

# CA Process Automation

## UCF-USM Connector Guide

Version 1.0.00



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# Chapter 1: Overview

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The CA Process Automation UCF-USM Connector allows Unified Connector Framework (UCF) Connectors to be used in automated processes. The UCF-USM Connector provides process operators that support the UCF create, read, update, delete (CRUD), and event subscription interfaces. The operators expose Unified Service Model (USM) object types and properties.

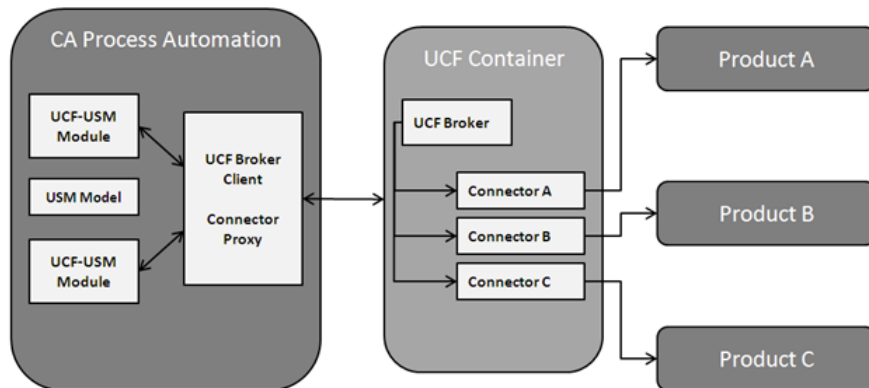
Using the common USM Model and standard UCF interfaces allows the UCF-USM Module to be compatible with all UCF Connectors and Containers.

This document describes how the UCF Connectors can be utilized in CA Process Automation to build customer solutions.

The UCF-USM Connector consists of the following components:

- UCF-USM Module
- UCF Triggers
- UCF Connector Container

The UCF-USM Module and UCF Triggers are remote UCF Connector clients, using the Broker and Connector proxy interfaces, as illustrated:



## Audience

The UCF-USM Connector Guide is intended for the following primary audiences:

- Administrators who install or maintain the UCF-USM Module or a CA Process Automation instance
- Developers and Designers of CA Process Automation processes who want their processes to interact with UCF-USM

If you are an Administrator, this guide assumes that you have read and understand the content described in the CA IT Process Automation Manager Administration Guide.

If you are a CA Process Automation Process developer or a designer, this guide assumes that you have read and understood these concepts and associated procedures:

- How to create and run CA Process Automation processes (as described in the CA Process Automation User Guide)
- How to create Process and Named Datasets (as described in the CA Process Automation User Guide)
- The basics of a UCF-USM environment

## Terminology

### Connector

A Connector is a module that integrates CA Process Automation (formerly CA IT Process Automation Management, also known as CA IT PAM) with an external software program.

### Module

A set of functionally related Operators sharing a common configuration. All the CA Process Automation connectors are modules, but the reverse is not true. CA Process Automation contains built-in modules that provide functionality, but which do not interface with specific external applications.

### Operator

A software element that implements an action and is one of the building blocks of a process in CA Process Automation.

### USM

The Unified Service Model (USM) is a schema of common object types and properties to which data from all connectors is converted. The USM schema enables analysis of data from all domain managers in a common interface with identical formatting.



# Chapter 2: Installing the UCF-USM Module

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This section contains the following topics:

[Prerequisites](#) (see page 9)

[Install the Patch](#) (see page 10)

[Install the Connector](#) (see page 11)

[Configure UCF-USM Module](#) (see page 12)

## Prerequisites

Following are the prerequisites for installing the connector:

- For CA Process Automation version 3.1 and later, this module is automatically included in the base release, and you can proceed to configure the UCF-USM Module.
- For CA IT PAM version 3.0 SP1, apply first a patch to enhance CA IT PAM for UCF support (see [Installing the Patch](#) (see page 10)), and then install the connector (see [Install the Connector](#) (see page 11)).
- For versions of CA IT PAM before 3.0 SP1, upgrade to either CA IT PAM version 3.0 SP1, or CA Process Automation version 3.1 (or later).
- The UCF Catalyst connectors that the UCF-USM Module connector module can interface to have their own prerequisites, and can be hosted either under CA Spectrum SA or a separate UCF Connector Container.

See [UCF Connector Container](#) (see page 19) for details.

## Install the Patch

This patch must be installed for version CA IT PAM 3.0 SP1. If the targeted instance of CA Process Automation is a version earlier than CA IT Process Automation Management 3.0 SP1, and you cannot or do not want to use CA Process Automation version 3.1 or later, then download CA IT PAM 3.0 SP1 from support.ca.com, and then upgrade your CA Process Automation instance following the instructions provided with the release.

### To install the patch

1. Install this patch against the Domain Orchestrator using the same account as was used to install CA Process Automation on the computer containing your Domain Orchestrator. If your Domain Orchestrator is clustered, install the patch against the primary node. The first Orchestrator installed is the Primary Orchestrator, and this can be confirmed by checking that `oasis.server.isPrimary=true` is set in the `OasisConfig.properties` file found in `<itpam_root_directory>\server\c2o\config`, where `<itpam_root_directory>` is the directory where CA Process Automation was installed.
2. Shut down the Orchestrator before applying the patch. Other Orchestrator instances can remain running. We suggest that you close other applications before applying this patch.
3. When installing the patch on Windows, run `IT_PAM_patch_installer_3_0_SP1_UCF_enablement_w32.exe` for JRE (32-bit).
4. After you provide the inputs, the installer updates your CA Process Automation instance with the new binaries containing the fix. Restart CA Process Automation.
5. After you restart Domain Orchestrator, the patch contents will be propagated to any other Orchestrator that is a part of the domain after the mirroring interval has elapsed.

**Default:** 15 minutes

**Note:** You can also install the connector (see [Install the Connector](#) (see page 11)) before restarting the Orchestrator.

6. Restart each Orchestrator for the patch to take effect.

## Install the Connector

### To install the Connector

1. Log on to the computer and account used to install the CA Process Automation Primary Domain Orchestrator.
2. Install this connector against the Domain Orchestrator using the same account as was used to install CA Process Automation on the computer containing your Domain Orchestrator. If your Domain Orchestrator is clustered, install the patch against the primary node. The first Orchestrator installed is the Primary Orchestrator, and this can be confirmed by checking that `oasis.server.isPrimary=true` is set in the `OasisConfig.properties` file found in `<itpam_root_directory>\server\c2o\config`, where `<itpam_root_directory>` is the directory where CA Process Automation was installed.
3. Shut down the Orchestrator before installing the connector. Other Orchestrator instances can remain running. We suggest that you close other applications before applying this patch.
4. Run the appropriate version of the installer for your operating system.

Typically this will be `IT_PAM_connector_installer_UCF-USM_1_X_w32.exe` for Windows environments with a 32-bit JRE installed. X in this case is the installer version number.

For Linux and UNIX systems, run the installer as follows to help ensure that it is run under the Bourne shell, and to avoid the need to use `chmod` to set this file as an executable.

```
sh IT_PAM_connector_installer_UCF-USM_1_X.sh
```

5. When the Welcome screen displays, click Next to proceed or click Cancel to exit the installation.  
The Licensing terms for this Connector display.
6. Select "I accept the agreement" and click Next to proceed. Click Cancel to terminate the installation.
7. Specify the directory where the CA Process Automation Primary Domain Orchestrator was installed (if it differs from the default value) by entering the complete path to the directory, or by clicking Browse and locating the directory.
8. Click Next.  
The installer verifies that the Primary Domain Orchestrator is down, and a dialog displays where you select the components to install. (You only have the choice of this Connector.)
9. Click the check box to select this Connector, and click Next to continue.  
The installer deploys the components of the new module to the Primary Domain Orchestrator (This takes a few minutes).
10. Click Finish to complete the installation.

- Restart the Primary Domain Orchestrator.

The installation.log file is located here: <itpam\_root\_directory>\server\c2o where <itpam\_root\_directory> is the folder specified in Step 5.

The newly installed module is not available immediately on any secondary Orchestrators. All components are mirrored within the time specified by the mirroring interval for secondary Orchestrators.

- After all components have been mirrored, stop and restart each Orchestrator and Agent to make the new module available for use.

## Configure UCF-USM Module

### To configure the UCF-USM Module in CA Process Automation

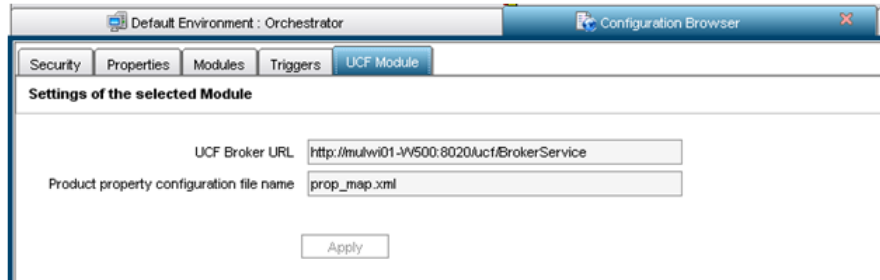
- Go to Configuration Browser and click UCF Module and complete the following details:

#### UCF Broker URL

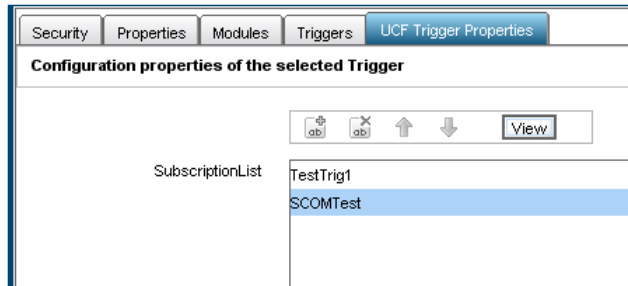
The default UCF Broker URL can be specified in the UCF Module configuration. Any operator that does not specify a UCF Broker URL parameter defaults to the UCF Broker URL in the UCF Module configuration.

#### Product property configuration file name

The Product property configuration file name is used to customize the properties shown in the generic create operator (see [create operator](#) (see page 13)).



- Go to the UCF Trigger Properties tab and specify the subscription details.



# Chapter 3: UCF-USM Components

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This section contains the following topics:

[UCF-USM Module](#) (see page 13)

[UCF Trigger](#) (see page 18)

[UCF Connector Container](#) (see page 19)

## UCF-USM Module

The UCF-USM Module includes CRUD and event subscription operators that can be invoked on any UCF Connector. All operator parameters can contain expressions for maximum flexibility in building content. CA Process Automation processes can be created using any combination of these operators to construct integrations across multiple products. In addition, the UCF-USM operators could be used as base operators to build custom operators for product-specific solutions.

Following are some of the commonly used operators that can be used to create integrated solution using UCF Connectors in CA Process Automation.

## Create Operator

The Generic Create operator supports the CRUD create and update operations on any USM type.

This Operator takes the following input parameters:

### **UCFBrokerURL**

Defines the UCF Broker URL. Defaults to the UCF Broker URL in the UCF Module configuration.

### **MdrProduct**

Unique identifier of the connecting product.

### **MdrProdInstance**

Unique identifier of the instance of the connecting product as registered in the UCF Broker.

### **Create**

Indicates whether the operator creates an object or updates an existing object.

**Itemtype**

Specifies the USM type of the object that is created or updated.

**Values:**

Alert, ComputerSystem, Router, Service, and so on.

**Properties**

In addition to the generic CRUD operators, there are specific Create/Update operators for each USM type. The operator parameters contain the properties of the USM type.

## Customizing the Properties

The Properties form can be customized using the "Product property configuration file name". If the MdrProduct and itemtype values match an entry in the "Product property configuration file", then the form displays according to the following rules:

- If the property is not defined in the USM type, then it is a custom property and is added to the form.
- If the property is defined in the USM type, then it is added to the form.
- If the property is defined in the USM type and has an alias name, then it is added to the form using the alias name.

For example, this entry displays the Alert form as shown.

```
<!-- SCOM -->
<MdrTypes MdrProduct="CA:00031">
  <TypeMap name="Alert">
    <Mapping propName="MdrProdInstance" aliasName="siloHost" />
    <Mapping propName="MdrElementId" aliasName="Id" />
    <Mapping propName="UrlParams" aliasName="" />
    <Mapping propName="SeverityTrend" aliasName="" />
    <Mapping propName="RelatedAlerts" aliasName="" />
    <Mapping propName="AlertedMdrProdInstance" aliasName="siloHost" />
    <Mapping propName="AlertedMdrElementID" aliasName="MonitoringObjectId"
  />
    <Mapping propName="Summary" aliasName="Name" />
    <Mapping propName="Message" aliasName="Description" />
    <Mapping propName="Assignee" aliasName="Owner" />
  </TypeMap>
</MdrTypes>
```

The tooltip of properties with alias names indicates the USM property name.

## Create/Update Operators

In addition to the generic CRUD operators, there are specific Create/Update operators for each USM type. The operator parameters are created from the properties of the USM types. These operators are dynamically constructed from the USM schema during UCF Module initialization. Future changes to the USM model will not require any CA Process Automation patches.

## Delete Operator

The Delete operator supports the CRUD delete operation on any USM type. The parameters identify the MDR and the object to be deleted.

This Operator takes the following input parameters:

**UCFBrokerURL**

Defines the UCF Broker URL. Defaults to the UCF Broker URL in the UCF Module configuration

**MdrProduct**

Unique identifier of the connecting product.

**MdrProdInstance**

Unique identifier of the instance of the connecting product as registered in the UCF Broker.

**MdrElementID**

Unique identifier of the object in the connecting product.

**ClassName**

Class name of the object (Alert, ComputerSystem, and so on.)

## Get Operator

The Get operator supports the CRUD read operation on any USM type. The parameters identify the MDR and the UCF get filter values (entitytype, itemtype, recursive, id, and updatedAfter). In addition, the MaxNumberOfObjects parameter restricts the number of objects returned by the operator.

This Operator takes the following input parameters:

**UCFBrokerURL**

Defines the UCF Broker URL. Defaults to the UCF Broker URL in the UCF Module configuration

**MdrProduct**

Unique identifier of the connecting product.

**MdrProdInstance**

Unique identifier of the instance of the connecting product as registered in the UCF Broker.

**entitytype**

Specifies the type of the entity. Values can be "Alert", "Item" or "Relationship".

**itemtype**

Specifies the type of item. If not specified, then all types are retrieved.

**recursive**

Specifies if the connector should recursively include the item and its constituent children and relationships.

**id**

Specifies a specific object identifier (same as the MdrElementID)

**updatedAfter**

Specifies only objects updated after a specific time.

**MaxNumberOfObjects**

Specifies the maximum number of objects to retrieve.



## SubscribeToChanges Operator

The SubscribeToChanges operator supports event subscriptions on any USM type using UCF filters. The parameters identify the MDR and the UCF filter values (entitytype, itemtype, recursive, id, and updatedAfter). In addition, the MaxNumberOfObjects parameter restricts the number of objects returned by the operator. The Timeout parameter specifies the number of seconds after which the subscription expires. The operator completes when either the number of objects are returned or the timeout expires.

This Operator takes the following input parameters:

**UCFBrokerURL**

Defines the UCF Broker URL. Defaults to the UCF Broker URL in the UCF Module configuration

**MdrProduct**

Unique identifier of the connecting product.

**MdrProdInstance**

Unique identifier of the instance of the connecting product as registered in the UCF Broker.

**entitytype**

Specifies the type of the entity. Values can be "Alert", "Item" or "Relationship".

**itemtype**

Specifies the type of item. If not specified, then all types are retrieved.

**recursive**

Specifies if the connector should recursively include the item and its constituent children and relationships.

**id**

Specifies a specific object identifier (same as the MdrElementID).

**updatedAfter**

Specifies only objects updated after a specific time.

**timeOut**

Specifies the number of seconds after which the subscription expires.

**MaxNumberOfObjects**

Specifies the maximum number of objects to retrieve.

# UCF Trigger

UCF Trigger subscriptions are specified in the CA Process Automation Configuration browser. The UCF Trigger supports a list of subscriptions, each referencing a UCF Connector with a filter. When a matching event is received from the UCF Connector, the specified CA Process Automation process is started.

The following sample shows how to set a UCF trigger that starts a process whenever an Alert object is created or updated in SCOM. The properties of the Alert object are available as process variables.

### To set the UCF Trigger

1. Go to UCF Subscription, give the subscription details as shown, and submit the changes.

#### Subscription

The screenshot shows the 'UCF Subscription' form with the 'Subscription' tab selected. The form contains the following fields:

- SubscriptionName: SCOMTest
- ProcessPath: Tests/TriggerProcess
- Enabled:  Enabled

#### MDR

The screenshot shows the 'UCF Subscription' form with the 'MDR' tab selected. The form contains the following fields:

- UCF Broker URL: http://mulwi01-W500:8020/ucf/BrokerService
- MdrProduct: CA:00031 (MS-System Center Operations Manager)
- MdrProdInstance: SCOM500 (CA:00031)

**Filter**

UCF Subscription

Subscription MDR Filter

Create

Update

Delete

entitytype Alert

itemtype

recursive

id

updatedAfter

## UCF Connector Container

The UCF Connector Container is a lightweight Container for UCF Connectors. The container runs as a separate process. UCF Connectors can be installed into the Container.

To install the UCF-USM Connector Container, first run CA\_UCF\_Connector\_Container\_Installer\_1.0-w32.exe on the Windows machine where you want to host your UCF connectors.

You may have multiple containers within your network, but not more than one per server.

## Add a Connector to the Container

To add a new Connector to the Container, execute the connector installer and specify the container install directory.

## Modify Connector Configurations

To modify the connector configuration, manually edit the configuration file which is located in <container>\conf\container\_config.xml.

The configuration file contains the Connector class name, the Connector inbound and outbound policy filenames, and Connector initialization parameters. The file also contains UCF context parameters that allow multiple peer brokers.

Connector initialization parameters whose names contain "password" must be encrypted. To generate an encrypted value, use the <container>\bin\container\_encrypt.bat script.

To change the Container logging level, edit the <Container>\bin\container.conf file.

The scripts in the <Container>\bin\wrapper\_32 directory manage the UCF Connector as shown in the table:

<b>Script</b>	<b>Description</b>
containersvcinst.bat	Install the Container as a Windows service
containersvcuninst.bat	Uninstall the Container as a Windows service
startcontainer.bat	Start the Container service
stopcontainer.bat	Stop the Container service
containersvc.bat	Start the Container on console

# Chapter 4: CA Process Automation Content: Example

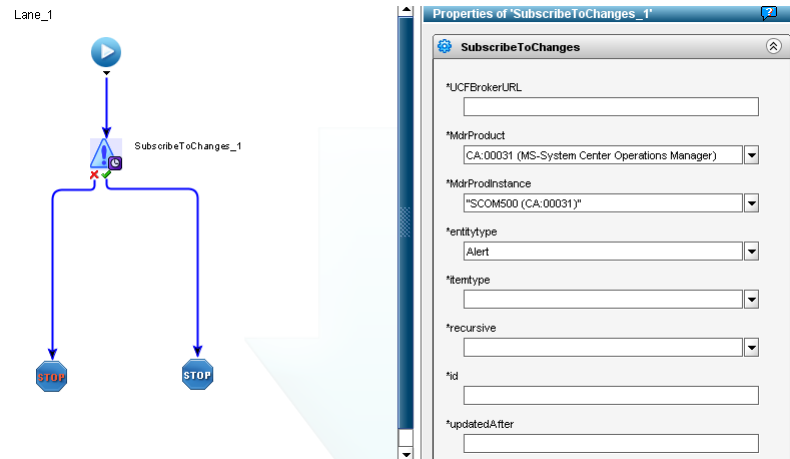
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The UCF-USM Module operators can be used directly in processes to build generic content. You can also use the operators as base operators of custom operators for product-specific content.

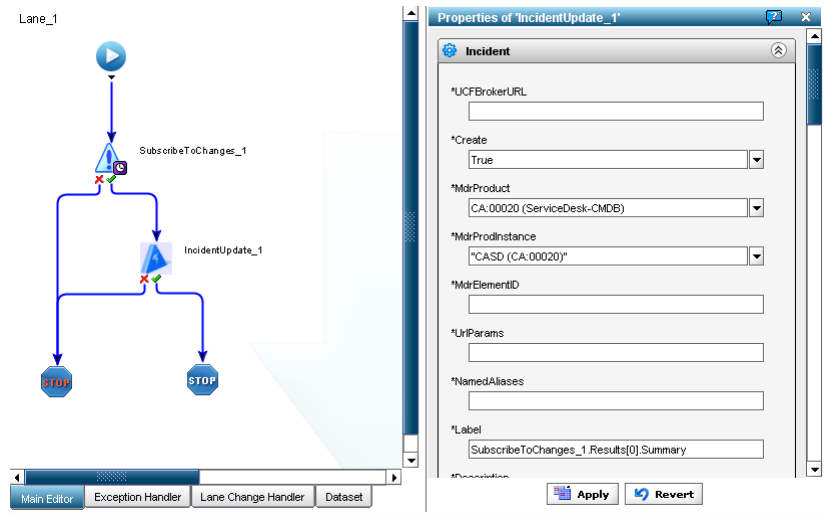
Consider the example of creating Service Desk Incidents from SCOM Alerts.

## To build a simple solution

1. Add the SubscribeToChanges operator to a process.
2. Select the SCOM Connector from the MdrProduct/MdrProdInstance lists and Alert from the entitytype list.
3. Add the IncidentUpdate operator to the process. Select the Create check box and the Service Desk Connector from the list.



4. Set the values of the Incident properties using the properties of the SCOM Alert object as variable expressions.



The content is now available for use.

# Appendix A: Third-Party Acknowledgments

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This section contains the following topics:

[Tuscany SCA Version 2.0.M4](#) (see page 23)

[Tuscany SDO Version 1.1.1](#) (see page 111)

[Tuscany SCA Version 1.6](#) (see page 132)

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For Saxon including

saxon-9.x.jar

saxon-dom-9.x.jar

saxon-xpath-9.x.jar

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Revision level 1.11, last updated on 2007/12/21

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Note that the remaining files in the jar tuscanysdo-api-r2.1-1.1.1.jar ....

commonj/sdo/impl/HelperProvider\$1.class

commonj/sdo/impl/HelperProvider\$2.class

commonj/sdo/impl/HelperProvider\$DefaultHelperContext.class

commonj/sdo/impl/HelperProvider.class

commonj/sdo/impl/NoHelperProviderException.class

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For the Eclipse EMF components

(codegen-2.2.3.jar

codegen-ecore-2.2.3.jar

common-2.2.3.jar

ecore-2.2.3.jar

ecore-change-2.2.3.jar

ecore-xmi-2.2.3.jar

xsd-2.2.3.jar)

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abdera-parser-0.4.0-incubating.jar

abdera-server-0.4.0-incubating.jar

activeio-2.0-r118.jar

activemq-all-5.2.0.jar

addressing-1.3.mar

annogen-0.1.0.jar

aopalliance-1.0.jar

axiom-api-1.2.7.jar

axiom-dom-1.2.7.jar

axiom-impl-1.2.7.jar

axis2-adb-1.4.1.jar

axis-ant-1.4.jar  
axis2-codegen-1.4.1.jar  
axis2-java2wsdl-1.4.1.jar  
axis2-kernel-1.4.1.jar  
axis2-rtompolicy-1.4.1.jar  
bsf-all-3.0-beta2.jar  
cglib-nodep-2.2.jar  
commons-collections-3.1.jar  
commons-codec-1.3.jar  
commons-fileupload-1.2.jar  
commons-httpclient-3.1.jar  
commons-io-1.4.jar  
commons-jexl-1.1.jar  
commons-lang-2.1.jar  
commons-logging-1.1.1.jar  
derby-10.3.1.4.jar  
gdata-client-1.0.jar  
gdata-client-meta-1.0.jar  
gdata-core-1.0.jar  
gdata-media-1.0.jar  
geronimo-common-1.2-beta.jar  
geronimo-connector-1.2-beta.jar  
geronimo-core-1.2-beta.jar  
geronimo-deployment-1.2-beta.jar  
geronimo-ejb\_3.0\_spec-1.0.jar

geronimo-interceptor-1.2-beta.jar  
geronimo-j2ee-1.2-beta.jar  
geronimo-j2ee-connector\_1.5\_spec-1.1.jar  
geronimo-j2ee-jacc\_1.0\_spec-1.1.jar  
geronimo-j2ee-management\_1.0\_spec-1.1.jar  
geronimo-javamail\_1.4\_spec-1.2.jar  
geronimo-jms\_1.1\_spec-1.1.jar  
geronimo-jpa\_3.0\_spec-1.0.jar  
geronimo-jta\_1.0.1B\_spec-1.0.jar  
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geronimo-management-1.2-beta.jar  
geronimo-naming-1.2-beta.jar  
geronimo-security-1.2-beta.jar  
geronimo-spec-j2ee-connector-1.5-rc4.jar  
geronimo-spec-jta-1.0.1B-rc4.jar  
geronimo-stax-api\_1.0\_spec-1.0.1.jar  
geronimo-system-1.2-beta.jar  
geronimo-transaction-1.2-beta.jar  
geronimo-util-1.2-beta.jar  
httpcore-4.0-beta1.jar  
httpcore-nio-4.0-beta1.jar  
jettison-1.0.1.jar  
jetty-6.1.7.jar  
jetty-util-6.1.7.jar  
json-rpc-1.0.jar

log4j-1.2.13.jar  
lucene-core-2.9.1.jar  
lucene-highlighter-2.9.1.jar  
lucene-memory-2.9.1.jar  
mex-1.41-impl.jar  
neethi-2.0.4.jar  
ode-bpel-api-1.1.1.jar  
ode-bpel-compiler-1.1.1.jar  
ode-bpel-dao-1.1.1.jar  
ode-bpel-epr-1.1.1.jar  
ode-bpel-obj-1.1.1.jar  
ode-bpel-runtime-1.1.1.jar  
ode-bpel-schemas-1.1.1.jar  
ode-bpel-store-1.1.1.jar  
ode-dao-jpa-1.1.1.jar  
ode-dao-jpa-objpa-derby-1.1.1.zip  
ode-jacob-1.1.1.jar  
ode-jacob-ap-1.1.1.jar  
ode-scheduler-simple-1.1.1.jar  
ode-utils-1.1.1.jar  
openjpa-all-0.9.7-incubating.jar  
openjpa-persistence-0.9.7-incubating.jar  
opensaml-1.1.jar  
org.apache.felix.bundlerepository-1.0.3.jar  
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org.apache.felix.main-1.0.4.jar  
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rampart-core-1.4.jar  
rampart-policy-1.4.jar  
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spring-beans-2.5.5.jar  
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tranql-connector-1.1.jar  
tuscany-sdo-api-r2.1-1.1.1.jar  
tuscany-sdo-impl-1.1.1.jar  
tuscany-sdo-lib-1.1.1.jar  
tuscany-sdo-tools-1.1.1.jar  
woden-api-1.0M8.jar  
woden-impl-dom-1.0M8.jar  
wss4j-1.5.4.jar  
wstx-asl-3.2.4.jar  
xalan-2.7.0.jar  
xbean-naming-2.7.jar  
xercesImpl-2.8.1.jar  
xml-apis-1.3.03.jar  
xmlbeans-2.3.0.jar  
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- \* Morgan Delagrangue
- \* Geir Magnusson Jr.
- \* Martin Poeschl

- \* Steve Polyak
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dom4j-1.6.1.jar

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- codegen-ecore-2.2.3.jar
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- ecore-change-2.2.3.jar
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For Saxon including

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commonj/sdo/DataGraph.class

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commonj/sdo/impl/ExternalizableDelegator\$Resolvable.class

commonj/sdo/impl/ExternalizableDelegator.class

commonj/sdo/Property.class

commonj/sdo/Sequence.class

commonj/sdo/Type.class

xml/datagraph.xsd

xml/sdoJava.xml

xml/sdoJava.xsd



xml/sdoModel.xml

xml/sdoModel.xsd

xml/sdoXML.xml

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