BEAAquaLogic®
Ensemble

Installation Guide

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Welcome to AquaLogic Ensemble

This book describes how to install and deploy AquaLogic Ensemble.

How to Use This Book

This guide has been designed to be a quick reference for users with installation experience, while also providing detailed instructions for users installing for the first time.

Audience

This guide is written for the user responsible for installing Ensemble. This user must have strong knowledge of the platform operating system, database, web and application servers, and any other third-party software required for installation.

Organization

This guide includes the following chapters:

- This chapter provides information on how to use this guide and describes other resources available to help install, deploy, and administer Ensemble.

- Chapter 2, "Installation Prerequisites" provides hardware and software requirements, as well as environmental and third-party software prerequisites. You must read this chapter and meet the prerequisites prior to proceeding to the installation.

- Chapter 3, "Quickstart Overview" provides a high level overview of the Ensemble installation procedures. Sufficient detail is provided to enable an experienced user to

quickly install Ensemble. Cross-references link the high-level tasks to detailed procedures in other chapters.

- Chapter 4, "Installation" provides detailed instructions for installing and configuring Ensemble.

- Appendix A, "Uninstalling" provides instructions for uninstalling Ensemble.

Typographical Conventions

This book uses the following typographical conventions.

Table 1-1 Typographical Conventions

Convention	Typeface	Examples/Notes
• Items you need to take action on (such as files or screen elements)	**bold**	• Upload **Procedures.doc** to the portal. • To save your changes, click **Apply Changes**.
• User-defined variables • New terms • Emphasis • Object example names	*italic*	• The migration package file is located in *install_dir*\serverpackages. • *Portlets* are Web tools embedded in your portal. • The URI *must* be a unique number. • The example Knowledge Directory displayed in Figure 5 shows the *Human Resources* folder.

• Text you enter
• Computer generated text (such as error messages)
• Code samples
	`computer`	• Type `Marketing` as the name of your community.
		• This script may generate the following error: `ORA-00942 table or view does not exist`
		• Example:
		`<setting name="SSOCookieIsSecure">`
		`   <value xsi:type="xsd:integer">0</value>`
		`</setting>`

• Environment variables	ALL_CAPS	• The default location of BEA_HOME is C:\bea.

BEA Documentation and Resources

This section describes other documentation and resources provided by BEA.

Table 1-2 BEA Documentation and Resources

Resource	Description
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.
Administrator Guide	This guide describes how to manage and maintain Ensemble. It is available on edocs.bea.com.
Online Help	The online help is written for all levels of Ensemble users. It describes the administrative user interface for Ensemble and gives detailed instructions for completing tasks in Ensemble. To access online help, click the help icon.
Deployment Guide	This guide is written for business analysts and system administrators. It describes how to plan your AquaLogic User Interaction deployment. It is available on edocs.bea.com.
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.
dev2dev.bea.com	Download developer tools and documentation, get help with your development project, and interact with other developers via BEA's dev2dev newsgroups.

Table 1-2 BEA Documentation and Resources

Resource	Description
AquaLogic User Interaction Support Center	The AquaLogic User Interaction Support Center is a comprehensive repository for technical information on AquaLogic User Interaction 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 AquaLogic User Interaction-related needs. The Support Center encompasses the following communities: **Technical Support Center** Submit and track support incidents and feature requests, search the knowledge base, access documentation, and download service packs and hotfixes. **User Group** Visit the User Group section to collaborate with peers and view upcoming meetings. **Product Center** Download products, read release notes, access recent product documentation, and view interoperability information. **Developer Center** Download developer tools and documentation, get help with your development project, and interact with other developers via BEA's dev2dev newsgroups. **Education Services** Find information about available training courses, purchase training credits, and register for upcoming classes. If you do not see the Support Center when you log in to http://support.plumtree.com, contact ALUIsupport@bea.com for the appropriate access privileges.
Technical Support	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. E-mail: ALUIsupport@bea.com Phone Numbers: U.S.A. +1 866.262.PLUM (7586) or +1 415.263.1696 Europe +44 1494 559127 Australia/NZ +61 2.9923.4030 Asia Pacific +61 2.9931.7822 Singapore +1 800.1811.202

Installation Prerequisites

Before you run the AquaLogic Ensemble installer, complete the following steps:

1. Download the most up-to-date documentation from edocs.bea.com.

2. Read the release notes for additional information on compatibility issues, known problems, and workarounds that might affect how you proceed with your deployment. Release notes are located at the top-level directory of the product package.

3. Plan your deployment. For installation in a production environment, determining the number of machines and how to distribute the components of Ensemble across the machines can be complicated. The BEA Business Interaction Division Services or your BEA integration partner can assist you in this process.

4. Provision host machines and configure software dependencies for your deployment. For details on hardware and software requirements, see "Hardware and Software Requirements" on page 2-1.

Hardware and Software Requirements

The following table summarizes the hardware and software requirements for AquaLogic Ensemble.

Note: For the most current platform support information, refer to the Interoperability Matrix in the Product Center at support.plumtree.com.

Caution: IPv6 is not supported. You should verify that IPv6 is not enabled prior to installing AquaLogic Ensemble.

Caution: Underscores ("_") in hostnames are not allowed according to Internet standards, and will break the Ensemble Console. For details, see RFC 952..

Table 2-1 Hardware and Software Requirements

Component	Requirement

Ensemble Host Machine	**Software**
	• Microsoft Windows Server 2003 SP1, Standard, Enterprise, and Datacenter, on x86
	
	Recommended Minimum Hardware
	
	● Development Install
	  – 2GHz CPU
	  – 2GB RAM
	
	● Production Deployment
	  – 2GHz CPU per node
	  – 1.5GB RAM per instance of the Security and Directory Service
	  – 1.5GB RAM per instance of the Ensemble Proxy
	  – 0.5GB RAM per instance of the Login Server
	  – 0.5GB RAM per insance of the Ensemble Admin UI

Database Server Host Machine	• Microsoft SQL Server 2000 SP3a or SP4 • Microsoft SQL Server 2005 • Oracle 9i (9.2.0.4^) in default or Oracle RAC configuration • Oracle 10g (10.1.0.3^) and 10g R2 (10.2.0.1^) in default or Oracle RAC configuration
Analytics Compatibility	• AquaLogic Analytics 2.1
ALI Portal Compatibility	• AquaLogic Interaction 6.0, 6.0 SP1, 6.1, 6.1 MP1, 6.1 MP1, 6.1 MP1 Patch 1, and 6.1 MP2
Ensemble Administration Client Browser	• Firefox 2.0^ • Internet Explorer 6.0, 7.0 • Safari 2.0^

Quickstart Overview

This chapter provides brief, high-level instructions for the installation of AquaLogic Ensemble, and is intended to quickly guide experienced administrators through the installation procedure.

For detailed instructions, see Chapter 4, "Installation."

For instructions on upgrading to the latest version of Ensemble, see Chapter 5, "Upgrade."

To install Ensemble:

1. Verify that you have met the prerequisites for installation. For details, see Chapter 2, "Installation Prerequisites."

2. Configure the Ensemble database. For details, see "Configuring the AquaLogic Ensemble Database" on page 3-2.

3. Install the Ensemble components. For details, see "Installing the AquaLogic Ensemble Components" on page 3-3.

4. Run the Security and Directory Service database script on the AquaLogic Interaction portal database. For details, see "Running the Security and Directory Service (SDS) Database Script" on page 3-4.

5. Start and verify the Ensemble services. For details, see "Starting and Verifying Ensemble Services" on page 3-4.

Configuring the AquaLogic Ensemble Database

- To configure the Ensemble database on Microsoft SQL Server, see "Configuring a Microsoft SQL Server Database" on page 3-2.

- To configure the Ensemble database on Oracle, see "Configuring an Oracle Database" on page 3-2.

Configuring a Microsoft SQL Server Database

This section describes how to create and configure the Ensemble database on Microsoft SQL Server.

To set up the Ensemble database on SQL Server:

1. Create the Ensemble database.

   On SQL Server 2005, configure the database to use **SQL Server 2000 (80) compatibility level**.

2. Create the Ensemble database user. Set the user's default database to be the Ensemble database you created.

   On SQL Server 2000:

   a. Use **SQL Server Authentication**.

   b. Grant the user **public** and **db_owner** roles on the Ensemble database.

   c. Grant the user all permissions on the Ensemble database.

   On SQL Server 2005:

   a. Use **SQL Server Authentication**.

   b. Grant the user the **sysadmin** server role.

For details on configuring a SQL Server database for Ensemble, see "Creating and Configuring the Ensemble Database on Microsoft SQL Server" on page 4-2.

Configuring an Oracle Database

This section discusses how to create and configure the Ensemble tablespace on Oracle.

To set up the Ensemble tablespace on Oracle:

1. Create the Ensemble tablespace in the ALI portal database instance. The Ensemble database must be configured to **Automatically extend data file**.

2. Create the Ensemble schema user.

3. Grant the Ensemble schema user default ownership of the Ensemble tablespace.

4. Grant the Ensemble schema user the **Resource** role.

For details on configuring an Oracle database for Ensemble, see "Creating and Configuring the Ensemble Tablespace on Oracle" on page 4-3.

Installing the AquaLogic Ensemble Components

This section describes how to install the Ensemble components. The Ensemble components may be installed in any order; however, you should not start any of the components until all components are installed.

To install the Ensemble components:

1. Stop all AquaLogic User Interaction services on the host.

2. Launch the AquaLogic Ensemble installer as the local administrator. The installer is **ALEnsemble_v1-0_mp2.exe**

   The installer prompts you for specific information about your system and configuration.

   Note: If your AquaLogic Interaction is hosted on a non-Windows platform, do not install the Image Service component using the Ensemble installer. Instead, copy **imagesvr.tgz** to the Image Service host, unpack, and execute the **updateimageserver.sh** shell script. For details, see "Installing the Image Service Component on a Non-Windows Host" on page 4-6.

3. Configure all flagged settings in the Configuration Manager. For more details on which settings need to be configured, see the online help in the Configuration Manager.

For details on installing the Ensemble components, see "Installing the AquaLogic Ensemble Components" on page 4-4.

Running the Security and Directory Service (SDS) Database Script

Caution: If you have installed Analytics 2.1, Pathways 1.0, or any other product that utilizes the Security and Directory Service (SDS), and the SDS tables have been created in the ALI portal database, do not run the create tables script.

Instructions for updating the ALI portal database for Ensemble and the SDS vary slightly depending on the type of database you have and whether or not the SDS has already been installed by another product.

- If the SDS has not already been installed by another product, run the SDS create tables script:
  - On SQL Server, run **<PT_HOME>\securityservice\1.0\sql\mssql\create_tables_mssql.sql** against the ALI portal database. It is recommended you run the script as **sa** so that all objects created are owned by **dbo**.
  - On Oracle, as the owner of the Oracle system files, run **<PT_HOME>\securityservice\1.0\sql\oracle\create_tables_oracle.sql** against the ALI portal database.

- If the SDS was installed by Analytics 2.1, run the SDS update tables script:
  - On SQL Server, run **<PT_HOME>\securityservice\1.0\sql\mssql\update_tables_mssql.sql** against the ALI portal database. It is recommended you run the script as **sa** so that all objects created are owned by **dbo**.
  - On Oracle, as the owner of the Oracle system files, run **<PT_HOME>\securityservice\1.0\sql\oracle\update_tables_oracle.sql** against the ALI portal database.

- If the SDS was installed by Pathways 1.0, the SDS database tables do not require any updates. Do not run either of the SDS database scripts.

For details on running the SDS database script, see "Running the Security and Directory Service (SDS) Database Script" on page 4-6.

Starting and Verifying Ensemble Services

This section describes how to start Ensemble services and verify operation.

Note: You must configure all services with configuration manager before starting them for the
first time.

Verify that the following AquaLogic User Interaction services are started prior to starting the
Ensemble services:

- API Service

- Image Server

- Portal Admin Server

- Automation Server

- Search

Starting and Verifying the Security and Directory Service (SDS)

To start and verify the SDS:

1. From Services, select and start the **BEA ALI Security and Directory Service** service.

2. Verify the operation of the SDS by browsing to the URL
http://<ensemble_adminui_host>:20040/securityservice/services/v1/SecurityAPI.

The message "Hi there, this is an AXIS service!" is displayed.

Starting and Verifying the Login Server

To start and verify the Login Server

1. From Services, select and start the **BEA AL Login Server** service.

2. Verify the operation of the Login Server by browsing to the URL:
http://<ensemble_adminui_host>:20060/loginserver/login/

The directory listing for /login/ is displayed.

Starting and Verifying the Ensemble Admin UI

To start and verify the Ensemble Admin UI:

1. From Services, select and start the **BEA AL Ensemble Administrative UI** service.

2. Verify the operation of the Ensemble Admin UI by browsing to the Admin UI URL:
   http://<ensemble_adminui_host>:20070/ensembleadminui

   The Ensemble Console is displayed.

Starting and Verifying the Ensemble Proxy

To start and verify the Ensemble Proxy:

1. From Services, select and start the **BEA AL Ensemble Proxy** service.

2. Verify the operation of the Ensemble Proxy by browsing to the Proxy URL:
   http://<ensemble_proxy_host>:20050/welcome

Installation

This chapter describes how to install AquaLogic Ensemble.

For a high-level overview intended to quickly guide an experienced user through the install process, see Chapter 3, "Quickstart Overview."

For instructions on upgrading to the latest version of Ensemble, see Chapter 5, "Upgrade."

To install Ensemble:

1. Verify that you have met the prerequisites for installation. For details, see Chapter 2, "Installation Prerequisites."

2. Configure the Ensemble database. For details, see "Configuring the AquaLogic Ensemble Database" on page 4-2.

3. Install the Ensemble components. For details, see "Installing the AquaLogic Ensemble Components" on page 4-4.

4. Run the Security and Directory Service database script on the ALI portal database. For details, see "Running the Security and Directory Service (SDS) Database Script" on page 4-6.

5. Start and verify the Ensemble services. For details, see "Starting and Verifying Ensemble Services" on page 4-9.

Configuring the AquaLogic Ensemble Database

This section describes how to create and configure the database used by Ensemble. It is expected that the person setting up the Ensemble database has a strong understanding of database system administration.

To set up the Ensemble database, follow the steps in the subsection appropriate to your environment:

- To set up the Ensemble databases on Microsoft SQL Server, see "Creating and Configuring the Ensemble Database on Microsoft SQL Server" on page 4-2.

- To set up the Ensemble databases on Oracle, see "Creating and Configuring the Ensemble Tablespace on Oracle" on page 4-3.

Creating and Configuring the Ensemble Database on Microsoft SQL Server

This section describes how to create and configure the Ensemble database on Microsoft SQL Server.

To set up the Ensemble database on SQL Server:

1. Create the Ensemble database:

   a. Set the Ensemble database name to the name you specified for the Ensemble database when you completed the worksheets provided in the *Installation Worksheet for AquaLogic Ensemble 1.0 MP2*.

   b. Verify that the initial size of the Ensemble database is sufficient for your Ensemble deployment. For a relatively small installation, configure a database that is at least 100 MB. For a large enterprise with as many as 20,000 users, configure a database that is as large as 1 GB.

   c. (**SQL Server 2005 only**) Configure the Ensemble database to use **SQL Server 2000 (80) compatibility level**.

2. Create the Ensemble database user:

   a. Create the Ensemble database user with the user name you designated when you completed the worksheets provided in the *Installation Worksheet for AquaLogic Ensemble 1.0 MP2*.

   b. Configure the Ensemble database user's authentication mode:

- On **SQL Server 2000**, select **SQL Server Authentication**.

- On **SQL Server 2005**, select **SQL Server Authentication mode**.

c. Set the Ensemble database user password to the password you designated when you completed the worksheets provided in the *Installation Worksheet for AquaLogic Ensemble 1.0 MP2*.

d. Set the Ensemble database user's default database to the Ensemble database.

e. Configure the Ensemble database user's roles:

- On **SQL Server 2000**, grant the Ensemble database user the **public** and **db_owner** roles for the Ensemble database.

- On **SQL Server 2005**, grant the Ensemble database user the **sysadmin** server role.

f. (**SQL Server 2000 only**) On the Ensemble database **Properties | Permissions** tab, grant the Ensemble database user all permissions on the Ensemble database.

Creating and Configuring the Ensemble Tablespace on Oracle

This section discusses how to create and configure the Ensemble tablespace on Oracle.

To set up the Ensemble tablespace on Oracle:

1. Create the Ensemble tablespace:

a. Create a new tablespace for Ensemble in the ALI portal database instance.

b. Use the name you designated for the Ensemble tablespace when you completed the worksheets provided in the *Installation Worksheet for AquaLogic Ensemble 1.0 MP2*

c. Verify that the initial size of the tablespace is sufficient for your Ensemble deployment. For a relatively small installation, configure a tablespace that is at least 100 MB. For a large enterprise with as many as 20,000 users, configure a tablespace that is as large as 1 GB.

d. Configure the newly created Ensemble tablespace to **Automatically extend data file**.

2. Create the Ensemble schema user:

a. Use the name you designated for the Ensemble schema user when you completed the worksheets provided in the *Installation Worksheet for AquaLogic Ensemble 1.0 MP2*.

b. Grant the Ensemble schema user default ownership of the newly created Ensemble tablespace.

c. Grant the Ensemble schema user the **Resource** role.

Installing the AquaLogic Ensemble Components

This section describes how to install the Ensemble components. The Ensemble components are:

- Administrative UI and Login Server

- Proxy

- Image Service Files

- Security and Directory Service

When performing a clean install, you can install the Ensemble components in any order; however, you should not start any of the components until all components are installed.

Launching the Ensemble Installer

This section describes how to launch the Ensemble installer.

To launch the Ensemble installer:

1. Log into the Ensemble host machine as the local Administrator.

2. Copy the installer to a temporary location.

    The installer is **ALEnsemble_v1-0_mp2.exe**.

3. Close all unnecessary windows and applications.

4. Stop all AquaLogic User Interaction services on the host.

5. Double-click **ALEnsemble_v1-0_mp2.exe** to launch the installer.

Completing the Installer Wizard Pages

The following tables describe the Ensemble installer wizard pages. The installer wizard pages that appear vary according to the selections you choose.

Note: If the installer setting does not apply to your Web application server or to the Ensemble components you are installing, the installer does not display the wizard page.

Table 4-1 Ensemble Installer Wizard Pages

Wizard Page	Description
Introduction	This installer wizard page provides a brief description of the installer.
Choose Components	Select either **Complete** or **Custom**. If you select **Complete**, a full set of Ensemble components is installed. If you select **Custom**, you can select individual components to install according to your deployment plan. Note: If your Image Service is hosted on a non-Windows platform, do not install the Image Service component using the Ensemble installer. Instead, follow the instructions in "Installing the Image Service Component on a Non-Windows Host" on page 4-6.
Installation Location	Accept the default installation folder or select a different folder in which to install Ensemble.
Configuration Manager - Port and Password	Enter the Port and Password for the Configuration Manager web tool. The Configuration Manager will be used to complete the installation of Ensemble.
Installation Location for Image Service Files	Accept the default location or specify a different folder in which to install the Image Service files. Note: If you are not installing the Image Service component at this time, this wizard page is not displayed.
Pre-Installation Summary	Review the list of components to be installed. Click **Install**.
Launch Configuration Manager	Launch the Configuration Manager. The Configuration Manager is located at: *https://[host]:[port]/cm/ui/cm.jsf* Where [host] is the host you are installing on and [port] is the port you specified. Log in to the Configuration Manager using the Username *administrator* and the password you specified. Follow the instructions in the Configuration Manager to complete all configurations with missing or incorrect settings. When you have completed all Configuration Manager tasks, return to the installer and click **Done**.

Installing the Image Service Component on a Non-Windows Host

The Ensemble Image Service component must be manually installed when the AquaLogic Interaction Image Service is hosted by a non-Windows platform. When the Image Service is hosted on a Windows plaform, use the Ensemble Installer to install the Ensemble Image Service component. For details on installing to a Windows plaform, see "Installing the AquaLogic Ensemble Components" on page 4-4.

To install the Ensemble Image Service component to a UNIX or Linux plaform:

1. Copy **imagesvr.tgz** to the UNIX or Linux computer hosting the AquaLogic Interaction Image Service. The imagesvr.tgz file is found in the download package and the physical media.

2. Unpack **imagesvr.tgz**. For example:

   ```
   gunzip -c imagesvr.tgz | tar -xvf -
   ```

   The following two files are created:

   – updateimageserver.sh

   – imageserver.tar

3. Verify that the current user has permission to execute **updateimageserver.sh** and to write to the Image Service directory, *install_dir*/ptimages.

4. Execute **updateimageserver.sh**, using the full path to your Image Service directory as an argument. For example:

   ```
   ./updateimageserver.sh install_dir/ptimages
   ```

   On success the script displays:

   The script completed successfully. Please restart the Web Server (e.g. Apache) that runs the AquaLogic Image Service.

5. Restart the web server hosting your Image Service.

Running the Security and Directory Service (SDS) Database Script

The Security and Directory Service (SDS) requires additional tables in the AquaLogic Interaction portal database.

Caution: If you have installed Analytics 2.1, Pathways 1.0, or any other product that utilizes the SDS, and the SDS tables are already created in the ALI portal database, do not run the create tables script. It will drop and re-create the SDS tables along with the data, potentially breaking other applications.

Instructions for updating the ALI portal database for Ensemble and the SDS vary slightly depending on the type of database you have and whether or not the SDS has already been installed by another product.

On SQL Server:

- If the SDS has not already been installed by another product, the SDS tables must be created. For details, see "Running the SDS Database Script on SQL Server for a New Install of the SDS" on page 4-7.

- If the SDS was installed by Analytics 2.1, the SDS tables must be updated. For details, see "Running the SDS Database Script on SQL Server for an Existing Install of the SDS" on page 4-8.

- If the SDS was installed by Pathways 1.0, no additional steps are necessary. Do not run either of the SDS database scripts.

On Oracle:

- If the SDS has not already been installed by another product, the SDS tables must be created. For details, see "Running the SDS Database Script on Oracle for a New Install of the SDS" on page 4-8.

- If the SDS was installed by Analytics 2.1, the SDS tables must be updated. For details, see "Running the SDS Database Script on Oracle for an Existing Install of the SDS" on page 4-8.

- If the SDS was installed by Pathways 1.0, no additional steps are necessary. Do not run either of the SDS database scripts.

Running the SDS Database Script on SQL Server for a New Install of the SDS

It is recommended that you run the script as the **sa** user, so that all objects created are owned by **dbo**.

To run the SDS database script on SQL Server:

1. Copy the **<PT_HOME>\securityservice\1.0\sql\mssql\create_tables_mssql.sql** script from the Ensemble host machine to the ALI portal database host machine.

2. As the **sa** user, run the **create_tables_mssql.sql** script on the ALI portal database.

Running the SDS Database Script on Oracle for a New Install of the SDS

To run the SDS database script on Oracle:

1. Copy the **<PT_HOME>\securityservice\1.0\sql\oracle\create_tables_oracle.sql** script from the Ensemble host machine to the ALI portal database host machine.

2. As the owner of the Oracle system files, run the **create_tables_oracle.sql** script on the ALI portal tablespace.

Running the SDS Database Script on SQL Server for an Existing Install of the SDS

It is recommended that you run the script as the **sa** user, so that all objects created are owned by **dbo**.

To run the SDS database script on SQL Server:

1. Copy the **<PT_HOME>\securityservice\1.0\sql\mssql\update_tables_mssql.sql** script from the Ensemble host machine to the ALI portal database host machine.

2. As the **sa** user, run the **update_tables_mssql.sql** script on the ALI portal database.

Running the SDS Database Script on Oracle for an Existing Install of the SDS

To run the SDS database script on Oracle:

1. Copy the **<PT_HOME>\securityservice\1.0\sql\oracle\update_tables_oracle.sql** script from the Ensemble host machine to the ALI portal database host machine.

2. As the owner of the Oracle system files, run the **update_tables_oracle.sql** script on the ALI portal tablespace.

Starting and Verifying Ensemble Services

This section describes how to start Ensemble services and verify operation.

Note: You must configure all services with configuration manager before starting them for the first time.

Verify that the following AquaLogic User Interaction services are started prior to starting the Ensemble services:

- API Service

- Image Server

- Portal Admin Server

- Automation Server

- Search

Note: For each service below, the URL to verify the service is given with the default port. If you specified a different port during configuration of Ensemble, use that port.

Starting and Verifying the Security and Directory Service (SDS)

To start and verify the SDS:

1. From Services, select and start the **BEA ALI Security and Directory Service** service.

2. Verify the operation of the SDS by browsing to the URL **http://<ensemble_adminui_host>:20040/securityservice/services/v1/SecurityAPI**.

   The message "Hi there, this is an AXIS service!" is displayed.

Starting and Verifying the Login Server

To start and verify the Login Server

1. From Services, select and start the **BEA AL Login Server** service.

2. Verify the operation of the Login Server by browsing to the URL: **http://<ensemble_adminui_host>:20060/loginserver/login/**

   The directory listing for /login/ is displayed.

Starting and Verifying the Ensemble Admin UI

To start and verify the Ensemble Admin UI:

1. From Services, select and start the **BEA AL Ensemble Administrative UI** service.

2. Verify the operation of the Ensemble Admin UI by browsing to the Admin UI URL:
   http://<ensemble_adminui_host>:20070/ensembleadminui/run/

   The Ensemble Console is displayed.

Starting and Verifying the Ensemble Proxy

To start and verify the Ensemble Proxy:

1. From Services, select and start the **BEA AL Ensemble Proxy** service.

2. Verify the operation of the Ensemble Proxy by browsing to the Proxy URL:
   http://<ensemble_proxy_host>:20050/welcome

Upgrade

To upgrade Ensemble 1.0 to Ensemble 1.0 MP2, run the Ensemble 1.0 MP2 installer on each server hosting Ensemble components. Install only the components that were installed for Ensemble 1.0. For details on running the installer, see "Installing the AquaLogic Ensemble Components" on page 4-4.

The **wrapper.conf** file will be replaced during the upgrade. If you have made any modifications to wrapper.conf, you will need to redo these modifications in the new file. Typically, modifications to wrapper.conf are done when configuring Ensemble for SPNEGO. For details on configuring SPNEGO, see the Proxy Authentication chapter in the *AquaLogic Ensemble Administrator Guide*.

Aside from the settings in wrapper.conf, all other configuration information is retained.

Upgrade

Uninstalling

This chapter describes how to uninstall the components of Ensemble.

To uninstall Ensemble:

1. Start the uninstaller:

   Use Add or Remove Programs to remove AquaLogic Ensemble.

2. On the Uninstall Ensemble page, click **Uninstall**.

3. On the Uninstall Complete page, review any items that could not be removed.

4. Restart the machine to complete the uninstall process.

Uninstalling

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