



BEA AquaLogic[®] .NET

Application Accelerator

Installation and Upgrade Guide

Version 1.1 MP1
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Contents

BEA Documentation and Resources...5

Introduction...9

About the AquaLogic .NET Application Accelerator.....9

Hardware and Software Requirements for AquaLogic .NET Application

Accelerator.....11

Installation...13

Installing the AquaLogic .NET Application Accelerator.....13

Installing the AquaLogic .NET Portlet Toolkit.....14

Installing the AquaLogic .NET WSRP Producer.....15

Upgrading Existing Applications...17

Upgrading WSRP Producer 1.0 Installations.....17

Upgrading ALI .NET Application Accelerator Portlets (1.0 to 1.1 MP1).....19

Upgrading WLP .NET Application Accelerator Portlets (1.0 to 1.1
MP1).....20

Upgrading Existing WCC Applications (2.1.x and earlier).....21

BEA Documentation and Resources

The following documentation and resources are available from BEA.

Resource	Description
Installation Guide	This guide describes the prerequisites (such as required software) and procedures for installing and upgrading .NET Portlet Toolkit components. It is available on edocs.bea.com/alui/dotnetappaccelerator/docs11 .
Release Notes	The release notes provide information about new features, issues addressed, and known issues in the release. They are available on edocs.bea.com/alui/dotnetappaccelerator/docs11 .
Development Guides	The development guide provides detailed information on authoring portlets using the .NET Portlet Toolkit. They are available on edocs.bea.com/alui/dotnetappaccelerator/docs11 .
Additional Developer Guides, Articles, API Documentation, Blogs, Newsgroups, and Sample Code	These resources are provided for developers on the BEA dev2dev site (dev2dev.bea.com). They describe how to build custom applications using AquaLogic User Interaction and how to customize AquaLogic User Interaction products and features.

Resource	Description
AquaLogic User Interaction (ALUI) and AquaLogic Business Process Management (ALBPM) Support Center	<p data-bbox="415 348 1180 565">The ALUI and ALBPM Support Center is a comprehensive repository for technical information on ALUI and ALBPM products. From the Support Center, you can access products and documentation, search knowledge base articles, read the latest news and information, participate in a support community, get training, and find tools to meet most of your ALUI and ALBPM-related needs. The Support Center encompasses the following communities:</p> <p data-bbox="415 591 626 618">Technical Support</p> <p data-bbox="415 638 1180 730">Submit online service requests, check the status of your requests, search the knowledge base, access documentation, and download maintenance packs and hotfixes.</p> <p data-bbox="415 751 552 777">User Group</p> <p data-bbox="415 798 1147 857">Participate in user groups; view webinars, presentations, the CustomerConnection newsletter, and the Upcoming Events calendar.</p> <p data-bbox="415 878 592 904">Product Center</p> <p data-bbox="415 925 1162 1017">Download product updates, maintenance packs, and patches; view the Product Interoperability matrix (supported third-party products and interoperability between products).</p> <p data-bbox="415 1038 616 1064">Developer Center</p> <p data-bbox="415 1085 1180 1144">Download developer tools, view code samples, access technical articles, and participate in discussions.</p> <p data-bbox="415 1164 633 1190">Education Services</p> <p data-bbox="415 1211 1180 1303">Review the available education options, then choose courses by role and delivery method (Live Studio, Public Classroom Training, Remote Classroom, Private Training, or Self-Paced eLearning).</p> <p data-bbox="415 1324 576 1350">Profile Center</p> <p data-bbox="415 1371 1180 1430">Manage your implementation details, local user accounts, subscriptions, and more.</p> <p data-bbox="415 1451 1089 1545">If you do not see the Support Center when you log in to one.bea.com/support, contact ALUISupport@bea.com or ALBPMsupport@bea.com for the appropriate access privileges.</p>

Resource	Description
Technical Support	<p>If you cannot resolve an issue using the above resources, BEA Technical Support is happy to assist. Our staff is available 24 hours a day, 7 days a week to handle all your technical support needs.</p> <p>E-mail: ALUISupport@bea.com or ALBPMSupport@bea.com</p> <p>Phone Numbers:</p> <p>USA, Canada +1 866.262.7586 or +1 415.263.1696</p> <p>EMEA +44 1494 559127</p> <p>Asia Pacific +61 2.9931.7822</p> <p>Australia/NZ +61 2.9923.4030</p> <p>Singapore +1 800.1811.202</p>

Introduction

About the AquaLogic .NET Application Accelerator

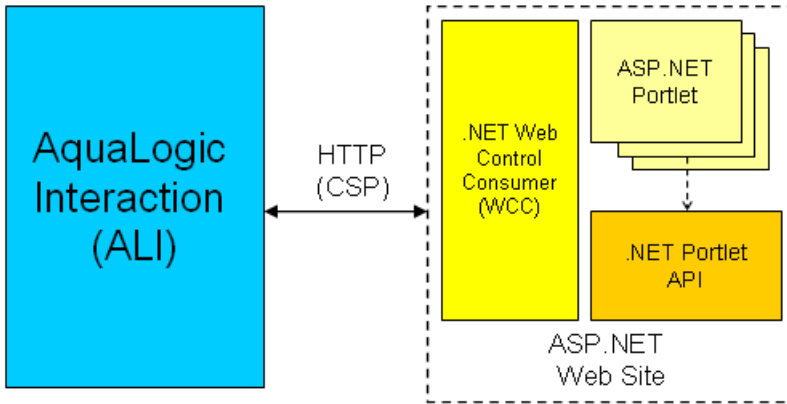
The AquaLogic .NET Application Accelerator is a collection of libraries and Microsoft Visual Studio 2005 integration features that simplify authoring of ASP.NET 2.0 portlets for BEA AquaLogic Interaction (ALI) and WebLogic Portal (WLP).

Each of the components in the AquaLogic .NET Application Accelerator serves a specific purpose:

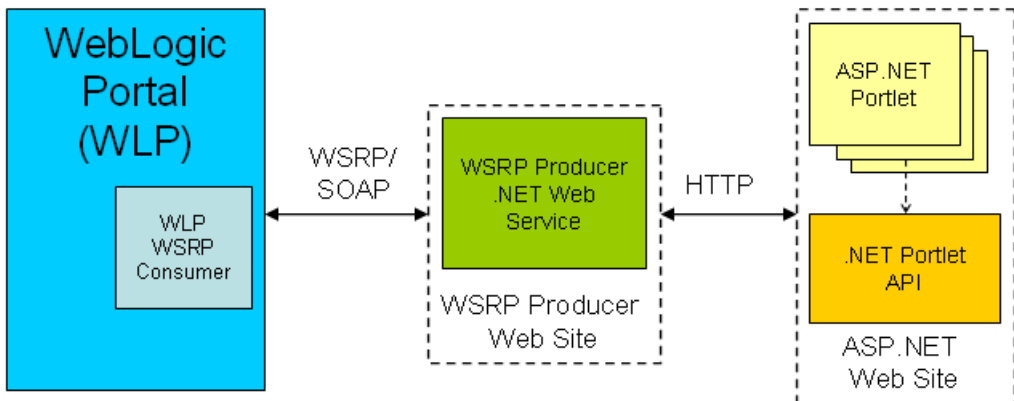
- **.NET WSRP Producer:** Surfaces ASP.NET web applications to WSRP (Web Services for Remote Portlets) Consumers by transforming WSRP requests into HTTP requests, and rewriting HTTP response content for the WSRP Consumer. Requires use of the .NET Portlet API.
- **.NET Portlet Toolkit:** Provides a set of project templates, file templates and a class library used to create portlets in Visual Studio. Includes separate templates and classes for WSRP (WLP) and ALI portlet development.
- **Web Control Consumer (WCC):** Transforms output rendered by ALI portlets into pages that can be consumed in a portal environment (AquaLogic Interaction only). This component is not required for WSRP portlets.

A different set of components is required for each portal configuration, as shown below.

To build and deploy **ALI portlets in AquaLogic Interaction**, the following components are required. In addition, the Image Service Files included in the .NET Portlet Toolkit must be installed on the ALI Image Service.



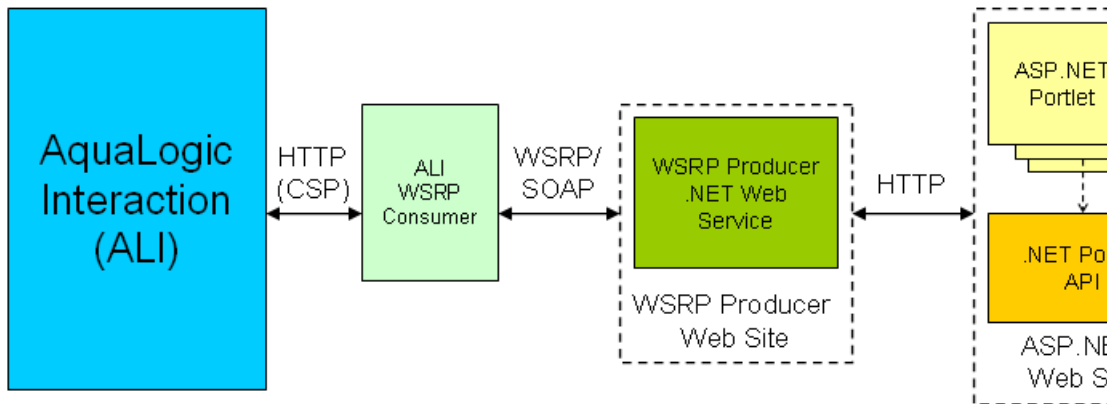
To build and deploy **WSRP portlets in WebLogic Portal**, the following components are required. In addition, the Microsoft Web Services Enhancements (WSE) 2.0 must be installed on the server that hosts the WSRP Producer and ASP.NET web sites.



To build and deploy **WSRP portlets in AquaLogic Interaction**, the WSRP Producer and the AquaLogic WSRP Consumer (separate product and installation) are required. In addition, the

Microsoft Web Services Enhancements (WSE) 2.0 must be installed on the server that hosts the WSRP Producer and ASP.NET web sites.

Note: This configuration is only efficient if you are building cross-platform WSRP portlets for both ALI and WLP; if you are building portlets for ALI only, use the first AquaLogic Interaction configuration shown above.



For a complete list of requirements, see [Hardware and Software Requirements for AquaLogic .NET Application Accelerator](#) on page 11.

Hardware and Software Requirements for AquaLogic .NET Application Accelerator

The following hardware and software is required to develop and deploy portlets using the .NET Application Accelerator.

Table 1: Hardware and Software Requirements

Component	Requirements
Host Computer	<ul style="list-style-type: none"> Windows Server 2003 SP2

Component	Requirements
Platform	<ul style="list-style-type: none">• Microsoft ASP.NET 2.0• Microsoft Web Service Enhancements (WSE) 2.0 SP3• IIS 6.0 (WSRP portlets only)• Microsoft Visual Studio 2005 (development machine only) <p>Note: Microsoft Web Services Enhancements (WSE) 2.0 is required on the server that hosts the WSRP Producer and/or .NET Portlet API. The WSE installation package is included in the .NET Application Accelerator installation package in the /thirdparty folder.</p>
	<ul style="list-style-type: none">• BEA AquaLogic Interaction (ALI) 6.0 and above• BEA WebLogic Portal (WLP) 9.2 or 10 MP1

Installation

Installing the AquaLogic .NET Application Accelerator

To install the AquaLogic .NET Application Accelerator, complete the following steps.

Make sure your system meets the prerequisites for installation. For information on which components are required for your configuration, see [About the AquaLogic .NET Application Accelerator](#) on page 9.

The 1.1 MP1 release of the .NET Application Accelerator includes two installers:

- To install the AquaLogic .NET WSRP Producer, run ALDotNetWSRPProducer.exe. For detailed instructions, see [Installing the AquaLogic .NET WSRP Producer](#) on page 15.
- To install the AquaLogic .NET Portlet API, WCC or image files, run ALDotNetPortletToolkit.exe. For detailed instructions, see [Installing the AquaLogic .NET Portlet Toolkit](#) on page 14.

After installation, to upgrade existing applications, see the following topics:

- To upgrade your WSRP Producer installation to version 1.1 MP1, see [Upgrading WSRP Producer 1.0 Installations](#) on page 17.

- To upgrade ALI portlets built using the .NET Portlet Toolkit 1.0, see [Upgrading ALI .NET Application Accelerator Portlets \(1.0 to 1.1 MPI\)](#) on page 19.
- To upgrade WLP portlets built using the .NET Portlet Toolkit 1.0, see [Upgrading WLP .NET Application Accelerator Portlets \(1.0 to 1.1 MPI\)](#) on page 20.
- To upgrade portlets built using the Web Control Consumer 2.1 or earlier, see [Upgrading Existing WCC Applications \(2.1.x and earlier\)](#) on page 21.

Installing the AquaLogic .NET Portlet Toolkit

To install the AquaLogic .NET Portlet Toolkit component of the AquaLogic .NET Application Accelerator, including the .NET Portlet API, WCC and related files, run ALDotNetPortletToolkit.exe.

The ALDotNetPortletToolkit.exe installation package installs the .NET Portlet API, WCC and related files. .

1. Copy the installation package to a location on the host server.
2. To launch the installer, double-click **ALDotNetPortletToolkit.exe**.
3. Complete the installation wizard pages as described in the table that follows.

Wizard Page	Description
-------------	-------------

Choose Components	Choose the components to install:
--------------------------	-----------------------------------

- | | |
|--|---|
| | <ul style="list-style-type: none">• .NET Portlet Toolkit: Installs class libraries and VisualStudio templates for both ALI and WSRP portlets.• .NET Web Controls Consumer (WCC): Installs all runtime components required to run the WCC. If you are developing WSRP portlets, this component is not required.• Image Service Files for ALI Image Server: Installs the URL-addressable resources that must be available for the WCC to operate correctly. This option can be used to install these resources on a separate static content server such as IIS or Apache. If you are developing WSRP portlets, this component is not required. |
|--|---|

Note: If you are installing in a distributed system (ALI is on a different server than the server that hosts portlets), you must run the installer twice: 1) install the .NET Portlet Toolkit and WCC on the remote server that hosts portlets, and 2) install the Image Service Files on the server that hosts the ALI Image Server.



Wizard Page	Description
Choose Install Folder	Enter the path to the folder where the Portlet Toolkit files should be installed. (This page appears only if the .NET Portlet Toolkit and/or WCC options were selected.)
Path to Image Service Files	This page displays the location on the server from which static content is served. The location should be the same as the ALI Image Service. (This page appears only if the Image Service Files for ALI Image Server option was selected.)
Pre-Installation Summary	Review your choices before clicking Install to proceed.
Installation Complete	Choose whether or not to restart your system and click Done to close the installer.

Once installation is complete, a set of project and file templates will be available in Microsoft Visual Studio 2005, and the installation directory will contain necessary resources and libraries.

Installing the AquaLogic .NET WSRP Producer

To install the AquaLogic .NET WSRP Producer component of the AquaLogic .NET Application Accelerator, run ALDotNetWSRPProducer.exe.

The ALDotNetWSRPProducer.exe installation package installs only the WSRP Producer. For instructions on installing the .NET Portlet API, WCC and related files, see [Installing the AquaLogic .NET Portlet Toolkit](#) on page 14.

1. Copy the installation package to a location on the host server.
2. To launch the installer, double-click **ALDotNetWSRPProducer.exe**.
3. Complete the installation wizard pages as described in the table that follows.

Wizard Page	Description
Choose Install Folder	Enter the path to the folder where the WSRP Producer should be installed.
Select IIS Web Site	Select whether to deploy the WSRP Producer in the default IIS web site or another web site.

Wizard Page	Description
Specify IIS Web Site Information	If you chose to deploy to another web site (not the default IIS web site), enter the name for the WSRP Producer web site and its unsecured and secured ports. Note: This page does not appear if you selected the default IIS web site on the previous page.
Pre-Installation Summary	Review your choices before clicking Next to proceed.
Installation Complete	Click Done to close the installer. You will be prompted to restart your machine.

Once installation is complete, the WSRP Producer web site will be registered with IIS. The WSRP Producer web site will be available at the following URL:
 http://<iis-website-address>/wsrpproducer1.1 MP1.

Note: If an incorrect web site port is specified during install, the Producer installation will be configured with incorrect service URLs and will not be accessible. The installer determines the hostname for Producer web service URLs from the fully-qualified domain name of the host machine. If this is not correct (for example, if the IIS instance uses a hostname alias) the service might not be accessible. The installer sets the Producer web service URLs using the http protocol; to use https, the service URLs must be updated. To update the Producer service URLs to resolve any of these issues, see *Configuring WSRP Producer Service URLs (WSRPService.wsdl)* in the [WSRP Development Guide](#).

Note: Microsoft Web Services Enhancements (WSE) 2.0 is required on the server that hosts the WSRP Producer and .NET Portlet API. The WSE installation package is included in the .NET Application Accelerator installation package in the /thirdparty folder.

Upgrading Existing Applications

Upgrading WSRP Producer 1.0 Installations

To upgrade an existing WSRP Producer 1.0 installation to use WSRP Producer 1.1 MP1, you must update the `portlets.xml` file to use the 1.1 MP1 `wsrp-producer.xml` file format.

In the 1.0 version of the WSRP Producer, portlet metadata was entered in the **portlets.xml** file located in the `\bin` subdirectory of the WSRP Producer web application. In the 1.1 MP1 version of the WSRP Producer, this file has been renamed **wsrp-producer.xml** and contains additional configuration settings that control the functionality of the WSRP Producer.

The 1.0 `portlets.xml` format is not forward compatible with the 1.1 MP1 WSRP Producer and must be upgraded to the 1.1 MP1 `wsrp-producer.xml` format. The required changes are summarized below.

1. Change the `portlets.xml` file name to “`wsrp-producer.xml`”.
2. Wrap the 1.0 root element `<portlets>` in the new root element `<wsrp-producer>`.
3. Change the default namespace to
`http://www.bea.com/al/dotnet/wsrpproducer/1.1` 4.

4. Add a namespace declaration to the root element for the xml schema namespace using the “xs” prefix as follows: `xmlns:xs="http://www.w3.org/2001/XMLSchema"`
 5. Within each `<portlet>` element, make the following changes:
 - a) Remove all `<portlet-name>` elements. This element is no longer used.
 - b) If you have multiple `<display-name>` elements for a single portlet, remove all but one. Only a single `<display-name>` element is allowed for each portlet. If you included display name localization information in `portlets.xml`, it must be changed to the new format. For detailed instructions, see **Localizing Portlet Metadata** in the WSRP Development Guide included with the .NET Application Accelerator.
 - c) Rename the `<view-url>` element to `<url>` and add the `id` attribute with the value “default”..
 - d) In the `<supports>` element, make the following changes in each `<portlet-mode>` element:
 1. Add the child element `<name>` and set the text content as follows:
 - If portlet-mode was “View” use “wsrp:view” as the value of the `<name>` element.
 - If portlet-mode was “Edit” use “wsrp:edit” as the value of the `<name>` element.
 - If portlet-mode was “Preview” use “wsrp:preview” as the value of the `<name>` element.
 2. Add the child element `<url>` with a single `idref` attribute with the value “default”.
- For example, this entry in `portlets.xml`:
- ```
<portlet-mode>View</portlet-mode>
```
- becomes this entry in `wsrp-producer.xml`:
- ```
<portlet-mode>
  <name>wsrp:view</name>
  <url idref="default"/>
</portlet-mode>
```
- e) In the `<portlet-info>` element, add a `lang` attribute with the appropriate locale (usually “en”) to the `<title>` and `<short-title>` elements.
 - f) Rename the `<portlet-preferences>` element to `<portlet-properties>`. Rename each `<preference>` child element to `<property>` and add a `type` attribute with the value “xs:string”.

For more information on `wsrp-producer.xml`, see *WSRP Producer Configuration Elements* (*wsrp-producer.xml*) in the *WSRP Development Guide*. For a detailed schema reference, see the `wsrp-producer.xsd` file in the WSRP Producer bin directory.

Upgrading ALI .NET Application Accelerator Portlets (1.0 to 1.1 MP1)

To upgrade existing ALI portlets developed using the AquaLogic .NET Application Accelerator version 1.0, you must make modifications to your code.

If your portlet uses the profile provider, you must change the name and type of the profile provider defined in your project's `Web.config` file from `EDKProfileProvider` to `IDKProfileProvider` as shown in the code snippet below.

```
<profile enabled="true"
defaultProvider="IDKProfileProvider"
automaticSaveEnabled="true">
  <providers>
    <clear />
    <add name="IDKProfileProvider"
type="BEA.ALI.Web.Profile.IDKProfileProvider,
PortletAPI" description="IDK based profile provider"
/>
  </providers>
</properties>
  <clear />
</properties>
</profile>
```

The other namespace changes implemented in version 1.1 MP1 provide new classes and do not affect existing 1.0 portlets. (You may need to add namespaces to access new functionality.)

Upgrading WLP .NET Application Accelerator Portlets (1.0 to 1.1 MP1)

To upgrade existing WLP portlets developed using the AquaLogic .NET Application Accelerator version 1.0, you must make modifications to your code.

If your portlet uses the profile provider, you must make the following changes:

1. Change the name and type of the profile provider defined in the project's Web.config file from `EDKProfileProvider` to `IDKProfileProvider` as shown in the code snippet below.

```
<profile enabled="true" defaultProvider="IDKProfileProvider"
automaticSaveEnabled="true">
  <providers>
    <clear />
    <add name="IDKProfileProvider"
type="BEA.ALI.Web.Profile.IDKProfileProvider, PortletAPI"
description="IDK based profile provider" />
  </providers>
  <properties>
    <clear />
  </properties>
</profile>
```

2. Upgrade property names to the 1.1 MP1 syntax. In version 1.0, the property set name was appended to the property name. In 1.1 MP1, the property name is placed in a group element.
 - a) For each custom property set or user profile grouping, create a `<group>` element in the `<properties>` element within the `<profile>` element in the Web.config file for the portlet project. Add each user profile property to its respective group. Each property must be defined with a name and a type. If you provide a default value, it will be used if the property is not available.

Note: The name of the property **must** match the name sent by the source application. For more information about sending user profile properties from WebLogic Portal, see *Developing User Profiles* in the WLP documentation.

```
<properties>
  <group name="homeInfo">
    <group name="online">
```

```

        <add name="email" type="string"/>
    </group>
</group>
<group name="CustomProperties ">
    <add name="title" type="string" defaultValue="No Title"/>
</group>
<group name="MyProfile">
    <add name="Name" type="String" defaultValue="Guest"/>
    <add name="Age" type="Int32"/>
</group>
</properties>

```

- b) Reference the property in the portlet page by name using the Profile object. The correct syntax is shown below.

```

string title = Profile.CustomProperties.Title;
string name = Profile.MyProfile.Name;
int age = Profile.MyProfile.Age;

```

The other namespace changes implemented in version 1.1 MP1 provide new classes and do not affect existing 1.0 portlets. (You may need to add namespaces to access new functionality.)

Upgrading Existing WCC Applications (2.1.x and earlier)

To migrate existing applications built with the Web Control Consumer 2.1.x or earlier, you must make minor code modifications. Upgrading from versions 2.2.x and above requires no changes to the existing code.

Even though 2.1.x is very similar to later versions, there are some differences that might require some changes to existing code.

- **Modify JavaScript code to run only once:** In 2.1.x and earlier, JavaScript was executed only upon the first rendering of the page. Some applications may assume that inline code will be run only once; this code must be modified to run only once. (Many existing applications register for events upon the initial render; this code must be changed to prevent multiple registrations.) This can be done easily on the server, by including the code `only if IsPostBack == false`. This can also be done on the client a few ways, such as:

```

<script>
    if(!already_run)

```

```
{  
  //run my code here...  
  var already_run = true;  
}  
</script>
```

- **Change `ptrender` setting:** In 2.1.x, buttons did not submit a form in-page by default. The default behavior now is to submit the form in-page, which can be disabled by added a `ptrender=false` attribute to the button. If there are buttons relying on the default behavior of not performing an in-page refresh, these must be changed to include the `ptrender=false` attribute (including a `ptrender=true` attribute now has no effect).