

HP SOA Systinet Plug-In

Software Version: 3.20

User Guide for Microsoft Visual Studio

Document Release Date: July 2009
Software Release Date: July 2009



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About this Guide

Welcome to the HP SOA Systinet Plug-In for Visual Studio Guide. This guide explains how to use the Systinet Plug-In for Microsoft Visual Studio with SOA Systinet.

This guide contains the following chapters:

- Chapter 1, Systinet Plug-In for Visual Studio
- Chapter 2, Getting Started
- Chapter 3, Exploring the Repository
- Chapter 4, Modifying Resources
- Chapter 5, Adding Web References
- Appendix A, Dialog Boxes
- Appendix B, Preferences
- Appendix C, Configuring Systinet Plug-In for Visual Studio

Document Conventions

This document uses the following typographical conventions:

run.bat make	Script name or other executable command plus mandatory arguments.
<code>[-help]</code>	Command-line option.
either or	Choice of arguments.
<i>replace_value</i>	Command-line argument that should be replaced with an actual value.
{arg1 arg2}	Choice between two command-line arguments where one or the other is mandatory.
<code>java -jar hpsystinet.jar</code>	User input.
<code>C:\System.ini</code>	File names, directory names, paths, and package names.
<code>a.append(b);</code>	Program source code.
<code>server.Version</code>	Inline Java class name.
<code>getVersion()</code>	Inline Java method name.
Shift+N	Combination of keystrokes.
Service View	Label, word, or phrase in a GUI window, often clickable.
OK	Button in a user interface.
New→Service	Menu option.

Documentation Updates

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

- Software version number, which indicates the software version
- 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

To check for recent updates, or to verify that you are using the most recent edition of a document, go to:

<http://h20230.www2.hp.com/selfsolve/manuals>

This site requires that you register for an HP Passport and sign-in. To register for an HP Passport ID, go to:

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You will also receive updated or new editions if you subscribe to the appropriate product support service. For details, contact your HP sales representative.

Support

You can visit the HP Software Support Web site at:

<http://www.hp.com/go/hpsoftwaresupport>

HP Software Support Online provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the HP Software Support web site to:

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Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract.

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http://h20230.www2.hp.com/new_access_levels.jsp

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1 Systinet Plug-In for Visual Studio

SOA Systinet enables your organization to manage the growth and development of your service infrastructure. HP SOA Systinet Plug-In for Visual Studio bridges the gap between your development environment and SOA Systinet.

This chapter introduces Systinet Plug-In for Visual Studio in the following sections:

- [Overview on page 9](#)
- [Usecases on page 10](#)

Overview

HP SOA Systinet Plug-In for Visual Studio is a set of features enabling you to integrate SOA Systinet with your IDE.

Systinet Plug-In for Visual Studio contains the following features:

- **Search**

Search the SOA Systinet repository to find the service definitions you require.

For details, see [Chapter 3, Exploring the Repository](#).

- **Modify**

Download resources from SOA Systinet, modify them in your IDE, and then upload them back to SOA Systinet.

For details, see [Chapter 4, Modifying Resources](#).

- **Add Web References**

Add web references to your project from repository resources.

For details, see [Chapter 5, Adding Web References](#).

Usecases

Systinet Plug-In for Visual Studio is designed to assist in the development of services for the following users:

- **Service Architects**

- Download resources.

Import service definition files from SOA Systinet.

For details, see [Downloading SOA Systinet Resources on page 21](#).

- Edit resources.

Edit service definitions using the standard functionality of your IDE.

- Upload resources.

Export your service definition files to SOA Systinet.

For details, see [Uploading SOA Systinet Resources on page 22](#).

- **Service Consumers**

- Locate the services you want to consume.

Repository Search enables you to identify definitions of the services you want to consume. You can limit the search to services that are consumable, or to a particular lifecycle stage (for example, Production).

For details, see [Searching the Repository on page 17](#).

- Add web references for services you want to consume.

Using the service definitions located in searches, add a web reference from the service definition to assist the development of your service consuming application.

For details, see [Chapter 5, Adding Web References](#).

2 Getting Started

Systinet Plug-In for Visual Studio works in conjunction with your existing development platform.

This chapter contains the following sections:

- [Installing Systinet Plug-In for Visual Studio on page 13](#)
- [Setting Up 2-way SSL on page 14](#)

Installing Systinet Plug-In for Visual Studio

HP SOA Systinet Plug-In for Visual Studio is a plug-in for MS Visual Studio distributed as the following installation package:

`hp-soa-systinet-visual-studio-plugin-3.20.msi`.

Table 1. System Requirements

Operating System	Java JDK	IDE
Windows XP	N/A	MS Visual Studio 2005
		MS Visual Studio 2008
Windows Vista	N/A	MS Visual Studio 2005
		MS Visual Studio 2008



For supported platforms and known issues, see `readme.txt` alongside the package.

To install Systinet Plug-In for Visual Studio:

- Execute the package, `hp-soa-systinet-visual-studio-plugin-3.20.msi`.

This documentation refers to the installation location as `SIP_HOME`.

To start Systinet Plug-In for Visual Studio:

- Start your installation of Visual Studio.

The first time you start Systinet Plug-In for Visual Studio, if opening the Search Dialog, you are prompted for the connection URL and credentials for the SOA Systinet server.



Systinet Plug-In for Visual Studio encrypts and store passwords. Saved passwords are stored in a file that is difficult but not impossible for an intruder to read.

Setting Up 2-way SSL

You can set up 2-way SSL communication between Systinet Plug-In for Visual Studio and SOA Systinet using the client certificate for your SSL environment.

To enable 2-way SSL:

- 1 Close Systinet Plug-In for Visual Studio
- 2 Open `%AppData%\Systinet Visual Studio plug-in/app.config` with a text editor.

`%AppData%` is the system variable for the Windows Application Data folder. Open a command prompt and use command, **echo %AppData%** to verify the location.

- 3 Modify the following section of the configuration file:

```
<configuration>
...
  <clientCert>
    <keyfile>clientCert.pl2</keyfile>
    <password>changeit</password>
  </clientCert>
...
</configuration>
```

Replace the keyfile element with the absolute path to your client certificate file.

Replace the password element with the certificate file password.

4 Save `app.config`.

3 Exploring the Repository

Systinet Plug-In for Visual Studio enables you to search and examine data in the SOA Systinet repository:

- [Searching the Repository on page 17](#)

Locate specific artifacts using lifecycle, consumption, and property criteria.

- [Search Results on page 18](#)

View artifacts matching your search criteria and their related artifacts.

- [Artifact Detail View on page 19](#)

Examine individual artifacts in detail.

Searching the Repository

HP SOA Systinet Plug-In for Visual Studio includes a Repository Search feature, enabling you to explore the content of SOA Systinet.

To search the repository:

- 1 Do one of the following:

- From the menu, select **Edit**→**Find and Replace**→**Find Systinet Artifacts**.
- Use keyboard shortcut **Ctrl+Alt+F**.

The Search Dialog opens.

- 2 In the Scope section, select an artifact type to search, and if required, a specific lifecycle stage.

The Properties section refreshes showing specific details depending on the artifact type.



Adding web references uses WSDL definitions. To find the WSDL you need, search for SOAP Services or Operations, as these artifacts contain lifecycle and contract information. The functionality for adding web references is available on search results for SOAP Services and Operations and utilises the WSDLs associated with them.

- 3 Enter your search parameters.

For parameter details, see [Repository Search on page 29](#).

- 4 To display the parent artifacts search result artifacts depend on, select **Show Parent Artifacts**



Selecting **Show Parent Artifacts** may reduce the speed of the search.

- 5 Click **Search** to execute the search.

Systinet Plug-In for Visual Studio displays the results of the search in the Repository Search Result view. For details, see [Search Results on page 18](#).

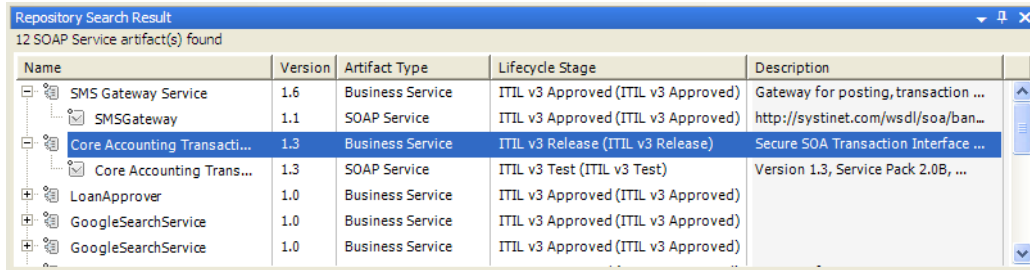
Search Results

Systinet Plug-In for Visual Studio displays the results of a repository search in the Repository Search Results tab.

To search the repository, see [Searching the Repository on page 17](#).

The results show a tree of artifacts for each artifact matching the search criteria, as shown in [Figure 1](#), “Repository Search Results View”:

Figure 1. Repository Search Results View



The screenshot shows a window titled "Repository Search Result" with a subtitle "12 SOAP Service artifact(s) found". It contains a table with the following columns: Name, Version, Artifact Type, Lifecycle Stage, and Description. The table lists several artifacts, with "Core Accounting Transacti..." selected and highlighted in blue.

Name	Version	Artifact Type	Lifecycle Stage	Description
SMS Gateway Service	1.6	Business Service	ITIL v3 Approved (ITIL v3 Approved)	Gateway for posting, transaction ...
SMSGateway	1.1	SOAP Service	ITIL v3 Approved (ITIL v3 Approved)	http://systinet.com/wsd/soa/ban...
Core Accounting Transacti...	1.3	Business Service	ITIL v3 Release (ITIL v3 Release)	Secure SOA Transaction Interface ...
Core Accounting Trans...	1.3	SOAP Service	ITIL v3 Test (ITIL v3 Test)	Version 1.3, Service Pack 2.0B, ...
LoanApprover	1.0	Business Service	ITIL v3 Approved (ITIL v3 Approved)	
GoogleSearchService	1.0	Business Service	ITIL v3 Approved (ITIL v3 Approved)	
GoogleSearchService	1.0	Business Service	ITIL v3 Approved (ITIL v3 Approved)	

The tree for each matching artifact contains any child artifacts. If you select **Show Parent Artifacts** in your search, the tree also includes parent artifacts.

Double-click an artifact name in the Repository Search Results tab to view its details in an artifact details tab. The tab name is the name of the artifact. For details, see [Artifact Detail View on page 19](#).

To download any associated service resources, right-click a result entry, and select **Save As**. For details, see [Downloading SOA Systinet Resources on page 21](#).

Artifact Detail View

; enables you to view the details for a particular artifact in its own detail view. The content of this view is similar to the Artifact Detail view in the Tools tab in SOA Systinet.

The artifact details vary depending on the artifact type and your customization and configuration.

For details about customizing the detail views, see [Appendix C, Configuring Systinet Plug-In for Visual Studio](#).

The Artifact Detail view contains the following segments depending on the artifact type:

- **General**

Displays a description, the owner of the artifact, and a URL to the REST representation of the artifact.

- **Details**

Displays a set of properties for the artifact. These properties vary depending on the artifact type.

- **Data**

Displays a link to the attached data in the repository for artifacts with attached data content. Click the link to view the content of the attached data.

- **Related Repository Artifacts**

Displays the set of related artifacts, indicating the type of relationship, the related artifact, and the direction of the relationship.

Double-click an artifact name to open its detail view.

4 Modifying Resources

Systinet Plug-In for Visual Studio enables you to download resources from SOA Systinet, modify them, and then upload them back to SOA Systinet.

These features are described in the following sections:

- [Downloading SOA Systinet Resources on page 21](#)
Download service definitions from SOA Systinet.
- [Uploading SOA Systinet Resources on page 22](#)
Upload service definitions to SOA Systinet.
- [Synchronizing Resources on page 24](#)
Synchronize local resources with the latest SOA Systinet revisions.
- [Deleting SOA Systinet Resources on page 24](#)
Delete SOA Systinet resources.

Downloading SOA Systinet Resources

Systinet Plug-In for Visual Studio enables you to download the service definitions associated with artifacts from SOA Systinet.

Systinet Plug-In for Visual Studio supports download for the following file types:

- WSDL
- BPEL
- XSD

- DTD
- SCA

To download service definitions from SOA Systinet:

- 1 Perform a repository search to locate the service you want to download the definitions for.
For details, see [Searching the Repository on page 17](#).
- 2 In the Repository Search Results view, right-click a search result, and select **Download from Server**.
The Download Document from SOA Systinet dialog opens.
- 3 In the Download Document from SOA Systinet dialog:

Select **Resolve Dependencies** to resolve any dependencies in the service definition files and download all referenced files as well.

Select **Open Resource after Downloading** to open an editor view of the downloaded resource.

Select a location in your project to store the downloaded resources, and then click **Finish**.

Systinet Plug-In for Visual Studio downloads the relevant service definition files and copies them to the selected location. The structure of the SOA Systinet publishing location space is preserved.

For details about the Publishing Location space, see "Publishing Locations Workspace" in the *HP SOA Systinet Developer Guide*.

Uploading SOA Systinet Resources

Systinet Plug-In for Visual Studio enables you to upload service definition documents directly to SOA Systinet.

Systinet Plug-In for Visual Studio supports upload for the following file types:

- WSDL
- BPEL

- XSD
- DTD
- SCA



Unlike other supported types, Systinet Plug-In does not automatically resolve SCA style references by name between various SCA files, typically defined by elements such as <include>. You must select all interconnected SCA files explicitly for upload.

To upload service definitions to SOA Systinet:

- 1 In the Solution Explorer, right-click the resource or folder of resources you want to upload, and select **HP SOA Systinet → Upload to Server**.

The Upload Documents dialog opens.

- 2 Select resources to upload, and then click **Next**.
- 3 Select the publishing location folder, or input a new one.

Select from the following **Advanced Options**:

Parameter	Definition
Decomposition	<p>Select a WSDL processing level from the following options:</p> <ul style="list-style-type: none"> • Services Process any WSDLs, create all defined content and create business services to associate with any newly created implementations. • Implementations Process any WSDLs and create all defined content. Business services are not created. • None

	Publish any WSDLs as artifacts with attached data content. The WSDL files are not processed.
Parameter	Definition
Remove Unsynchronized	If a WSDL is republished the artifacts it references may change and previously created artifacts may no longer be required. Select artifact types to remove the relationships with these obsolete referenced artifacts.

Click **Next**.

SOA Systinet processes the content for upload and returns an Upload Overview to Systinet Plug-In for Visual Studio.

- Review the overview and click **Finish** to complete the upload and create the relevant artifacts, or **Cancel** to abort the upload.

Synchronizing Resources

After downloading resources from SOA Systinet, you may want to synchronize them with SOA Systinet.

To synchronize a local resource with SOA Systinet:

- In the Solution Explorer, right-click the resource you want to synchronize and select **HP SOA Systinet**→**Synchronize with Server**.

The Synchronization view opens showing any files that differ.

- Optionally, right-click an item that differs from the server version, and select **Update** to download the latest version from SOA Systinet.

You can configure Systinet Plug-In to perform automatic synchronization. For details, see [Setting Synchronization on page 42](#).

Deleting SOA Systinet Resources

Systinet Plug-In for Visual Studio enables you to delete resources stored in the SOA Systinet repository.

To delete SOA Systinet resources:

- 1 In the Solution Explorer, right-click the resource you want to delete, and select **HP SOA Systinet**→**Delete from Server**.

The SOA Systinet UI opens requesting authentication.

- 2 Enter your credentials.

The detail view of the artifact you want to delete opens.

- 3 Use SOA Systinet functionality to delete the artifact. For details, see the *HP SOA Systinet User Guide*.

5 Adding Web References

Systinet Plug-In for Visual Studio integrates with existing Visual Studio functionality, enabling you to create a web reference from resources in the repository.

To add a web reference:

- 1 Perform a repository search to locate the resource you want to use for web reference addition.

For details, see [Searching the Repository on page 17](#).



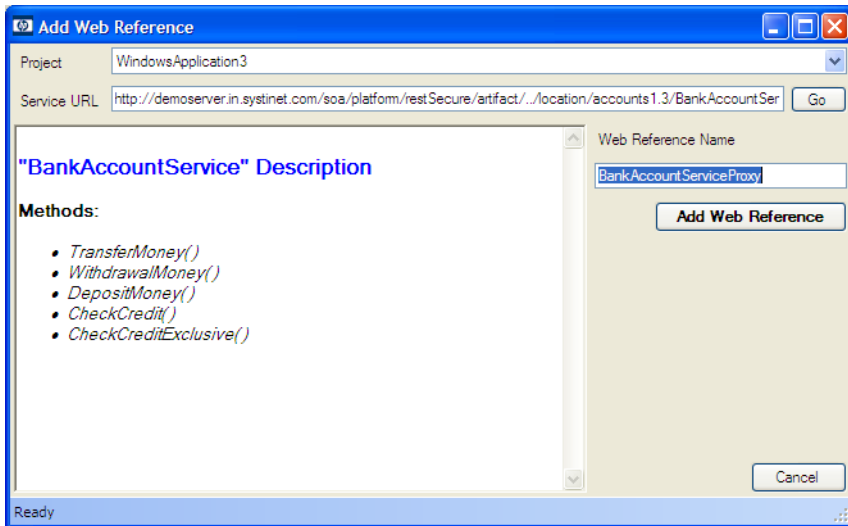
For consumer use cases search for *Consumable* services at the *Production* lifecycle stage.

- 2 In the Repository Search Results view, right-click the Operation or SOAP Service to use for web reference addition, and select **Add Web Reference**.



Adding a web reference against a SOAP Service or Operation uses the WSDL associated with it.

The Add Web Reference dialog opens.



3 Use the Add Web Reference dialog to select your web reference settings.

Use the Object Browser to examine the web reference.

A Dialog Boxes

Each Systinet Plug-In for Visual Studio; input dialog is described in the following sections:

- [Repository Search on page 29](#)

Search parameters by artifact type.

Repository Search

The property parameters available in the Repository Search dialog vary depending on the artifact. The artifacts available and their properties also vary according to your customization and configuration.

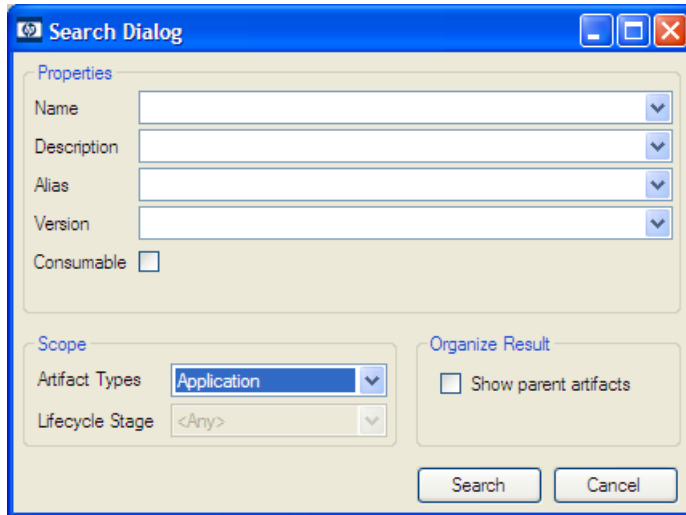
For details about customizing Systinet Plug-In for Visual Studio, see [Appendix C, Configuring Systinet Plug-In for Visual Studio](#).

This section describes the default parameters for the default artifact types in the following sections:

- [Repository Search: Application on page 30](#)
- [Repository Search: Business Service on page 30](#)
- [Repository Search: SOAP Service on page 31](#)
- [Repository Search: Operation on page 32](#)
- [Repository Search: WSDL on page 33](#)
- [Repository Search: BPEL on page 34](#)
- [Repository Search: SCA on page 36](#)
- [Repository Search: Business Process on page 37](#)
- [Repository Search: XML Schema on page 37](#)

Repository Search: Application

This section describes the default property search parameters for applications.



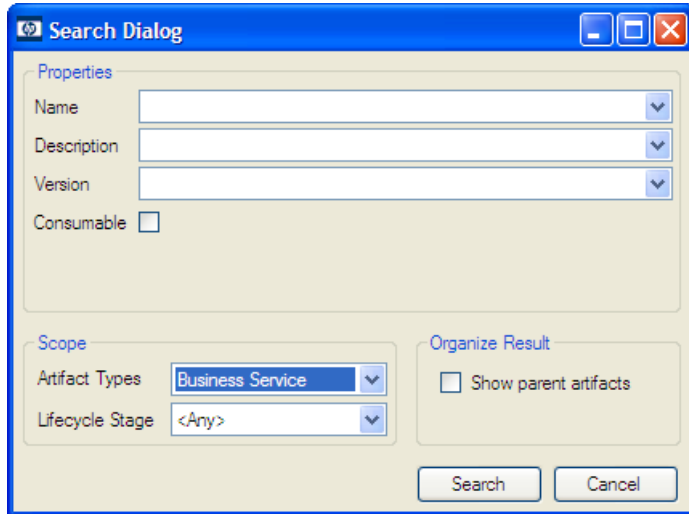
The screenshot shows a 'Search Dialog' window with a blue title bar and standard window controls. It is divided into several sections:

- Properties:** A group box containing four dropdown menus for 'Name', 'Description', 'Alias', and 'Version'. Below these is a checkbox labeled 'Consumable' which is currently unchecked.
- Scope:** A group box containing two dropdown menus: 'Artifact Types' (set to 'Application') and 'Lifecycle Stage' (set to '<Any>').
- Organize Result:** A group box containing a checkbox labeled 'Show parent artifacts' which is currently unchecked.
- Buttons:** Two buttons at the bottom: 'Search' and 'Cancel'.

Properties	Description
Name	Name of the application.
Description	Description of the application.
Alias	Alias for the application.
Version	Version number.
Consumable	Select to restrict the search to consumable applications.

Repository Search: Business Service

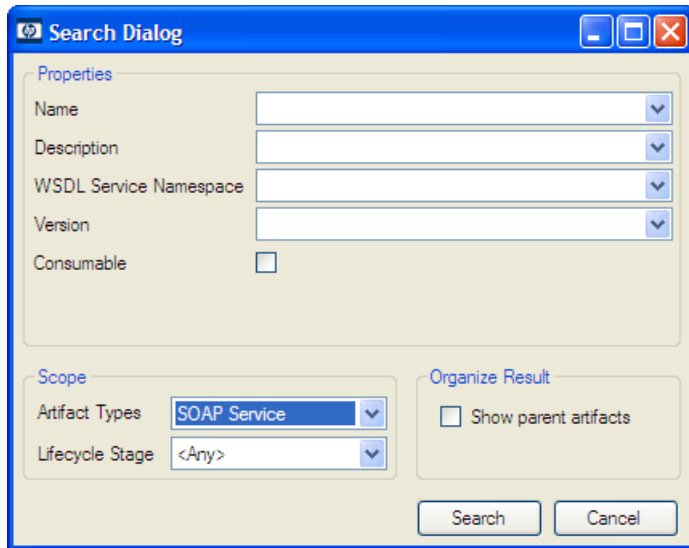
This section describes the default property search parameters for business services.



Properties	Description
Name	Name of the business service.
Description	Description of the business service.
Version	Version number.
Consumable	Select to restrict the search to consumable business services.

Repository Search: SOAP Service

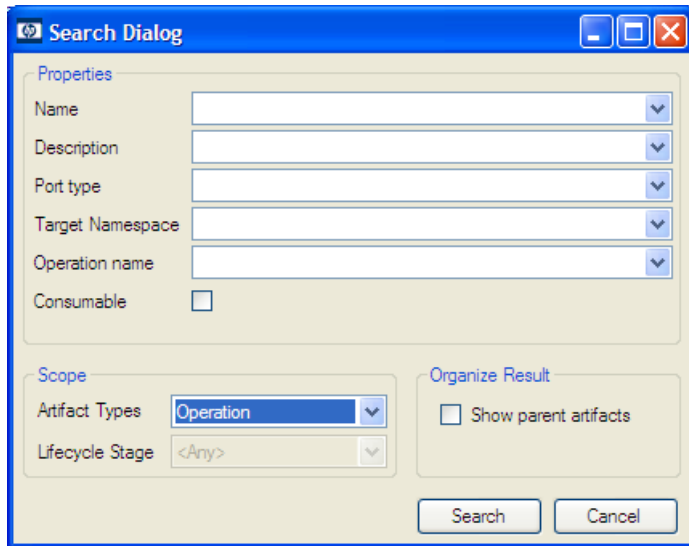
This section describes the default property search parameters for SOAP services.



Properties	Description
Name	Name of the SOAP service.
Description	Description of the SOAP service.
WSDL Service Namespace	Service namespace defined in the associated WSDL.
Version	Version number.
Consumable	Select to restrict the search to consumable SOAP services.

Repository Search: Operation

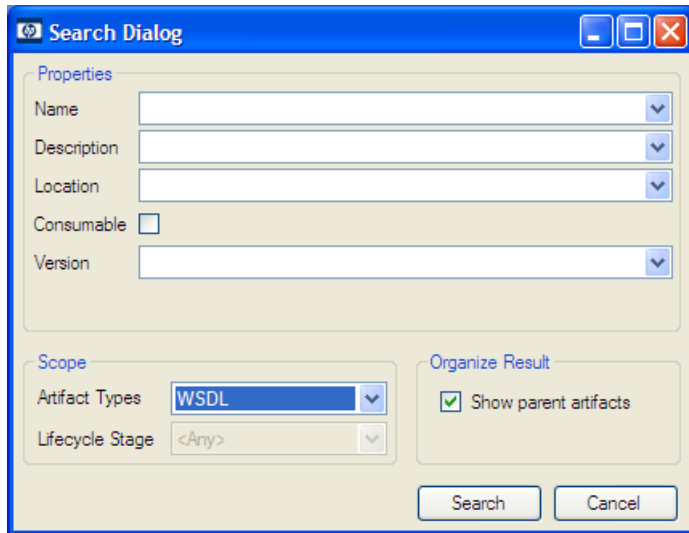
This section describes the default property search parameters for operations.



Properties	Description
Name	Name of the operation.
Description	Description of the operation.
Port Type	Set of related operations defined by the associated WSDL.
Target Namespace	Namespace defined by the associated WSDL.
Operation Name	Operation name defined by the associated WSDL.
Consumable	Select to restrict the search to consumable operations.

Repository Search: WSDL

This section describes the default property search parameters for WSDLs.



Properties	Description
Name	Name of the WSDL.
Description	Description of the WSDL.
Location	Server folder where the WSDL is stored in the repository.
Consumable	Select to restrict the search to consumable WSDLs.
Version	Version number.

Repository Search: BPEL

This section describes the default property search parameters for BPELs.

Properties	Description
Name	Name of the BPEL.
Description	Description of the BPEL.
Query Language	Query language used in the selection of nodes for assignment.
Target Namespace	Namespace defined in the BPEL.
Expression Language	Language defining expressions in the BPEL.
Location	Server folder where the BPEL is stored in the repository.
Keyword	Search term identifying the BPEL.

Properties	Description
Failure Impact	Select an impact level from the drop-down list.
Consumable	Select to restrict the search to consumable WSDLs.
Version	Version number.

Repository Search: SCA

This section describes the default property search parameters for SCAs.

The screenshot shows a 'Search Dialog' window with the following fields and options:

- Properties:**
 - Name: [Text Field]
 - Description: [Text Field]
 - SCA Name: [Text Field]
 - Location: [Text Field]
 - SCA Type: [Drop-down menu, selected '<Any>']
 - Version: [Text Field]
- Scope:**
 - Artifact Types: [Drop-down menu, selected 'SCA']
 - Lifecycle Stage: [Drop-down menu, selected '<Any>']
- Organize Result:**
 - Show parent artifacts
- Buttons:** Search, Cancel

Properties	Description
Name	Name of the SCA.
Description	Description of the SCA.
Location	Server folder where the SCA is stored in the repository.
SCA Type	The type of the attached SCA file.
Version	Version number.

Properties	Description
Target Namespace	Namespace defined in the SCA.

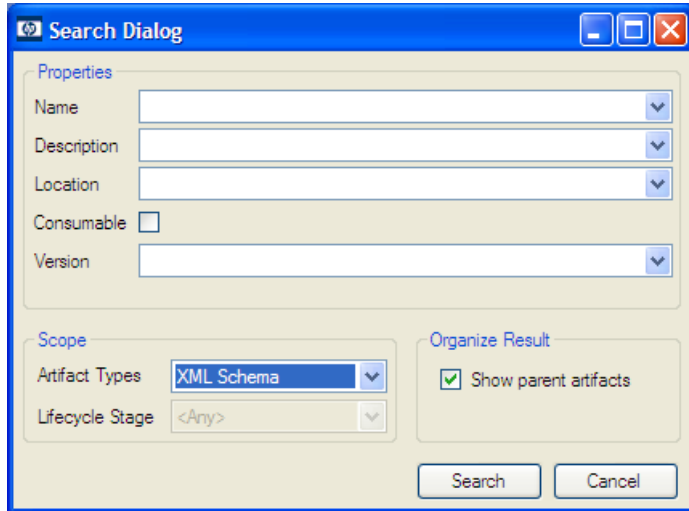
Repository Search: Business Process

This section describes the default property search parameters for business processes.

Properties	Description
Name	Name of the business process.
Description	Description of the business process.
Failure Impact	Select an impact level from the drop-down list.
Version	Version number.
Consumable	Select to restrict the search to consumable business processes.

Repository Search: XML Schema

This section describes the default property search parameters for XML schemas.



Properties	Description
Name	Name of the XML Schema.
Description	Description of the XML Schema.
Location	Server folder where the schema is stored in the repository.
Consumable	Select to restrict the search to consumable XMLs.
Version	Version number.
Target Namespace	Namespace defined in the XML Schema.

B Preferences

Systinet Plug-In for Visual Studio contains a set of preferences determining its interaction with SOA Systinet. These settings are prompted for when required, but they can also be changed from the **Windows**→**Preferences** menu.

These settings are described in the following sections:

- [Setting the Server on page 39](#)

Specify the installation of SOA Systinet to integrate with.

- [Setting the Environment on page 40](#)

Specify the environment categorization to use when obtaining endpoints.

- [Setting Synchronization on page 42](#)

Specify whether to automatically synchronize local resources with the equivalent resources in SOA Systinet.

Setting the Server

The develop services in conjunction with SOA Systinet you must set the credentials for the server you are working with.

To set the SOA Systinet server:

- 1 From the menu, select **Tools**→**Options**.

The Options dialog box opens.

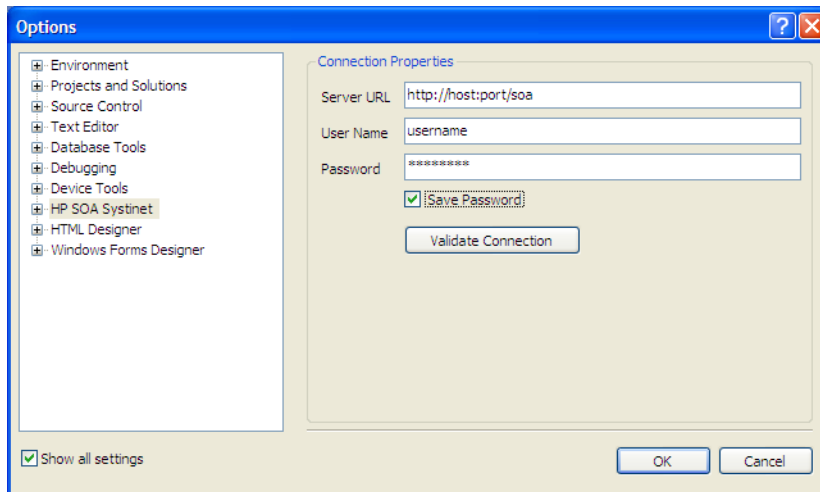
- 2 In the tree view of the Options dialog box, select **HP SOA Systinet**.



If this option is not visible, select **Show all settings**.

The connection properties page opens, as shown in Figure 2, “HP SOA Systinet Page”.

Figure 2. HP SOA Systinet Page



- 3 Set the connection details for the SOA Systinet server. Optionally, save these credentials or use **Validate Connection** to test the connection.
- 4 Click **OK**.

Setting the Environment

SOA Systinet uses an Environment taxonomy to categorize endpoints enabling multiple endpoints for a single service without requiring modification of the WSDL definition.

This means that the WSDL itself does not define the environment specific endpoints that you may require for service development.

Systinet Plug-In contains an environment setting that allows you to define a default environment you are developing your services for in order to obtain the relevant endpoints associated with the service.

To set the default environment:

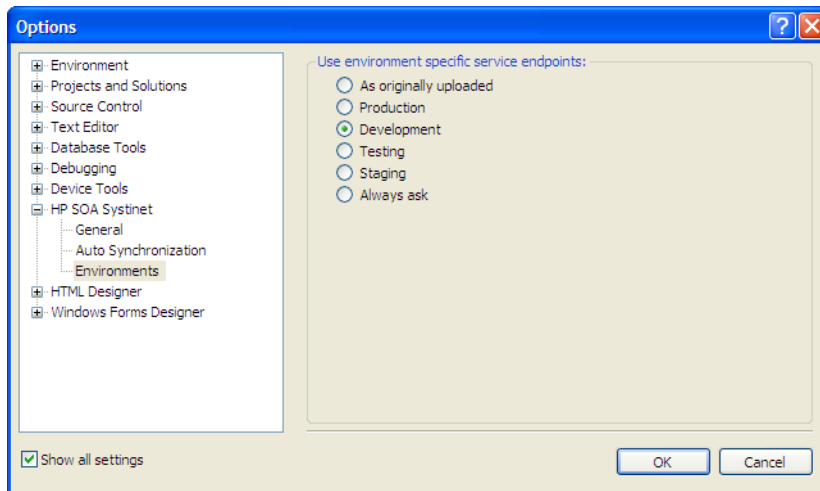
- 1 From the menu, select **Tools**→**Options**.

The Options dialog box opens.

- 2 In the tree view of the Options dialog box, select **HP SOA Systinet**→**Environments**.

The Environments page opens, as shown in [Figure 3, “Environments Page”](#).

Figure 3. Environments Page



- 3 Set the default environment from the following options:

Environment Option	Description
As originally uploaded	Use the WSDL without any environment specific endpoints.

Environment Option	Description
Environment Categories	Use the endpoints for the service categorized as the selected environment. For example, Development or Testing.
Always Ask	Prompt for environment selection whenever it is required.

- 4 Click **OK**.

Setting Synchronization

Systinet Plug-In enables you to download resources from SOA Systinet. In addition, you can specify automatic synchronization between SOA Systinet resources and their local equivalents in your IDE project.

To set up automatic synchronization:

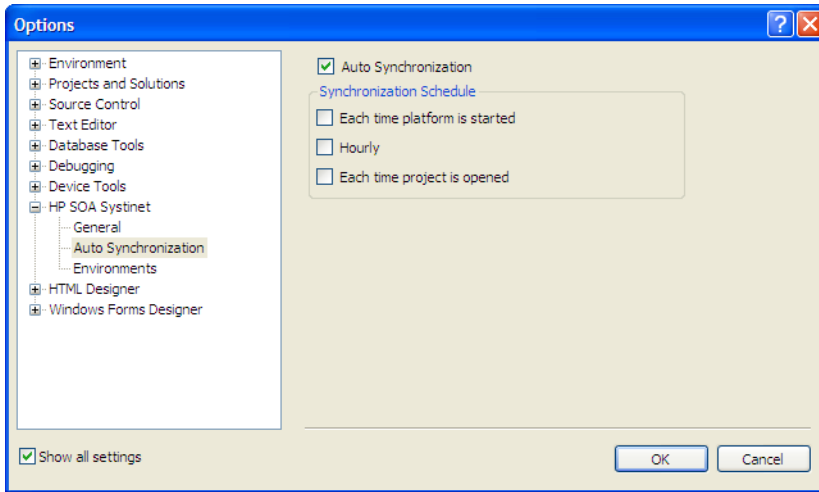
- 1 From the menu, select **Tools**→**Options**.

The Options dialog box opens.

- 2 In the tree view of the Preferences dialog box, select **HP SOA Systinet**→**Auto Synchronization**.

The Auto Synchronization page opens, as shown in [Figure 4, “Auto Synchronization Page”](#).

Figure 4. Auto Synchronization Page



- 3 To enable automatic synchronization, select **Auto Synchronization**, and select from the following synchronization options:

Auto Synchronization Option	Description
Each Time Platform is Started	Update local versions with newer versions from SOA Systinet whenever the SOA Systinet server starts.
Hourly	Update local versions with newer versions from SOA Systinet every hour.
Each Time Project is Opened	Update local versions with newer versions from SOA Systinet whenever a project is opened.

- 4 Click **OK**.

C Configuring Systinet Plug-In for Visual Studio

Systinet Plug-In for Visual Studio uses a configuration file at the following location in the SOA Systinet repository:

```
http://host:port/soa/platform/restSecure/location/hpsoa/client/search-configuration.xml
```

This file is a server specific configuration that all instances of Systinet Plug-In for Visual Studio access to determine the format and content of repository search for that server. SOA Systinet contains a default configuration that you can use with Systinet Plug-In for Visual Studio.

If you use a custom SOA definition model then you can modify the configuration and upload it to the SOA Systinet server.

Systinet Plug-In for Visual Studio contains a default configuration defined in the following file:

```
SIP_HOME/search-configuration.xml
```

To change the Systinet Plug-In for Visual Studio configuration and upload it to SOA Systinet:

- 1 Create a working copy of `search-configuration.xml`.
- 2 Open `search-configuration.xml` with a text editor.
- 3 Edit `search-configuration.xml` to reflect your requirements.

For details, see the following sections:

- [Configuring Search and Detail Parameters on page 45](#)
- [Configuring Search Results on page 46](#)

- [Configuring Artifact Hierarchies on page 47](#)
- [Configuring Localization on page 48](#)

- 4 In SOA Systinet use the **Upload Content** feature in the Tools tab to store the configuration in the repository.

In the Upload Content page, specify the following location:

```
/hpsoa/client
```

For details, see "Uploading Service Infrastructure from Definition Documents" in the *HP SOA Systinet User Guide*.

Configuring Search and Detail Parameters

The artifact types in Repository Search and the property parameters displayed in Repository Search and the Artifact Detail View are defined in the `<details_view>` section of the configuration file.

For example, the application artifact is defined as follows:

```
<details_view>
  <artifact_type localName="hpsoaApplicationArtifact">
    <invisible_properties>
      <property localName="lastRevision"/>
      <property localName="revision"/>
      <property localName="identifierBag"/>
      <property localName="artifactType"/>
      <property localName="categoryBag"/>
      <property localName="stakeholderEmail"/>
      <property localName="criticality"/>
    </invisible_properties>
  </artifact_type>
  ...
</details_view>
```

To configure the Repository Search:

- 1 Open `search-configuration.xml` with a text editor.
- 2 Do any of the following:

- Add an artifact type to search by adding an `<artifact_type>` segment using the `localName` of the artifact type.
- Remove properties from the search parameters and detail view by adding a `<property>` in the `<invisible_properties>` segment of an artifact, using the `localName` of the property.



You can locate the `localNames` in your configuration at the following location:

`http://host:port/soa/systinet/platform/restBasic/repository/sdm/sdmConfig.xml`

3 Save `search-configuration.xml`.

Configuring Search Results

The property parameters displayed for artifacts in the Repository Search Results view are defined in the `<search_result>` section of the configuration file.

For example, the application artifact is defined as follows:

```
<search_result>
  <artifact_type localName="hpsoaApplicationArtifact">
    <visible_properties>
      <property localName="name"/>
      <property localName="version"/>
      <property localName="productionStage"/>
      <property localName="description"/>
    </visible_properties>
  </artifact_type>
  ...
</search_result>
```

To configure the Repository Search:

- 1 Open `search-configuration.xml` with a text editor.
- 2 Do any of the following:
 - Add an artifact type to search results by adding an `<artifact_type>` segment using the `localName` of the artifact type.

- Add properties to the results for an artifact type by adding a `<property>` in the `<visible_properties>` segment of an artifact, using the localName of the property.



You can locate the localNames in your configuration at the following location:

`http://host:port/soa/systinet/platform/restBasic/repository/sdm/sdmConfig.xml`

3 Save `search-configuration.xml`.

Configuring Artifact Hierarchies

Service artifacts in SOA Systinet form natural hierarchies. Repository Search locates the artifacts matching your search criteria, and if requested, any related artifacts specified in the hierarchical structure defined in the configuration.

For example, the default hierarchy is defined as follows:

```
<hierarchical>
  <artifact localName="hpsoaApplicationArtifact">
    <artifact localName="businessServiceArtifact" upRef="hpsoaProvidingApplication"
      downRef="hpsoaProvidesBusinessService">
      <artifact localName="webServiceArtifact" upRef="inBusinessService" downRef="service">
        <artifact localName="wsdlArtifact" upRef="definitionOf" downRef="definition"/>
      </artifact>
    </artifact>
  </artifact>
</hierarchical>
```

You can add and modify hierarchies to match those relevant to your requirements.

To configure the Repository Search hierarchies:

- 1 Open `search-configuration.xml` with a text editor.
- 2 Do any of the following:
 - Add a hierarchy by adding the top level `<artifact>` within the `<hierarchical>` segment, defined by its local name.

- Add artifacts to hierarchies by adding `<artifact>` within a nested structure of an artifact hierarchy. Define the artifact with a local name and directional relationship properties.



You can locate the localNames and property names in your configuration at the following location:

```
http://host:port/soa/systinet/platform/restBasic/repository/sdm/sdmConfig.xml
```

3 Save search-configuration.xml.



If you define multiple hierarchies, the first hierarchy defined takes precedence in the event of a conflict.

Configuring Localization

Localized text can be configured in repository search for artifact names in the `<artifact_mapping>` section of the configuration file.

For example, the application artifact is defined as follows in English, Spanish, and Vietnamese:

```
<artifact_mapping>
  <artifact_type localName="hpsoaApplicationArtifact">
    <custom_name value="Application"/>
    <custom_name locale="es" value="Aplicacion"/>
    <custom_name locale="vi" value="&#7912;ng D&#7909;ng"/>
  </artifact_type>
  ...
</artifact_mapping>
```

To configure the localized text in Repository Search:

- 1 Open search-configuration.xml with a text editor.
- 2 Add a new mapping rule for localization to Repository Search by adding an `<artifact_type>` segment using the localName of the artifact type.

Specify the text to be localized with a `<custom_name>` specifying the text to be localized when the artifact type is rendered.

Add location specific text for an artifact type by adding a `<custom_name>` to the artifact specifying the locale and the text to use in that location.



You can locate the localNames in your configuration at the following location:

`http://host:port/soa/systinet/platform/restBasic/repository/sdm/sdmConfig.xml`

3 **Save** search-configuration.xml.