

HP SOA Systinet Customization Editor

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User Guide

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Welcome to This Guide

This guide describes how to use the HP SOA Systinet Customization Editor to edit the SDM configuration and the user interface of an installation of SOA Systinet. You can use the Customization Editor to modify the model, its registry mappings and certain UI elements.

How This Guide is Organized

This guide explains how to use the Customization Editor to create an extension to the configuration of HP SOA Systinet, how to configure the individual elements of SOA Systinet and then deploy them to an installation of SOA Systinet.

The guide explains:

[Getting Started on page 13](#). Introducing and configuring the Customization Editor, its main features, and the customizable elements of SOA Systinet.

[Manipulating Artifact Types on page 33](#). Customizing the attributes, properties and appearance of artifacts.

[Manipulating Properties on page 51](#). Creating and modifying properties and property groups.

[Configuring the SOA Systinet UI on page 65](#). Customizing the main tabs of SOA Systinet and creating new UI elements.

[Modifying Taxonomies on page 83](#). Modifying the set of available taxonomies.

[Deploying an Extension to SOA Systinet on page 85](#). Preparing and deploying your extension to SOA Systinet.

[User Interface Reference on page 89](#). A guide to the Customization Editor user interface.

Document Conventions

The typographic conventions used in this document are:

| | |
|-----------------------------------|---|
| run.bat make | Script name or other executable command plus mandatory arguments. |
| [--help] | A command-line option. |
| either or | A choice of arguments. |
| <i>replace_value</i> | A command-line argument that should be replaced with an actual value. |
| {arg1 arg2} | A choice between two command-line arguments where one or the other is mandatory. |
| <code>rmdir /S /Q System32</code> | Operating system commands and other user input that you can type on the command line and press Enter to invoke. Items in <i>italics</i> should be replaced by actual values. |
| C:\System.ini | Filenames, directory names, paths and package names. |
| <code>a.append(b);</code> | Program source code. |
| <code>server.Version</code> | An inline Java or C++ class name. |
| <code>getVersion()</code> | An inline Java method name. |
| Shift-N | A combination of keystrokes. |
| Service View | A label, word or phrase in a GUI window, often clickable. |
| New->Service | Menu choice. |

Documentation Updates

This manual's title page contains the following identifying information:

- Software version number
- Document release date, which changes each time the document is updated
- Software release date, which indicates the release date of this version of the software

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- Enter into discussions with other software customers
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To register for an HP Passport ID, go to: www.managementsoftware.hp.com/passport-registration.html

1 Getting Started

The Customization Editor is used to create extensions to the core SOA Systinet configuration. The core configuration itself is not modified. Instead, SOA Systinet includes a utility for adding extensions to the configuration.

This chapter describes:

- [Introduction to the Customization Editor on page 14](#) gives an overview of the use of the Customization Editor.
- [Customizable Elements of SOA Systinet on page 15](#) describes the elements of SOA Systinet that are configurable using the Customization Editor.
- [Creating an Extension Project on page 21](#) describes how to start a new project to configure SOA Systinet.
- [Introduction to the User Interface on page 23](#) explains the main features of the Customization Editor user interface.
- [Navigating the Customization Editor on page 25](#) describes the layout of the Extension Explorer – the main navigation view in the editor.
- [Customization Editor Menu Options on page 29](#) describes the Customization Editor options in the Eclipse drop-down menus.
- [Searching the Extension on page 30](#) explains how to use the search function to find elements in the extensions.

Introduction to the Customization Editor

SOA Systinet is distributed with a preconfigured data model and user interface. For typical deployment scenarios, both need to be customized to fit an organization specific environment.

HP Systinet provides a mechanism to customize both the model and the appearance of the user interface, implement those changes and keep them isolated in a so-called extension package that can then be re-applied during a re-installation or upgrade of SOA Systinet.

The overall process of customizing SOA Systinet is as follows:

- 1 Use the Customization Editor to:
 - Modify the data model and user interface as described in:
 - [Manipulating Artifact Types on page 33](#)
 - [Manipulating Properties on page 51](#)
 - [Configuring the SOA Systinet UI on page 65](#)
 - [Modifying Taxonomies on page 83](#)
 - Save your modifications to a stand-alone extension package file as described in [Exporting the Extension Project on page 85](#).
- 2 Use the Setup Tool provided with SOA Systinet to apply the extension package to an installation of SOA Systinet as described in [Applying Extensions on page 86](#).



Special care must be taken when modifying artifacts that already have instances in the repository. For example, a new installation already contains the person artifact **administrator**. Removing properties from an artifact type with instances or adding a new required property without a default value may cause instability in SOA Systinet. The Customization Editor should prevent this if the SOA Systinet server is running during modification.

Customizable Elements of SOA Systinet

The Customization Editor enables you to modify almost any aspect of an installation of SOA Systinet. These aspects consist of two main groups:

- **SDM Entities** are the building blocks that represent the types of entity that exist in the repository defined by the SOA Definition Model. These are described in more detail in [SDM Elements on page 16](#).
- **UI Entities** are the elements of the SOA Systinet user interface. These are described in [UI Elements on page 17](#).

SDM Elements

The Customization Editor deals with four types of entity in the SDM configuration of SOA Systinet:

- **Artifacts** are the basic building blocks of SOA. Every entity in the repository is an instance of an artifact. Each type of artifact is defined by an artifact type in the SDM. Artifact types are further categorized into artifact packages. These packages are abstract artifact types that do not have instances in the repository but instead define groups of artifacts.

Artifact types and packages are visible in the **Artifact Types** branch of the **Extension Explorer** (see [Artifact Types on page 26](#)) and artifact type procedures are described in [Manipulating Artifact Types on page 33](#).

- **Properties** are the attributes of artifacts. Properties are the labels that distinguish one instance of an artifact from another. For example, all artifact instances have the **name** property descriptor but every artifact has a different name.

Properties are visible in the **SDM Details** branch of the **Extension Explorer** (see [SDM Details on page 27](#)) and property procedures are described in [Manipulating Properties on page 51](#).

- **Property Groups** enable property descriptors to be organized and added to artifacts as a group instead of individually. For example; name, address, and telephone number could be organized into a contact details property group and then whenever a new artifact type is created that represents a person, the group can be added to it instead of the individual properties.

Property Groups are visible in the **SDM Details** branch of the **Extension Explorer** (see [SDM Details on page 27](#)) and property group procedures are described in [Manipulating Properties on page 51](#).

- **Taxonomies** are categorization groups that each contain a set of values within a single category. For example, office location could be a taxonomic group containing a set of values representing each office in an organization.

Taxonomies are visible in the **Taxonomies** branch of the **Extension Explorer** (see [Taxonomies on page 29](#)) and taxonomy procedures are described in [Modifying Taxonomies on page 83](#).

UI Elements

Two types of SOA Systinet pages are configurable:

- The main SOA Systinet tabs.
- The artifact detail and browse pages.

The main SOA Systinet tabs consist of the tab heading, a menu on the left and a set of portlets in the main area of the screen:

Figure 1. SOA Systinet Tab

The screenshot shows the SOA Systinet web application interface. At the top left is the HP Systinet logo. To the right of the logo is a navigation bar with tabs: Dashboard, Services, Tools, and Tabs. Below the navigation bar is a search box with a 'Go' button. On the left side, there is a 'View' menu with options: My Services, All Services, My Contracts, Requests to Approve, and a 'New' section with Service and Consumption Request. A red box labeled 'Navigation Menu' encompasses the search box and the 'View' menu. The main content area is divided into several portlets: 'Reuse Statistics' with a bar chart showing 100% for 1-2 items; 'Business Services' with a list of services and a 'Reload' button; 'Tasks and Reports' with sections for View Reports and View Tasks; 'Systinet News' with a list of news items; 'Feed Portlet' with a 'New Task' button; and 'RSS Feed Portlet' with a 'Reload' button. A red box labeled 'Feed Portlet' encompasses the 'Tasks and Reports' and 'Systinet News' portlets. Another red box labeled 'RSS Feed Portlet' encompasses the 'Feed Portlet' and 'RSS Feed Portlet' portlets. At the bottom left, there are links for 'About | Legal notices | Documentation'.

The two configurable elements on SOA Systinet tabs are:

- **Navigation Menu**

The navigation menu is organized into navigation groups and actions.

The details for each SOA Systinet tab are accessible in the **User Interface->SOA Systinet tab->Navigation** branch of the **Extension Explorer** (see [User Interface on page 28](#)).

All the navigation actions in your extension are accessible in the **User Interface->UI Details->Navigation Actions** branch in the **Extension Explorer** (see [User Interface on page 28](#)).

Configuring the navigation actions of a SOA Systinet tab, creating and modifying navigation actions, and organizing navigation actions into groups are described in [Configuring the SOA Systinet UI on page 65](#).

- **Portlets and Feeds**

SOA Systinet tabs contain portlets in the main area of the screen.

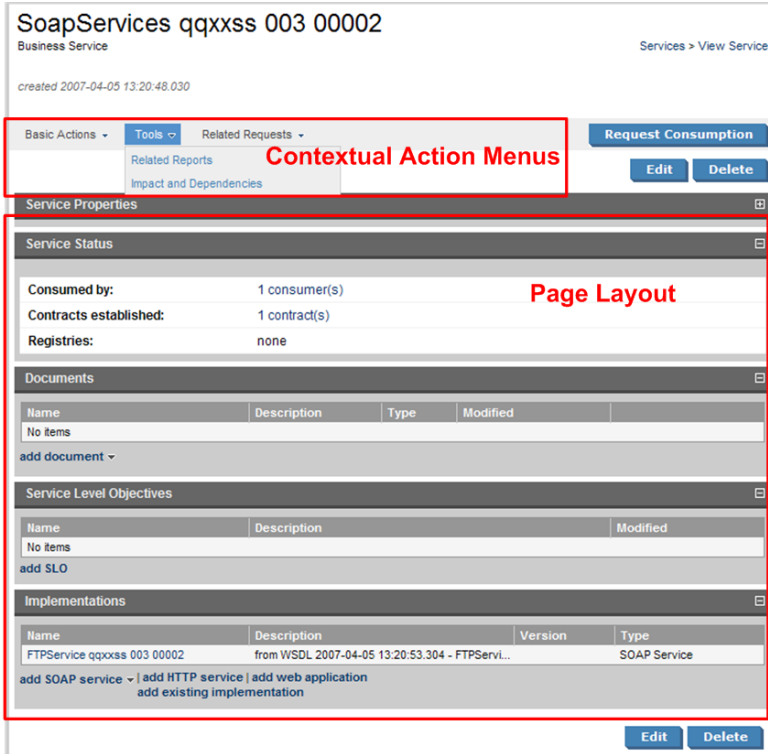
The details for each SOA Systinet tab are accessible in the **User Interface->SOA Systinet tab->Portlets** branch of the **Extension Explorer** (see [User Interface on page 28](#)).

All the portlets in your extension are accessible in the **User Interface->UI Details->Portlets Definitions** branch in the **Extension Explorer** (see [User Interface on page 28](#)).

Configuring the portlets of a SOA Systinet tab and creating new portlets are described in [Configuring the SOA Systinet UI on page 65](#).

Artifact pages consist of the page heading, a set of contextual menus and the main layout of the page:

Figure 2. SOA Systinet Artifact Page



The two configurable elements on artifact pages are:

- **Contextual Action Menus**

The contextual menus are organized into UI groups and contextual actions.

The details for each artifact type are accessible in the **Service Catalog UI** and **Tools UI** tabs of the relevant artifact editor (see [Artifact Types on page 26](#)).

All the contextual actions and groups of actions in your extension are accessible in the **User Interface->UI Details->Contextual Actions** and **Contextual Action Groups** branches in the **Extension Explorer** (see [User Interface on page 28](#)).

Configuring the contextual menus of an artifact page is described in [Manipulating Artifact Types on page 33](#). Creating context actions and organizing them into groups is described in [Configuring the SOA Systinet UI on page 65](#).

- **Page Layout**

The page layout of artifact detail pages can be configured.

The details for each artifact type are accessible in the **Service Catalog UI** and **Tools UI** tabs of the relevant artifact editor (see [Artifact Types on page 26](#)).

Configuring the layout of an artifact page is described in [Manipulating Artifact Types on page 33](#).

Creating an Extension Project

The first step in customizing your installation is to create an extension project in the Customization Editor. This is your workspace where you make all your modifications.

To create an extension project:

- 1 In the **File** menu, select **New**→**HP SOA Systinet Extension Project**.
- 2 Complete the dialog with parameters:

| Parameter | Definition |
|------------------|---|
| Extension Folder | Select the location of the extension folder in your SOA Systinet installation using Browse . |
| Server URL | The URL used to access SOA Systinet in the form - <code>http://localhost:8080/soa</code> |

Click **Next** to select the working extension:

- 3 Select one of the three options:
 - Create a new extension project from scratch – this creates an empty extension containing no elements at all.
 - Edit an existing extension – open an extension for modification.
 - Create a new extension from an existing one – use an existing extension as the basis of a new one.

For the last two options select an extension from the extension folder or use **Add Extension** to select one from another location.

Click **Next**.

Edit extension skips to step 6.

- 4 For the create options complete the dialog with parameters:

| Parameter | Definition |
|-------------|---|
| Name | The name of your extension project |
| Namespace | The prefix used for the URI when creating a new artifact type or property |
| Description | A description of your extension project |
| Version | The extension version number |
| URI | The identifier for the resource in the configuration |

Click **Next** to select an extension dependency.

- 5 For the create options you can optionally add dependencies on other extensions. By default, all extensions are dependent on the core extension.

Select an extension from the list or use **Add extension** to add an extension from outside the default extensions directory to the list. Click **Next** to set the extension properties.

- 6 Complete the dialog with the following parameters:

| Parameter | Definition |
|--------------|---|
| Project Name | The ID of the new extension project |
| Location | Optionally, uncheck Default Location and use Browse to select a new workspace directory |

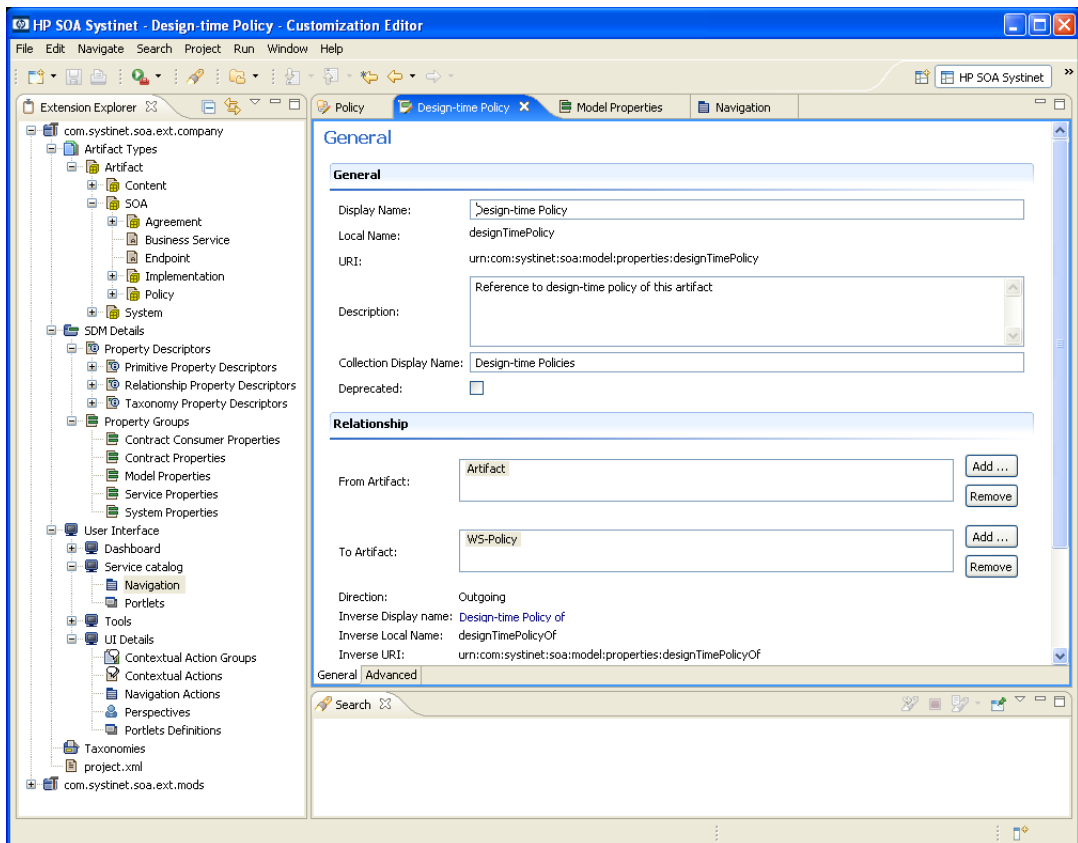
- 7 Click **Finish** to create the project.

The **Extension Explorer** (see [Navigating the Customization Editor on page 25](#)) now displays a view of your extension which contains not only the elements contained in the extension but all the elements from any other extensions that your project depends on.

Introduction to the User Interface

The user interface is split into three sections with menu options across the top. On the left is a tree view of the SDM configuration. The main section contains the details of the item highlighted on the left. Multiple editors can be open in this main section and the functionality varies depending on the editor. In the bottom-right are views for tracking problems, actions, and searches.

Figure 3. Customization Editor UI



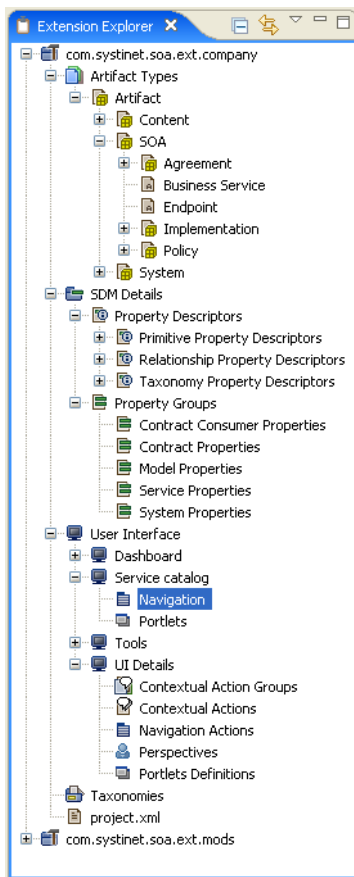
The details of the user interface are described in:

- [Navigating the Customization Editor on page 25](#). The **Extension Explorer** is the main navigation view for the Customization Editor.
- [User Interface Reference on page 89](#) describes the functionality of each editor and view in the main and bottom-right sections.

Navigating the Customization Editor

The **Extension Explorer** represents a tree view of the extension project that you are currently working with. It includes all the elements from extensions that it depends on as well.

Figure 4. Extension Explorer View



Double-clicking an item in the tree will open the relevant editor in the main section and also open/close a branch.

Right-clicking an element opens a context menu of options relevant to the particular element.

The tree is split into the extension root and five branches representing different elements of your extension. The functionality within each element is described in the following sections:

- [Your Extension on page 26](#) describes the top level object in the extension.
- [Artifact Types on page 26](#) contains the hierarchical structure of the artifact types and packages within the extension.
- [SDM Details on page 27](#) contains properties and property groups.
- [User Interface on page 28](#) contains the customizable elements of the SOA Systinet user interface.
- [Taxonomies on page 29](#) accesses the categorization groups available within this extension.
- [project.xml on page 29](#) is configuration of the current extension project.

Your Extension

The extension name is the root element of the project.

The right-click context menu contains the option to **Export Extension** which creates a jar containing your extension ready to import to SOA Systinet (see [Deploying an Extension to SOA Systinet on page 85](#)).

Artifact Types

The **Artifact Types** branch contains the artifact types organized into a hierarchical structure reflecting the SOA Model.

Each element below **Artifact Types** is a type of artifact and the right-click context menu has the following functionality:

- **New Artifact Type/Package** creates a new artifact type as described in [Creating a New Artifact Type or Package on page 34](#).
- **Open Artifact Type/Package** opens the artifact editor for the selected element with the name of the element as the editor title. The functionality of this view is described in [Artifact Editor on page 90](#).

- **Deprecate Artifact Type/Package.** After confirmation, the artifact type becomes inactive in the extension project and is hidden in the SOA Systinet UI.
- **Undeprecate Artifact Type/Package.** After confirmation, the artifact type reactivates in the extension project.
- **Delete Artifact Type/Package.** After confirmation, the artifact type is removed from the extension project.



An artifact package is an artifact type that serves a group of other artifacts. They do not have instances in the repository and just serve to organize a hierarchy of artifact types in the SDM.

SDM Details

The **SDM Details** branch contains two element types:

- **Property Descriptors** of which there are three types:
 - Primitive Property
 - Relationship Property
 - Taxonomy Property

The parent branches contain one context menu option:

- **New Property** opens a dialog described in [Creating a New Property on page 52](#).

Within each parent element is the list of properties of that type. The context menu for properties contains the following options:

- **Open Property** opens the property editor for the selected element with the name of the element as the editor title. The functionality of this view is described in [Property Editor on page 103](#).
- **Deprecate Property.** After confirmation, the property becomes inactive in the extension project and is hidden in the SOA Systinet UI.
- **Undeprecate Property.** After confirmation, the property reactivates in the extension project.
- **Delete Property.** After confirmation, the property is removed from the extension project.

- **Find Usage** opens a search view displaying all the artifacts and property groups that contain this property as described in [Search View on page 124](#).

- **Property Groups**

The context menu of the parent element only has one option:

- **New Property Group** opens a dialog described in [Creating a New Property Group on page 63](#).

The context menu for each property group has these options:

- **Open Property Group** opens the property group editor for the selected element with the name of the element as the editor title. The functionality of this view is described in [Property Group Editor on page 107](#).
- **Delete Property Group**. After confirmation, the property group is removed from the extension project.
- **Find Usage** opens a search view displaying all the artifacts that contain this property group as described in [Search View on page 124](#).

User Interface

The **User Interface** branch contains a branch for each tab in the SOA Systinet UI and a **UI Details** branch containing UI elements.

The branch for each SOA Systinet tab contains two elements:

- **Navigation**. Double-click to open the view for that SOA Systinet tab allowing you to customize the menus in SOA Systinet. The functionality of the **Navigation** editor is described in [Navigation Editor on page 109](#).
- **Portlets**. Double-click to open the view for that SOA Systinet tab allowing you to customize the portlets that are available on the selected SOA Systinet tab. The functionality of the **Portlets** editor is described in [Portlets Editor on page 111](#).

UI Details contains five elements:

- **Contextual Action Groups** allow you to group context actions together and add them to the context options in the SOA Systinet UI. Double-click to open the view described in [Contextual Action Groups Editor on page 113](#) or right click and select **New Context Action Group** to start the dialog described in [Creating a New Context Action Group on page 76](#).
- **Contextual Actions** are options available within artifact and service pages in the SOA Systinet UI. Double click to open the view described in [Contextual Actions Editor on page 115](#) or right click and select **New Context Action** to start the dialog described in [Creating a New Contextual or Navigation Action on page 72](#).
- **Navigation Actions** are the links in SOA Systinet that navigate between pages. Double click to open the view described in [Navigation Actions Editor on page 116](#) or right click and select **New Navigation Action** to start the dialog described in [Creating a New Contextual or Navigation Action on page 72](#).
- **Perspectives** control the views available to users in SOA Systinet. Double click to open the view described in [Perspectives Editor on page 117](#) or right click and select **New Perspective** to start the dialog described in [Creating a New Perspective on page 79](#).
- **Portlets Definitions** are the components in the main section of SOA Systinet pages. Double click to open the view described in [Portlets Definitions Editor on page 118](#) or right click and select **New Portlet** to start the dialog described in [Creating a New Portlet on page 80](#).

Taxonomies

The **Taxonomies** branch allows you to control the taxonomies that are available within your extension project. Double-click to open the view described in [Taxonomies Editor on page 119](#).

project.xml

The **project.xml** branch accesses the view allowing you to configure the current extension project as described in [project.xml Editor on page 120](#).

Customization Editor Menu Options

The menus in Customization Editor are the normal Eclipse menus with the addition of specific functionality for the Customization Editor.

The extra menu options in the Customization Editor include:

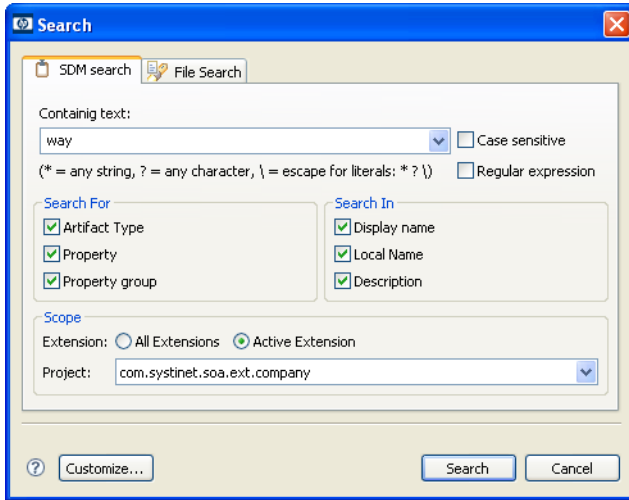
- **File->New->HP SOA Extension Project** to start a new project as described in [Creating an Extension Project on page 21](#).
- **File->New->Artifact Type** to create a new artifact type as described in [Creating a New Artifact Type or Package on page 34](#).
- **File->New->Artifact Package** to create a new artifact package as described in [Creating a New Artifact Type or Package on page 34](#).
- **File->New->Property** to create a new property as described in [Creating a New Property on page 52](#).
- **File->New->Property Group** to create a new property group as described in [Creating a New Property Group on page 63](#).
- **Navigate->Go To->Open Artifact** to open an artifact editor as described in [Artifact Editor on page 90](#).
- **Navigate->Go To->Open Property** to open a property editor as described in [Property Editor on page 103](#).
- **Navigate->Go To->Open Property Group** to open a property group editor as described in [Property Group Editor on page 107](#).
- **Search->Search** opens a search dialog as described in [Searching the Extension on page 30](#).
- **Help->Dynamic Help** accesses context sensitive help, directing you to the relevant section of this document based on the active view in the Customization Editor.

Searching the Extension

The Customization Editor contains a customized search function that enables you to find entities in the extension.

To search the extension:

- 1 In the **Search** menu select **Search** to open the **Search** dialog:



- 2 Complete the **SDM search** dialog containing parameters:

| Parameter | Definition |
|--------------------|---|
| Containing text | The parameter to search the extension for |
| Case sensitive | Check the box to make the search case sensitive |
| Regular expression | Allows more sophisticated search parameters. For example, to find everything with more than one word. This is an advanced topic beyond the scope of this guide. |
| Search For | Select the SDM entities to search |
| Search In | Select the entity attributes to search |
| Scope | Select the extension to search |

- 3 Click **Search** to execute the search and view the results in the **Search** view (see [Search View](#) on page 124).

Saving Modifications

As you modify an entity in your extension project the tab label of the entity editor is marked with an asterisk.

To save your changes to the project select **File->Save** from the **File** menu.

If you close an editor or the application with unsaved changes you are prompted to save these changes.

These changes are made to your extension project and not to the configuration of SOA Systinet. To deploy your modifications to SOA Systinet see [Deploying an Extension to SOA Systinet on page 85](#).

2 Manipulating Artifact Types

The Customization Editor can be used to create, modify and delete artifact types in your extension project. You can also change the format of artifact pages in the SOA Systinet UI.

The chapter describes the following procedures:

- [Creating a New Artifact Type or Package on page 34](#)
- [Modifying the Attributes of an Artifact Type on page 38](#)
- [Modifying the Properties of an Artifact Type on page 39](#)
- [Modifying an Artifact Type in the Services UI on page 40](#)
- [Modifying an Artifact Type in the Tools UI on page 40](#)
- [Modifying the Layout of the View Artifact Page on page 41](#)
- [Modifying the Contextual Actions of an Artifact on page 44](#)
- [Mapping an Artifact Type to a Registry on page 47](#)

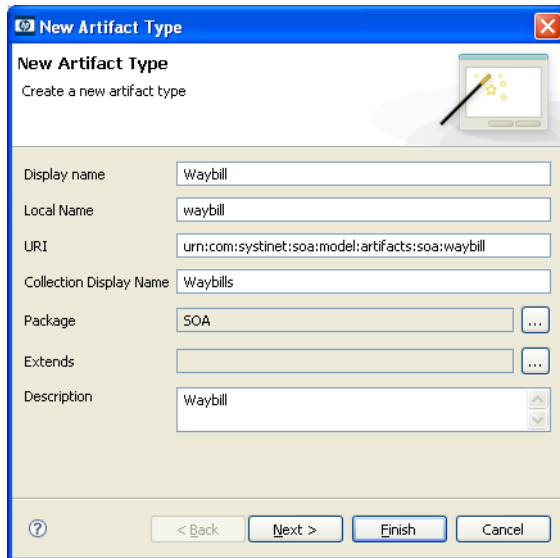
Creating a New Artifact Type or Package

This procedure describes how to create a new artifact type or package in your extension project. For more information on artifact types and packages, see [SDM Elements on page 16](#).

To create a new artifact type:

- 1 To start the **New Artifact Type** dialog:
 - In the **File** menu select **New->Artifact Type/Package**.
 - Alternatively, in the **Extension Explorer** right-click **Artifact Types** and select **New Artifact Type/Package**.
 - Alternatively, in the **Extension Explorer** right-click an artifact package branch and select **New Artifact Type/Package** to create a new artifact type as part of that package.

The **New Artifact Type** or **New Artifact Package** dialog appears:



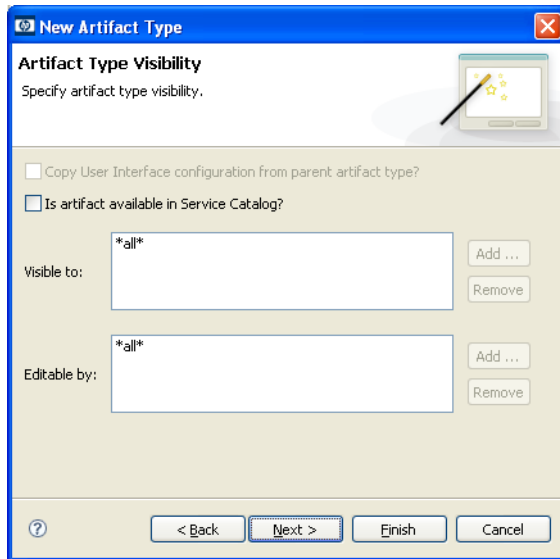
The screenshot shows the 'New Artifact Type' dialog box. The title bar reads 'New Artifact Type'. Below the title bar, the text 'New Artifact Type' is displayed, followed by the instruction 'Create a new artifact type'. The dialog contains several input fields: 'Display name' (Waybill), 'Local Name' (waybill), 'URI' (urn:com:systinet:soa:model:artifacts:soa:waybill), 'Collection Display Name' (Waybills), 'Package' (SOA), 'Extends' (empty), and 'Description' (Waybill). At the bottom of the dialog are buttons for '< Back', 'Next >', 'Finish', and 'Cancel'.

- 2 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|-------------------------|--|
| Display Name | The name of the artifact as it appears in the SOA Systinet UI |
| Local Name | The name of the artifact as it is stored in the extension |
| URI | The identifier for the resource in the configuration |
| Collection Display Name | The plural name of the artifact as it appears in the SOA Systinet UI |
| Package | A browse button allows you to select the parent artifact type that this artifact type belongs to |
| Extends | A browse button allows you to select an artifact type to inherit the properties from |
| Description | The description of the artifact type as it appears in the SOA Systinet UI |

- 3 Do one of the following:
 - Click **Finish** to create the artifact type.
 - Continue to Step 4 to set the visibility of the artifact in the SOA Systinet UI.
- 4 Click **Next**.

The **New Artifact Type/Package** displays visibility parameters:



The screenshot shows a dialog box titled "New Artifact Type" with a close button (X) in the top right corner. The main heading is "Artifact Type Visibility" with the instruction "Specify artifact type visibility." Below this, there are two unchecked checkboxes: "Copy User Interface configuration from parent artifact type?" and "Is artifact available in Service Catalog?". There are two text input fields: "Visible to:" and "Editable by:", both containing the text "*all*". To the right of each input field are "Add ..." and "Remove" buttons. At the bottom of the dialog, there are four buttons: a help button (?), "< Back", "Next >", and "Cancel".

5 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|--|---|
| Copy User Interface configuration from parent artifact type? | If the new artifact type extends an artifact with an existing UI configuration check the box if you want it to inherit these attributes |
| Is the artifact available in Service Catalog? | Check the box if the artifact type is visible in the Service UI |
| Visible to | Use Add and Remove to select viewing permissions in the SOA Systinet UI |
| Editable by | Use Add and Remove to select edit permissions in the SOA Systinet UI |

6 Do one of the following:

- Click **Finish** to create the artifact type.
- Continue to Step 7 to set database parameters.

7 Click **Next**.

The **New Artifact Type/Package** displays database settings.



These settings cannot be changed if the new artifact extends an artifact type that already defines them.

Complete the dialog which contains the following parameters:

| Parameter | Definition |
|---------------------|--|
| Collection name | The name of collection where the artifact instances are stored |
| Database table name | The name of the database table where instances of this artifact are stored |

8 Click **Finish** to create the artifact type.

Modifying the Attributes of an Artifact Type

To edit the main attributes of an artifact type:

- 1 Open the artifact editor in the **General** tab.
- 2 The **General** tab displays three editable segments:
 - **Artifact General Information** contains four editable parameters:

| Parameter | Definition |
|-------------------------|---|
| Display Name | The name of the artifact as it appears in the SOA Systinet UI |
| Collection Display Name | The plural version of the name as it appears in the SOA Systinet UI |
| Description | The description of the artifact type as it appears in the SOA Systinet UI |
| Deprecated | A checkbox indicating whether the artifact is currently active in the extension |

- **Visible to**

Use **Add** and **Remove** to select the perspectives that can see this artifact type within SOA Systinet.

- **Editable by**

Use **Add** and **Remove** to select the perspectives that can amend this artifact type within SOA Systinet.

Modifying the Properties of an Artifact Type

To add or modify the properties and property groups of an artifact type:

- 1 Open the artifact editor and click the **Properties** tab.
- 2 The **Properties** tab contains two modifiable segments:
 - **Properties:**
 - Click **New** to create a new property as an attribute of the artifact type and create the property as described in [Creating a New Property on page 52](#).
 - Click **Add** to select a property to add to the artifact type with a selected cardinality and Tools UI appearance option.
 - Click **Deprecate** to deactivate the property in the artifact type.
 - Click **Undeprecate** to reactivate a deprecated property in the artifact type.
 - Select a property and click **Remove** to remove the property from the artifact type.
 - **Property Groups:**
 - Click **New** to create a new property group as a set of attributes of the artifact type as described in [Creating a New Property Group on page 63](#).
 - Click **Add** to add a property group to the artifact type.
 - Select a property group and click **Remove** to remove the group from the artifact type.

Modifying an Artifact Type in the Services UI

To configure the appearance of an artifact type in the **View Artifact** page in the **Services UI**:

- 1 Open the artifact editor and click the **Service Catalog UI** tab.
- 2 Check the **Is artifact available in Service Catalog?** box to make the artifact type visible in the Services UI.
- 3 If the artifact type is available in the Service UI there are two elements of the **View Artifact** page that can be modified:
 - To modify the layout of the **View Artifact** page see [Modifying the Layout of the View Artifact Page on page 41](#).
 - To modify the contextual actions in the **View Artifact** page see [Modifying the Contextual Actions of an Artifact on page 44](#).

Modifying an Artifact Type in the Tools UI

To modify the appearance of an artifact type in the **View Artifact** and **Browse Artifact** pages of the **Tools UI**:

- 1 Open the artifact editor and click the **Tools UI** tab.
- 2 There are two elements of the **View Artifact** and **Browse Artifact** pages in the **Tools UI** that can be modified:
 - To modify the layout of the **View Artifact** page see [Modifying the Layout of the View Artifact Page on page 41](#).
 - To modify contextual actions in the **View Artifact** page or the **Browse Artifact** page see [Modifying the Contextual Actions of an Artifact on page 44](#).

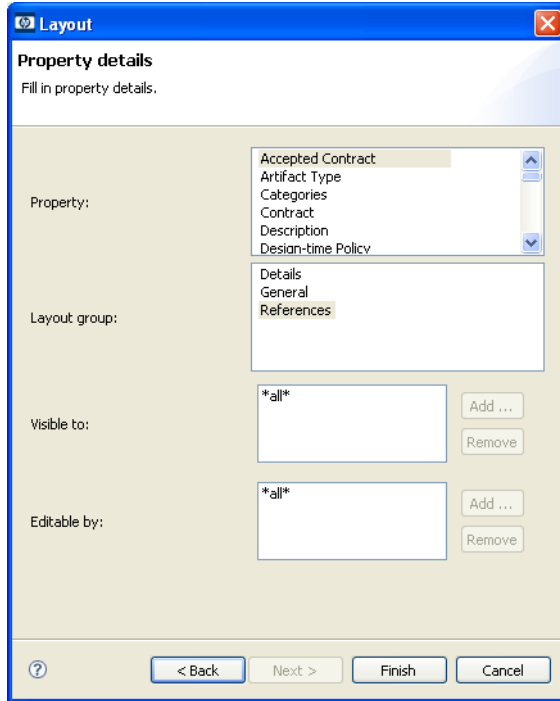
Modifying the Layout of the View Artifact Page

The **View Artifact** page shows the details of an artifact in both the **Services** and **Tools** tabs of SOA Systinet. The elements that appear there can be modified with the Customization Editor.

To modify the layout:

- 1 Open the artifact editor and click the **Service Catalog UI** or **Tools UI** tab according to which view you want to modify.
- 2 In the **Layout** segment:
 - To change the order of elements, select the element and click **Up** and **Down**.
 - To remove an element select it and click **Remove**.
 - To edit an element select it, click **Edit** and modify the same parameters as appear in the **Add** functions.
 - To add an element click **Add**:
 - To add a new layout heading, in which to group properties and components, select **Group**, input a name for the group and click **Finish** to add it to the layout.

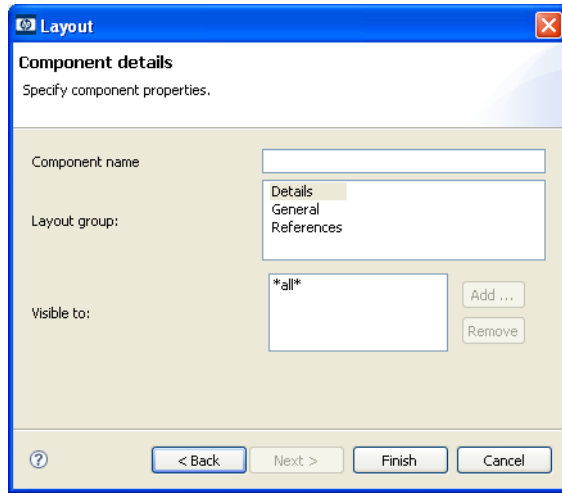
- To add a property:
 - Select **Property** and click **Next** to open the **Layout Property Details** dialog:



- Complete the dialog with the following parameters:

| Parameter | Definition |
|--------------|--|
| Property | Select one of the properties to be displayed in the layout |
| Layout Group | Select the layout heading that the property is part of |
| Visible to | Use Add and Remove to select the perspectives that can see the property |
| Editable by | Use Add and Remove to select the perspectives that can edit the property |

- c Click **Finish** to add the property to the layout.
- To add a new functional UI component:
 - a Select **Component** and click **Next** to open the **Layout Component Details** dialog:



- b Complete the dialog with the following parameters:

| Parameter | Definition |
|----------------|---|
| Component Name | The name of the component as it appears in the SOA Systinet UI |
| Layout Group | Select the layout heading that the component is part of |
| Visible to | Use Add and Remove to select the perspectives that can see the component |
| Editable by | Use Add and Remove to select the perspectives that can edit the component |

- c Click **Finish** to add the component to the layout.



This component must also be created using an external development tool and implemented in the UI configuration. See **Known Issues** in `readme/readme_eclipse.html` in the Customization Editor installation directory for more details.

Modifying the Contextual Actions of an Artifact

At the top of the **View Artifact** page in both **Services** and **Tools** and the **Browse Artifact** page in **Tools** is a section containing sets of **Contextual Actions**. The actions that appear there can be modified with the Customization Editor.

To modify the contextual actions in these pages:

- 1 Open the artifact editor and click the **Service Catalog UI** or **Tools UI** tab according to which view you want to modify.
- 2 In the **Contextual Actions** segment:



In the **Tools UI** tab this segment contains two tabs:

- **Artifact Detail** refers to the **View Artifact** page.
- **Collection** refers to the **Browse Artifact** page.
- To change the order of actions, select the action and click **Up** and **Down**.
- To remove an action select it and click **Remove**.
- To edit an action element select it, click **Edit** and modify the same parameters as appear in the **Add** functions.
- To add an action element click **Add**:
 - To add a contextual menu heading select **UI Group**, input a display name for the group and click **Finish** to add it to the context menu.

- To add a contextual action item:
 - Select **Contextual action item** and click **Next** to open the **Contextual Action Item Details** dialog:

- Complete the dialog which contains the following parameters:

| Parameter | Definition |
|--------------|---|
| Display Name | The name of the action as it appears in the SOA Systinet UI |
| Description | The description of the context action |
| Action | Select the action from the list |
| UI Group | Select the action menu that the action is part of |
| Visible to | Use Add and Remove to select the perspectives that can see the property |
| Parameters | Additional parameters if required by the action item |

- c Click **Finish** to add the element to the context action menu.
- To add a set of contextual actions to the menu:
 - a Select **Contextual action group reference** and click **Next** to open the **Group reference detail** dialog.
 - b Select the **Contextual action group** for the required set of actions and the **UI group** that the actions appears in and click **Finish** to add the set of actions to the contextual menus.

Mapping an Artifact Type to a Registry

Artifacts in SOA Systinet can be mapped to registry entities in a UDDI registry.

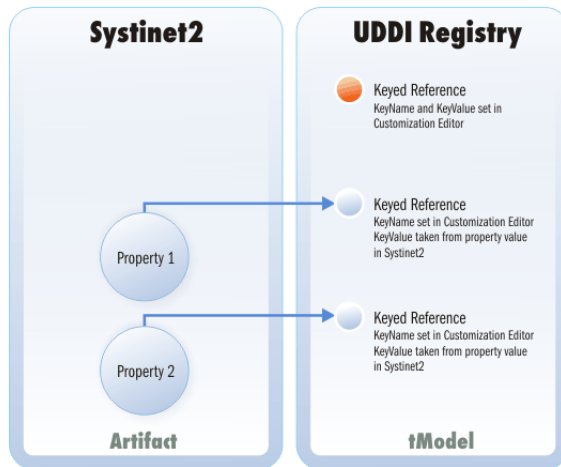
The following artifact types have predefined mappings to registry and cannot be amended:

Table 1. Predefined Registry Mapping

| SDM artifact | UDDI entity | Direction |
|--------------------------|------------------|----------------|
| Organizational Unit | BusinessEntity | Bi-directional |
| Business Service | tModel | Bi-directional |
| Implementation Artifacts | Business Service | Bi-directional |
| Endpoint | BindingTemplate | Bi-directional |

Figure 1 illustrates the mapping of an artifact to a registry entity:

Figure 1. Registry Mapping



To add or modify artifact type mappings to registry entities:

- 1 Open the artifact editor and click the **Registry Mapping** tab.
- 2 The functionality of the **Artifact Mapping** segment and **Property Mapping** is the same:
 - To edit a mapping, select the mapping, click **Edit** and modify the same parameters as appear in the **Add** functionality.
 - To remove a mapping select the mapping and click **Remove**.
 - To add a registry mapping for an artifact:
 - a In the **Artifact Mapping** segment click **Add** to open the **New Artifact Mapping** dialog:

Registry Mapping

New Artifact Mapping
Add a new registry mapping for artifact

Registry: All others [Select]

T-ModelKey: uddi:systinet.com:acl [Add ...]

T-ModelKey version 2: []

Key Name: Business Entity

Key Value: []

Advanced options

Display name: []

Cache content:

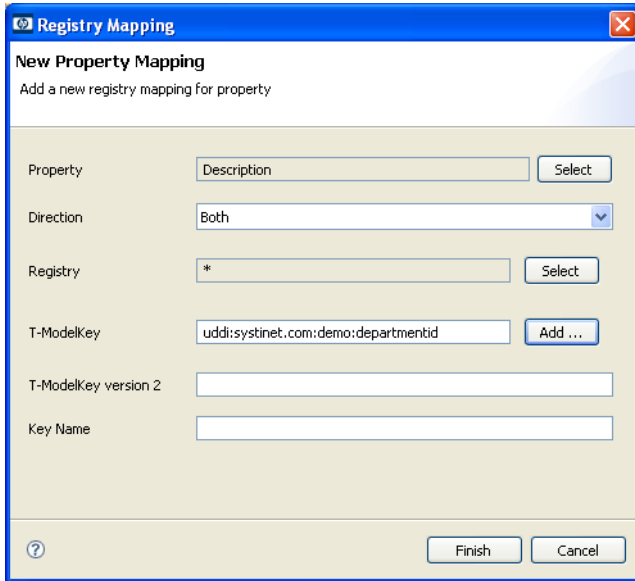
Direction: Both [v]

[?] [Finish] [Cancel]

- b Complete the dialog with the following parameters:

| Parameter | Definition |
|----------------------|--|
| Registry | Use Select to select from the available registries |
| T-ModelKey | Use Add to select from the available taxonomies or input one |
| T-ModelKey version 2 | If you are mapping to a UDDI version 2 registry input a taxonomy key |
| Key Name | The name used to categorize the UDDI entity in the registry |
| Key Value | The value used to categorize the tModel in the registry |
| Display Name | The name of the mapping as it appears in the SOA Systinet UI |
| Cache content | If selected, the content of documents referenced from the UDDI entity are cached in SOA Systinet |
| Direction | Select the direction of the mapping from the drop-down list |

- c Click **Finish** to add the mapping.
- To add a registry mapping for a property:
 - In the **Property Mapping** segment click **Add** to open the **New Property Mapping** dialog:



b Complete the dialog with the following parameters:

| Parameter | Definition |
|----------------------|--|
| Property | Use Select to select from the available properties |
| Direction | Select the direction of the mapping from the drop-down list |
| Registry | Use Select to select from the available registries |
| T-ModelKey | Use Add to select from the available taxonomies or input one |
| T-ModelKey version 2 | If you are mapping to a UDDI version 2 registry input a taxonomy key |
| Key Name | The name used to categorize the UDDI entity in the registry |

c Click **Finish** to add the mapping.

3 Manipulating Properties

The Customization Editor enables you to create, modify and delete properties and property groups in your extension project.

The property procedures are:

- [Creating a New Property on page 52](#) describes how to create properties of types:
 - Primitive
 - Relationship
 - Taxonomy
- [Modifying a Property on page 60](#)
- [Creating a New Property Group on page 63](#)
- [Modifying a Property Group on page 64](#)

[Manipulating Artifact Types on page 33](#) includes these procedures which are also related to properties:

- [Modifying the Properties of an Artifact Type on page 39](#) describes how to add properties to an artifact.
- [Mapping an Artifact Type to a Registry on page 47](#) describes how to add registry mappings to an artifact and its properties.

Creating a New Property

This procedure describes how to create a new property descriptor in your extension project. For more information on properties, see [SDM Elements on page 16](#).

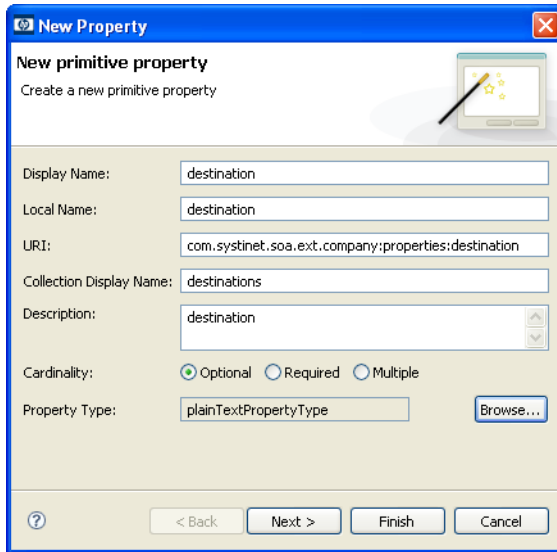
To create a new property:

- 1 To start the **New Property** dialog:
 - In the **File** menu select **New->Property**.
 - Alternatively, in the **Extension Explorer** right-click **Property Descriptors** and select **New Property** and the property type.
 - Alternatively, in the **Extension Explorer** right-click a property type branch and select **New Type Property** to create a property of that type.

The **New Property** dialog appears.

2 A different dialog opens depending on the property type:

- For primitive properties:



The screenshot shows a Windows-style dialog box titled "New Property" with a close button (X) in the top right corner. The dialog has a blue header bar. Below the header, the text "New primitive property" is displayed in bold, followed by the instruction "Create a new primitive property". To the right of this text is a small icon of a computer monitor with a pencil and stars. The main area of the dialog contains several input fields and controls:

- Display Name:** A text box containing the word "destination".
- Local Name:** A text box containing the word "destination".
- URI:** A text box containing the URI "com.systinet.soa.ext.company:properties:destination".
- Collection Display Name:** A text box containing the word "destinations".
- Description:** A text box containing the word "destination" with up and down arrow buttons on the right side.
- Cardinality:** Three radio buttons are present: "Optional" (which is selected), "Required", and "Multiple".
- Property Type:** A text box containing "plainTextPropertyType" and a "Browse..." button to its right.

At the bottom of the dialog, there is a help icon (question mark) on the left and four navigation buttons: "< Back", "Next >", "Finish", and "Cancel".

Complete the dialog which contains the following parameters:

| Parameter | Definition |
|-------------------------|--|
| Display Name | The name of the property as it appears in the SOA Systinet UI |
| Local Name | The name of the property as it is stored in the extension |
| URI | The identifier for the resource in the configuration |
| Collection Display Name | The plural name of the property as it appears in the SOA Systinet UI |
| Description | The description of the property as it appears in the SOA Systinet UI |
| Cardinality | The occurrence of the property in an artifact with options: <ul style="list-style-type: none">• Optional. The property is not required to be populated• Required. The property must be populated• Multiple. The property can occur multiple times with different values |
| Property Type | Use Browse to select a property from the available primitive property types |

- For relationship properties which are created in pairs:

New Property
New relationship property
Create a new relationship property

Display Name: distance

Local Name: distance

URI: com.systinet.soa.ext.company:properties:distance

Collection Display Name: distances

Description: distance

Cardinality: Optional Required Multiple

Relation type: urn:com:systinet:soa:model:propertyTypes:documentRelationship

From Artifact: Contact

To Artifact: Organizational Unit

Inverse Display name: return distance

Inverse Local Name: returnDistance

Inverse URI: com.systinet.soa.ext.company:properties:returnDistance

Inverse Collection Display Name: return distances

Inverse Relationship Description: return distance

Complete the dialog which contains the following parameters:

| Parameter | Definition |
|----------------------------------|--|
| Display Name | The name of the property as it appears in the SOA Systinet UI |
| Local Name | The name of the property as it is stored in the extension |
| URI | The identifier for the resource in the configuration |
| Collection Display Name | The plural name of the property as it appears in the SOA Systinet UI |
| Description | The description of the property as it appears in the SOA Systinet UI |
| Cardinality | The occurrence of the property in an artifact with options: <ul style="list-style-type: none"> • Optional. The property is not required to be populated • Required. The property must be populated • Multiple. The property can occur multiple times with different values |
| Relation Type | Select a type from the drop-down list |
| From Artifact | Use Browse to select the source artifact type of the relationship |
| To Artifact | Use Browse to select the target artifact type of the relationship |
| Inverse Display Name | The name of the inverse relationship property as it appears in the SOA Systinet UI |
| Inverse Local Name | The name of the inverse relationship property as it is stored in the extension |
| Inverse URI | The identifier for the resource in the configuration |
| Inverse Collection Display Name | The plural name of the inverse relationship property as it appears in the SOA Systinet UI |
| Inverse Relationship Description | The description of the inverse relationship property as it appears in the SOA Systinet UI |

- For taxonomy properties:

New Property

New taxonomy property
Create a new taxonomy property

Display Name:

Local Name:

URI:

Collection Display Name:

Description:

Cardinality: Optional Required Multiple

Taxonomy:

Complete the dialog which contains the following parameters:

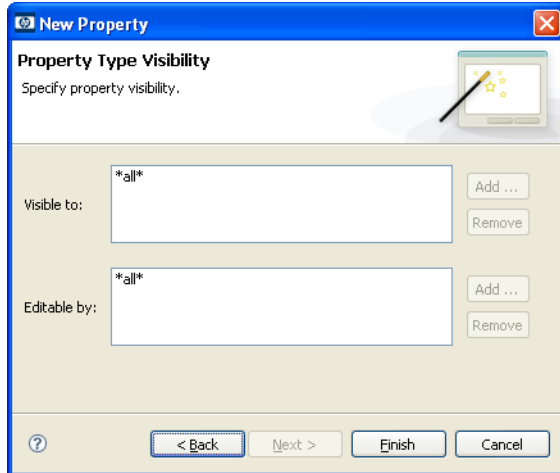
| Parameter | Definition |
|-------------------------|--|
| Display Name | The name of the property as it appears in the SOA Systinet UI |
| Local Name | The name of the property as it is stored in the extension |
| URI | The identifier for the resource in the configuration |
| Collection Display Name | The plural name of the property as it appears in the SOA Systinet UI |
| Description | The description of the property as it appears in the SOA Systinet UI |
| Cardinality | The occurrence of the property in an artifact with options: <ul style="list-style-type: none">• Optional. The property is not required to be populated• Required. The property must be populated• Multiple. The property can occur multiple times with different values |
| Taxonomy | Use Browse to select a taxonomy from the available taxonomies |

3 Do one of the following:

- Click **Finish** to create the property.
- Continue to Step 4 to set property visibility.

- 4 Click **Next**.

The **New Property** dialog displays visibility parameters:



- 5 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|----------------|--|
| Visible to | Use Add and Remove to select viewing permissions in the SOA Systinet UI |
| Editable by | Use Add and Remove to select edit permissions in the SOA Systinet UI |
| Tools UI group | If you are creating the property as an attribute of an artifact select the layout heading in which the property appears in the View Artifact page in the tools UI or select <hidden> if the property is not visible. |

- 6 Click **Finish** to create the new property.

Modifying a Property

To edit a property:

- 1 Open the property editor.
- 2 Edit the general attributes of the property in the **General** tab and the advanced attributes in the **Advanced** tab.

- The **General** tab contains four editable segments:
 - **General** contains four editable parameters:

| Parameter | Definition |
|-------------------------|---|
| Display Name | The name of the property as it appears in the SOA Systinet UI |
| Description | The description of the property as it appears in the SOA Systinet UI |
| Collection Display Name | The plural version of the name as it appears in the SOA Systinet UI |
| Deprecated | A checkbox indicating whether the property is currently active in the extension |

- There are three types of property and the second segment is specific to each:
 - **Property Type**

Primitive properties are not editable and just display the property type.
 - **Relationship**

Use **Add** and **Remove** to select the endpoints of the relationship.
 - **Taxonomy**

Use **Browse** to select a new taxonomy from the extension project.

- **Visible to**

Use **Add** and **Remove** to select the perspectives that can see this property within SOA Systinet.

- **Editable by**

Use **Add** and **Remove** to select the perspectives that can amend this property within SOA Systinet.

- The **Advanced** tab contains three editable segments:

- **Cardinality** contains three editable parameters:

| Parameter | Definition |
|-------------|---|
| Cardinality | <p>The occurrence of the property in an artifact with options:</p> <ul style="list-style-type: none"> • Optional. The property is not required to be populated • Required. The property must be populated • Multiple. The property can occur multiple times with different values |
| MinOccurs | For multiple cardinality enter a minimum number of instances of the property |
| MaxOccurs | For multiple cardinality enter a maximum number of instances of the property. Use unbounded if there is no limit. |

- **Default Values** contains two editable parameters:

| Parameter | Definition |
|------------------------|--|
| Default Value | <p>Default value is described by an XML element which must follow the rules defined by XML schema for the selected property and property type. For example, a primitive plain text property with local name email is defined by</p> <pre><p:email xmlns:p="http://systinet.com/2005/05/soa/model/property">value</p:email></pre> |
| Multiple Default Value | <p>If the property has multiple cardinality then specify more than one default value. For example, a plain text property with local name email and multiple cardinality is defined by</p> <pre><g:emailGroup xmlns:g="http://systinet.com/2005/05/soa/model/propertyGroup" xmlns:p="http://systinet.com/2005/05/soa/model/property"> <p:email>value1</p:email> <p:email>value2</p:email> </g:emailGroup></pre> |

- **Database Sizes** enables you to optionally set the storage size of property elements with **Add**, **Edit** and **Remove** functionality.

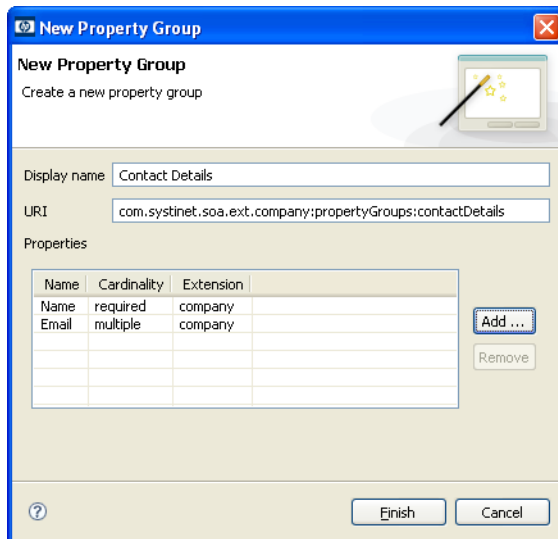
Creating a New Property Group

As many artifacts share sets of the same properties it is useful to create groups of properties and add these to the artifacts instead.

To create a new property group:

- 1 To start the **New Property Group** dialog:
 - In the **File** menu select **New->Property Group**.
 - Alternatively, in the **Extension Explorer** right-click **Property Groups** and select **New Property Group**.
 - Alternatively, in the artifact **Properties** tab click **New** in the **Property Groups** segment to create a new group as a set of attributes for an artifact type.

The **New Property Group** dialog appears:



- 2 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|--------------|--|
| Display Name | The name of the property group as it appears in the SOA Systinet UI |
| URI | The identifier for the resource in the configuration |
| Properties | Use Add and Remove to select the properties in the group |

- 3 Click **Finish** to create the property group.

Modifying a Property Group

To edit a property group:

- 1 Open the property group editor.
- 2 Modify the property group with one of the following functions:
 - Edit the **General** segment to change the display name of the property group.
 - Click **New** under **Properties** to create a new property as part of the group as described in [Creating a New Property on page 52](#).
 - Click **Add** to add a property to the group from the list of available properties.
 - Click **Remove** to remove a property from the group.

4 Configuring the SOA Systinet UI

The main tabs in SOA Systinet can be modified and also the appearance of artifact pages can be altered using the Customization Editor

The procedures for altering the appearance of artifact pages are in [Manipulating Artifact Types on page 33](#). This section deals with creating and modifying UI elements and modifying the appearance of the main SOA Systinet tabs.

The available procedures are:

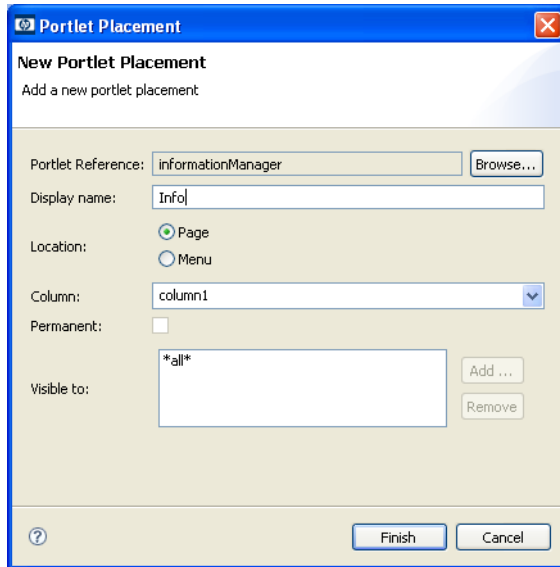
- [Adding Portlets to a SOA Systinet Tab on page 66](#).
- [Adding Navigation Groups to a SOA Systinet Tab on page 68](#).
- [Adding Navigation Actions to a SOA Systinet Tab on page 69](#).
- [Adding Components to a SOA Systinet Tab on page 71](#).
- [Creating a New Contextual or Navigation Action on page 72](#).
- [Modifying a Contextual or Navigation Action on page 75](#).
- [Creating a New Context Action Group on page 76](#).
- [Adding Context Actions to a Group on page 77](#).
- [Creating a New Portlet on page 80](#).
- [Creating a New RSS Feed Portlet on page 81](#).
- [Creating a New Perspective on page 79](#).

Adding Portlets to a SOA Systinet Tab

The Customization Editor can be used to configure the portlets that are available in each tab in SOA Systinet and where they appear on the tab.

To add portlet to a SOA Systinet tab:

- 1 Open the **Portlets** editor for the SOA Systinet tab you want to modify.
- 2 Click **Add** to open the **New Portlet Placement** dialog:



The screenshot shows a dialog box titled "Portlet Placement" with a subtitle "New Portlet Placement". The main instruction is "Add a new portlet placement". The dialog contains the following fields and controls:

- Portlet Reference:** A text box containing "informationManager" and a "Browse..." button.
- Display name:** A text box containing "Info".
- Location:** Two radio buttons: "Page" (selected) and "Menu".
- Column:** A dropdown menu showing "column1".
- Permanent:** An unchecked checkbox.
- Visible to:** A text box containing "*all*" and two buttons: "Add ..." and "Remove".
- Bottom:** A help icon (?), a "Finish" button, and a "Cancel" button.

3 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|-------------------|---|
| Portlet Reference | Click Browse to select from the available portlets |
| Display Name | The name of the portlet as it appears in the SOA Systinet UI |
| Location | There are two options: <ul style="list-style-type: none">• Page. The portlet is open in the main area of the SOA Systinet tab• Menu. The portlet is closed but available to add in the left menu |
| Column | If the portlet is located on the page then use the drop-down list to select which column it appears in |
| Permanent | If Menu is selected check this box to enable multiple instances of the portlet. |
| Visible to | Use Add and Remove to select the perspectives that can see the portlet |

4 Click **Finish** add the portlet to the SOA Systinet tab.

Adding Navigation Groups to a SOA Systinet Tab

The Customization Editor can be used to configure the menu in each SOA Systinet tab. The items in the menu are organized into groups and these groups can be added to the menu instead of individual items.

To add a navigation group to an SOA Systinet tab:

- 1 Open the **Navigation** editor for the SOA Systinet tab you want to modify.
- 2 Click **Add** to open the **Choose Type** dialog.
- 3 Select **Group** and click **Next** to open the **Group Details** dialog.
- 4 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|-------------|--|
| Group Name | The name of the group heading as it appears in the SOA Systinet UI |
| Description | A description of the new navigation group |

- 5 Click **Finish** add the group to the SOA Systinet tab menu.

Adding Navigation Actions to a SOA Systinet Tab

The Customization Editor can be used to configure the menu in each SOA Systinet tab. Each item in the menu corresponds to a navigation action linking to another page in SOA Systinet.

To add a navigation item to an SOA Systinet tab:

- 1 Open the **Navigation** editor for the SOA Systinet tab you want to modify.
- 2 Click **Add** to open the **Choose Type** dialog.
- 3 Select **Item** and click **Next** to open the **Menu Item** dialog:

Menu

Menu item
Fill in menu item details.

Item name: Procurement

Action ID: navigatio.home

Group name: To Do

Description:

Visible to: *all* Add ... Remove

< Back Next > Finish Cancel

- 4 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|------------------|---|
| Item Name | The name of the navigation link as it appears in the SOA Systinet UI |
| Action ID | Select the Navigation Action from the drop-down list |
| Group Name | Select the menu heading that the item is part of from the drop-down list |
| Description | A description of the new navigation item |
| Visible to | Use Add and Remove to select the perspectives that can see the item |

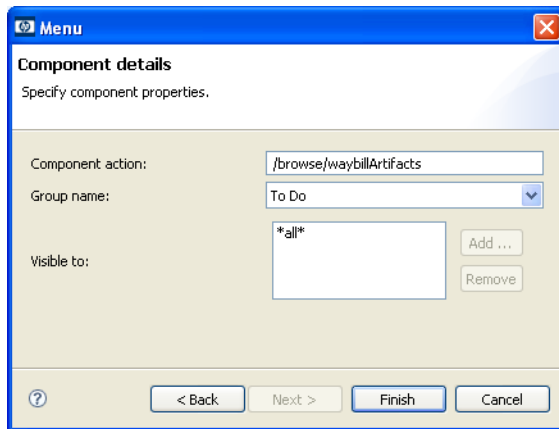
- 5 Click **Finish** add the item to the SOA Systinet tab menu.

Adding Components to a SOA Systinet Tab

The Customization Editor can be used to configure the left-menu in each tab in SOA Systinet. Some items in the menu are links to a component that performs specific functionality.

To add a component to a SOA Systinet tab:

- 1 Open the **Navigation** editor for the SOA Systinet tab you want to modify.
- 2 Click **Add** to open the **Choose Type** dialog.
- 3 Select **Component** and click **Next** to open the **Component Details** dialog:



- 4 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|------------------|--|
| Component Action | The identification of the component |
| Group Name | Select the menu heading that the component is part of from the drop-down list |
| Visible to | Use Add and Remove to select the perspectives that can see the component |

- 5 Click **Finish** add the component to the SOA Systinet tab menu.

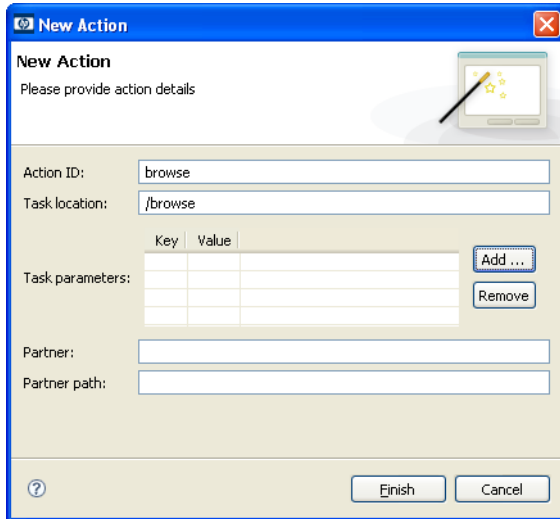
Creating a New Contextual or Navigation Action

Contextual and navigation actions are both links to pages in SOA Systinet

To create a new action:

- 1 To open the **New Action** dialog:
 - Right-click the **Contextual Actions** or **Navigation Actions** branch in the **Extension Explorer** and select **New Type Action**.
 - Alternatively, click **New** in the **Contextual Actions** or **Navigation Actions** editor.

The **New Action** dialog appears:



New Action

Please provide action details

Action ID:

Task location:

| Key | Value |
|-----|-------|
| | |
| | |
| | |

Task parameters:

Partner:

Partner path:

2 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|-----------------|---|
| Action ID | The identification of the contextual or navigation action |
| Task Location | The name of the action that for: <ul style="list-style-type: none">• Contextual actions – renders this link in the context actions menus• Navigation actions – is called when the user clicks the link |
| Task Parameters | Use Add and Remove to select the task parameters for the navigation or contextual action specified in Task Location which consist of: <ul style="list-style-type: none">• Key. The name of the parameter• Value. The value of the parameter |
| Partner | The name of the SSO partner |
| Partner Path | A relative URL pointing to the resource, that is accessed via SSO |

3 Click **Finish** to create the new action.



The full URL is compiled from the base URL retrieved from the DB (where the key is the name of the SSO Partner) and the relative URL.

If SSO is not needed to render the context action / menu item, then only the task location and task parameters are used. If SSO is required (the context action or menu item references a task/resource in a different product than it is rendered in) then the target URL is composed from partner, partner path and task parameters.

For example:

```
<action id="tools.newOther">
  <partner>@platform.sso.identity.id</partner>
  <partnerPath>web/publishing/structuredFile/wizard</partnerPath>
  <task location="/publishing/structuredFile/wizard">
    <parameter key="FirstUIStateID">fileDetails</parameter>
  </task>
</action>
```

The SSO URL is composed from e.g. <http://johngalt:8080/soa/systinet/platform/web/publishing/structuredFile/wizard> + `? + FirstUIStateID=fileDetails` to final form <http://johngalt:8080/soa/systinet/platform/web/publishing/structuredFile/wizard?FirstUIStateID=fileDetails>

Modifying a Contextual or Navigation Action

To modify an action:

- 1 Open the **Contextual Actions** or **Navigation Actions** editor according to which type of action you want to modify.
- 2 Select the action to modify and click **Edit**.
- 3 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|-----------------|--|
| Action ID | The identification of the contextual or navigation action |
| Task Location | The name of the action that for: <ul style="list-style-type: none">• Contextual actions – renders this link in the context actions menus• Navigation actions – is called when the user clicks the link |
| Task Parameters | Use Add and Remove to select the task parameters for the navigation or contextual action specified in Task Location . The parameters consist of: <ul style="list-style-type: none">• Key. The name of the parameter• Value. The value of the parameter |
| Partner | The name of the SSO partner |
| Partner Path | The URL pointing to the resource accessed by the action |

- 4 Click **Finish** to confirm your changes.

Creating a New Context Action Group

As many artifact types share sets of the context actions it is useful to make groups of actions and add these to artifact types instead.

To create a new context action group:

- 1 To open the **Contextual Actions** dialog:
 - In the **Extension Explorer** right-click the **Contextual Action Groups** branch and select **New Context Action Group**.
 - Alternatively, click **Add** in the Contextual Action Groups editor.
- 2 Select **Group of Contextual Actions** and click **Next**.
- 3 Input the display name for the group and click **Finish** to create the contextual action group.

Adding Context Actions to a Group

As many artifact types share sets of the context actions it is useful to make groups of actions and add these to artifact types instead.

To add a context action to a group:

- 1 To open the **Contextual Actions** dialog:
 - In the **Extension Explorer** right-click the **Contextual Action Groups** branch and select **New Context Action Group**.
 - Alternatively, click **New** in the Contextual Action Groups editor.
- 2 Select **Action Item** and click **Next** to open the **Edit Item** dialog:

Edit Item
Please provide item details.

Display name: Implementation View

Description:

Action: standaloneImplementations

Group: Common Actions (View - Common) [Revision History, Ac]

Visible to: *all* Add ... Remove

< Back Next > Finish Cancel

- 3 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|------------------|---|
| Display Name | The name of the context action item |
| Description | A description of the item |
| Action | Select the action to add from the drop-down list |
| Group | Select the group to add the action to from the drop-down list |
| Visible to | Use Add and Remove to select the perspectives that can see the action |

- 4 Click **Finish** add the action to the group.

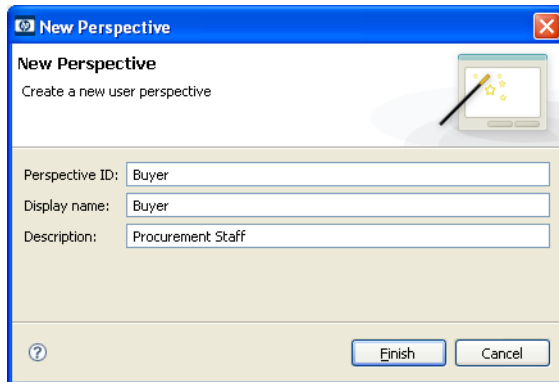
Creating a New Perspective

Perspectives control the views of SOA Systinet that are available to each user.

To create a new perspective:

- 1 To open the **New Perspective** dialog:
 - In the **Extension Explorer** right-click the **Perspectives** branch and select **New Perspective**.
 - Alternatively, click **New** in the **Perspectives** editor.

The **New Perspective** dialog appears:



- 2 Complete the dialog which contains the following parameters:

| Parameter | Definition |
|----------------|--|
| Perspective ID | The name of the perspective in the extension project |
| Display Name | The name of the perspective as it appears in the SOA Systinet UI |
| Description | The description of the perspective as it appears in the UI |

- 3 Click **Finish** to create the perspective.

Creating a New Portlet

Portlets are the components in the main section of SOA Systinet tabs with varying functionality depending on the portlet.

To create a new portlet:

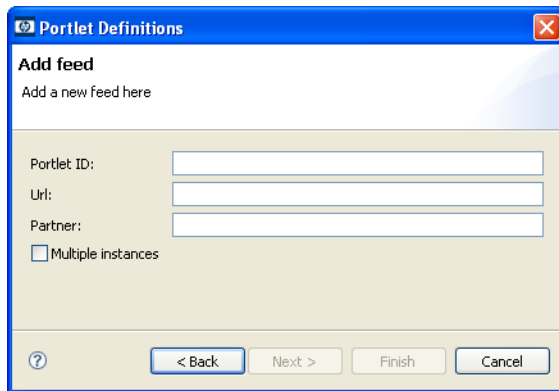
- 1 In the **Extension Explorer** double-click the **Portlets Definitions** branch to open the **Portlets Definitions** editor.
- 2 Click **Add** and select **Portlet** to open the **Add Portlet** dialog.
- 3 Input a name and url for the portlet and click **Finish** to create the portlet.

Creating a New RSS Feed Portlet

The RSS feed portlets in the main section of SOA Systinet tabs display up-to-date views of repository data or links to external RSS feeds.

To create a new RSS Feed Portlet:

- 1 In the **Extension Explorer** double-click the **Portlets Definitions** branch to open the **Portlets Definitions** editor.
- 2 Click **New** and select **Feed** to open the **Add Feed** dialog:



- 3 Complete the dialog which contains the following parameters:


| Parameter | Definition |
|--------------------|---|
| Portlet ID | The identification of the portlet definition |
| Url | The link to the RSS source |
| Partner | The name of the SSO partner |
| Multiple Instances | Check the box to allow multiple instances of the feed |

Click **Finish** to create the feed.

5 Modifying Taxonomies

The Customization Editor controls which taxonomies are available in the extension project. You can create and modify taxonomies using HP SOA Systinet Taxonomy Editor.

To control taxonomies in the extension:

- 1 In the **Extension Explorer** double-click **Taxonomies** to open the **Taxonomies** editor.
 -  If the SOA Systinet server specified in the **Server URL** during configuration (see [Creating an Extension Project on page 21](#)) is running then all the taxonomies in SOA Systinet are added to the list when this editor opens.
- 2 To modify the available taxonomies in your extension project:
 - To import taxonomies from SOA Systinet and add them to the extension click **Import**.
 - To update taxonomies in your extension newer versions from SOA Systinet click **Update**.
 - To remove a taxonomy from the extension, select the taxonomy and click **Remove**.

6 Deploying an Extension to SOA Systinet

HP SOA Systinet Customization Editor does not deploy directly to SOA Systinet. Instead, deploying an extension to SOA Systinet is a two-part process:

- 1 Save your new extension project as a jar file in the SOA Systinet extension folder as described in [Exporting the Extension Project on page 85](#).
- 2 Deploy the extension to SOA Systinet using the Setup Tool as described in [Applying Extensions on page 86](#).

Exporting the Extension Project

Customization Editor displays the entire configuration of your extension plus other extensions it depends on. However, your extension only consists of any modifications and additions that you have made. Only these changes are stored when you save your project as an extension jar file and only these changes are deployed to SOA Systinet

To create your extension package:

- 1 Right-click the extension name in the **Extension Explorer** (see [Navigating the Customization Editor on page 25](#)) and select **Export Extension** to open the export dialog.
- 2 By default, the **Extension Folder** set during configuration (see [Creating an Extension Project on page 21](#)) is selected. Choose a save location and file name and click **Save**.

Applying Extensions

SOA Systinet can be extended with libraries that are added into the deployed .ear files. The setup tool opens the .ear files, applies the extensions and repacks the .ear files.

Extensions to SOA Systinet come from the following sources:

- The HP SOA Systinet Customization Editor
- HP SOA Systinet Policy Manager extensions used to create assertions in HP SOA Systinet Assertion Editor. These extensions are custom validation handlers. You must apply them to the HP SOA Systinet Policy Manager server in order for HP SOA Systinet Policy Manager to use assertions created with them.
- Upgrading from the Visibility Edition to the Standard Edition, which requires HP SOA Systinet Policy Manager and Contract Manager extensions to be added to SOA Systinet.

To apply extensions to SOA Systinet:

- 1 Make sure that all extensions are in the `PLATFORM_HOME/extensions` directory. The setup tool automatically applies all extensions in that directory.
 - ▶ If you are applying extensions to another server substitute `PLATFORM_HOME` with the relevant home directory.
- 2 Stop the server.
- 3 Start the setup tool by executing **PLATFORM_HOME/bin/setup.bat(sh)**.
 - ▶ The application server to which SOA Systinet is deployed must not be running.
- 4 Choose the **Apply Extensions** scenario and click **Next**. The setup tool automatically validates the step by connecting to the server, copying the extensions and merging the SDM configuration.
- 5 Enter the path to the application server installation requiring the extension and any other parameters specific to your AS and click **Next**. The setup tool then confirms this information.

- 6 Click **Next** to complete the process by unpacking the SOA Systinet .ear and .war files, and **Next** to merge the SDM and UI configurations, generating all necessary schemas and repacking the .ear and .war files. Note that this takes some time.
- 7 Click **Finish** to end the process.
- 8 Restart the server.

7 User Interface Reference

Each Customization Editor view in the main and bottom-right section of the editor is described in the following sections:

- [Artifact Editor on page 90](#). Manage your SOA artifacts and customize their properties, appearance and registry mapping.
- [Property Editor on page 103](#). Manage your SOA properties and which perspectives can see and edit them.
- [Property Group Editor on page 107](#). Organize your properties into groups.
- [Navigation Editor on page 109](#). Customize the left-menu navigation links in SOA Systinet tabs.
- [Portlets Editor on page 111](#). Customize which portlets appear in SOA Systinet tabs.
- [Contextual Action Groups Editor on page 113](#). Organize your context actions into groups.
- [Contextual Actions Editor on page 115](#). Manage the context actions available in the SOA Systinet UI.
- [Navigation Actions Editor on page 116](#). Manage the navigation links available in SOA Systinet.
- [Portlets Definitions Editor on page 118](#). Manage the portlets available in SOA Systinet.
- [Perspectives Editor on page 117](#). Customize the perspectives available in SOA Systinet.
- [Taxonomies Editor on page 119](#). Customize the taxonomies available in SOA Systinet.
- [project.xml Editor on page 120](#). Manage your extension project.
- [Messages View on page 123](#). View the action log as you customize your extension project.
- [Search View on page 124](#). View the results of usage and entity searches.

Artifact Editor

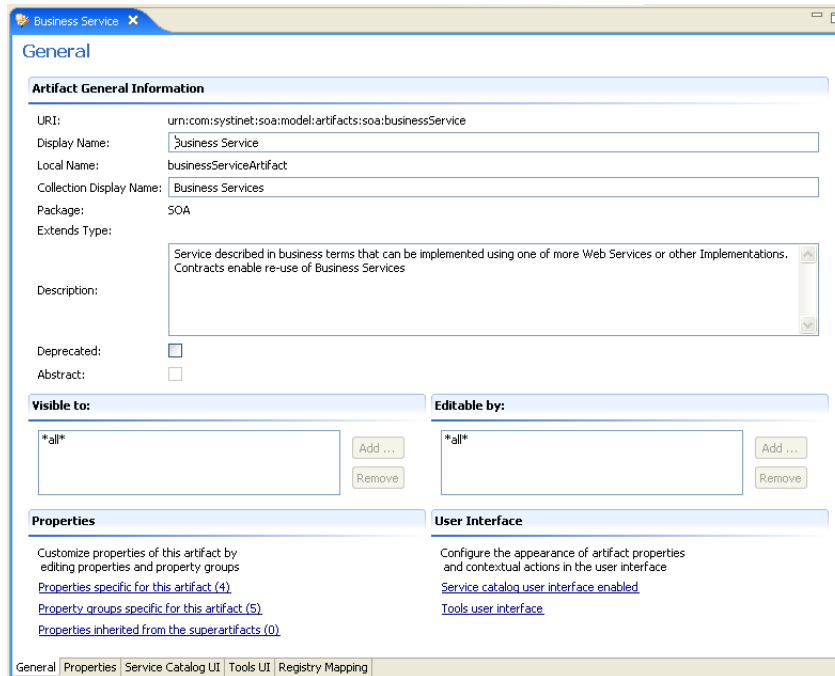
Artifacts are the basic building blocks of SOA and represent all types of entity. This editor allows you to modify the parameters, properties and appearance of an artifact type within SOA Systinet. Each artifact type and package has an editor with the artifact name as the title containing five tabs described in the following sections:

- **Artifact – General Tab on page 91.** The main attributes of the artifact type
- **Artifact – Properties Tab on page 93.** The properties of the artifact type
- **Artifact – Service Catalog UI Tab on page 95.** The format of the View Artifact page in the SOA Systinet UI
- **Artifact – Tools UI Tab on page 98.** The format of the View Artifact and Browse Artifact pages in the SOA Systinet UI
- **Artifact – Registry Mapping Tab on page 101.** The mapping of the artifact to registry entities

Artifact – General Tab

The **General** tab displays the general attributes of the artifact and allows you to modify some of them:

Figure 1. Business Service Editor – General Tab



The screenshot shows the 'Business Service' editor window with the 'General' tab selected. The window title is 'Business Service'. The 'General' tab is divided into several sections:

- Artifact General Information:** This section contains several input fields: 'URI' (urn:com:systinet:soa:model:artifacts:soa:businessService), 'Display Name' (business Service), 'Local Name' (businessServiceArtifact), 'Collection Display Name' (Business Services), and 'Package' (SOA). There is also an 'Extends Type' field.
- Description:** A text area containing the text: 'Service described in business terms that can be implemented using one of more Web Services or other Implementations. Contracts enable re-use of Business Services'.
- Deprecated:** A checkbox that is currently unchecked.
- Abstract:** A checkbox that is currently unchecked.
- Visible to:** A list containing '*all*' with 'Add ...' and 'Remove' buttons.
- Editable by:** A list containing '*all*' with 'Add ...' and 'Remove' buttons.
- Properties:** A section with instructions: 'Customize properties of this artifact by editing properties and property groups'. It includes links for 'Properties specific for this artifact (4)', 'Property groups specific for this artifact (5)', and 'Properties inherited from the superartifacts (0)'.
- User Interface:** A section with instructions: 'Configure the appearance of artifact properties and contextual actions in the user interface'. It includes links for 'Service catalog user interface enable' and 'Tools user interface'.

At the bottom of the window, there is a tabbed interface with the following tabs: 'General', 'Properties', 'Service Catalog UI', 'Tools UI', and 'Registry Mapping'. The 'General' tab is currently active.

The general tab contains five segments:

- **Artifact General Information.** There are eight parameters related to artifacts shown in this segment. They are described in the table below:

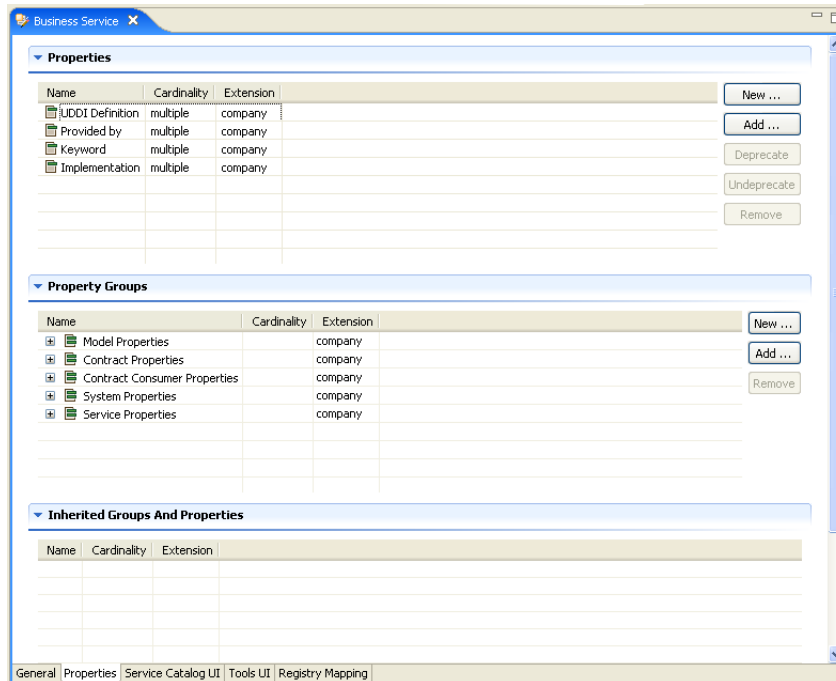
| Parameter | Definition |
|-------------------------|--|
| URI | The identifier for the resource in the configuration |
| Display Name | The name of the artifact as it appears in the SOA Systinet UI |
| Local Name | The name of the artifact as it is stored in the extension |
| Collection Display Name | The plural version of the name as it appears in the SOA Systinet UI |
| Package | The parent artifact type that this artifact type belongs to |
| Extends Type | The artifact type that this artifact type inherits the properties of |
| Description | The description of the artifact type as it appears in the SOA Systinet UI |
| Deprecated | A checkbox indicating whether the artifact is currently active in the extension |
| Abstract | A checkbox indicating whether the artifact is an artifact package which does not have actual instances in the repository |

- **Visible to.** A simple list of perspectives with **Add** and **Remove** functionality to select which perspectives can see this artifact type within SOA Systinet.
- **Editable by.** A simple list of perspectives with **Add** and **Remove** functionality to select which perspectives can amend this artifact type within SOA Systinet.
- **Properties.** A summary of the different properties that the artifact has. Each of the links opens the **Properties** tab described in [Artifact – Properties Tab on page 93](#).
- **User Interface.** A pair of links to the **Service Catalog UI** and **Tools UI** tabs where the appearance of the artifact in the SOA Systinet UI can be amended.

Artifact – Properties Tab

The **Properties** tab displays all the properties of the artifact and enables you to add and remove them:

Figure 2. Business Service Editor – Properties Tab



This tab contains into three segments:

- **Properties.** This is the list of individual properties of the artifact. On the right are five buttons:
 - **New** opens the **New Property** dialog described in [Creating a New Property on page 52](#).
 - **Add** adds a property to the artifact type from the list of available property descriptors, set its cardinality, and its location on the **View Artifact** page.
 - **Deprecate** deactivates the property in the artifact type.

- **Undeprecate** reactivates the property in the artifact type.
 - **Remove** removes the selected property from the artifact type.
- **Property Groups.** This is the list of the property groups of the artifact. On the right are three buttons:
 - **New** opens the **New Property Group** dialog described in [Creating a New Property Group on page 63](#)
 - **Add** adds a property group to the artifact type from the list of available property groups.
 - **Remove** removes the selected property group from the artifact type.
- **Inherited Groups and Properties.** If the artifact is based on another artifact then this segment displays the inherited artifact and its properties and groups.

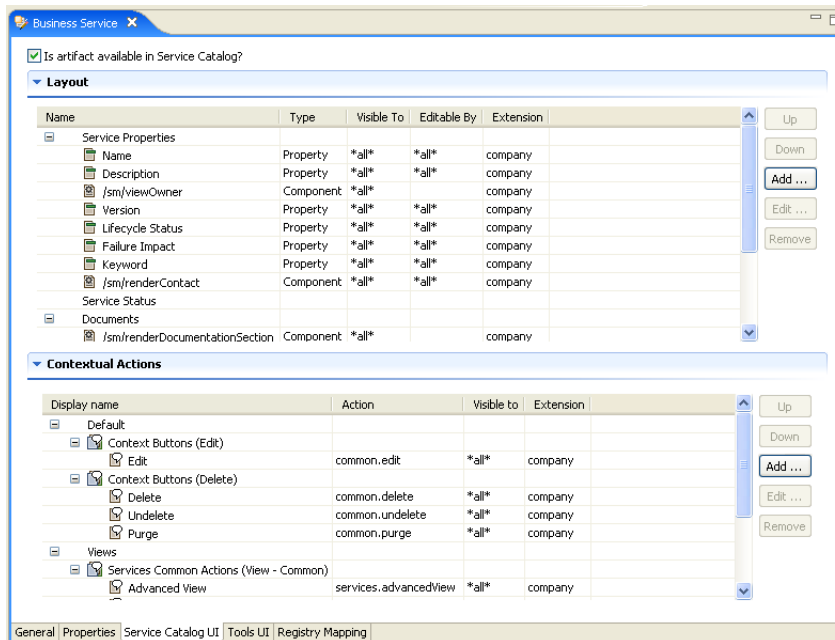
There are three parameters related to properties shown in these segments:

| Parameter | Definition |
|-------------|--|
| Name | The name of the property as it appears in the SOA Systinet UI |
| Cardinality | The occurrence of the property in an artifact with options: <ul style="list-style-type: none"> • Optional. The property is not required to be populated • Required. The property must be populated • Multiple. The property can occur multiple times with different values |
| Extension | Which extension this property is part of |

Artifact – Service Catalog UI Tab

The **Service Catalog UI** tab displays all the attributes of the artifact as they appear in the **Service View** page of the Service Catalog in SOA Systinet and allows them to be amended:

Figure 3. Business Service Editor – Service Catalog UI Tab



There is a checkbox to control whether the artifact is available within the Service Catalog and if this is checked there are two segments to control its appearance:

- **Layout.** This is the list of elements and properties of the artifact as they appear in the **Service View** page in the Service Catalog. The elements are organized into groups that match the sub-headings on the **Service View** page. On the right are five buttons:
 - **Up** moves the element up in the **Service View** page.
 - **Down** moves the element down in the **Service View** page.

- **Add** adds a property, component or layout group to the **Service View** page as described in [Modifying the Layout of the View Artifact Page on page 41](#).
- **Edit** enables you to edit the name of a sub-heading group or the editable by and visible to attributes of a property.
- **Remove** removes the element from the **Service View** page.

There are five parameters related to page elements shown in this segment:

| Parameter | Definition |
|-------------|---|
| Name | The name of the page element as in appears in the SOA Systinet UI |
| Type | The type of page element with options: <ul style="list-style-type: none"> • Property is a property of the artifact type • Component is a SOA Systinet UI component • Relationship is a relationship property of the artifact type |
| Visible to | The perspectives that can see this page element |
| Editable by | The perspectives that can edit this page element in SOA Systinet |
| Extension | Which extension this property is part of |

- **Contextual Actions.** These are the options that appear in the context action menus at the top of the **Service View** page. There are five buttons on the right:
 - **Up** moves the action up in the list.
 - **Down** moves the action down in the list.
 - **Add** adds a new context action to this artifact as described in [Modifying the Contextual Actions of an Artifact on page 44](#).
 - **Edit** enables you to edit the context action with the same parameters as **Add** functionality.
 - **Remove** removes the action from context action menus.

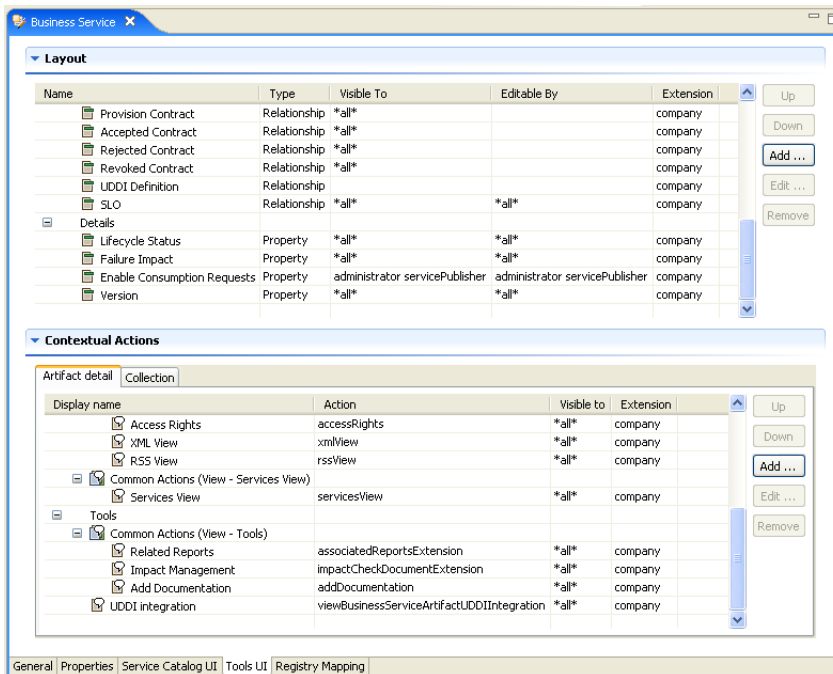
There are four parameters related to properties shown in this segment:

| Parameter | Definition |
|------------------|---|
| Display Name | The name of the action as it appears in the SOA Systinet UI |
| Action | Contextual action identification in the extension |
| Visible to | The perspectives that can see this action |
| Extension | Which extension this property is part of |

Artifact – Tools UI Tab

The **Tools UI** tab displays all the attributes of the artifact as they appear in the **View Artifact** and **Browse Artifact** pages in Tools in SOA Systinet and allows them to be amended:

Figure 4. Business Service Editor – Tools UI Tab



There are two segments to control its appearance:

- **Layout.** This is the list of elements and properties of the artifact as they appear in the View Artifact page in Tools. The elements are organized into groups that match the sub-headings on the View Artifact page. On the right are five buttons:
 - **Up** moves the element up in the **View Artifact** page.
 - **Down** moves the element down in the **View Artifact** page.

- **Add** adds a property, component or layout group to the **View Artifact** page as described in [Modifying the Layout of the View Artifact Page on page 41](#).
- **Edit** enables you to edit the name of a sub-heading group or the editable by and visible to attributes of a property.
- **Remove** removes the element from the **View Artifact** page.

There are five parameters related to page elements shown in this segment:

| Parameter | Definition |
|-------------|---|
| Name | The name of the page element as in appears in the SOA Systinet UI |
| Type | The type of page element with options: <ul style="list-style-type: none"> • Property is a property of the artifact type • Component is a SOA Systinet UI component • Relationship is a relationship property of the artifact type |
| Visible to | The perspectives that can see this page element |
| Editable by | The perspectives that can edit this page element in SOA Systinet |
| Extension | Which extension this page element is part of |

- **Contextual Actions.** These are the options that appear in context actions at the top of artifact pages. In the **Tools UI** tab there are two tabs in this segment. **Artifact Detail** shows the actions for the **View Artifact** page and **Collection** shows the actions for the **Browse Artifact** page. There are five buttons on the right:
 - **Up** moves the action up in the list.
 - **Down** moves the action down in the list.
 - **Add** adds a new context action to this artifact as described in [Modifying the Contextual Actions of an Artifact on page 44](#).

- **Edit** enables you to edit the context action with the same parameters as **Add** functionality.
- **Remove** removes the action from context action menus.

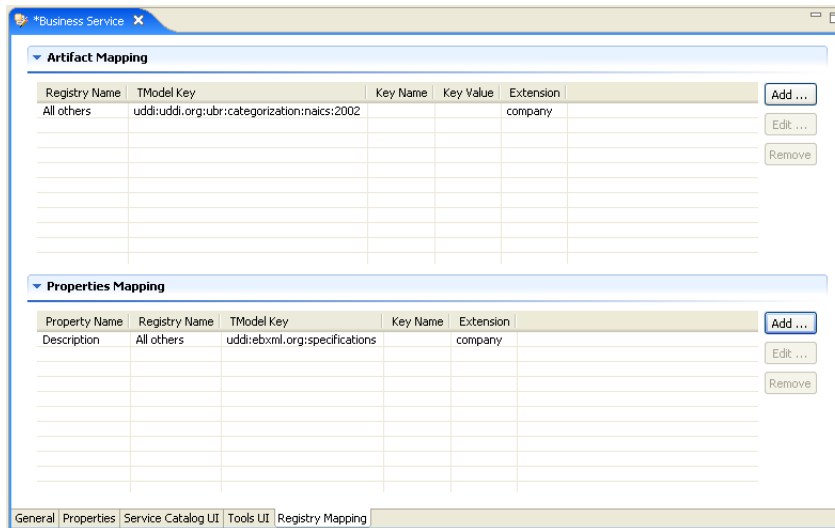
There are four parameters related to context actions shown in this segment.

| Parameter | Definition |
|------------------|---|
| Display Name | The name of the action as it appears in the SOA Systinet UI |
| Action | Contextual action identification in the extension |
| Visible to | The perspectives that can see this action |
| Extension | Which extension this context action is part of |

Artifact – Registry Mapping Tab

The **Registry Mapping** tab displays any mappings between the artifact and entities in registries and allows you to create, edit and remove them:

Figure 5. Business Service – Registry Mapping Tab



It is split into two segments:

- **Artifact Mapping.** This is the list of registry entities that represent the artifact in registries. On the right are three buttons:
 - **Add** adds a registry mapping as described in [Mapping an Artifact Type to a Registry on page 47](#).
 - **Edit** edits the mapping as described in [Mapping an Artifact Type to a Registry on page 47](#).
 - **Remove** removes the mapping from the artifact.

There are five parameters related to registry mappings shown in this segment:

| Parameter | Definition |
|---------------|---|
| Registry Name | The registry that the artifact type is mapped to |
| TModel Key | The taxonomy key used to categorize the UDDI entity in the registry |
| Key Name | The name used to categorize the UDDI entity in the registry |
| Key Value | The value used to categorize the UDDI entity in the registry |
| Extension | Which extension this mapping is part of |

- **Property Mappings.** This is the list of the properties of the artifact and if they are mapped to a registry. On the right are three buttons:
 - **Add** adds a new registry mapping for the selected property as described in [Mapping an Artifact Type to a Registry on page 47](#).
 - **Edit** edits a property mapping as described in [Mapping an Artifact Type to a Registry on page 47](#).
 - **Remove** removes a mapping from the selected property.

There are five parameters related to properties shown in this segment:

| Parameter | Definition |
|---------------|---|
| Property Name | The name of the property |
| Registry Name | The registry that the artifact type property is mapped to |
| TModel Key | The taxonomy key used to categorize the UDDI entity in the registry |
| Key Name | The name used to categorize the UDDI entity in the registry |
| Extension | Which extension this property is part of |

Property Editor

Properties are attributes of artifacts. The property editor allows you to modify the properties in your extension project. Each property has an editor with the property name as the title containing two tabs described in the following sections:

- **Property – General Tab on page 103.** The main attributes of the property
- **Property – Advanced Tab on page 105.** The advanced attributes of the property

Property – General Tab

The **General** tab displays the general attributes of the artifact and enables you to modify some of them:

Figure 6. Description Editor – General Tab

The screenshot shows a window titled "Description" with a "General" tab selected. The interface is divided into several sections:

- General:** Contains fields for "Display Name" (value: description), "Local Name" (value: description), "URI" (value: urn:com:systinet:soa:model:properties:description), "Description" (a large text area with the value "Description of the artifact, what it is used for etc."), and "Collection Display Name" (value: Description). There is also a "Deprecated" checkbox which is unchecked.
- Property Type:** A label "Property Type:" followed by the value "textareaPropertyType".
- Visible to:** A text input field containing "*all*" with "Add ..." and "Remove" buttons.
- Editable by:** A text input field containing "*all*" with "Add ..." and "Remove" buttons.

At the bottom of the window, there are two tabs: "General" (selected) and "Advanced".

This tab contains four segments:

- **General.** There are seven parameters related to properties shown in this segment:

| Parameter | Definition |
|-------------------------|---|
| Display Name | The name of the property as it appears in the SOA Systinet UI |
| Local Name | The name of the property as it is stored in the extension |
| URI | The identifier for the resource in the configuration |
| Description | The description of the property as it appears in the SOA Systinet UI |
| Collection Display Name | The plural version of the name as it appears in the SOA Systinet UI |
| Deprecated | A checkbox indicating whether the property is currently active in the extension |

- **Property Type, Relationship, or Taxonomy.** There are three types of property and this segment is specific to each:
 - **Property Type.** The property type for primitive properties.
 - **Relationship.** This segment displays the source and target artifacts that this relationship links and some parameters of the inverse relationship. On the right are two sets of two buttons for altering the source and target artifacts:
 - **Add** selects an artifact in the extension to source or target.
 - **Remove** removes the relationship from a source or target artifact.
 - **Taxonomy.** The taxonomy that contains the available options for this property with **Browse** to select a new taxonomy from the extension project.
- **Visible to.** A list of perspectives with **Add** and **Remove** functionality to select which perspectives can see this property within SOA Systinet.
- **Editable by.** A simple list of perspectives with **Add** and **Remove** functionality to select which perspectives can amend this property within SOA Systinet.

Property – Advanced Tab

The **Advanced** tab displays the advanced attributes of the property and allows you to modify them:

Figure 7. Description Editor Advanced Tab

The screenshot shows a window titled "Description" with a close button. The interface is divided into three main sections:

- Cardinality:** Contains three radio buttons: "Optional", "Required", and "Multiple". The "Multiple" option is selected. Below are two text input fields: "MinOccurs" with the value "0" and "MaxOccurs" with the value "unbounded".
- Default Values:** Contains two text input fields: "Default Value:" and "Multiple Default Value:". Each field has a vertical scroll bar on its right side.
- Database Sizes:** Contains a table with three columns: "Name", "Size", and "Extension". The table is currently empty. To the right of the table are three buttons: "Add ...", "Edit ...", and "Remove".

At the bottom of the window, there are two tabs: "General" and "Advanced", with "Advanced" being the active tab.

This tab contains three segments:

- **Cardinality.** There are three parameters related to property cardinality shown in this segment:

| Parameter | Definition |
|-------------|--|
| Cardinality | The occurrence of the property in an artifact with options: <ul style="list-style-type: none">• Optional. The property is not required to be populated• Required. The property must be populated• Multiple. The property can occur multiple times with different values |
| MinOccurs | If a property has multiple cardinality this parameter is the minimum occurrences of the property in an artifact |
| MaxOccurs | If a property has multiple cardinality this parameter is the maximum occurrences of the property in an artifact. Use unbounded if there is no limit. |

- **Default Values.** There are two parameters related to properties shown in this segment:

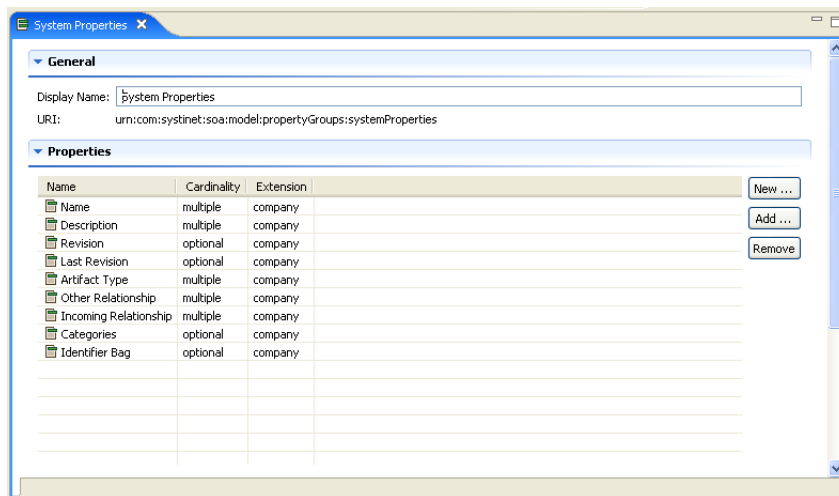
| Parameter | Definition |
|------------------------|--|
| Default Value | An XML extract defining the default value |
| Multiple Default Value | An XML extract defining default values in the case of multiple cardinality |

- **Database Sizes** displays optional database sizing for property elements with **Add**, **Edit** and **Remove** functionality.

Property Group Editor

Properties can be organized into groups. The property group editor allows you to add and remove properties from a property group. Each property group has an editor with the property group name as the title:

Figure 8. System Properties Editor



The editor contains two collapsible segments:

- **General** enables you to change the **Display Name** and **URI** of the property group.
- **Properties** enables you to manage the property group.

On the right are three buttons:

- **New** creates a new property as described in [Creating a New Property Group on page 63](#).
- **Add** adds a property to the group from the list of available properties.
- **Remove** removes the selected property from this property group.

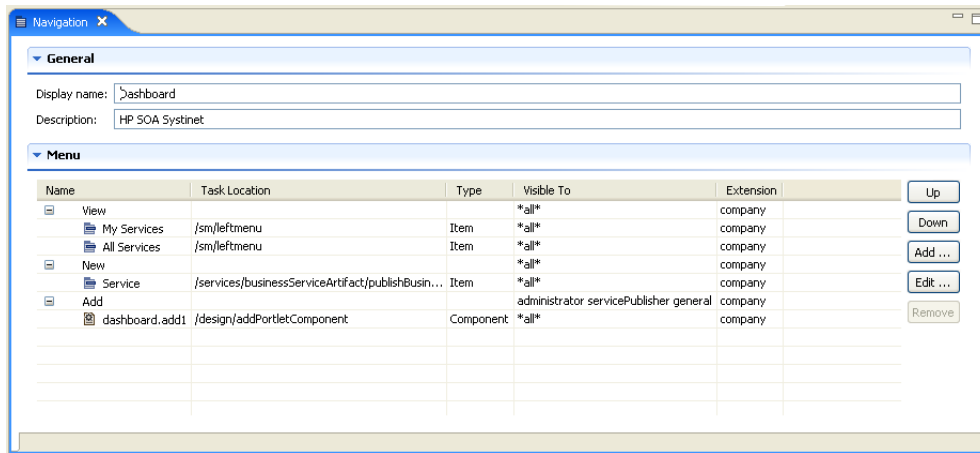
There are three parameters related to properties described in the table below:

| Parameter | Definition |
|------------------|--|
| Name | The name of the property |
| Cardinality | The occurrence of the property in an artifact with options: <ul style="list-style-type: none">• Optional. The property is not required to be populated• Required. The property must be populated• Multiple. The property can occur multiple times with different values |
| Extension | Which extension this property is part of |

Navigation Editor

Navigation actions are the links between pages in SOA Systinet. The navigation editor allows you to configure the left menu and title of SOA Systinet tabs:

Figure 9. Dashboard Navigation Editor



The editor contains two collapsible segments:

- **General** enables you to change the **Display Name** and **Description** of the SOA Systinet tab.
- **Menu** enables you to configure the left menu of the SOA Systinet tab. The navigation items are arranged into headings and links.

On the right are five buttons:

- **Up** moves the selected item up in the menu.
- **Down** moves the selected item down in the menu.
- **Add** contains three options:

- **Item** adds a navigation item to the menu as described in [Adding Navigation Actions to a SOA Systinet Tab on page 69](#).
- **Component** adds a component to the menu as described in [Adding Components to a SOA Systinet Tab on page 71](#).
- **Group** adds a new heading to the menu as described in [Adding Navigation Groups to a SOA Systinet Tab on page 68](#).
- **Edit** opens one of three edit dialogs depending on the item selected:
 - **Item** edits a navigation item with the same parameters described in [Adding Navigation Actions to a SOA Systinet Tab on page 69](#).
 - **Component** edits a component with the same parameters described in [Adding Components to a SOA Systinet Tab on page 71](#).
 - **Group** edits a menu heading with the same parameters described in [Adding Navigation Groups to a SOA Systinet Tab on page 68](#).
- **Remove** removes the selected navigation item from the SOA Systinet tab menu.

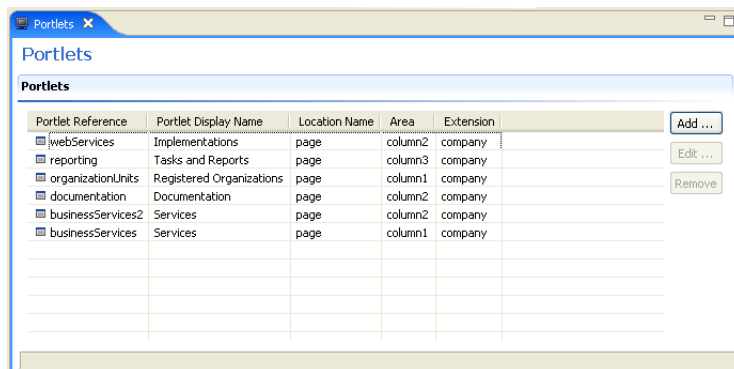
There are five parameters related to context actions in this segment:

| Parameter | Definition |
|---------------|--|
| Name | The name of the navigation item as it is stored in the extension |
| Task Location | The identification of SOA Systinet UI task invoked by this menu item |
| Type | Item or Component |
| Visible to | Which perspectives can see this item |
| Extension | Which extension this navigation item is part of |

Portlets Editor

There is a separate portlets editor for each tab within SOA Systinet. These allow you to control which portlets are available in each tab and where they appear.

Figure 10. Dashboard Portlets Editor



On the right are three buttons:

- **Add** opens the **New Portlet Placement** dialog described in [Adding Portlets to a SOA Systinet Tab on page 66](#).
- **Edit** opens the **Edit Portlet Placement** dialog for the selected portlet with the same parameters described in [Adding Portlets to a SOA Systinet Tab on page 66](#).
- **Remove** removes the selected portlet from the SOA Systinet tab.

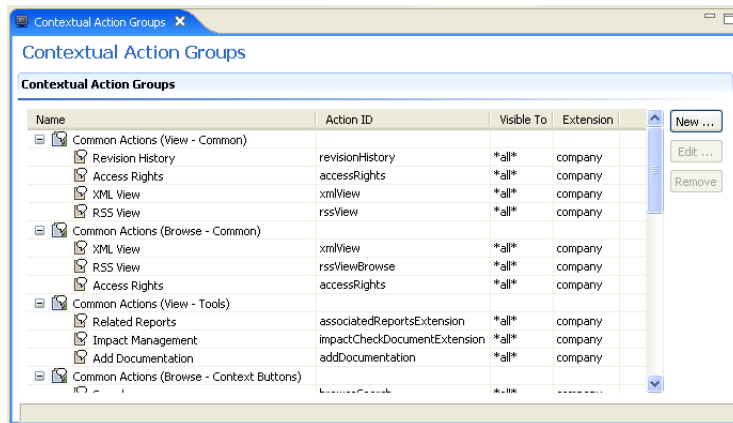
There are five parameters related to portlet placement:

| Parameter | Definition |
|----------------------|---|
| Portlet Reference | The identification of the portlet in the extension |
| Portlet Display Name | The name of the portlet as it appears on the SOA Systinet tab |
| Location Name | There are two options: <ul style="list-style-type: none">• page. The portlet is open in the main area of the SOA Systinet tab• menu. The portlet is closed but available to add in the left menu |
| Area | If the portlet is open this specifies which column it appears in on the SOA Systinet tab |
| Extension | Which extension this portlet is part of |

Contextual Action Groups Editor

Context actions can be grouped in order to add many actions to a UI element at once. The contextual action groups editor allows you to create, edit and remove context action groups from your extension project:

Figure 11. Contextual Action Groups Editor



On the right are three buttons:

- **Add** contains two options:
 - **Action Item** adds a context action to a group as described in [Adding Context Actions to a Group on page 77](#).
 - **Group of Contextual Actions** adds a new context action group as described in [Creating a New Context Action Group on page 76](#).
- **Edit** has two functions depending on which item in the editor is highlighted:
 - For a group you can edit the name.
 - For an item the **Edit Item** dialog is opened as described in [Modifying a Contextual or Navigation Action on page 75](#).

- **Remove** deletes the selected context action item from your extension project.

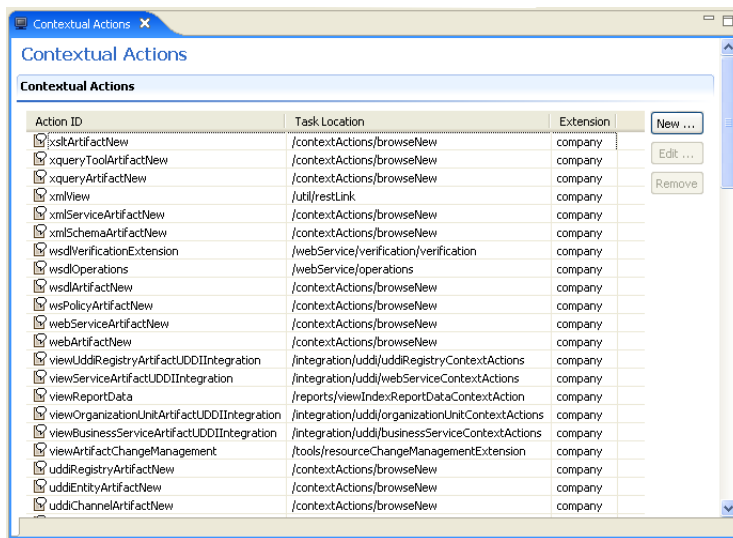
There are four parameters related to context actions:

| Parameter | Definition |
|------------------|---|
| Name | The name of the action group as it is stored in the extension |
| Action | The reference to the contextual action in the extension |
| Visible to | Which perspectives can see this item |
| Extension | Which extension this perspective is part of |

Contextual Actions Editor

Context actions are options available in the SOA Systinet UI for artifact and service pages. The contextual actions editor allows you to create, edit and remove context actions from your extension project:

Figure 12. Contextual Actions Editor



On the right are three buttons:

- **New** opens the **New Action** dialog described in [Creating a New Contextual or Navigation Action on page 72](#).
- **Edit** opens the **Edit Action** dialog for the selected item as described in [Modifying a Contextual or Navigation Action on page 75](#).
- **Remove** deletes the selected context action from your extension project.

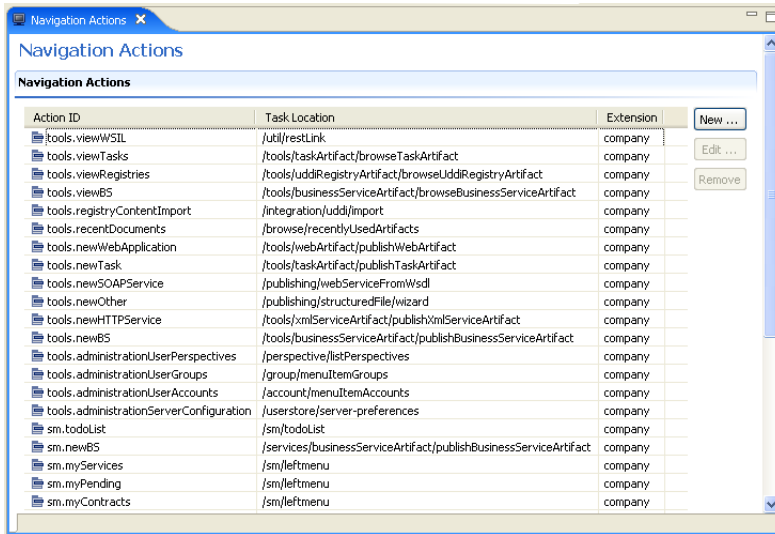
There are three parameters related to context actions:

| Parameter | Definition |
|-----------|---|
| Name | The name of the context action as it is stored in the extension |
| Action | The reference to the contextual action in the extension |
| Extension | Which extension this perspective is part of |

Navigation Actions Editor

Navigation actions are the links available in the menus of SOA Systinet tabs. The navigation actions editor allows you to create, edit and remove navigation actions from your extension project:

Figure 13. Navigation Actions Editor



On the right are three buttons:

- **New** opens the **New Action** dialog described in [Creating a New Contextual or Navigation Action on page 72](#).

- **Edit** opens the **Edit Action** dialog for the selected item as described in [Modifying a Contextual or Navigation Action on page 75](#).
- **Remove** deletes the selected navigation action from your extension project.

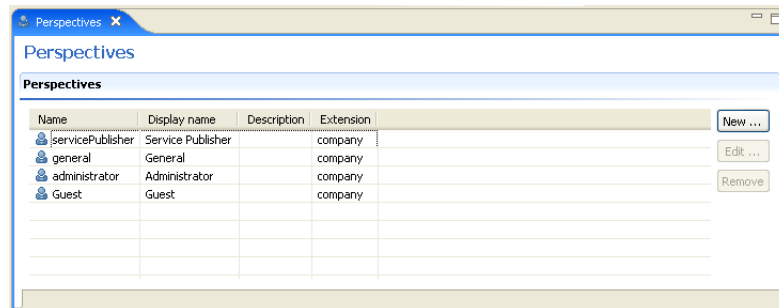
There are three parameters related to context actions described in the table below:

| Parameter | Definition |
|---------------|--|
| Name | The name of the navigation action as it is stored in the extension |
| Task Location | The identification of SOA Systinet UI task invoked by this menu item |
| Extension | Which extension this perspective is part of |

Perspectives Editor

Perspectives are the way SOA Systinet controls what users can view. The perspectives editor allows you to create, edit and remove perspectives from your extension project:

Figure 14. Perspectives Editor



On the right are three buttons:

- **New** opens the **New Perspective** dialog described in [Creating a New Perspective on page 79](#).
- **Edit** opens the **Edit Perspective** dialog for the selected perspective with the same parameters described in [Creating a New Perspective on page 79](#).

- **Remove** deletes the perspective from your extension project.

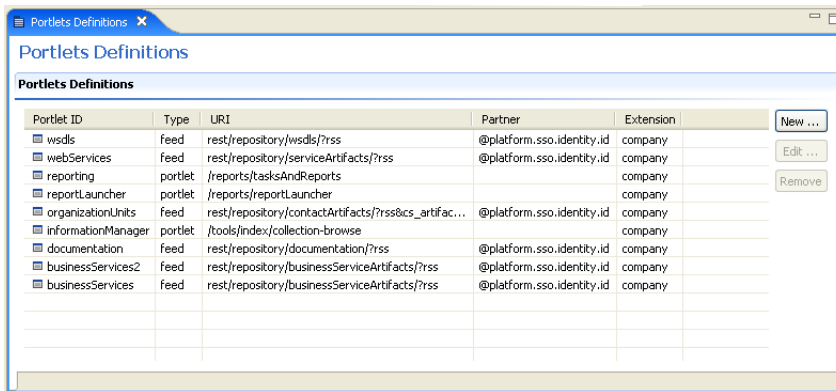
There are four parameters related to perspectives:

| Parameter | Definition |
|--------------|---|
| Name | The name of the perspective as it is stored in the extension |
| Display Name | The name of the perspective as it appears in the SOA Systinet UI |
| Description | The description of the perspective as it appears in the SOA Systinet UI |
| Extension | Which extension this perspective is part of |

Portlets Definitions Editor

Portlets are the components that appear in the main area of SOA Systinet tabs. The portlets definitions editor allows you to add, edit and remove portlet definitions from your extension project:

Figure 15. Portlets Definitions Editor



On the right are three buttons:

- **Add** contains two options:
 - **Feed** adds a new RSS feed portlet as described in [Creating a New RSS Feed Portlet on page 81](#).

- **Portlet** adds a new portlet as described in [Creating a New Portlet on page 80](#).
- **Edit** opens the **Edit Feed** or **Edit Portlet** dialog for the selected item with the same parameters as **Add** functionality.
- **Remove** deletes the selected portlet from your extension project.

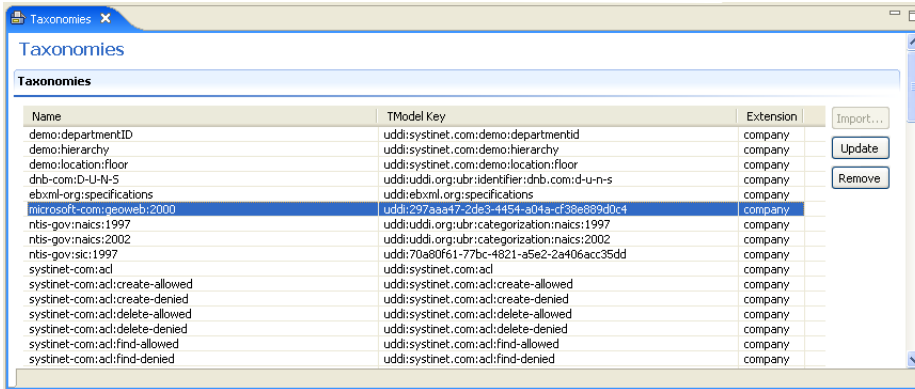
There are five parameters related to portlets described in the table below:

| Parameter | Definition |
|-----------|---|
| Name | The name of the portlet as it is stored in the extension |
| Type | The type of portlet with options: <ul style="list-style-type: none"> • Feed • Portlet |
| URI | The identifier for the resource with portlet data |
| Partner | The SSO partner identification |
| Extension | Which extension this perspective is part of |

Taxonomies Editor

Taxonomies are category groups that allow you to organize your services. The taxonomies editor allows the import and removal of taxonomies from your extension project:

Figure 16. Taxonomies Editor



On the right are two buttons:

- **Import** imports taxonomies from the active SOA Systinet server.
- **Update** refreshes the taxonomy list with any changes from the SOA Systinet server.
- **Remove** deletes the selected taxonomy from the extension project.

There are three parameters related to context actions described in the table below:

| Parameter | Definition |
|------------|---|
| Name | The name of the taxonomy as it is stored in the extension |
| TModel Key | The taxonomy key identifier |
| Extension | Which extension this taxonomy is part of |

project.xml Editor

The project editor allows you to configure your extension project. It contains three tabs described in the following sections:

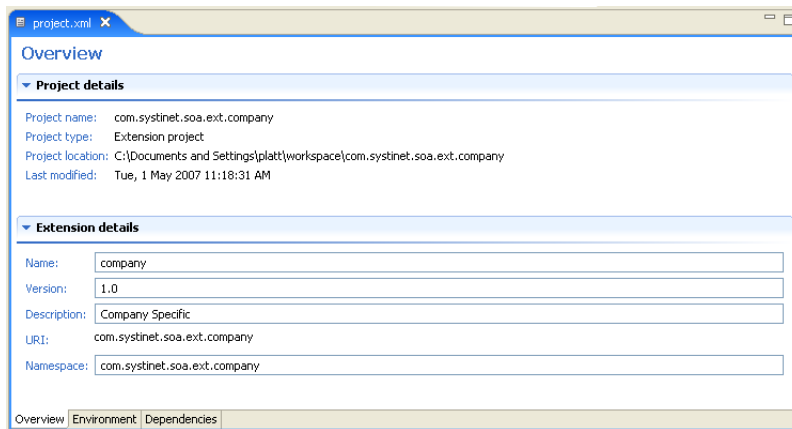
- [Project – Overview Tab on page 121](#)

- Project – Environment Tab on page 122
- Project – Dependencies Tab on page 123

Project – Overview Tab

The **Overview** tab enables you to view and amend the basic parameters of your extension project:

Figure 17. Project Overview Tab



The tab contains two collapsible segments:

- **Project details** displays parameters for the extension project:

| Parameter | Definition |
|------------------|--|
| Project name | The name of the extension project |
| Project type | The project is an extension project |
| Project location | The workspace folder that contains the extension project |
| Last modified | The last time the project was changed |

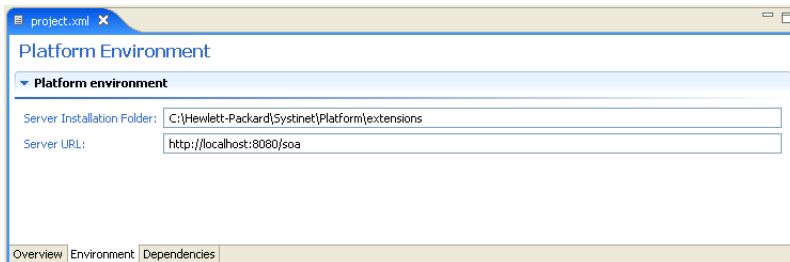
- **Extension details** enables you to configure some of the extension project parameters:

| Parameter | Definition |
|-------------|---|
| Name | The display name of the extension |
| Version | The version number of the extension project |
| Description | A description of the extension project |
| URI | The identifier for the resource in the configuration (not editable) |
| Namespace | The prefix used for the URI when you create a new artifact type or property |

Project – Environment Tab

The **Environment** tab enables you to change the parameters of the SOA Systinet server that the Customization Editor is configured for:

Figure 18. Project Environment Tab



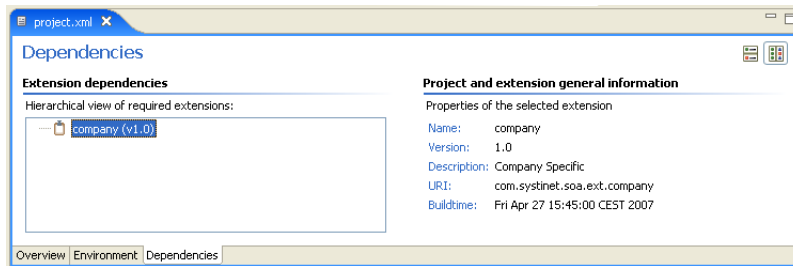
The tab contains the parameters:

| Parameter | Definition |
|----------------------------|--|
| Server Installation Folder | The location of the extension folder in your SOA Systinet installation |
| Server URL | The URL used to access SOA Systinet |

Project – Dependencies Tab

The **Dependencies** tab displays general information about your extension project and any dependencies that it has:

Figure 19. Project Dependencies Tab



The tab contains two segments:

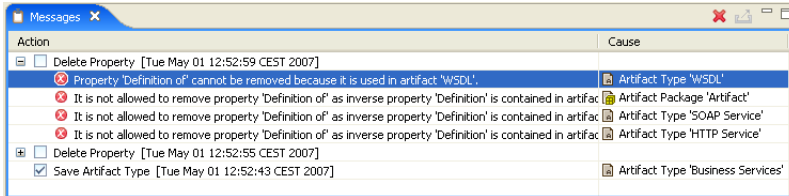
- **Extension dependencies** displays a tree of extensions that the extension project is dependent on.
- **Project and extension general information** displays parameters of the extension project:

| Parameter | Definition |
|-------------|---|
| Name | The name of the extension |
| Version | The version number of the extension project |
| Description | A description of the extension project |
| URI | The identifier for the resource in the configuration (not editable) |
| Buildtime | The creation date and time of the extension |

Messages View

The **Messages** view tracks the changes that you make to extension entities and displays any warnings and problems that may occur as a result of those actions:

Figure 20. Messages View

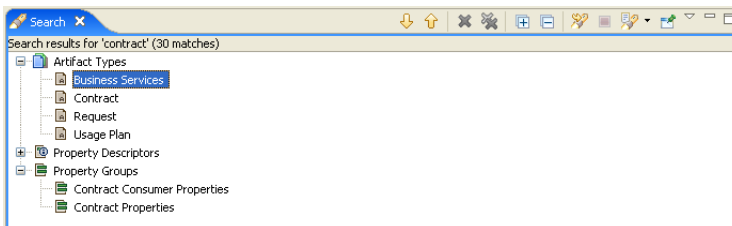


Double-clicking an item in the tree opens the relevant editor for that object.

Search View

The **Search** view displays the results of a search (see [Searching the Extension on page 30](#)) or find usage query (see [SDM Details on page 27](#)):

Figure 21. Search View



The results are shown as a tree of artifact types, properties and property groups containing the requested item.

Double-clicking an artifact type, property or group opens the relevant editor.

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