5</oslcem:severity>
<oslcem:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</oslcem:summary>
<oslcem:node>localhost</oslcem:node>

***** TRUNCATED *****

<oslcem:oldRow>0</oslcem:oldRow>
</rdf:Description>
</rdf:RDF>

```

Fix Pack 2

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 39777

```

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
<oslc:ResponseInfo rdf:about="http://localhost/objectserver/oslc/query/events">
  <dcterms:title>Event Service Query Results</dcterms:title>
</oslc:ResponseInfo>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/query/events">
<rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Collection"/>
<rdfs:member rdf:resource="http://localhost/objectserver/oslc/

```

```

event/12581%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12582%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12583%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12584%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12585%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12586%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12587%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12588%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12589%3ANCOMS"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/
event/12590%3ANCOMS"/>
</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/
event/12581%3ANCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <dcterms:identifier>JUnitEventTestInstance@@@@0</dcterms:identifier>
  <dcterms:created>2012-07-04T16:28:11</dcterms:created>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/501"/>
  <oslcem:severity>5</oslcem:severity>
  <oslcem:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</oslcem:summary>
  <oslcem:node>localhost</oslcem:node>

***** TRUNCATED *****

<oslcem:oldRow>0</oslcem:oldRow>
</rdf:Description>
</rdf:RDF>
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 39777

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <oslc:ResponseInfo rdf:about="http://localhost/objectserver/oslc/query/events">
    <dcterms:title>Event Service Query Results</dcterms:title>
  </oslc:ResponseInfo>

  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/events">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Collection"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
12581%3ANCOMS"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event/
12582%3ANCOMS"/>

```

```

        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12583%3ANCOMS"/>
        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12584%3ANCOMS"/>
        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12585%3ANCOMS"/>
        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12586%3ANCOMS"/>
        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12587%3ANCOMS"/>
        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12588%3ANCOMS"/>
        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12589%3ANCOMS"/>
        <rdfs:member rdf:resource="http://localhost/objectserver/oslc/event
/12590%3ANCOMS"/>
    </rdf:Description>

    <rdf:Description rdf:about="http://localhost/objectserver/oslc/event
/12581%3ANCOMS">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
    <dcterms:identifier>JUnitEventTestInstance@@@0</dcterms:identifier>
    <dcterms:created>2012-07-04T16:28:11</dcterms:created>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/501"/>
    <oslcem:severity>5</oslcem:severity>
    <oslcem:summary>This is a test event generated by the JUnit OSLC Event Tests.
(0)</oslcem:summary>
    <oslcem:node>localhost</oslcem:node>

    ***** TRUNCATED *****

    <oslcem:oldRow>0</oslcem:oldRow>
    </rdf:Description>
</rdf:RDF>

```

Example: Event resource GET request

```

GET /objectserver/oslc/event/12589%3ANCOMS HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive

```

Example: Event resource GET response

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 4355

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/event/

```



```

12589%3ANCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <dcterms:identifier>JUnitEventTestInstance@@@8</dcterms:identifier>
  <dcterms:created>2012-07-04T16:28:11</dcterms:created>
  <oslcm:ownerUID rdf:resource="http://localhost/objectserver/oslcm/user/501"/>
  <oslcm:severity>5</oslcm:severity>
  <oslcm:summary>This is a test event generated by the JUnit
OSLC Event Tests. (8)</oslcm:summary>
  <oslcm:node>localhost</oslcm:node>
  <oslcm:agent>createEventNew()</oslcm:agent>
  <oslcm:alertGroup></oslcm:alertGroup>
  <oslcm:lastOccurrence>2012-07-04T16:28:11</oslcm:lastOccurrence>
  <oslcm:tally>1</oslcm:tally>
  <oslcm:acknowledged>false</oslcm:acknowledged>
  <oslcm:serial>12589</oslcm:serial>
  <oslcm:serverSerial>12589</oslcm:serverSerial>
  <oslcm:serverName>NCOMS</oslcm:serverName>
  <oslcm:alertKey>JUnitEventInstance</oslcm:alertKey>
  <oslcm:manager>ResourceEvent</oslcm:manager>
  <oslcm:stateChange>2012-07-04T15:31:59</oslcm:stateChange>
  <oslcm:internalLast>2012-07-04T15:31:59</oslcm:internalLast>
  <oslcm:type>1</oslcm:type>
  <oslcm:class>0</oslcm:class>
  <oslcm:grade>0</oslcm:grade>
  <oslcm:ownerGID rdf:resource="http://localhost/objectserver/oslcm/group/0"/>
  <oslcm:taskList>0</oslcm:taskList>
  <oslcm:suppressEsc1>0</oslcm:suppressEsc1>
  <oslcm:flash>0</oslcm:flash>
  <oslcm:expireTime>0</oslcm:expireTime>
  <oslcm:customer></oslcm:customer>
  <oslcm:service></oslcm:service>
  <oslcm:probeSubSecondId>0</oslcm:probeSubSecondId>
  <oslcm:journal rdf:resource="http://localhost/objectserver/oslcm/query/
journals?oslcm.where=oslcm%3Aevent%7Boslcm%3AserverSerial%3D12589%20and
%20oslcm%3AserverName%3D%22NCOMS%22%7D&amp;oslcm.
orderBy=dcterms%3Acreated"/>
  <oslcm:detail rdf:resource="http://localhost/objectserver/oslcm/query/
details?oslcm.where=oslcm%3Aevent%7Boslcm%3AserverSerial%3D12589%20and
%20oslcm%3AserverName%3D%22NCOMS%22%7D&amp;oslcm.
orderBy=oslcm%3Asequence"/>

***** TRUNCATED *****

  <oslcm:url rdf:resource="http://localhost/objectserver/restapi/alerts/
status"/>
  <oslcm:extendedAttr></oslcm:extendedAttr>
  <oslcm:oldRow>0</oslcm:oldRow>
</rdf:Description>
</rdf:RDF>

```

Example: Event resource PATCH request

```

PATCH /objectserver/oslcm/event/12621%3ANCOMS HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Content-Type: application/rdf+xml
Host: localhost
Connection: keep-alive
Content-Length: 1092

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcm="http://open-services.net/ns/core#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcm="http://jazz.net/ns/ism/event/omnibus/misc#"

```



```

    xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itm#"
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
<rdf:Description rdf:about="http://localhost/objectserver/oslc/event/
12621%3ANCOMS">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Event"/>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/
65534"/>
  <oslcem:lastOccurrence>2012-07-04T15:33:27</oslcem:lastOccurrence>
  <oslcem:acknowledged>true</oslcem:acknowledged>
  <oslcem:ownerGID rdf:resource="http://localhost/objectserver/oslc/group/1"/>
  <oslcemm:location>UPDATED</oslcemm:location>
</rdf:Description>
</rdf:RDF>

```

Example: Event resource PATCH response

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/event/
12621%3ANCOMS">
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <oslc:id>12621:NCOMS</oslc:id>
  </rdf:Description>
</rdf:RDF>

```

Example: Event resource DELETE request

```

DELETE /objectserver/oslc/event/12621%3ANCOMS HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive

```

Example: Event resource DELETE response

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:38:53 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"

```

```

xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itm#"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
<rdf:Description rdf:about="http://localhost/objectserver/oslc/event/
12621%3ANCOMS">
<rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
<oslc:id>12621:NCOMS</oslc:id>
</rdf:Description>
</rdf:RDF>

```

Example: Journal creation factory POST request

```

POST /objectserver/oslc/factory/journal HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Content-Type: application/rdf+xml
Host: localhost
Connection: keep-alive
Content-Length: 817

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itm#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
<rdf:Description rdf:about="http://localhost/">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
  <dcterms:created>2012-07-04T15:34:44</dcterms:created>
  <dcterms:content>This is a test journal generated by the JUnit OSLC Journal Tests.
</dcterms:content>
  <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event/
12661%3A0%3A1341416084"/>
</rdf:Description>
</rdf:RDF>

```

Example: Journal creation factory POST response

```

HTTP/1.1 201 Created
Location: http://localhost/objectserver/oslc/journal/
12661%3A0%3A1341416084
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:31:53 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 818

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
<rdf:Description rdf:about="http://localhost/objectserver/oslc/journal/
12661%3A0%3A1341416084">
  <rdf:type rdf:resource="http://open-services.net/ns/

```

```
core#ResponseInfo"/>
<oslc:id>12661:0:1341416084</oslc:id>
</rdf:Description>
</rdf:RDF>
```

Example: Journal query capability GET request

```
GET /objectserver/oslc/query/journals HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Journal query capability GET response

The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 8761
```

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/
journals">
    <dcterms:title>Journal Service Query Results</dcterms:title>
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12680%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12679%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12675%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12676%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12677%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12678%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12671%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12672%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12673%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
/12674%3A0%3A1341416084"/>
  </rdf:Description>

  <rdf:Description rdf:about="http://localhost/objectserver/oslc/journal
/12680%3A0%3A1341416084">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
    <dcterms:identifier>12680:0:1341416084</dcterms:identifier>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
    <dcterms:created>2012-07-04T16:34:44</dcterms:created>
```

```

    <dcterms:content>This is a test journal generated by the JUnit
    OSLC Journal Tests.</dcterms:content>
    <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event/
    12680%3A0%3A1341416084"/>
  </rdf:Description>

```

***** TRUNCATED *****

```

  <rdf:Description rdf:about="http://localhost/objectserver/oslc/journal
  /12674%3A0%3A1341416084">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
    <dcterms:identifier>12674:0:1341416084</dcterms:identifier>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
    <dcterms:created>2012-07-04T16:34:44</dcterms:created>
    <dcterms:content>This is a test journal generated by the JUnit
    OSLC Journal Tests.</dcterms:content>
    <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event
    /12674%3A0%3A1341416084"/>
  </rdf:Description>
</rdf:RDF>

```

Fix Pack 2

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 8761

```

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <oslc:ResponseInfo rdf:about="http://localhost/objectserver/oslc/query/journals">
    <dcterms:title>Journal Service Query Results</dcterms:title>
  </oslc:ResponseInfo>

  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/journals">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Collection"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12680%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12679%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12675%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12676%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12677%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12678%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12671%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12672%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12673%3A0%3A1341416084"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/journal
    /12674%3A0%3A1341416084"/>
  </rdf:Description>

```

```

<rdf:Description rdf:about="http://localhost/objectserver/oslc/journal/12680%3A0%3A1341416084">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
  <dcterms:identifier>12680:0:1341416084</dcterms:identifier>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
  <dcterms:created>2012-07-04T16:34:44</dcterms:created>
  <dcterms:content>This is a test journal generated by the JUnit OSLC
Journal Tests.</dcterms:content>
  <oslcem:event rdf:resource="http://localhost/objectserver/oslc/
event/12680%3ANCOMS"/>
</rdf:Description>

```

***** TRUNCATED *****

```

<rdf:Description rdf:about="http://localhost/objectserver/oslc/journal/12674%3A0%3A1341416084">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
  <dcterms:identifier>12674:0:1341416084</dcterms:identifier>
  <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
  <dcterms:created>2012-07-04T16:34:44</dcterms:created>
  <dcterms:content>This is a test journal generated by the JUnit OSLC
Journal Tests.</dcterms:content>
  <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event/12674%3ANCOMS"/>
</rdf:Description>
</rdf:RDF>

```

Example: Journal resource GET request

```

GET /objectserver/oslc/journal/12674%3A0%3A1341416084 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive

```

Example: Journal resource GET response

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul  4 15:35:22 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 1242

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/journal/12674%3A0%3A1341416084">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
    <dcterms:identifier>12674:0:1341416084</dcterms:identifier>
    <oslcem:ownerUID rdf:resource="http://localhost/objectserver/oslc/user/0"/>
    <dcterms:created>2012-07-04T16:34:44</dcterms:created>
    <dcterms:content>This is a test journal generated by the JUnit OSLC
Journal Tests.</dcterms:content>
  
```

```

        <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event/
12674%3ANCOMS"/>
    </rdf:Description>
</rdf:RDF>

```

Example: Journal resource PATCH request

```

PATCH /objectserver/oslc/journal/12681%3A0%3A1341416084 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Content-Type: application/rdf+xml
Host: localhost
Connection: keep-alive
Content-Length: 677

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/journal/
12681%3A0%3A1341416084">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Journal"/>
    <dcterms:content>This is a test journal generated by the JUnit OSLC Journal Tests.
    ***** UPDATED JOURNAL ENTRY *****</dcterms:content>
  </rdf:Description>
</rdf:RDF>

```

Example: Journal resource PATCH response

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/journal/
12681%3A0%3A1341416084">
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <oslc:id>12681:0:1341416084</oslc:id>
  </rdf:Description>
</rdf:RDF>

```

Example: Journal resource DELETE request

```
DELETE /objectserver/oslc/journal/12681%3A0%3A1341416084 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Journal resource DELETE response

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/journal/
12681%3A0%3A1341416084">
    <rdf:type rdf:resource="http://open-services.net/ns/core#
ResponseInfo"/>
    <oslc:id>12681:0:1341416084</oslc:id>
  </rdf:Description>
</rdf:RDF>
```

Example: Detail creation factory POST request

```
POST /objectserver/oslc/factory/detail HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Content-Type: application/rdf+xml
Host: localhost
Connection: keep-alive
Content-Length: 771

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <oslcem:attrValue>0</oslcem:attrValue>
    <oslcem:sequence>0</oslcem:sequence>
    <oslcem:detailName>EventDetail0</oslcem:detailName>
    <oslcem:detailValue>This is a test detail generated by the JUnit OSLC
Detail Tests.</oslcem:detailValue>
    <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event/
12711%3ANCOMS"/>
  </rdf:Description>
</rdf:RDF>
```

Example: Details creation factory POST response

```
HTTP/1.1 201 Created
Location: http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%400%23%23%23%230
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul  4 15:31:53 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 818

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%400%23%23%23%230">
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <oslc:id>JUnitEventTestInstance@@@@###0</oslc:id>
  </rdf:Description>
</rdf:RDF>
```

Example: Detail query capability GET request

```
GET /objectserver/oslc/query/details HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Detail query capability GET response

The samples that are shown here differ depending on whether you have the base GA version of the product or applied fix pack 2.

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul  4 16:32:16 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 8761

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/
details">
    <dcterms:title>Detail Service Query Results</dcterms:title>
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%404%23%23%23%234"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%408%23%23%23%238"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%402%23%23%23%232"/>
  </rdf:Description>
</rdf:RDF>
```



```

    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%406%23%23%23%236"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%400%23%23%23%230"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%405%23%23%23%235"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%409%23%23%23%239"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%403%23%23%23%233"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%407%23%23%23%237"/>
    <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%401%23%23%23%231"/>
  </rdf:Description>

  <rdf:Description rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%404%23%23%23%234">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <dcterms:identifier>JUnitEventTestInstance@@@4###4</dcterms:identifier>
    <oslcem:attrValue>4</oslcem:attrValue>
    <oslcem:sequence>4</oslcem:sequence>
    <oslcem:detailName>EventDetail4</oslcem:detailName>
    <oslcem:detailValue>This is a test detail generated by the JUnit
OSLC Detail Tests.</oslcem:detailValue>
    <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event/
12725%3ANCOMS"/>
  </rdf:Description>

```

***** TRUNCATED *****

```

  <rdf:Description rdf:about="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%401%23%23%23%231">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <dcterms:identifier>JUnitEventTestInstance@@@1###1</dcterms:identifier>
    <oslcem:attrValue>1</oslcem:attrValue>
    <oslcem:sequence>1</oslcem:sequence>
    <oslcem:detailName>EventDetail1</oslcem:detailName>
    <oslcem:detailValue>This is a test detail generated by the JUnit
OSLC Detail Tests.</oslcem:detailValue>
    <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event
/12722%3ANCOMS"/>
  </rdf:Description></rdf:RDF>

```

Fix Pack 2

```

HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libhttpd
Date: Wed Jul 4 16:32:16 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 8761

```

```

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <oslc:ResponseInfo rdf:about="http://localhost/objectserver/oslc/query/details">
    <dcterms:title>Detail Service Query Results</dcterms:title>
  </oslc:ResponseInfo>

  <rdf:Description rdf:about="http://localhost/objectserver/oslc/query/details">

```

```

<rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Collection"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%404%23%23%23%234"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%408%23%23%23%238"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%402%23%23%23%232"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%406%23%23%23%236"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%400%23%23%23%230"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%405%23%23%23%235"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%409%23%23%23%239"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%403%23%23%23%233"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%407%23%23%23%237"/>
  <rdfs:member rdf:resource="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%401%23%23%23%231"/>
</rdf:Description>

<rdf:Description rdf:about="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%404%23%23%23%234">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
  <dcterms:identifier>JUnitEventTestInstance@@@4###4</dcterms:identifier>
  <oslcem:attrValue>4</oslcem:attrValue>
  <oslcem:sequence>4</oslcem:sequence>
  <oslcem:detailName>EventDetail4</oslcem:detailName>
  <oslcem:detailValue>This is a test detail generated by the JUnit
OSLC Detail Tests.</oslcem:detailValue>
  <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event
/12725%3ANCOMS"/>
</rdf:Description>

***** TRUNCATED *****

<rdf:Description rdf:about="http://localhost/objectserver/oslc/detail
/JUnitEventTestInstance%40%40%40%401%23%23%23%231">
  <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
  <dcterms:identifier>JUnitEventTestInstance@@@1###1</dcterms:identifier>
  <oslcem:attrValue>1</oslcem:attrValue>
  <oslcem:sequence>1</oslcem:sequence>
  <oslcem:detailName>EventDetail1</oslcem:detailName>
  <oslcem:detailValue>This is a test detail generated by the JUnit
OSLC Detail Tests.</oslcem:detailValue>
  <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event
/12722%3ANCOMS"/>
</rdf:Description></rdf:RDF>

```

Example: Detail resource GET request

```

GET /objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%400%23%23%23%230 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive

```

Example: Detail resource GET response

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul  4 16:25:12 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 1240

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%400%23%23%23%230">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <dcterms:identifier>JUnitEventTestInstance@@@@###0
  </dcterms:identifier>
    <oslcem:attrValue>0</oslcem:attrValue>
    <oslcem:sequence>0</oslcem:sequence>
    <oslcem:detailName>EventDetail0</oslcem:detailName>
    <oslcem:detailValue>This is a test detail generated by the JUnit OSLC
Detail Tests.</oslcem:detailValue>
    <oslcem:event rdf:resource="http://localhost/objectserver/oslc/event/
12721%3ANCOMS"/>
  </rdf:Description>
</rdf:RDF>
```

Example: Detail resource PATCH request

```
PATCH /objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%400%23%23%23%230 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Content-Type: application/rdf+xml
Host: localhost
Connection: keep-alive
Content-Length: 694

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%400%23%23%23%230">
    <rdf:type rdf:resource="http://jazz.net/ns/ism/event/omnibus#Detail"/>
    <oslcem:detailValue>This is a test detail generated by the JUnit
OSLC Detail Tests. ***** UPDATED DETAIL ENTRY *****
  </oslcem:detailValue>
  </rdf:Description>
</rdf:RDF>
```

Example: Detail resource PATCH response

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%40%23%23%23%230">
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <oslc:id>JUnitEventTestInstance@@@@###0</oslc:id>
  </rdf:Description>
</rdf:RDF>
```

Example: Detail resource DELETE request

```
DELETE /objectserver/oslc/detail/JUnitEventTestInstance
%40%40%40%40%23%23%23%230 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Detail resource DELETE response

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 15:32:03 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#"
  xmlns:oslcemb="http://jazz.net/ns/ism/event/omnibus/tbsm#"
  xmlns:oslcemm="http://jazz.net/ns/ism/event/omnibus/misc#"
  xmlns:oslcemp="http://jazz.net/ns/ism/event/omnibus/itnm#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <rdf:Description rdf:about="http://localhost/objectserver/oslc/detail/
JUnitEventTestInstance%40%40%40%40%23%23%23%230">
    <rdf:type rdf:resource="http://open-services.net/ns/core#ResponseInfo"/>
    <oslc:id>JUnitEventTestInstance@@@@###0</oslc:id>
  </rdf:Description>
</rdf:RDF>
```

Example: Person resource GET request

```
GET /objectserver/oslc/user/500 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Person resource GET response

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 16:12:42 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <foaf:Person rdf:about="http://localhost/objectserver/oslc/user/500">
    <foaf:name>Test User 01</foaf:name>
    <oslcem:userName>testuser01</oslcem:userName>
    <oslcem:userId>500</oslcem:userId>
  </foaf:Person>
</rdf:RDF>
```

Example: Group resource GET request

```
GET /objectserver/oslc/group/1 HTTP/1.1
Accept: application/rdf+xml
Authorization: Basic dGVzdHVzZXIwMTpuZXRjb29s
Host: localhost
Connection: keep-alive
```

Example: Group resource GET response

```
HTTP/1.1 200 OK
Cache-Control: no-cache
Server: libnhttpd
Date: Wed Jul 4 17:14:08 2012
Connection: Keep-Alive
Content-Type: application/rdf+xml
Content-Length: 814

<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:oslc="http://open-services.net/ns/core#"
  xmlns:dcterms="http://purl.org/dc/terms/"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:crtv="http://open-services.net/ns/crtv#"
  xmlns:oslcem="http://jazz.net/ns/ism/event/omnibus#">
  <foaf:Group rdf:about="http://localhost/objectserver/oslc/group/1">
    <foaf:name>System</foaf:name>
    <oslcem:description>System Group</oslcem:description>
    <oslcem:groupId>1</oslcem:groupId>
  </foaf:Group>
</rdf:RDF>
```

JSON configuration file with MIME type settings and HTTP headers

Fix Pack 2

This example shows a `$OMNIHOME/etc/libnhttpd/json` configuration file, which is edited to define MIME type settings and HTTP headers in HTTP responses that are returned by the HTTP interface and OSLC interface. To enable MIME type settings and HTTP headers, enable the **NHttpd.ConfigFile** property.

The sections that enable MIME type settings and HTTP headers are as follows:

httpResponse

Defines the HTTP headers that are in the HTTP responses that are returned by the HTTP interface and OSLC interface. It has the following subsections:

corsHeaders

Overrides Cross-Origin Resource Sharing (CORS) HTTP headers. By default, the default headers are overridden to indicate that the **Location** HTTP header are be allowed and exposed. This setting is required for HTTP 201 Create responses messages.

httpHeaders

For user-defined HTTP headers. These headers are added to all HTTP responses. Use this section to add static values for clients. A sample header is provided in the example.

mimeTypes

This section assigns a file extension, for example `.html`, to a MIME type. When file-serving is enabled, these definitions are used to determine the MIME type for the file. They also set the Content-Type HTTP header so that browsers can handle the file correctly. The `$OMNIHOME/etc/libnhttpd/json` file has a default set of MIME type settings that you can add to.

Example

```
{
  "_comment" : "This file provides additional configuration data to the embedded HTTP
socket library (libnhttpd).",
  "httpResponse" : {
    "_comment" : "This section defines a set of user defined static elements that
should be returned in an HTTP response, such as HTTP headers.",
    "corsHeaders" : [
      {
        "name" : "Access-Control-Allow-Headers",
        "value" : "Location"
      },
      {
        "name" : "Access-Control-Expose-Headers",
        "value" : "Location"
      }
    ],
    "httpHeaders" : [
    ]
  },
  "mimeTypes" : {
    "_comment" : "This section maps MIME types to file extensions. It is used by
libnhttpd to determine the MIME type for a file that is to be served from
its file serving URI.",
    "application/json" : [
      "json"
    ],
  },
}
```

```

"application/rdf+xml" : [
  "rdf"
],
"application/xslt+xml" : [
  "xsl", "xslt"
],
"image/jpeg" : [
  "jpg", "jpeg"
],
"image/gif" : [
  "gif"
],
"image/png" : [
  "png"
],
"text/css" : [
  "css"
],
"text/javascript" : [
  "js"
],
"text/HTML" : [
  "htm", "html"
],
"text/plain" : [
  "txt", "log"
],
"text/xml" : [
  "xml"
]
}

```

Appendix E. Resource shape configuration file

The default resource shape definition configuration file.

```
{
  "event" :
  [
    {
      "nsprefix" : "dcterms",
      "nsuri" : "http://purl.org/dc/terms/",
      "types" : [
        {
          "os" : "Identifier",
          "oslc" : "identifier",
          "type" : "string",
          "systemColumn" : "false"
        },
        {
          "os" : "FirstOccurrence",
          "oslc" : "created",
          "type" : "dateTime",
          "systemColumn" : "false"
        },
        {
          "os" : "OwnerUID",
          "oslc" : "creator",
          "type" : "ResourceUID",
          "systemColumn" : "false"
        }
      ]
    },
    {
      "nsprefix" : "crtv",
      "nsuri" : "http://open-services.net/ns/crtv#",
      "types" : [
        {
          "os" : "Severity",
          "oslc" : "severity",
          "type" : "integer",
          "systemColumn" : "false"
        },
        {
          "os" : "Summary",
          "oslc" : "summary",
          "type" : "string",
          "systemColumn" : "false"
        },
        {
          "os" : "Node",
          "oslc" : "node",
          "type" : "string",
          "systemColumn" : "false"
        },
        {
          "os" : "Agent",
          "oslc" : "agent",
          "type" : "string",
          "systemColumn" : "false"
        },
        {
          "os" : "AlertGroup",
          "oslc" : "alertGroup",
          "type" : "string",

```

```

        "systemColumn" : "false"
      },
      {
        "os" : "LastOccurrence",
        "oslc" : "lastOccurrence",
        "type" : "dateTime",
        "systemColumn" : "false"
      },
      {
        "os" : "Tally",
        "oslc" : "tally",
        "type" : "integer",
        "systemColumn" : "false"
      },
      {
        "os" : "Acknowledged",
        "oslc" : "acknowledged",
        "type" : "boolean",
        "systemColumn" : "false"
      }
    ]
  },
  {
    "nsprefix" : "oslcm",
    "nsuri" : "http://jazz.net/ns/ism/event/omnibus#",
    "types" : [
      {
        "os" : "Serial",
        "oslc" : "serial",
        "type" : "integer",
        "systemColumn" : "true"
      },
      {
        "os" : "ServerSerial",
        "oslc" : "serverSerial",
        "type" : "integer",
        "systemColumn" : "true"
      },
      {
        "os" : "ServerName",
        "oslc" : "serverName",
        "type" : "string",
        "systemColumn" : "true"
      },
      {
        "os" : "AlertKey",
        "oslc" : "alertKey",
        "type" : "string",
        "systemColumn" : "false"
      },
      {
        "os" : "Manager",
        "oslc" : "manager",
        "type" : "string",
        "systemColumn" : "false"
      },
      {
        "os" : "StateChange",
        "oslc" : "stateChange",
        "type" : "dateTime",
        "systemColumn" : "false"
      },
      {
        "os" : "InternalLast",
        "oslc" : "internalLast",
        "type" : "dateTime",
        "systemColumn" : "false"
      }
    ]
  }
}

```

```

    },
    {
      "os" : "Type",
      "oslc" : "type",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "Class",
      "oslc" : "class",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "Grade",
      "oslc" : "grade",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "OwnerGID",
      "oslc" : "ownerGID",
      "type" : "ResourceGID",
      "systemColumn" : "false"
    },
    {
      "os" : "TaskList",
      "oslc" : "taskList",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "SuppressEscl",
      "oslc" : "suppressEscl",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "Flash",
      "oslc" : "flash",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "ExpireTime",
      "oslc" : "expireTime",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "Customer",
      "oslc" : "customer",
      "type" : "string",
      "systemColumn" : "false"
    },
    {
      "os" : "Service",
      "oslc" : "service",
      "type" : "string",
      "systemColumn" : "false"
    },
    {
      "os" : "ProbeSubSecondId",
      "oslc" : "probeSubSecondId",
      "type" : "integer",
      "systemColumn" : "false"
    },
  },

```

```

        {
            "os" : "",
            "oslc" : "journal",
            "type" : "ResourceJournal",
            "systemColumn" : "true"
        },
        {
            "os" : "",
            "oslc" : "detail",
            "type" : "ResourceDetail",
            "systemColumn" : "true"
        }
    ]
},
{
    "nsprefix" : "oslccmp",
    "nsuri" : "http://jazz.net/ns/ism/event/omnibus/itnm#",
    "types" : [
        {
            "os" : "EventId",
            "oslc" : "eventId",
            "type" : "string",
            "systemColumn" : "false"
        },
        {
            "os" : "ProcessReq",
            "oslc" : "processReq",
            "type" : "integer",
            "systemColumn" : "false"
        },
        {
            "os" : "NmosSerial",
            "oslc" : "nmosSerial",
            "type" : "string",
            "systemColumn" : "false"
        },
        {
            "os" : "NmosObjInst",
            "oslc" : "nmosObjInst",
            "type" : "integer",
            "systemColumn" : "false"
        },
        {
            "os" : "NmosCauseType",
            "oslc" : "nmosCauseType",
            "type" : "integer",
            "systemColumn" : "false"
        },
        {
            "os" : "NmosDomainName",
            "oslc" : "nmosDomainName",
            "type" : "string",
            "systemColumn" : "false"
        },
        {
            "os" : "NmosEntityId",
            "oslc" : "nmosEntityId",
            "type" : "integer",
            "systemColumn" : "false"
        },
        {
            "os" : "NmosManagedStatus",
            "oslc" : "nmosManagedStatus",
            "type" : "integer",
            "systemColumn" : "false"
        }
    ],
    {

```

```

        "os" : "NmosEventMap",
        "oslc" : "nmosEventMap",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "LocalNodeAlias",
        "oslc" : "localNodeAlias",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "LocalPriObj",
        "oslc" : "localPriObj",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "LocalSecObj",
        "oslc" : "localSecObj",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "LocalRootObj",
        "oslc" : "localRootObj",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "RemoteNodeAlias",
        "oslc" : "remoteNodeAlias",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "RemotePriObj",
        "oslc" : "remotePriObj",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "RemoteSecObj",
        "oslc" : "remoteSecObj",
        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "RemoteRootObj",
        "oslc" : "remoteRootObj",
        "type" : "string",
        "systemColumn" : "false"
    }
]
},
{
    "nsprefix" : "oslcemb",
    "nsuri" : "http://jazz.net/ns/ism/event/omnibus/tbsm#",
    "types" : [
        {
            "os" : "BSM_Identity",
            "oslc" : "bsmIdentity",
            "type" : "string",
            "systemColumn" : "false"
        }
    ]
}
},

```

```

{
  "nsprefix" : "oslcemm",
  "nsuri" : "http://jazz.net/ns/ism/event/omnibus/misc#",
  "types" : [
    {
      "os" : "Poll",
      "oslc" : "poll",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "Location",
      "oslc" : "location",
      "type" : "string",
      "systemColumn" : "false"
    },
    {
      "os" : "PhysicalSlot",
      "oslc" : "physicalSlot",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "PhysicalPort",
      "oslc" : "physicalPort",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "PhysicalCard",
      "oslc" : "physicalCard",
      "type" : "string",
      "systemColumn" : "false"
    },
    {
      "os" : "X733EventType",
      "oslc" : "x733EventType",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "X733ProbableCause",
      "oslc" : "x733ProbableCause",
      "type" : "integer",
      "systemColumn" : "false"
    },
    {
      "os" : "X733SpecificProb",
      "oslc" : "x733SpecificProb",
      "type" : "string",
      "systemColumn" : "false"
    },
    {
      "os" : "X733CorrNotif",
      "oslc" : "x733CorrNotif",
      "type" : "string",
      "systemColumn" : "false"
    },
    {
      "os" : "URL",
      "oslc" : "url",
      "type" : "Resource",
      "systemColumn" : "false"
    },
    {
      "os" : "ExtendedAttr",
      "oslc" : "extendedAttr",

```

```

        "type" : "string",
        "systemColumn" : "false"
    },
    {
        "os" : "OldRow",
        "oslc" : "oldRow",
        "type" : "integer",
        "systemColumn" : "false"
    }
]
},
"journal" :
[
    {
        "nsprefix" : "dcterms",
        "nsuri" : "http://purl.org/dc/terms/",
        "types" : [
            {
                "os" : "KeyField",
                "oslc" : "identifier",
                "type" : "string",
                "systemColumn" : "true"
            },
            {
                "os" : "UID",
                "oslc" : "creator",
                "type" : "ResourceUID",
                "systemColumn" : "false"
            },
            {
                "os" : "Chrono",
                "oslc" : "created",
                "type" : "dateTime",
                "systemColumn" : "false"
            },
            {
                "os" : "Text",
                "oslc" : "content",
                "type" : "journal",
                "systemColumn" : "false"
            }
        ]
    },
    {
        "nsprefix" : "oslcem",
        "nsuri" : "http://jazz.net/ns/ism/event/omnibus#",
        "types" : [
            {
                "os" : "Serial",
                "oslc" : "event",
                "type" : "ResourceEvent",
                "systemColumn" : "false"
            }
        ]
    }
],
"detail" :
[
    {
        "nsprefix" : "dcterms",
        "nsuri" : "http://purl.org/dc/terms/",
        "types" : [
            {
                "os" : "KeyField",
                "oslc" : "identifier",
                "type" : "string",

```

```

        "systemColumn" : "true"
    }
    ],
    },
    {
        "nsprefix" : "oslcem",
        "nsuri" : "http://jazz.net/ns/ism/event/omnibus#",
        "types" : [
            {
                "os" : "AttrVal",
                "oslc" : "attrValue",
                "type" : "integer",
                "systemColumn" : "false"
            },
            {
                "os" : "Sequence",
                "oslc" : "sequence",
                "type" : "integer",
                "systemColumn" : "false"
            },
            {
                "os" : "Name",
                "oslc" : "name",
                "type" : "string",
                "systemColumn" : "false"
            },
            {
                "os" : "Detail",
                "oslc" : "detail",
                "type" : "string",
                "systemColumn" : "false"
            },
            {
                "os" : "Identifier",
                "oslc" : "event",
                "type" : "ResourceEvent",
                "systemColumn" : "false"
            }
        ]
    }
]
}

```

Appendix F. List of abbreviations

The API documentation for the ObjectServer HTTP interface and the ObjectServer OSLC interface use the following abbreviations and terms.

HTTP Hyper Text Transfer Protocol. HTTP version 1.1 is defined in RFC2616. Unless otherwise noted, the term HTTP is used in this document to mean both HTTP and HTTPS.

HTTPS Hyper Text Transfer Protocol Secure, as defined in RFC2818.

JazzSM Jazz for Service Management, which is available from <https://www.ibm.com/developerworks/mydeveloperworks/groups/service/html/communityview?communityUuid=69ec672c-dd6b-443d-add8-bb9a9a490eba>.

JSON JavaScript Object Notation, as defined in ECMA-262.

MIME Multipurpose Internet Mail Extensions. MIME media types are defined in *IANA MIME Media Types*.

OSLC Open Services for Lifecycle Collaboration, as defined at <http://open-services.net>.

REST Representational State Transfer, as originally and informally described in *Architectural Styles and the Design of Network-based Software Architectures*.

URI Uniform Resource Identifier, as defined in RFC3986.

XML eXtensible Markup Language, as defined by W3C.

Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan, Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
958/NH04
IBM Centre, St Leonards
601 Pacific Hwy
St Leonards, NSW, 2069
Australia

IBM Corporation
896471/H128B
76 Upper Ground
London SE1 9PZ
United Kingdom

IBM Corporation
JBF1/SOM1
294 Route 100
Somers, NY, 10589-0100
United States of America

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the

names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs.

Portions of this product include software developed by Daniel Veillard.

- libxml2-2.7.8

The libxml2-2.7.8 software is distributed according to the following license agreement:

© Copyright 1998-2003 Daniel Veillard.

All Rights Reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Daniel Veillard shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Trademarks

AIX, IBM, the IBM logo, ibm.com®, Informix, Netcool, System z, Tivoli®, and Tivoli Enterprise Console® are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both.

Adobe, Acrobat, Portable Document Format (PDF), PostScript, and all Adobe-based trademarks are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, other countries, or both.



Java[™] and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, or service names may be trademarks or service marks of others.



Printed in the Republic of Ireland

SC27-5613-01

