

Agile Product Lifecycle Management for Process

Install/Upgrade Manual

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March 11, 2008

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CHAPTER 1

Installation

This chapter discusses Agile installation and includes the following topics:

- ❑ *Installation Requirements*
 - ❑ *Pre-Installation Checklists*
 - ❑ *Installation*
 - ❑ *Post-Installation Checklists*
-

Overview

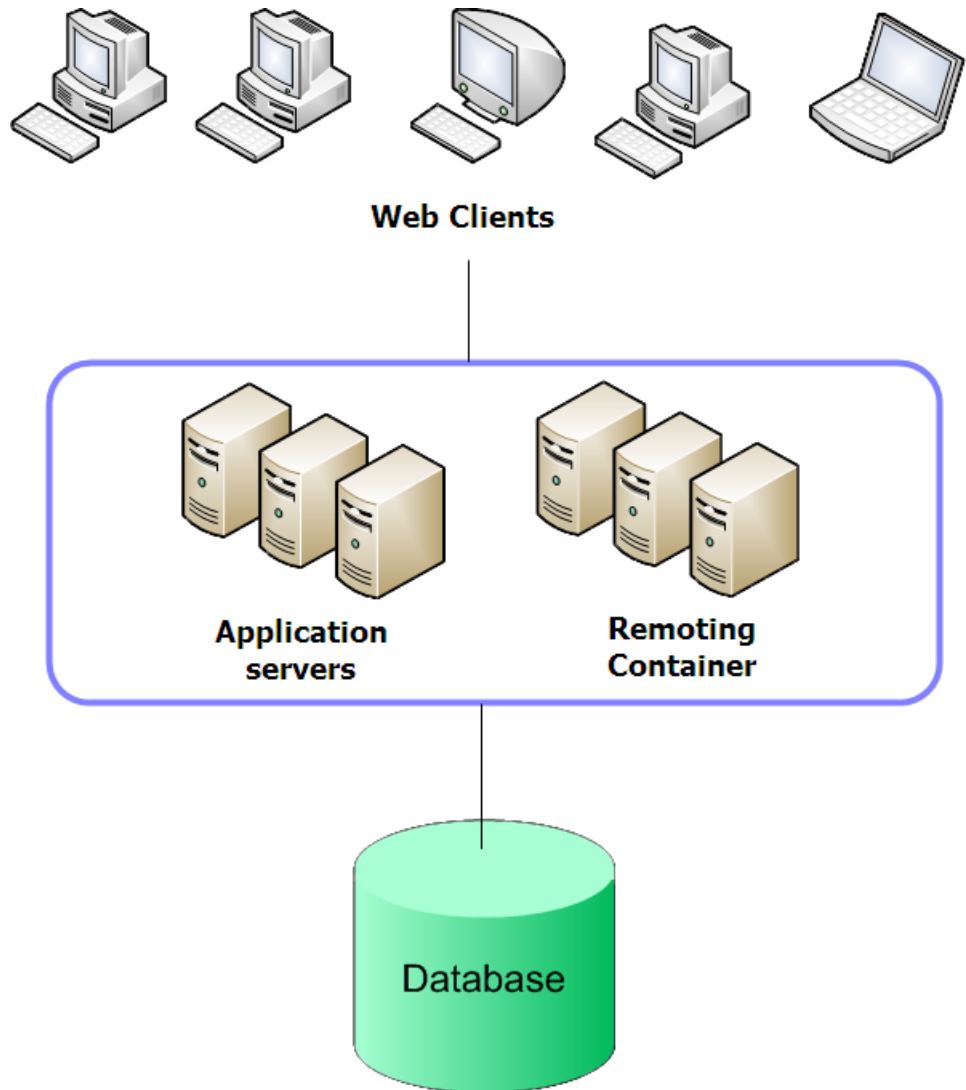
Installing Agile Product Lifecycle Management for Process involves several steps, including:

- ❑ Understanding system requirements
- ❑ Performing pre-installation tasks (such as setting up the Web application server and database)
- ❑ Running the command prompt installation batch files
- ❑ Performing post-installation tasks, such as:
 - Configuring the remote container service
 - Performing some base application environment configurations
 - Testing the installation

Installation Requirements

This section discusses Agile Product Lifecycle Management for Process installation requirements for the client, application server, and database server. Make sure your systems meet all installation requirements before attempting to install the Agile application suite. In order to properly run, Agile Product Lifecycle Management for Process requires a Web client, a Web application server, a remoting container (provided by Agile), and a database server. Figure 1-1 on the next page shows the necessary architecture.

Figure 1-1: Agile Product Lifecycle Management for Process Physical Architecture



Web Client Requirements

To properly run Agile Product Lifecycle Management for Process, Web clients must meet the following minimum requirements:

- ☐ Internet Explorer 6.0
- ☐ Adobe Reader 7.0

Web Application Server Requirements

To properly run Agile Product Lifecycle Management for Process, Web application servers must meet the following requirements:

- ❑ Microsoft Windows™ 2003 Server, SP1
- ❑ Microsoft IIS 6.0
- ❑ IIS Metabase Explorer 1.1
- ❑ Internet Explorer 6.0
- ❑ Microsoft .NET Framework 2.0
- ❑ Dual processor 2.0GHZ (Xeon recommended)
- ❑ 2.0 GB Memory
- ❑ 10K RPM Ultra3 SCSI with minimum RAID 1

Each application in the Agile application suite can be hosted on one or more Web application servers.

Note We recommend that you use separate application pools if the same Web application server is shared across Agile applications.

Database Server Requirements

To properly run Agile Product Lifecycle Management for Process, the database server must meet the following minimum requirements:

- ❑ Microsoft Windows 2003 Server, SP1
- ❑ Microsoft SQL Server 2005, SP2
- ❑ Dual processor 2.0 GHZ (Quad capable, Xeon recommended for expansion)
- ❑ 2.0 GB memory
- ❑ 10K RPM Ultra3 SCSI with minimum RAID 1 (separation of SQL database and log files recommended)
- ❑ Two disk arrays (for database and log file separation)

Note The database server can be managed in a clustered environment.

Remoting Container Requirements

With the Agile application suite, you receive the Agile Remoting Container, a Windows OS-level service. This remoting container can exist on the same Web application server described above. The following are minimum requirements for the remoting container

- ❑ Microsoft Windows 2003 Server, SP1
- ❑ Microsoft .NET Framework 2.0

The Agile Remoting Container typically hosts the following Agile services:

- ❑ Authentication Bridge for Agile Single Sign-on (SSO)
- ❑ Authorization Bridge for Agile SSO pertinent to DRL file access
- ❑ Syndication Server (a component of Content Syndication and Synchronization)
- ❑ Reporting Queue service
- ❑ Taxonomy Denormalization service
- ❑ Import/Export service
- ❑ Object-level security denormalization service

Note The remote container can be scaled or isolated as needed.

Scaling Requirements

You will need to scale your system for performance and availability as your system begins to grow due to an increased use of the Agile application suite and a growing number of users and as your business demands change or increase. The following sections provide scalability recommendations.

Scaling for Performance

You will need to scale for performance as your number of users and applications begins to increase over time. In consideration of performance scaling, we recommend the following:

- ❑ No more than 250 registered users per processor.
- ❑ Organize scaling according to regional user patterns (according to users in similar time zones and geographical regions).
- ❑ Once physical Web application server limitations are met, use a load-balanced (logical or actual) solution.

Scaling Beyond Five Core Applications

The following are recommendations for scaling beyond five (5) core Agile applications. Core Agile applications include:

- Global Specification Management (GSM)
 - Supply Chain Relationship Management (SCRM)
 - Design Workbench (DWB)
 - New Product Development (NPD)
 - eQuestionnaire (eQ)
 - Agile applications portal
- ❑ Run no more than five (5) core Agile applications on a single Web application server.
 - ❑ Organize scaling based on an evaluation of utilization patterns (known application characteristics).

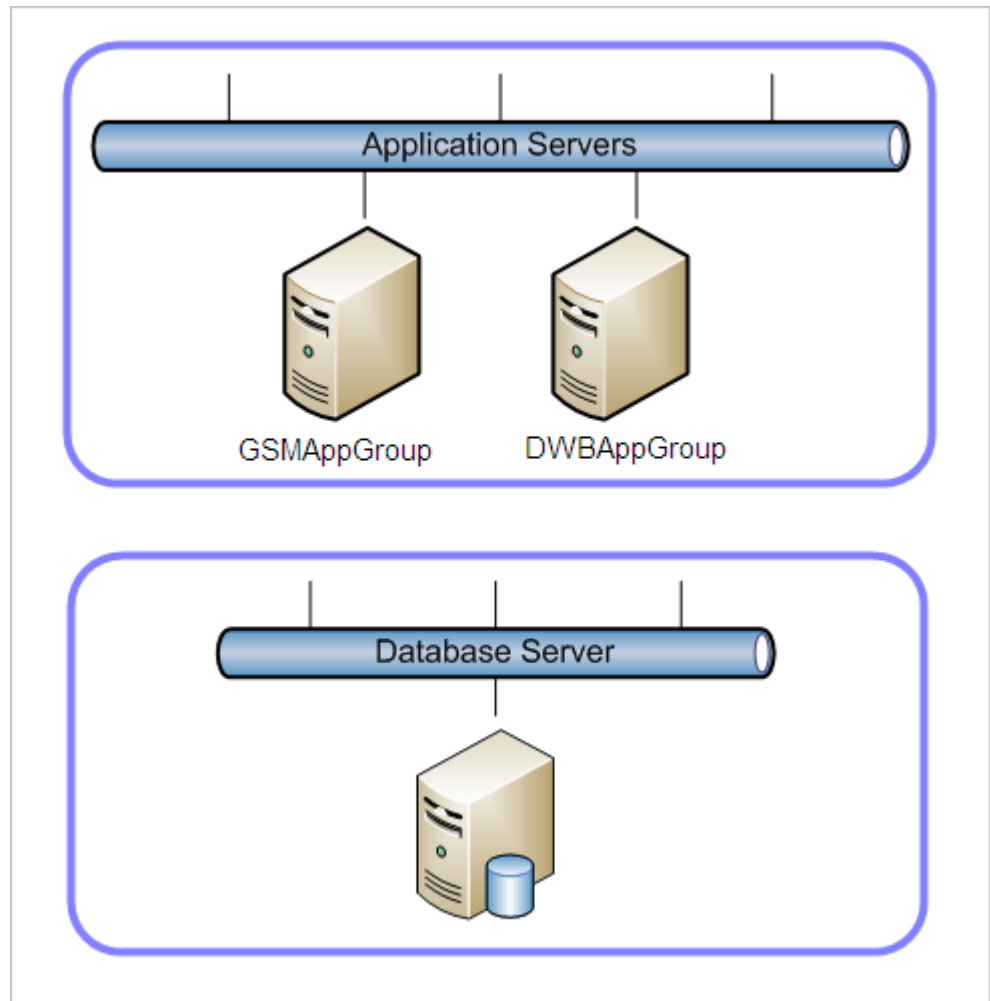
Load Balancing

As mentioned above, once physical Web application server limitations are met, use a logical load-balanced solution based on application distribution across servers. For example, as shown in figure 1-2 below, a logical separation might be organized by application as follows:

GSMAppGroup—includes GSM and other complimentary applications

DWBAppGroup—includes DWB and other complimentary applications

Figure 1-2: Agile Product Lifecycle Management for Process deployed in a logical separation



Scaling for Availability

You may also need to scale for availability as your business demands begin to change or increase over time.

For application load-balancing, we recommend the following:

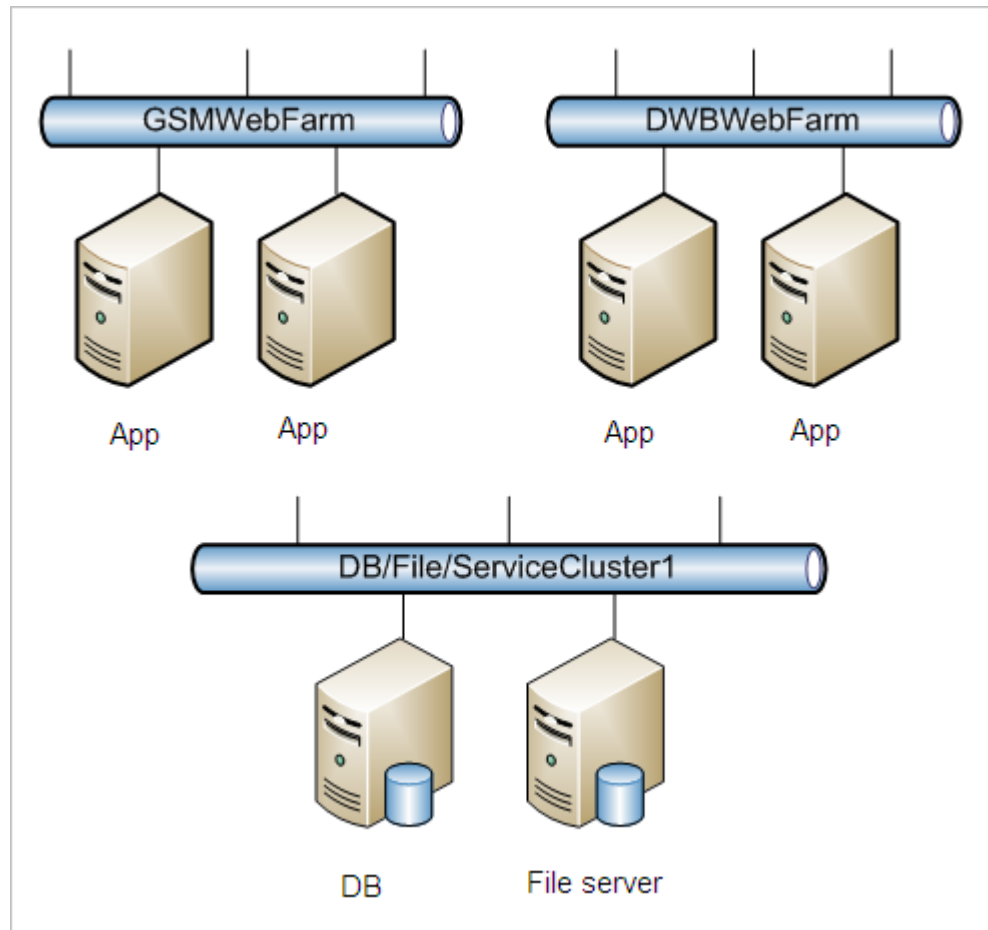
- ❑ A load balancer (such as f5 BigIP or Cisco CSS11000) that supports the following:
 - Secure Sockets Layer (SSL) protocol
 - Sticky sessions
- ❑ A maximum of *five* core Agile applications per load-balanced node.

Note A clustered node is an expansion of a logical application separation.

For database, file, and service clustering, we recommend the following:

- ❑ A clustered server to support an active or passive database system
- ❑ A file cluster (where required)
- ❑ Service clustering

Figure 1-3: Sample deployment of a load-balanced and clustered system



Pre-Installation Checklists

This section discusses Web application server-related tasks that an Agile implementer must complete before installing the Agile application suite.

Microsoft IIS 6.0 Checklist

Before installing the Agile application suite, complete all of the Microsoft IIS 6.0-related tasks in the following sections:

- ☐ [*Add an IIS Server Role to Microsoft Windows 2003*](#)
- ☐ [*Configure the IP Address of the IIS Default Site*](#)
- ☐ [*Set all Web Sites to a 30 Minute Connection Time-Out*](#)
- ☐ [*Configure IIS Application Pool Settings*](#)
- ☐ [*IIS Metabase Explorer Settings*](#)
- ☐ [*Enable IIS Indexing Service*](#)
- ☐ [*Enable IIS WebDAV for NPD Applications*](#)

Add an IIS Server Role to Microsoft Windows 2003

You will need to create a Web server role using the ASP.NET Role Manager. The role type must be the IIS server role, ASP.NET only.

To add a role for IIS, follow these steps:

- 1** Click **Start > All Programs > Administrative Tools**, and then click **Manage Your Server**.
- 2** On the Manage Your Server page, click **Add or remove a role**, and then click **Next**.
- 3** Under Server Role, select the **Application server (IIS, ASP.NET)** server role, and then click **Next**.
- 4** Check the **Enable ASP.NET** box, and then click **Next**.
- 5** Verify that Enable ASP.NET is listed on the Summary of Selections page, and then click **Next**.
- 6** If prompted, insert your Windows Server 2003 CD in the CD drive, and then click **Next**.
- 7** Click **Finish**.

Configure the IP Address of the IIS Default Site

When you install IIS, it is preconfigured to serve as a default Web site; however, you may want to change some of the settings.

To change the basic settings for the Web site:

- 1 Log on to the Web server computer as an administrator.
- 2 Click **Start > All Programs > Control Panel**.
- 3 Double-click **Administrative Tools**, and then double-click **Internet Services Manager**.
- 4 Right-click the Web site that you want to configure in the left pane, and then click **Properties**.
- 5 Click the **Web site** tab.
- 6 Enter a description for the Web site in the **Description** box.
- 7 Enter a value in the **IP Address** field for the Internet Protocol (IP) address to use for the Web site.
- 8 Modify the Transmission Control Protocol (TCP) Port as appropriate.
- 9 Click the **Home Directory** tab.
 - To use a folder on the local computer, select a directory located on this computer, and then click **Browse** to locate the folder to use.
 - To use a folder that has been shared from another computer on the network, click a share located on another computer, and then either type the network path or click **Browse** to select the shared folder.
- 10 Click **Read** to grant read access to the folder (required).
- 11 Click **OK** to accept the Web site properties.

Set all Web Sites to a 30 Minute Connection Time-Out

To set all Web sites to a 30 minute connection time-out:

- 1 Log on to the Web server computer as an administrator.
- 2 Click **Start > All Programs > Control Panel**.
- 3 Double-click **Administrative Tools**, and then double-click **Internet Services Manager**.
- 4 Expand the {server_name} node, where {server_name} is the name of the server.
- 5 Expand the **Web Sites** node.
- 6 Right-click the **Default Web Site** and select **Properties**.
- 7 In the Default Web Site Properties dialog box, on the Home Directory tab, click **Configuration**. In the Application Configuration dialog box, on the Options tab, the Session Timeout box displays the Session.Timeout value.
- 8 Set this value to 30 minutes.
- 9 Click **Apply**, then click **OK**.

Configure IIS Application Pool Settings

You must configure various IIS Application Pool settings as follows:

- 1 Log on to the Web server computer as an administrator.
- 2 Click **Start > All Programs > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**.
- 3 In the left pane, expand the local computer and locate Application Pools.
- 4 Right-click the **DefaultAppPool** option.
- 5 Make the following configuration changes:
 - On the Recycling tab, deselect all five check boxes.
 - On the Performance tab, check the **Limit the kernel request queue** box. Set the value to 4000.
 - On the Health tab, check the **Predefined** box. Set the value to `LocalSystem`.
 - Set the Application Pool Identity to `Local System`.

IIS Metabase Explorer Settings

IIS Metabase allows you to view, edit, copy, paste, move, drag, drop, and monitor activity in your IIS metabase. You will need to install the IIS Metabase Explorer 1.1 and make the following Application Pool Key settings:

- ☐ Set **DissallowOverlappingRotation** to 1 (from 0)
- ☐ Set **LogEventOnRecycle** to 255 (from 137)

Enable IIS Indexing Service

The Microsoft Indexing Service, a component of Microsoft IIS 6.0, allows for full text searching for attachments. The following is a checklist for setting this service up for use with the Agile application suite:

- 1 Ensure that Microsoft Indexing Server is installed. This is a separate Windows component that may or may not have been installed with the original operating system.
 - In Control Panel, click **Add or Remove Programs**.
 - Select **Add/Remove Windows Components**.
 - Make sure the component *Indexing Service* is installed.
- 2 Delete the two default catalogs that are created when the Microsoft Indexing Server is installed using the Computer Management tool under **Control Panel > Administrative Tools**. This is an optional step; however, it provides for increased security if these catalogs are not going to be used.
- 3 Create two folders to house the files generated by the Index catalog. For example:
`c:\catalogs\GSMSpecs`
`c:\catalogs\XDocs`
- 4 Stop the Indexing service.

- 5 Add a GSMSpecs catalog to the Indexing Server again using the Computer Management tool. Use the following specifications:
Name: GSMSpecs
Location: c:\catalogs\GSMSpecs
- 6 Add an XDocs catalog to the Indexing Server using the following specifications:
Name: XDocs
Location: c:\catalogs\XDocs
- 7 Add the directory that the GSMSpec files are stored in to the GSMSpecs catalog. Note that the Alias field is optional and can be left blank. Ensure that the **Include in Index** option is selected.
- 8 Add the directory that the XDoc files are stored in to the XDocs catalog.
- 9 Restart the Indexing service.

Enable IIS WebDAV for NPD Applications

If you are installing the Agile NPD (New Product Development) application, you must enable the WebDAV (Distributed Authoring and Versioning) protocol in Microsoft IIS 6.0 to support in-place editing.

Set up the WebDAV environmentsettings.config file as follows (using the following examples):

PDFWorkArea = https://<hostname>/webdav/npdworkarea/

PDFCommentRepository = https://<hostname>.com/webdav/
pdfcomments/

OfficeDocWorkArea = https://<hostname>.com/webdav/npdworkarea/

PDFWorkArea = https://prodikaapp.customerdomain.com/webdav/
npdworkarea/

OfficeDocWorkAreaUNC = \\<hostname>\webdav\NPDWorkArea\

PDFCommentRepositoryUNC = \\<hostname>\webdav\pdfcomments\

Note Be sure to create accounts with appropriate permissions to allow the Web application server access to the above WebDAV UNC paths.

Set up the Microsoft IIS 6.0 configuration for WebDAV as follows:

- 1 Create a virtual directory named webdav with default IIS 6.0 settings.
- 2 Create two directories under the webdav vdir:
 - PDFComments (with browsing enabled)
 - NPDWorkarea (with no browsing)

Note It may be necessary to give the account used by IIS (iuser_machinename) admin rights or full access to the webdav virtual directory.

Microsoft SQL Server 2005 Checklist

When installing MS SQL Server 2005 Standard Edition, be sure to:

- ☐ Install MS SQL Server 2005 Standard Edition with the mixed mode authentication and default options.
(Ensure that character set and sort order are MS SQL defaults.)
 - 1 Run the MS SQL Server setup.
 - 2 Select **Install Database Server** and click **Next**.
 - 3 Select **Install Default Instance on Local Computer** and click **Next**.
 - 4 Select **Default Instance** and click **Next**.
 - 5 For Setup Type, select **Typical** and click **Next**.
 - 6 Select **Use Same Account for Each Service** and **Use the Local System Account** and click **Next**.
 - 7 Select **Mixed Mode**. Enter a System Admin password and confirm.
 - 8 Click **Next** twice to complete the installation.
- ☐ Configure the MS SQL Server 2005 settings as follows:
 - 1 In the SQL Server Enterprise Manager, right-click the server in the tree view, left pane.
 - 2 Select **Properties** and click the **Memory** tab.
 - 3 Select **Use a Fixed Memory Size**.
 - 4 On the Processor tab, under Processor Control, select all available processors.
 - 5 Click **Boost SQL Server Priority**, assuming the box is only running SQL Server.
 - 6 Under Parallelism, select **Use All Available Processors**.
 - 7 Under **Database Settings > New Database Default Location**, set the appropriate paths for the data and log files:
 - Data files:
array2\Program Files\Microsoft SQL Server\MSSQL\Data
(optimized for balance of reads and writes - 75/25)
 - Log files:
array1\Program Files\Microsoft SQL Server\MSSQL\Data
(optimized for sequential writes)
 - 8 On the General tab, select **Autostart SQL Server** and **Autostart SQL Server Agent**.

- ☐ Set up two SQL accounts, which are recommended to run and manage the application:
 - **ProdikaDBAdmin**—This account should have database owner access to the application database. Use this account to run the application installation and upgrade scripts.
 - **ProdikaAppUser**—This account will be used by the Web server applications for access to the back-end data and should have read/write access to all of the application database tables and views. Additionally, this account should have access to execute all user-defined functions.
- ☐ Apply all available security patches for MS SQL Server 2005.
- ☐ Schedule a maintenance plan. Production backups should occur nightly. Test backups should occur twice weekly.
 - 1 In the Enterprise Manager, drill down in the left pane to **Management > Database Maintenance Plan**.
 - 2 In right pane, right-click and select **New Maintenance Plan**.
 - 3 Select the database to maintain.
 - 4 Click through the Wizard to configure the database maintenance plan.

SSL Checklist

SSL (Secure Sockets Layer) is a protocol from Netscape Communications Corporation that is designed to provide secure communications on the Internet. SSL is not required for an Agile installation but will be used in most instances, as determined by the customer.

SSL can be deployed in many ways. Most commonly, SSL will run within IIS or on an intermediary system such as a Reverse Proxy or SSL accelerator.

The Agile application suite can operate in any of these scenarios, but the HTTP scheme must be configured (via `deployment.xml`) to generate the desired relative URLs correctly (http vs. https).

East Asian Language Support

If you plan to support foreign languages in Agile Product Lifecycle Management for Process, you must install East Asian language support on the server.

To install East Asian language support on the server:

- 1 Access the Windows Control Panel dialog box by clicking **Start > Control Panel**.
- 2 Select **Date, Time, Language, and Regional Options > Regional and Language Options** and click the **Languages** tab.
- 3 Check the **Install Files for East Asian Languages** box.
- 4 Click **Apply** and **OK**.

Restore the Database and Setup Database Accounts

You should receive a copy of a prepared database as part of your Agile software media from Agile Software. Using Microsoft SQL Server Management Studio, you will need to restore this database onto your local database server. You will also need to make sure that the user responsible for accessing the database has the appropriate account setup and assigned roles.

Restoring the Database

To restore the database onto your local database server:

- 1 Open MS SQL Server Management Studio.
- 2 In the left pane, right-click on **Databases** and select **Restore Database**. The Restore Database dialog displays.
- 3 In the General page, type a database in the **To Database** field.

Note We recommend that your database name include the environment name and software version, for example: `production_v50`.

- 4 Select **From device**.
- 5 Click the browse button for the **From device** text box, which opens the Specify Backup dialog box.
- 6 Click the **Add** button to display the Locate Backup File dialog box. Browse to the software media containing the database from Agile Software.
- 7 Click **OK** twice to return to the Server Management Studio.
- 8 In the Options page, select **Restore Database**.
- 9 Verify that the data file and log file paths are set to the correct paths.
- 10 Click **OK** to begin the restoration.

Set Up User Permissions

To set up database user permissions:

- 1 Open MS SQL Server Management Studio.
- 2 In the left pane, drill down into the Databases folder to locate the database that you just restored.
- 3 For this database, select **Security > Users**.
- 4 Right-click on Users and select **New User** to display the Database User - New dialog box.
- 5 Type a user name in the **User Name** field.
- 6 Select **Login Name**. To the right of this radio button, click the browse button to display the Select Login dialog box.
- 7 In the Select Login dialog, click **Browse** to display a list of login objects. Select a login object and click **OK** twice to return to the Database User - New dialog box.
- 8 In the Database Role Membership section, assign the following two roles to the user:
 - db_datareader
 - db_datawriter
- 9 Click **OK**.

Remote Container Service and Application Pool Accounts

The remote container service and application pool are standard Microsoft Windows services, which require user accounts in order to run. During the Agile installation, you will be asked to enter your remote container service credentials, as well as credentials for the application pool.

Before installing Agile Product Lifecycle Management for Process, make sure that your IT department has created an account for each service for you. Such accounts can be system accounts, local Windows accounts, or domain accounts (active directory). The process for creating a remote container service account and application pool account is a standard approach for creating Windows accounts.

Installation

The Agile PLM suite is installed with a batch file process. The batch files are designed to be run from the Windows command line. Through a simple process, the batch file installation will:

- ❑ Set up the initial IIS Web site
- ❑ Set up the initial IIS application pools
- ❑ Set up the folder structure within the Web site for various Agile applications

After the batch program has completed, simply decompress the Agile Server package into the target %PRODIKA_HOME% location to be accessible by IIS.

Installation Process

- 1 Run the command: "SetupIIS.bat <SiteName> <HostHeader> <RootPath> <UserName> <Password> <SiteID>".

Figure 1-4: Run the command

```

C:\WINDOWS\system32\cmd.exe

C:\SetupIIS>SetupIIS.bat
usage: SetupIIS SiteName HostHeader RootPath UserName Password
Connecting to server ...Done.
Site Name (Metabase Path)          Status  IP          Port  Host
=====
v51 (W3SVC/879425)                 STOPPED ALL      80    HostHeader
Use IISCreateProdikaApps.bat v51_AppPool c:\prodikav51\web [SITE_ID]

C:\SetupIIS>_

```

Note For usage information, just type SetupIIS.bat from the directory in which you unzip the script.

Figure 1-5: Batch run example

```

C:\WINDOWS\system32\cmd.exe

C:\SetupIIS>SetupIIS.bat Prodika prodika.webdev.com c:\prodika\wwwroot\ProdikaGlobal
Connecting to server ...Done.
Server = 192.168.1.100
Site Name = Prodika
Metabase Path = /Prodika
IP = ALL UNASSIGNED
Host = HostHeader
Port = 80
Root = c:\prodika\Prodika
App Pool = DefaultAppPool (system default)
Status = STOPPED
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.

created "w3svc/AppPools/Prodika_Global"
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.

WAMUserName : (STRING) "Prodika\ProdikaGlobal"
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.

AppPoolIdentityType : (INTEGER) 3
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.

created "w3svc/AppPools/Prodika_GSM"
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.

created "w3svc/AppPools/Prodika_NPD"
Microsoft (R) Windows Script Host Version 5.6
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Connecting to server ...Done.
Site Name (Metabase Path)      Status IP      Port  Host
=====
Prodika (C:\prodika\Prodika)    STOPPED ALL      80    HostHeader
Use IISCreateProdikaApps.bat Prodika_Portal c:\prodika\web [SITE_ID]

C:\SetupIIS>_

ErrNumber: -2147463164 (0x80005004)
Error Trying To GET the Schema of the property: IIS://localhost/Schema/Prodika_NPD
Microsoft (R) Windows Script Host Version 5.6
Copyright (C) Microsoft Corporation 1996-2001. All rights reserved.

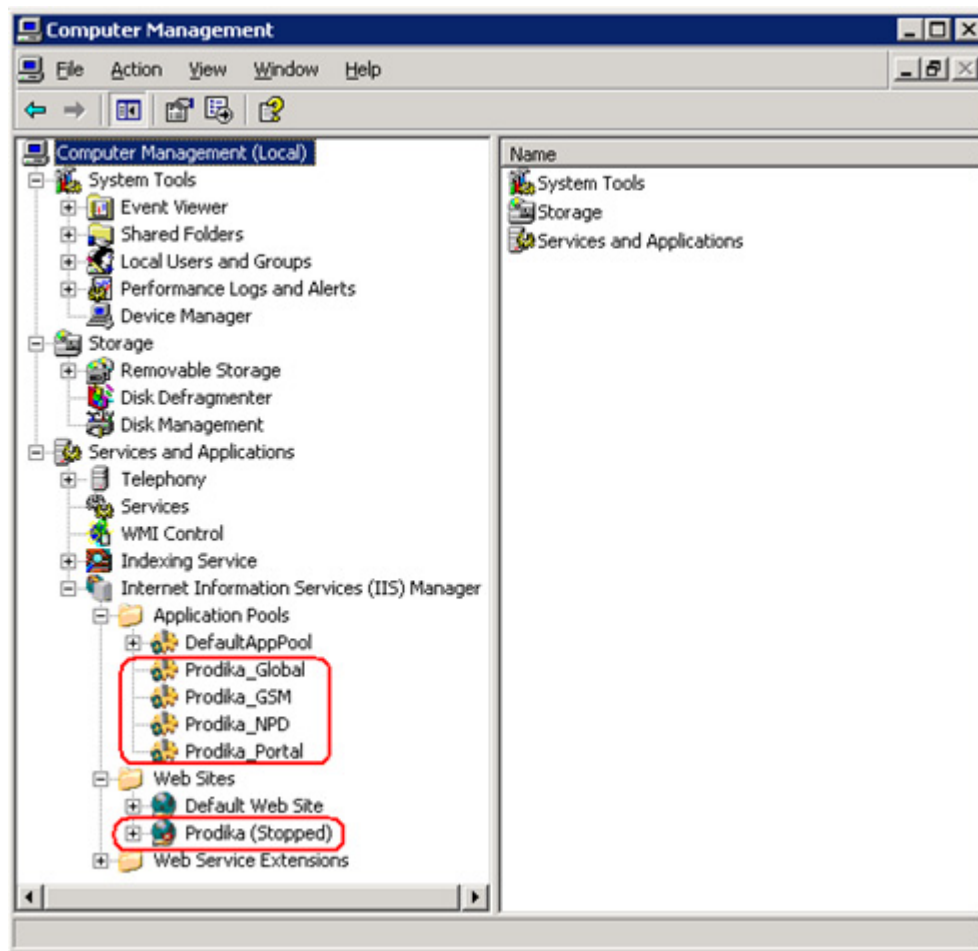
```

2 Following the batch run, create the metabase items that are needed in IIS:

- Prodika_Global
- Prodika_GSM
- Prodika_NPD
- Prodika_Portal

Note The batch file will install four different application pools. Though this is the default application pool layout, in some cases, it might not be necessary if each application is hosted on a different machine since each machine will need only one application pool. In some cases, more application pools might be needed based on usage.

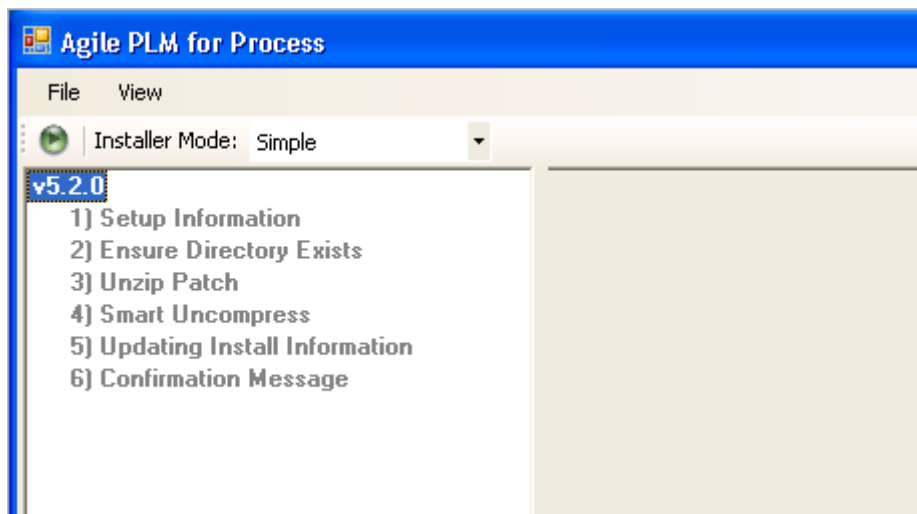
Figure 1-6: Application pools



- 3 Uncompress `v5_2_0_Setup_Installer.zip` and double-click **Setup.bat**. The installer extracts the files and displays the initial installer screen, shown in figure 1-7, below.

Important You must use this installer tool as of version 5.2.0 in order to successfully install Agile PLM, because as of this release, installation history is maintained in a file called `install.his`, which is required for future upgrades. If you use the previous process, this file will not be created, thus preventing future upgrades.

Figure 1-7: Installer initial screen




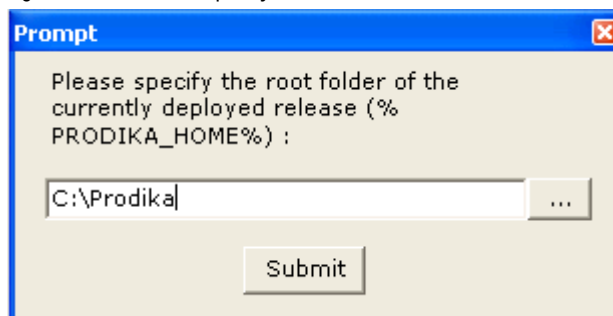
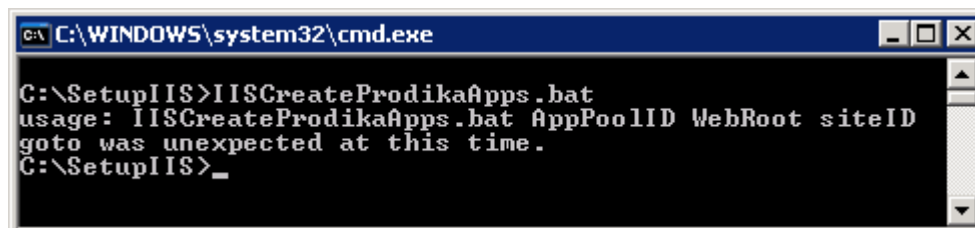
- 4 Click the green arrow icon () at the upper left of the window. The installer begins the installation process and prompts you for the root folder for the new installation, as shown in figure 1-8 below. The installer completes the installation.

Figure 1-8: Installer: Specify root folder



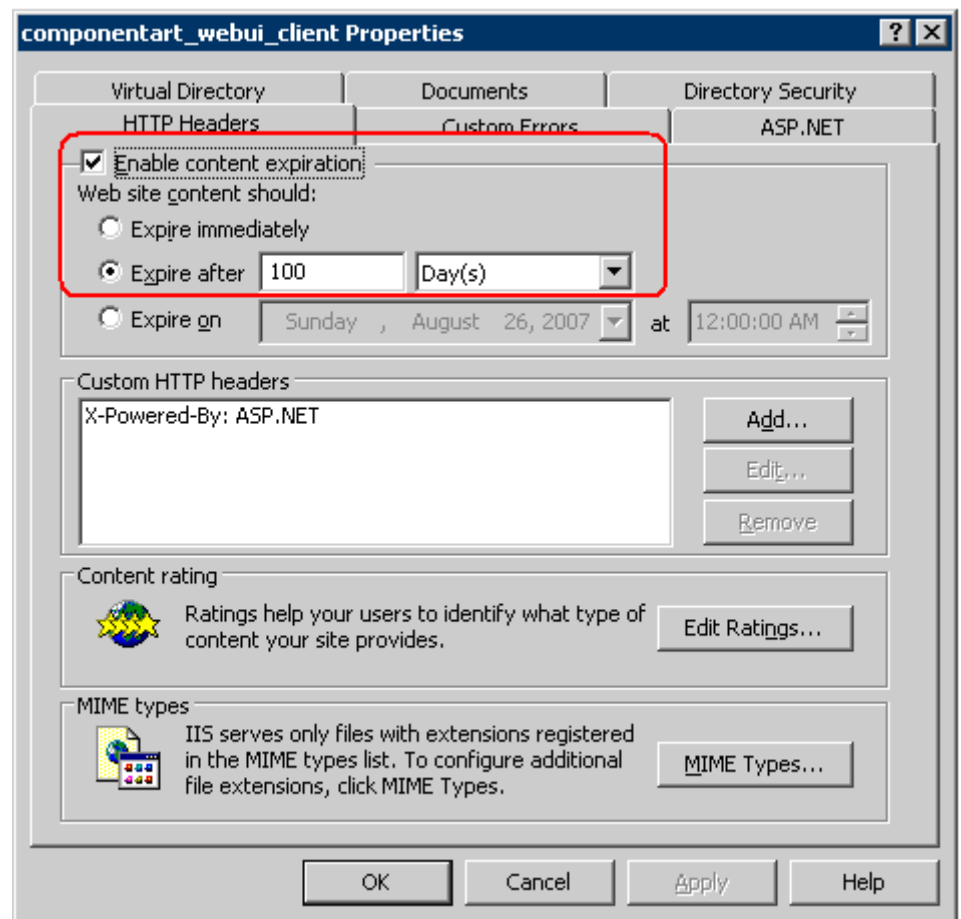
- 5 Run the command: `IISCreateProdikaApps.bat <AppPoolID> <WebRoot> <SiteID>`

Note For usage information, you can run `IISCreateProdikaApps.bat` with no parameters, resulting in output similar to that shown in the figure below.



- 6 For simplicity, use the Prodika_Global Application Pool's ID as your <AppPoolID> and after the installation is complete, move Web sites of your choice to separate application pools (Prodika_GSM, Prodika_NPD, Prodika_Portal and any other application based on customer usage.
- 7 For the <SiteId> use the output from step 1. For example, it shows 879425 as the SiteId for this run. This is a system-generated number and in your case, the number would be different based on your run.
- 8 Move the application pools and set Caching Rules as described in step 9. By default the Prodika_Global application pool is added to all sites. The sites need to be distributed to their appropriate application pools. Though this depends totally on the customer-specific setup and resource availability, the rule of thumb is to move GSM, NPD, and Portal to their own application pools at a minimum.
- 9 Two virtual folders—`componentart_webui_client` and `ProdikaHelp`—are set up in IIS. These virtual folders contain static content and can be cached to improve performance. The cache settings can be set on the Properties context menu of the virtual folder by setting the Content Expiration to 100 days as shown in figure 1-9 below.

Figure 1-9: Content expiration settings



- 10 Similarly, set the content expiration to 100 days on the ProdikaHelp folder and on all the images and CSS subfolders for all the Web applications. This is very essential to guarantee optimal performance of the application.
- 11 Conditionally create the WebDAV folder - Some parts of the Agile suite use WebDAV to allow in-place editing of certain document types. To allow for this, a setting is available in the `EnvironmentSettings.config` file for the WebDAV virtual folder. In cases for which WebDAV is required, create a WebDAV virtual folder and allow the anonymous user to access (read and write) the physical folder location on the hard drive.
- 12 Review the *Agile Product Lifecycle Management for Process Configuration Guide* to apply the configuration changes required for the installation.

Post-Installation Checklists

This section discusses tasks that an Agile implementer must complete after installing the Agile application suite.

Set the IIS Event Viewer Logging

Important This step is critical to successfully running the Agile application suite. You must set the Event Viewer logging to **Overwrite events as needed** for System, Security, Application, and all Agile-created event logs.

If an event log is set to **Overwrite events older than 7 days**, then you may run into an issue when a new feature is introduced that uses multiple Warnings, Errors, or Information. The introduction of new event logging can fill up the event log so that no more events can be logged, throwing an exception back to the user of the application. The exception will not go away until the log is set to **Overwrite events as needed** or until the log is cleared manually. For this reason, we suggest setting all event logs to **Overwrite events as needed**.

Important You will need to start up every Agile application, which will generate a new event viewer log. Review each event viewer setting to make sure the **Overwrite events as needed** option is selected.

To set the IIS Event Viewer Logging in IIS 6.0:

- 1 On your desktop, right-click the **My Computer** icon.
- 2 Click **Manage** from the fly-out menu to display the Computer Management dialog box.
- 3 In the left pane, click **System Tools > Event Viewer** to display all of the available event viewers.
- 4 Right-click on each event viewer and select **Properties** to display the Application Properties dialog box.
- 5 Select the **Overwrite events as needed** option.
- 6 Click **Apply**, and then click **OK**.

Update the Version Number in the version.txt File

Modify the version.txt file as follows:

- 1** In your `Prodika_Home` directory, locate the `version.txt` file.
- 2** Open the file with a text editor.
- 3** Edit the first line so that it contains only the following text:
`Version: v5.1`
- 4** Click **File > Save** to save the your change.

Verify that the Remote Container is Listening on All Ports

Verify that the remote container service is listening on the correct ports as follows:

- 1** Once again, open the remote container service configuration file at:
`Prodika_Home\RemotingContainer\RemotingContainer.exe`
- 2** Locate `RemoteServices`. Take note of the various port settings.
- 3** Open the environment settings configuration file at:
`Prodika_Home\Config\EnvironmentSettings.exe`
- 4** Locate `Services` (under `Prodika`).
- 5** Verify that the Remote URLs for the various services contain the correct port settings.
- 6** Open the remote container log file to verify that the remote container is listening on all ports. This file is at:
`Prodika_Home\Logs\remoteContainer.stdout.log`
- 7** Scroll to the bottom of the log file to view the log results. This should tell you if your remote container is listening on all ports, and if not, the log file should indicate a reason.

Microsoft .NET Framework

After installing Microsoft .NET Framework, you need make some configuration changes to the `machine.config` file for performance optimization purposes.

Make the following updates to the `machine.config` file as follows:

- 1 Locate and open the `machine.config` file at:

`C:\Windows\Microsoft.NET\Framework\v2.0.50727\Config\machine.config`

- 2 Locate the `system.web` tag and add the following under it:

```
<pages validateRequest="false" enableEventValidation="false"/>
<processModel enable="true" timeout="Infinite"
idleTimeout="Infinite"
shutdownTimeout="00:00:05" requestLimit="Infinite"
requestQueueLimit="5000" restartQueueLimit="10"
memoryLimit="60" webGarden="False" cpuMask="0xffffffff"
userName="SYSTEM" password="AutoGenerate" logLevel="Errors"
clientConnectedCheck="00:00:05"
comAuthenticationLevel="Connect"
comImpersonationLevel="Impersonate"
responseDeadlockInterval="00:03:00"
responseRestartDeadlockInterval="00:03:00" autoConfig="True"
maxWorkerThreads="20" maxIoThreads="20" minWorkerThreads="1"
minIoThreads="1" serverErrorMessageFile=""
pingFrequency="Infinite"
pingTimeout="Infinite" maxAppDomains="2000" />
<machineKey
validationKey="B3B1257C1B375B1190AF16044C40A42739DEDDBA26C2F9DA3
5B20FC20C3F63B11B22C6B92D602EB886E3D18F9548B84A0B80EBADC575C407
ED33F39ACE08389"
decryptionKey="6D53B0178EF6AA0604C1D559B0962228B7449DAFD920113B"
validation="SHA1"/>
```

Note Sometimes, these tags might exist prior to this step. If these tags are already present, please update them to look as above.

- 3 Locate forms Attributes. (The xpath to the node is: `/configuration/system.web/authentication.`) [[@mode='Windows'](#)]/forms
Change protection to None.
- 4 Run the following command from a command prompt:
`\Windows\Microsoft.NET\Framework\v2.0.50727\aspnet_regiis.exe -i`
- 5 Open Internet Information Server Administrator and right-click on the Web virtual folder and choose **Properties**.
- 6 Click on the ASP.NET tab to confirm that .NET 2.0 is selected.

Installation Verification Tests

In order to perform the recommended Agile installation verification tests, you will need the user name and password for an Agile user account having access to all Agile applications. User access is managed using the User Group Management (UGM) application. For more information on user management, see the *Agile Product Lifecycle Management for Process Administrator User Guide*.

Access the Agile application using Internet Explorer. Use the following URL, substituting the appropriate server name and http/https values (depending on whether or not SSL is enabled):

`https://servername/portal/WebCommon/Login.aspx`

Type your use name and password, and press the **Enter** key.

Note The following installation verification tests assume that you have installed the entire Agile application suite. If this is not the case, omit tests for applications that you have not installed.

Caution! You must be assigned the correct Agile roles to perform these installation verification tests. For more information on roles, see the *Agile Product Lifecycle Management for Process Administrator User Guide*.


Global Specification Management Test

Before performing this test, note that specifications, once created, cannot be deleted from GSM. Therefore, creating specifications for verification purposes contributes to the proliferation of meaningless specifications. If specifications already exist in the system, you may wish to skip this test.

The purpose of this test is to verify that GSM is properly functioning.

To perform the GSM test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **GSM > Ingredient Specifications**.
- 3 Click **Create New** in the upper right corner. A new ingredient specification template is displayed.
- 4 Type a specification name in the `Spec Name` field.
- 5 Complete the `Approved for Use In` section at the bottom of the page.
- 6 Click **Save & Close Document** in the upper right corner.
- 7 From the left navigation panel, select **GSM > Ingredient Specifications**.
- 8 Conduct a blind search by clicking **Reset** and then **Search** or specify search criteria to retrieve the specification that you just created.
- 9 In the Search Results table, click the **Spec #** link. The selected specification is displayed.

- 10 Click **Workflow** in the upper right corner.
- 11 Type any value in the **Comments** field.
- 12 Click the move step forward () icon. If additional dialog boxes appear, it confirms that GSM is functioning.

Printing Test

The purpose of this test is to verify that the Agile Printing Service is correctly functioning.

To perform the Printing test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **GSM > Ingredient Specifications**.
- 3 Search for the specification that you created in [Global Specification Management Test](#) on page 1-24.
- 4 Click **Print** in the upper right corner.
- 5 In the resulting Print dialog box under Current Specification > Sections, select any check box.
- 6 Click **Print** again. The specification is rendered in PDF format in a separate window.
- 7 Close the window once the PDF successfully is displayed and proceed to the next test. If the PDF does not appear, double-click the file `Prodika\Scripts\Installation\ApocEntry.reg` and retry this test.

Reporting Test

The purpose of this test is to verify that the Prodika Reporting Service is correctly functioning.

To perform the Reporting test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, click **RPT (Reporting)**.
- 3 Search for the specification that you created in [Global Specification Management Test](#) on page 1-24.
- 4 Click **Generate Report**.
- 5 In the resulting dialog, type a report name in the **Report Name** field and then click **Save**.
- 6 In the left navigation panel, select **Ad Hoc Reports > Reports Queue**.
- 7 The resulting Reports Queue should contain an entry for your report. Refresh this view periodically by toggling from Reports Queue to Reporting and back, to see the status of your report update. If the report status fails to update, there is likely a problem with the Reporting Service.
- 8 When the report status indicates `Complete`, click the hyperlinked name of the report to download the report.

GSM Print Administration Test

The purpose of this test is to verify that the GSM Print Administration service is correctly functioning.

To perform the GSM Print Administration test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **GSM > Print Administration**.
- 3 Click **Create New** in the upper right corner.
- 4 If the Process Spec Print Model is displayed, click **Cancel** and proceed to the next test.

Supply Chain Relationship Management Test

The purpose of this test is to verify that the Agile SCRM application is correctly functioning.

To perform the SCRM test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **SCRM > Company Profiles**.
- 3 Conduct a blind search and select any company profile from the Search Results table to verify that it is displayed correctly.
- 4 If the company profile is displayed, click **Cancel** and proceed to the next test.

Nutrition Surveillance Management Test

The purpose of this test is to verify that the Agile NSM application is correctly functioning.

To perform the NSM test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **NSM > Nutrient Analysis**.
- 3 Click **Create New** in the upper right corner.
- 4 If the Nutrient Analysis template is displayed, click **Cancel** and proceed to the next test.

eQuestionnaire Test

The purpose of this test is to verify the Agile eQ application is correctly functioning.

To perform the eQ test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **eQ > Ingredient Questionnaires**.
- 3 Click **Create New eQuestionnaire** in the upper right corner.
- 4 In the Select Questionnaire Type dialog box, select the ingredient type and click **Create New**.
- 5 If the eQuestionnaire template is displayed, click **Cancel** and proceed to the next test.

New Product Development Test

The purpose of this test is to verify that the Agile NPD application is correctly functioning.

To perform the NPD test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **NPD > New Product Development > Projects**.
- 3 Conduct a blind search and select any project from the Search Results table to verify that it is displayed correctly. If so, NPD has passed the test.
- 4 If no projects are found, click **Create New** in the upper right corner.
- 5 Select a business unit and project type in the resulting dialog box and then click **Done**.
- 6 If the NPD (Stage 1) template is displayed, click **Cancel** and proceed to the next test.

Product Quality Scorecard Test

The purpose of this test is to verify that the Agile PQS application is correctly functioning.

To perform the PQS test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **PQS > Lot Samples**.
- 3 Click **Create Sample** in the upper right corner. The Enter Code Data/Sample ID page loads.
- 4 In the **Code Data or Sample ID** field, type any text.
- 5 Click **Next**. The Select Specification page loads.
- 6 In the Specification section, click the **Specification** link. A Specification Search dialog box appears.
- 7 In the resulting Search dialog box, type criteria to find and select the ingredient specification that you created in [Global Specification Management Test](#) on page 1-24.
- 8 If the ingredient specification is displayed, the test has succeeded.
- 9 Click **Close** in the upper right corner, and proceed to the next test.

Design Workbench Test

The purpose of this test is to verify that the Agile DWB application is correctly functioning.

To perform the DWB test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **DWB > Workbench Specifications**.
- 3 Conduct a blind search and select any workbench specification from the Search Results table to verify that it is displayed correctly. If it displays correctly, DWB has passed the test.
- 4 If no workbench specifications are found, click **Create New Workbench Spec** in the upper right corner.
- 5 Type a name for the workbench specification in the **DWB Spec Name** field.
- 6 In the Approved for Business Use In section, assign the appropriate business unit to this specification.
- 7 Click **Save & Close**.

Food Item Catalog Test

The purpose of this test is to verify that the Agile FIC service is correctly functioning.

To perform the FIC test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **DWB > Food Item Catalog Term**.
- 3 Conduct a blind search and select any catalog from the Search Results table.
- 4 If the catalog is displayed successfully, click **Cancel** and proceed to the next test.

Computer Aided Compliance Screening Test

The purpose of this test is to verify that the Agile CACS application is correctly functioning.

To perform the CACS test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **CACS**.
- 3 Conduct a blind search and select any computer aided compliance screen from the Search Results table to verify that it is displayed correctly.
- 4 If no computer aided compliance screens are found, click **Create New** in the upper right corner.
- 5 Type a name for the screen in the **Title** field and a description in the **Description** field.
- 6 Click **Save & Close**.

Supplier Portal Test

The purpose of this test is to verify that the Agile Supplier Portal (SPA) application is correctly functioning.

To perform the SPA test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **SPA > Approved Registrations**.
If there are any approved registrations in the system, they will be displayed.

User Group Administration Test

The purpose of this test is to verify that the Agile UGM application is correctly functioning.

To perform the UGM test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **UGM > Groups**.
- 3 Conduct a blind search and select any group from the Search Results table to verify that it is displayed correctly.

Workflow Administration Test

The purpose of this test is to make sure that the Agile WFA application is correctly functioning.

To perform the WFA test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, click **WFA (Workflow Administration)**.
- 3 Click **New Process Template** in the upper right corner.
- 4 In the resulting dialog box, select **GSM** and then click **Done**.
- 5 If the process template is displayed successfully, click **Cancel** and proceed to the next test.

Manage Core Data Test

The purpose of this test is to verify that the Agile ADMN (Manage Core Data) application is correctly functioning.

To perform the ADMN test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **ADMN > GSM > Additives**.
- 3 If the additives currently in the system are displayed successfully, click **Cancel** and proceed to the next test.

Manage Data Caches Test

The purpose of this test is to verify that the Agile CACHE application is correctly functioning.

To perform the CACHE test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, click **CACHE (Manage Data Caches)**.
- 3 If the Schedule Cache Flush tool is displayed successfully, the test has succeeded.

CHAPTER 2

Upgrading

This chapter discusses Agile Product Lifecycle Management for Process upgrading.

Topics in this chapter include:

- ❑ *Upgrade Tasks*
 - ❑ *Web Application Tasks*
 - ❑ *Stopping Services and Backing Up Files*
 - ❑ *Installation Software and Scripts*
 - ❑ *Reconfiguring Settings*
 - ❑ *Customizing the User Interface*
 - ❑ *Reconfiguring and Restarting Remote Container Service and Web Application Server*
 - ❑ *Verifying the Installation*
-

Upgrade Tasks

This chapter discusses the basic steps required to upgrade the Agile application suite to the 5.2 version. The main steps in the upgrade process include:

- 1 [Check for Active Web Application Server Sessions](#) on page 2-2
- 2 [Stop the Web Application Server](#) on page 2-3
- 3 [Stop the Remote Container Service](#) on page 2-3
- 4 [Back Up the Previous Database Deployment](#) on page 2-3
- 5 [Installation Software and Scripts](#) on page 2-4
- 6 [Installing the Agile 5.2 Upgrade Software](#) on page 2-4
- 7 [Update the Version Number in the version.txt File](#) on page 2-9
- 8 [Apply Database Upgrade Scripts](#) on page 2-10
- 9 [Reconfigure the Application Environment Settings](#) on page 2-11
- 10 [Reconfigure the Customer Settings](#) on page 2-12
- 11 [Customizing the User Interface](#) on page 2-12
- 12 Apply extensions, if any
- 13 [Reconfigure the Remote Container Service](#) on page 2-35
- 14 [Restart the Remote Container Service](#) on page 2-35
- 15 [Restart the Web Application Server](#) on page 2-35
- 16 [Verifying the Installation](#) on page 2-35

Web Application Tasks

Check for Active Web Application Server Sessions

Before bringing down the Web application server, perform two checks to make sure there are no active user sessions on the server.

Note We recommend that you notify all users in advance that you are performing the upgrade, to give them time to shut down their connections.

Check the Performance System Monitor for Active Sessions

Using Performance System Monitor, check to see how many people currently have active sessions.

- 1 Select **Start > Run**.
- 2 In the Run dialog box, type `perfmon` and click **OK** to bring up the Performance dialog box.
- 3 Select the **System Monitor** option in the left pane to bring up the System Monitor dialog box.
- 4 In the bottom portion of the System Monitor dialog box, a list of counters is displayed. Right-click in this area and select **Add Counters** from the shortcut menu to display the Add Counters dialog box.
- 5 Select the **Select Counters from Computer** option and select your Web application server.
- 6 From the Performance Object drop-down list, select **ASP.NET Apps v2.0.50727**.
- 7 Select the **Select Counters From List** option and from the associated scrolling list, choose **Sessions Active**, and then click **Add**.
- 8 Click **Close** to close the Add Counters dialog box.
- 9 Using the new active sessions counter, you can view the active sessions for the Web application server by selecting its row in the counter list at the bottom of the System Monitor dialog box. In particular, look at the number of active sessions in the Last field. If this number is greater than 2 active sessions, it is likely that users are logged on to the server. Contact the user(s) to have them log off before you shut down the Web application server.
- 10 You can save the active sessions counter by right-clicking it and selecting **Save As** from the shortcut menu. You may wish to save this counter to your desktop for future use.

Check the Event Viewer for Last Login

Using IIS Computer Management, check the Event Viewer log for Agile to see when the last user login occurred.

- 1 Right-click **My Computer** and select **Manage** from the shortcut menu to display the Computer Management dialog box.
- 2 Under System Tools, select **Event Viewer**.
- 3 Locate and double-click the Portal-Prodika log under Event Viewer.
- 4 Review the log to see when the last user login occurred. If a recent login has occurred, it is likely that a user is still logged on to the server. Contact the user to have them log off before you shut down the Web application server.

Stop the Web Application Server

After you have verified that there are no active sessions on the Web application server, bring the server down as follows:

- 1 Open a command prompt.
- 2 Enter the following command to stop the Web application server:
`C:\Documents and Settings\Administrator>iisreset /stop`

Stopping Services and Backing Up Files

Stop the Remote Container Service

Using IIS Computer Management, stop the remote container service as follows:

- 1 Right-click **My Computer** and select **Manage** from the shortcut menu to display the Computer Management dialog box.
- 2 Under Services and Applications, select **Service** to display a list of services in the right pane.
- 3 Locate the RemoteContainer Service and click it.
- 4 Select the **Stop the Service** option in the top left-hand portion of the Services pane.

Back Up the Previous Database Deployment

Using SQL Server Enterprise Manager, make sure to back up the previous deployment of the database. Be sure to use a meaningful name for the backup for future reference; for example, Agile 5.1.1 - Full Backup.

Note The database server must be running in order to perform the backup.

- 1 Open SQL Server Enterprise Manager.
- 2 In the left pane under Databases, locate the database server to back up.
- 3 Right-click the database and select **All Tasks > Back Up Database** from the shortcut menu.
- 4 Type a name for the backup, select the destination for your backup, and then click **OK**. The backup process should begin.

Installation Software and Scripts

Installing the Agile 5.2 Upgrade Software

You can use an upgrading program, `Setup.bat`, to help with upgrading from Prodika PLM 5.1x to Agile PLM for Process 5.2. This program is designed to be run on the Windows computer on which the 5.1x release is currently installed. Through a simple, graphical user interface, the upgrading program will:

- ❑ Assist you with archiving the previous installation
- ❑ Set up the initial IIS Web site
- ❑ Set up the initial IIS application pools
- ❑ Set up the folder structure within the Web site for various Agile applications
- ❑ Decompress the Agile Server package into the target `%PRODIKA_HOME%` location to be accessible by IIS.

Upgrade Process

- 1 Double-click **Setup.bat** in your upgrader directory, as shown in figure 2-1 on page 2-5 . The upgrading program launches, displaying a screen listing the following steps in the left pane, as shown in figure 2-2 on page 2-5:
 - 1) Setup Information
 - 2) Unzip Patch
 - 3) Smart Uncompress
 - 4) Update EnvironmentSettings
 - 5) Update CustomerSettings
 - 6) Replace Web Folder
 - 7) Replace Config Folder
 - 8) Replace Apps Folder
 - 9) Replace SharedLibs Folder
 - 10) Replace Models Folder
 - 11) Replace RemotingContainer Folder
 - 12) Replace Schema Folder
 - 13) Replace Reports Folder
 - 14) Replace Scripts Folder
 - 15) Replace Version File
 - 16) Updating Install Information
 - 17) Zip Archive
 - 18) Confirmation Message

Figure 2-1: Upgrader directory, showing Setup batch file

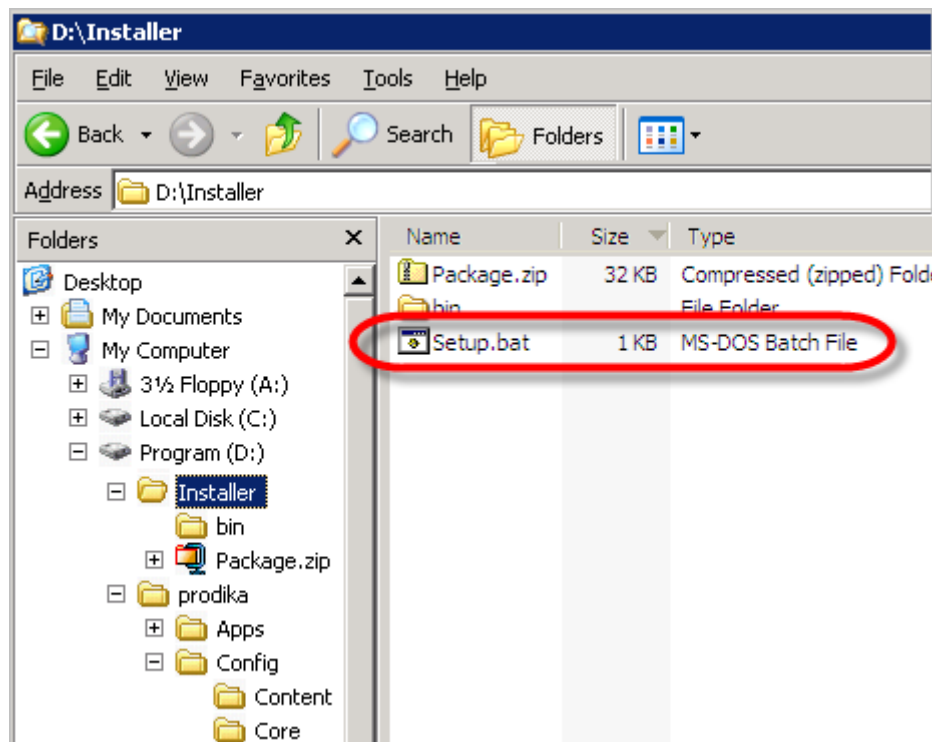
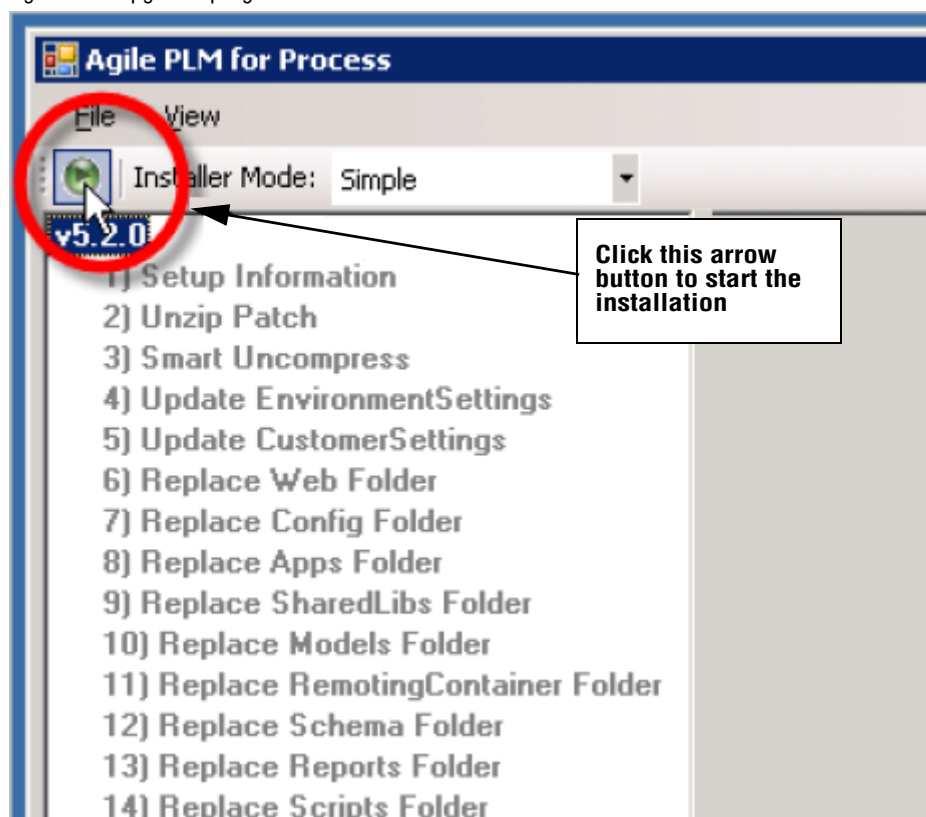


Figure 2-2: Upgrader program initial screen




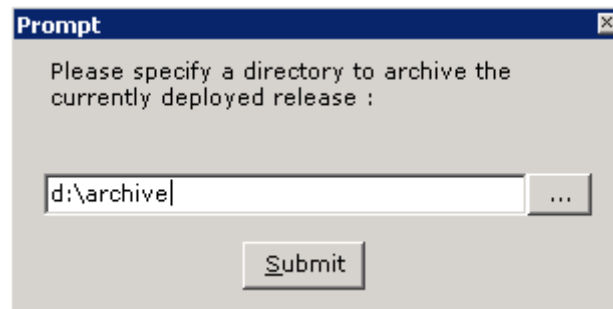

- 2 Click the green arrow icon () at the upper left of the window. The upgrader begins the upgrade process and prompts you for a directory in which to archive the currently deployed release, as shown in figure 2-3 below.

Figure 2-3: Upgrader: prompt for archive directory

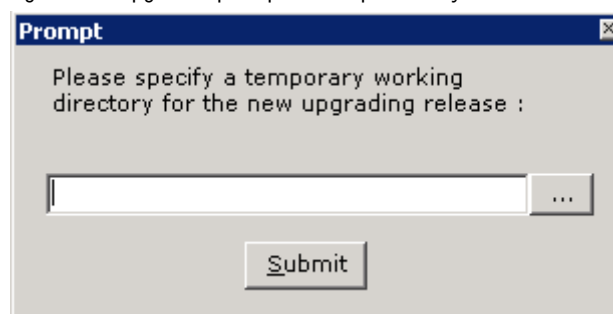


- 3 Type the directory in which to archive the currently deployed release or click the browse button () to navigate to an existing directory.

Caution! This field accepts alphanumeric characters only. To prevent any problems, choose a directory whose name consists of [A-Z,a-z,0-9] characters only (no spaces, hyphens, or other punctuation).

- 4 Click **Submit**. The upgrader records your archive directory choice and prompts you a temporary directory for use in upgrading, as shown in figure 2-4 below.

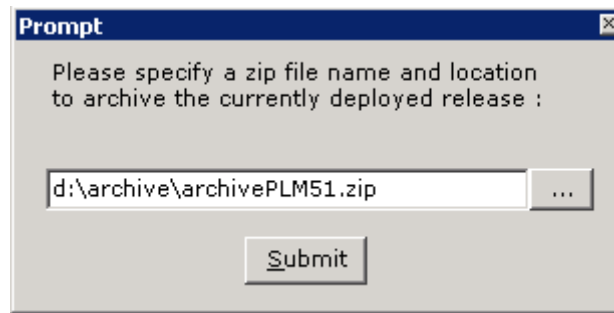
Figure 2-4: Upgrader: prompt for temp directory



- 5 Type a temp directory or use the browse function to select an existing and then click **Submit**. The upgrader records your temp directory choice and prompts you for the location and name of a zip file with which to archive the current installation, as shown in figure 2-5 below.

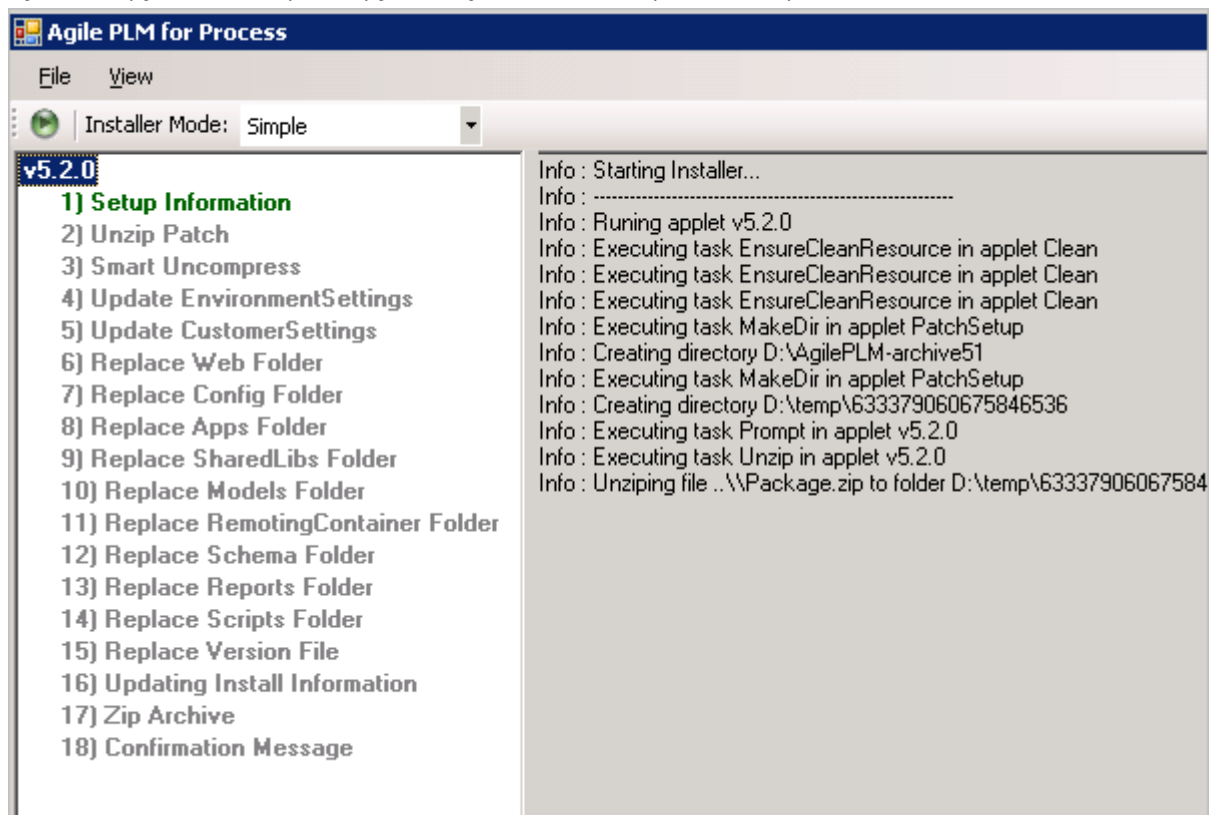
Note The drive used for specifying a temporary working directory should match the drive used for `Prodika_Home`.

Figure 2-5: Upgrader: prompt for archive zip file



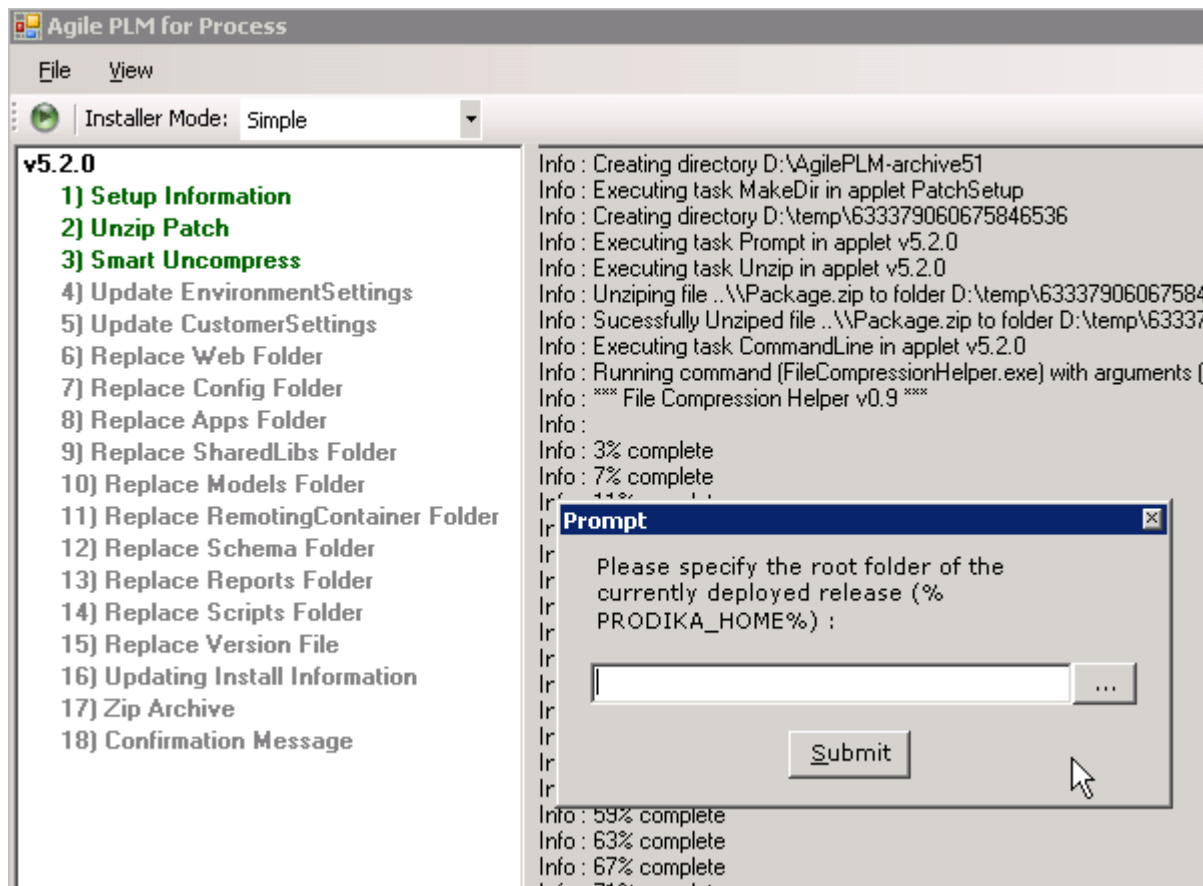
- 6 Type a zip file name and location or use the browse function to select an existing file and then click **Submit**. The upgrader records the zip file name and begins the largest portion of the deployment, which is automated, as shown in figure 2-6.

Figure 2-6: Upgrader: Info output as upgrader begins the automated portion of the process



- 7 The automated portion continues through the Smart Uncompress step, at which the upgrader prompts you for the root folder of the existing installation, as shown in figure 2-7.

Figure 2-7: Upgrader: Smart Uncompress step, prompting you for root directory of existing deployment

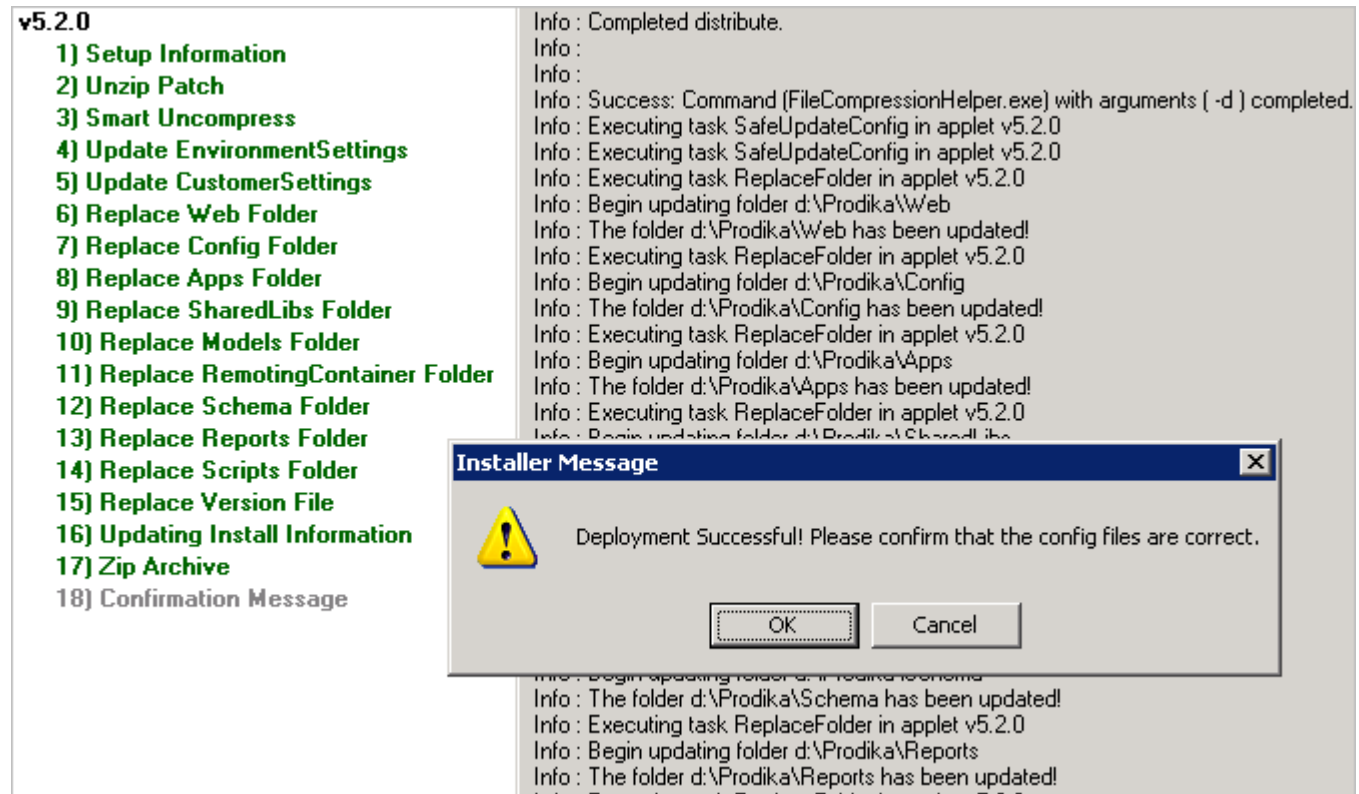


- 8 Type the root folder of the currently deployed release and then click **Submit**. The upgrader works through the remaining steps.

Note This process may take several minutes.

When finished, the upgrader displays an alert box notifying you that the deployment has succeeded and advising you to manually confirm that the config files are correct, as shown in figure 2-8 below.

Figure 2-8: Upgrader: Deployment Successful alert box



Update the Version Number in the version.txt File

Modify the version.txt file as follows:

- 1 In your Prodika_Home directory, locate the version.txt file.
- 2 Open the file with a text editor.
- 3 Change the first line so that it contains only the following text:
Version: v5.2
- 4 Click **File > Save** to save the your change.

Apply Database Upgrade Scripts

Agile Software customers will receive the Agile 5.2 database upgrade scripts on a CD. The scripts are packaged as a zip file.

Important It is very important that you back up the database as indicated in [Back Up the Previous Database Deployment](#) on page 2-3 before upgrading the database. Once the scripts have been applied, there is no way to revert the database to the previous state without a backup.

It is also important that you run the database upgrade scripts in version order (4.9, 4.9.1, 5.0, 5.0.1, 5.1, 5.1.1) to bring the database up to the current software version.

To run the database upgrade script:

- 1 Create a directory to contain your database upgrade scripts. Be sure to use a meaningful name for each directory, for example:
`C:\work\5.2database\v5.2.0`
- 2 Unzip the database upgrade scripts into the directory that you just created.
- 3 Open a command prompt and change directories (cd) to the new directory that you created:
`C:\work\5.2_database\v5.2.0`
- 4 Apply the scripts as indicated in the `README.txt` file provided with the database upgrade package.
- 5 Once the database upgrade scripts have been applied successfully, the system prompts you with the following message:
“Complete - with no errors”

Reconfiguring Settings

Configure the Environment Variables Settings

Using a Text based editor, open the `environmentvariables.config` file and update the server names and port addresses.

Note For further guidance, please refer to the “Environment Variable Settings” section of the *Agile Product Lifecycle Management for Process Configuration Guide*.

Reconfigure the Application Environment Settings

Using a *diff* tool such as WinMerge, you will need to reconfigure the `EnvironmentSettings.config` file located in your `Prodika_Home\Config\` directory.

To reconfigure application environment settings:

- 1 Rename the new `EnvironmentSettings.config` file; change the name to `EnvironmentSettings.config-new`.
- 2 Make a backup copy of the archived version of the `EnvironmentSettings.config` file (from the archived directory) and copy it into the `Prodika_Home\Config\Custom\` directory.
- 3 Using the diff tool, compare the `EnvironmentSettings.config-new` file to the archived copy of the `EnvironmentSettings.config` file.
- 4 Update the `EnvironmentSettings.config-new` file as follows:
 - a Under **ConnectionPools**, change the `CONNECT_STRING` path values to the following:

```
server = your database server
database = your database name
Uid = your database user ID
Pwd = your database password
```
 - b Under **Prodika > Services**, make sure that the port numbers are correctly set up for your Agile services.
 - c Change `%PRODIKA_HOME%` values to the correct `Prodika_Home` value (`c:\Prodika_Home\`).
 - d Carefully merge any other configuration differences for your particular customer needs.
- 5 When you have completed the file comparison and updates, delete the copy that you made of the archived `EnvironmentSettings.config` file.
- 6 Rename the `EnvironmentSettings.config-new` file; change the name back to `EnvironmentSettings.config`.

Reconfigure the Customer Settings

Using a diff tool such as WinMerge, you will need to reconfigure the `CustomerSettings.config` file located in your `Prodika_Home\Config\` directory.

To reconfigure customer settings:

- 1 Rename the new `CustomerSettings.config` file; change the name to `CustomerSettings.config-new`.
- 2 Make a backup copy of the archived version of the `CustomerSettings.config` file (from the archived directory) and copy it into the `Prodika_Home\Config\` directory.
- 3 Using the diff tool, compare the `CustomerSettings.config-new` file to the archived copy of the `CustomerSettings.config` file.
- 4 Carefully merge any configuration differences for your particular customer needs.
- 5 When you have completed the file comparison and updates, delete the copy that you made of the archived `CustomerSettings.config` file.
- 6 Rename the `CustomerSettings.config-new` file back to `CustomerSettings.config`.

Customizing the User Interface

You can customize the look and feel of your Agile PLM for Process installation in two ways:

- ❑ Edit the HTML of the home page or “landing page” — by using any HTML editor (see [Customizing the Agile PLM for Process Default Page](#) on page 2-12)
- ❑ Revise the sitewide style sheet (see [Customizing the Sitewide Style Sheet](#) on page 2-13)

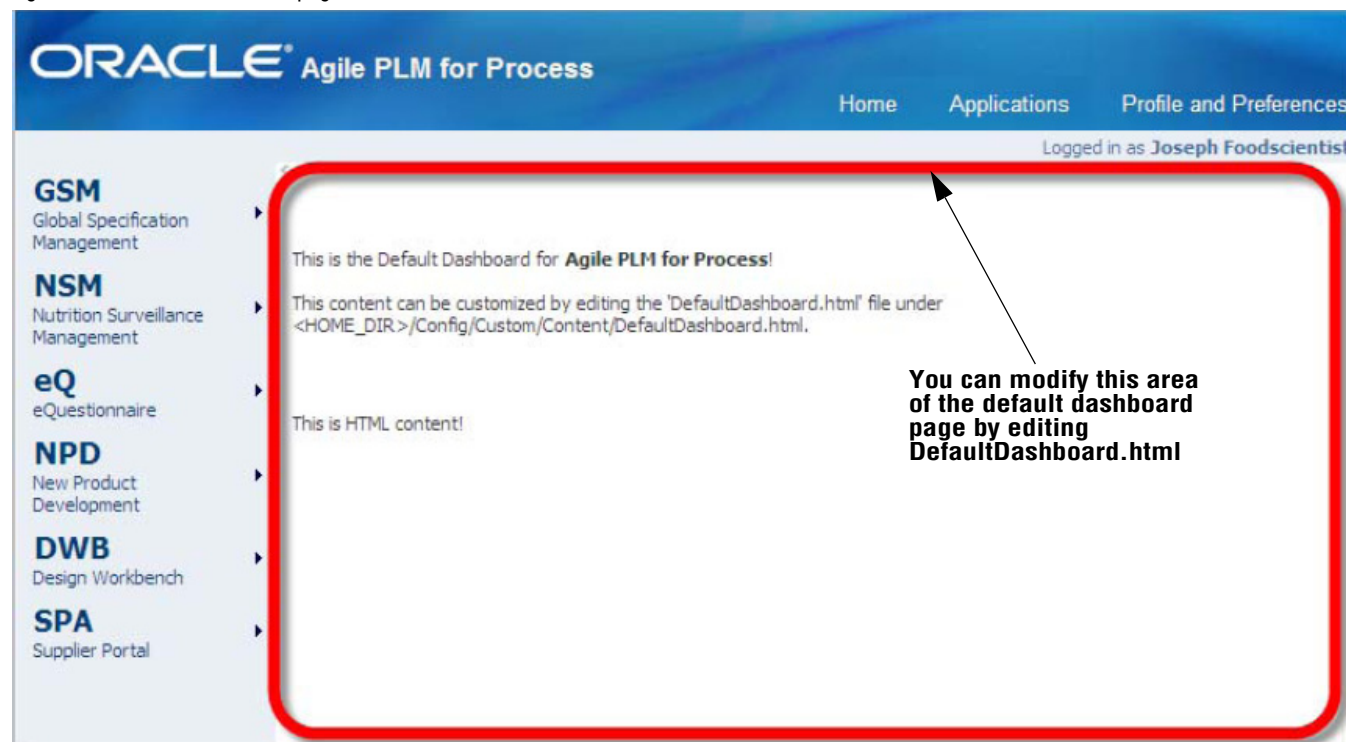
Customizing the Agile PLM for Process Default Page

The default page, or dashboard, of your Agile PLM for Process installation consists partly of an HTML file located at:

```
<HOME_DIR>/Config/Custom/Content/DefaultDashboard.htm
```

This file displays in the main area of your Agile PLM for Process suite, as shown in figure 2-9 below.

Figure 2-9: Default dashboard page



Customizing the Sitewide Style Sheet

You can customize the color scheme and logo of the user interface. A cascading style sheet (`.css`) file controls such visual aspects as background colors, link colors, and your company logo. This file is named “`Brand.css`” and resides at:

```
C:\{Prodika_Home}\Web\CSS\Brand.css
```

You can modify `Brand.css` before or after installing the application suite. In order to add some visual effects, such as your company logo, you must add a Web-viewable graphic file (typically a `.jpg` or `.gif` file) to the following directory:

```
C:\{Prodika_Home}\Web\images\brand
```

Note The style sheet uses standard HTML cascading style sheet tags as set out by the World Wide Web Consortium. Default colors are set out using hexadecimal numbers (and in some cases, the abbreviated, 3-digit hex method). Modifying these settings requires a level of familiarity with cascading style sheets.

The `Brand.css` style sheet file is divided into the following major sections:

Link Colors—Link, active link, visited link (See [Link Colors Section](#) on page 2-14)

Brand Styles—Appearance of headers, footers, buttons, primary and cobrand logo graphics, and so on. (See [Brand Styles Section](#) on page 2-15.)

Navigation— Backgrounds and text colors for the Agile PLM suite home page and for all applications, history drop-down list, tabs, and buttons, and so on. (See [Navigation Section](#) on page 2-16.)

Content Headings— Appearance of page titles and section headings. (See [Content Headings](#) on page 2-24.)

Tables— Table header rows, backgrounds, and background images. (See [Tables Section](#) on page 2-25.)

System Messages— Warning notes, error messages, and so on. (See [System Messages Section](#) on page 2-26.)

Login Styles— Customization of the various areas of the login page. (See [Login Styles Section](#) on page 2-27.)

NPD Map— Appearance of the current step in the workflow map of an NPD activity and that for past and future steps. (See [NPD Map Section](#) on page 2-30.)

Caution! Although Agile PLM for Process uses cascading stylesheets and other Web standards, the system depends on technology associated with Microsoft Internet Explorer™, and use of that Web browser is required for correct display and functioning of this system.

Consult the guidance below to modify any element in the cascading style sheet.

Link Colors Section

The Link Colors section, shown in figure 2-10 below, is the first section in `Brand.css`.

Figure 2-10: `Brand.css` style sheet, Link Colors section, showing default settings

```
/*LINK COLORS
----- */
A:link {color: #2B7C92; font-weight: bold;}
A:visited {color: #2B7C92; font-weight: bold;}
A:active {color: #2B7C92; font-weight: bold;}

.cssxPsuedoLink, .MultiTreeviewNotaccessed, .notaccessed
{color: #2B7C92;}
```

By default, hyperlinks do not change color when a user mouses over them or after a user has clicked them. You can revise that behavior by modifying the color value (in hexadecimal) and font weight.

Note You can modify link color, font weight, and any other valid CSS attribute in this section. By default, all links are underlined.

Brand Styles Section

In the Brand Styles section you can modify, among other things:

- ❑ Header background color and image
- ❑ Primary logo, which appears prominently on the left of the top header, as shown in figure 2-13 on page 2-16
- ❑ Cobrand logo, which appears at the top right of the page, in the header section, as shown in figure 2-11 below

Note The cobrand logo image does not have to be a logo; it can be any image you like.

- ❑ Login info bar, as shown in figure 2-11
- ❑ Brand bar/product bar, as shown in figure 2-13
- ❑ Popup window header background and border, as shown in figure 2-12 below

Figure 2-11: Location of your cobrand logo

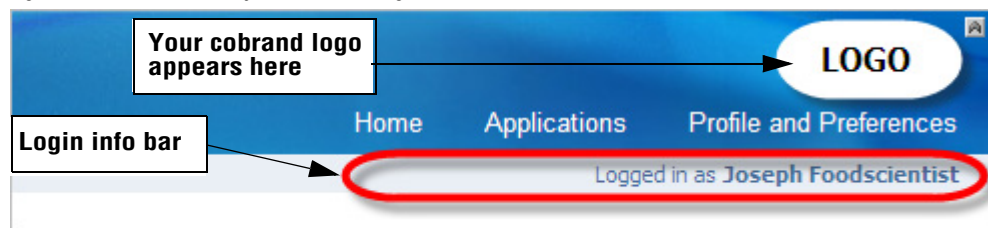


Figure 2-12: Popup window header

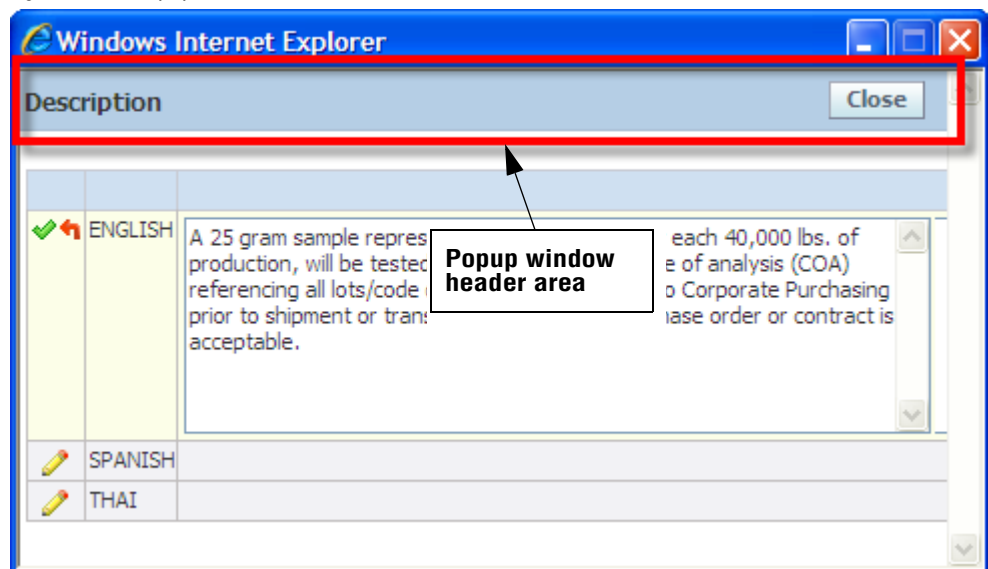
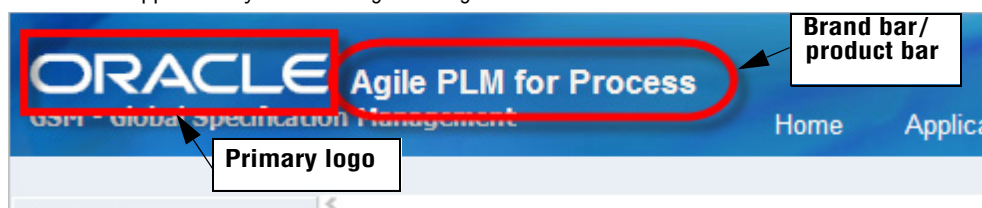


Figure 2-13: Agile PLM for Process header, showing primary logo and brand bar/product bar, whose appearance you can configure using Brand.css



Navigation Section

In the Navigation section, you can modify the appearance of:

- ❑ All navigation backgrounds—Navigational drop-down lists and menu items, for example. (See [All Navigation Backgrounds Subsection](#) on page 2-16.)
- ❑ Platform navigation—Top menu bar. (See [Platform Subsection](#) on page 2-17.)
- ❑ Portal navigation—Left navigation panel. (See [Portal Navigation Subsection](#) on page 2-17.)
- ❑ Application navigation—Left navigation panel as it appears once you are within an application. (See [Application Navigation Subsection](#) on page 2-19.)
- ❑ Text color—Text color for the left navigation panel (portal and application versions), the top menu bar, and history navigation. (See [Text Color Subsection](#) on page 2-20.)
- ❑ History drop-down list—Borders, colors, and any background image for the history drop-down list. (See [History Drop-Down List Subsection](#) on page 2-21.)
- ❑ Tabs—Borders, colors, and background images for all tabs used throughout Agile PLM for Process. (See [Tabs Subsection](#) on page 2-22.)
- ❑ Buttons—Borders, colors, and background images for all buttons in the Agile PLM for Process suite, including page-level function buttons and system buttons. (See [Buttons Subsection](#) on page 2-23.)

All Navigation Backgrounds Subsection

In this subsection, shown in figure 2-14, you can modify the appearance of the backgrounds of all navigational elements.

Figure 2-14: All Navigational Backgrounds Subsection, Navigation section, Brand.css

```
/*All Navigation Backgrounds*/
.cssxPlatformDrop, .cssxPlatformGroup, .cssxPortalGroup,
.cssxPortalMenu, .cssxPortalDrop, .cssxAppNav, .cssxAppNavBg,
.appNav-Level2Item, .historyMenuItem, .historyMenuGroup
{background-color: #eaeff5;}
```

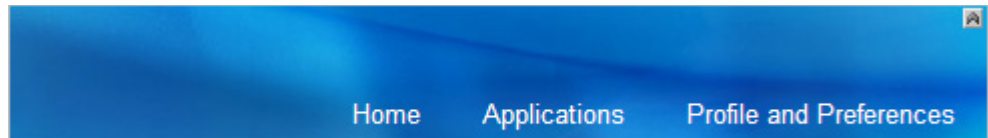
Platform Subsection

In this subsection, shown in figure 2-15, you can modify the color of the text in the top menu bar, as shown in figure 2-16.

Figure 2-15: Platform subsection, Navigation section, Brand.css

```
/*PLATFORM*/  
.cssxPlatformMenuItem, .cssxPlatformMenuItemH /*Platform Text  
Color*/  
{color: #fff;}
```

Figure 2-16: The top menu bar, whose appearance is controlled by the style elements in the Platform subsection



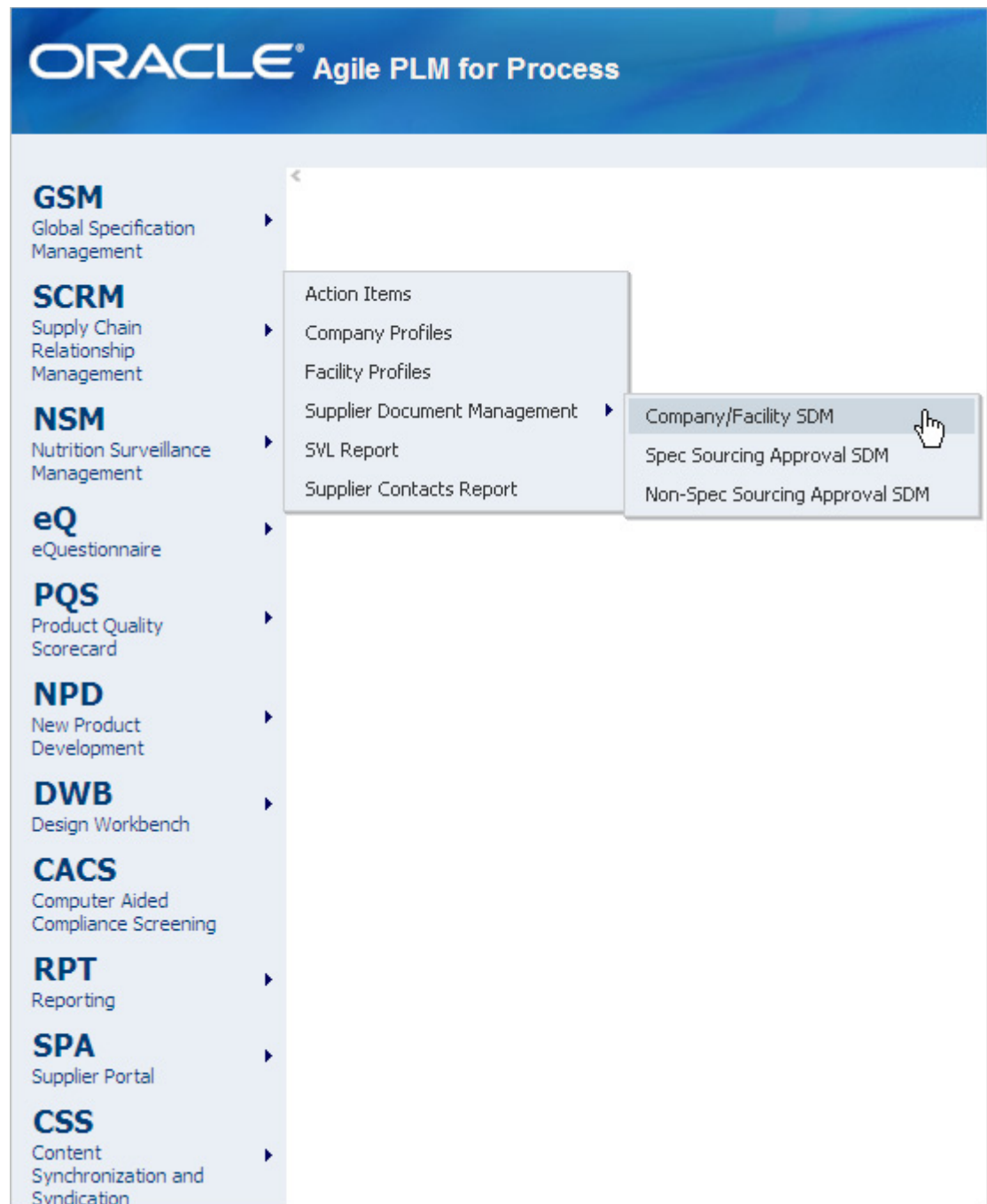
Portal Navigation Subsection

In this subsection, shown in figure 2-17 below, you can modify the appearance of the left navigation panel, shown in figure 2-18.

Figure 2-17: Portal Navigation subsection, Navigation section, Brand.css

```
/*PORTAL*/  
.cssxPortalDropItemH, .cssxPlatformDropItemH /*Highlight*/  
{  
background-color: #ccd7e0;  
}  
  
.cssxPortalNavTitle, .cssxPortalNavCaption /*Text Color*/  
{  
color: #013d74;  
}
```

Figure 2-18: The left navigation panel, whose appearance is controlled by the style elements in the Portal Navigation subsection



Application Navigation Subsection

In this subsection, shown in figure 2-19, you can modify the appearance of the left navigation panel that displays once you are in an application, as shown in figure 2-19 on page 2-19.

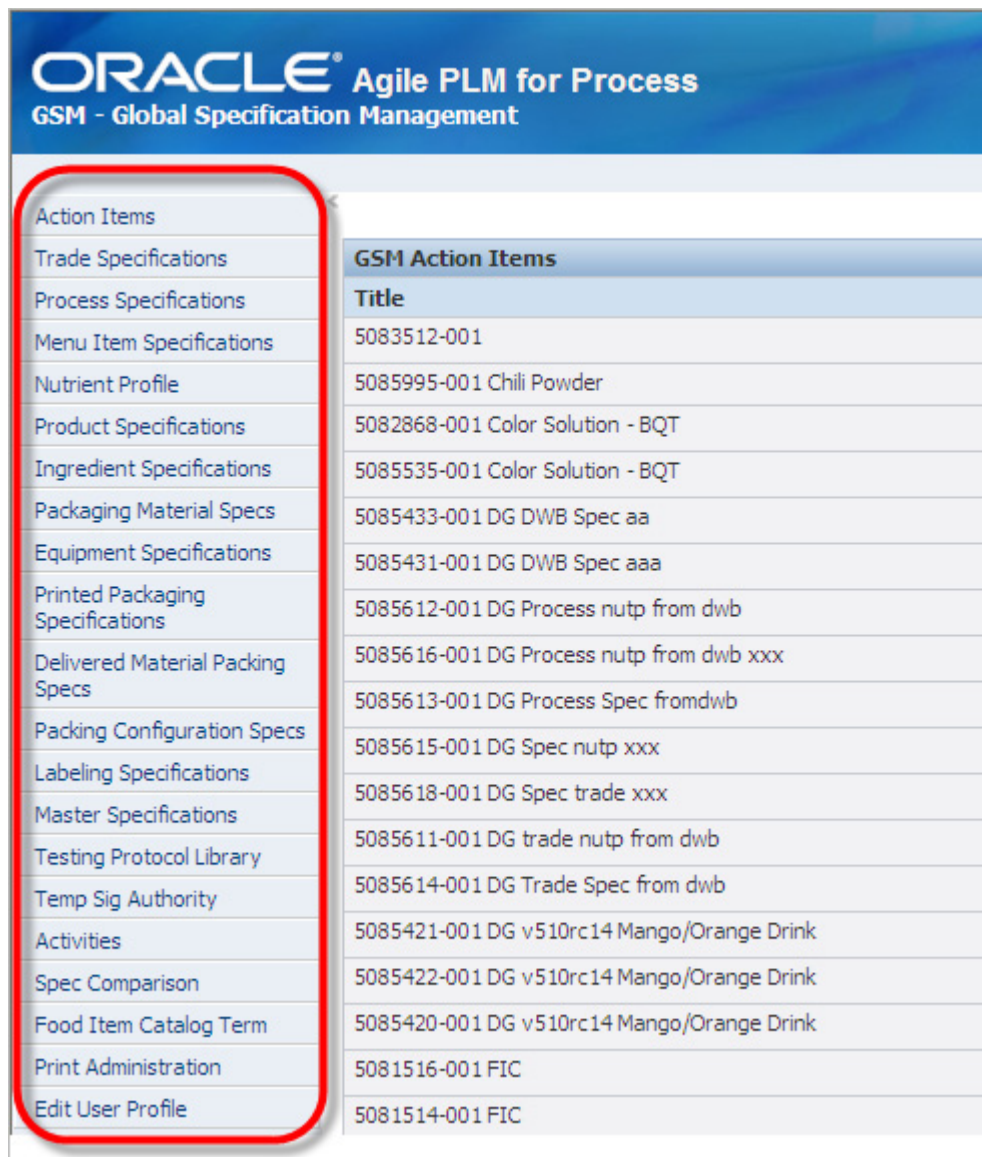
Figure 2-19: Application Navigation subsection, Navigation section, Brand.css

```
/*APPLICATION*/
.appNav-TopItem, .appNav-TopItem2 /*Parent Category*/
{
border: 1px solid #f2f9fe;
border-right-color:#9aa3aa;
border-bottom-color:#9aa3aa;
background-color: #ccd7e0;
}

.appNav-TopItemHover, .appNav-TopItemHover2 /*Parent Category
Highlight*/
{
border: 1px solid #f2f9fe;
border-right-color:#9aa3aa;
border-bottom-color:#9aa3aa;
background-color: #fff;
}

.appNav-Level2ItemHover, .appNav-Level2ItemSelected , .appNav-
TopItemActive2, .appNav-TopItemActive /*Parent & Item Highlights &
Onclicks*/
{
background-color: #fff;
}
```

Figure 2-20: Left navigation panel that displays once you are in GSM



Text Color Subsection

In this subsection, shown in figure 2-21 below, you can modify the color of the text in the left navigation panel (portal and application versions), the top menu bar, and history navigation.

Figure 2-21: Text Color subsection, Navigation section, Brand.css

```
/*Text Color*/
.appNav-Level2Item td, .appNav-TopItemActive2 td, .appNav-TopItem
td, .appNav-TopItem2 td, .appNav-TopItemHover td, .appNav-
TopItemHover2 td, .appNav-TopItemActive td, .appNav-Level2ItemHover
td, .appNav-Level2ItemSelected td
{
color: #013d74;
}
```


History Drop-Down List Subsection

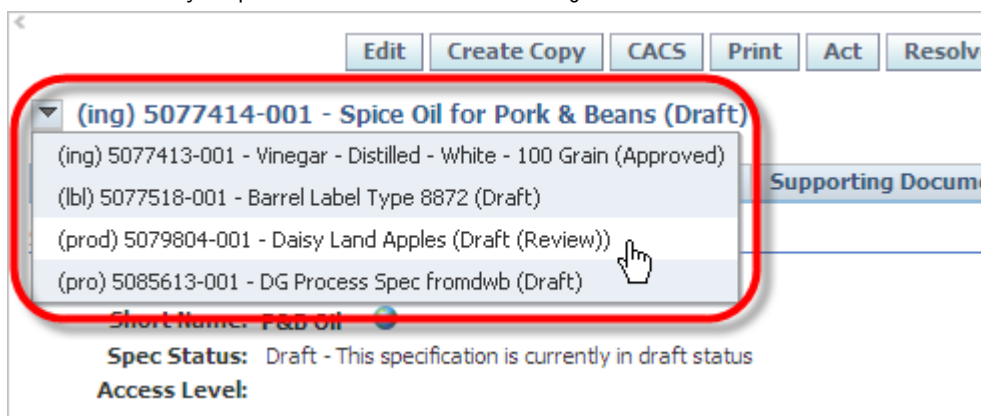
In this subsection, shown in figure 2-22 below, you can modify the borders, colors, and any background image used in history drop-down lists, as shown in figure 2-23.

Figure 2-22: History Drop-Down List subsection, Navigation section, Brand.css

```
/*HISTORY*/
.historyTopMenuItem, .historyTopMenuItemHover /*History Menu Top
Menu Background */
{
background-image: url(../images/brand/subDimTabBg.gif);
}

.historyMenuItemHover /*History Menu Highlight*/
{
background-color:#FFFFFF;
}
```

Figure 2-23: The history drop-down list, whose appearance is controlled by the style elements in the History Drop-Down List subsection of the Navigation section of Brand.css



Tabs Subsection

In this subsection, shown in figure 2-24 below, you can modify the borders, colors, and any background images used in all tabs throughout Agile PLM for Process.

Figure 2-24: Tabs subsection, Navigation section, Brand.css

```
/*TABS*/
.tabmenu /*Tab Bottom Line*/
{
border-bottom: #92badc 2px solid;
}

.subtabmenu /*SubTab Bottom Line*/
{
border-bottom: #82b2db 3px solid;
}

.DefaultTab, .subDefaultTab /*Unselected Tabs*/
{
background-image: url(../images/brand/subDimTabBg.gif);
border: 1px solid #c0c0c0;
}

.SelectedTab, .subSelectedTab /*Selected Tabs*/
{
background-image: url(../images/brand/subTabBg.gif);
border: 1px solid #a3bed8;
color: #3c3c3c;
}

.TabMenuText, .tabnav_unselectedtab_span, .subTabMenuText /*Text
Color*/
{
color: #3e5576;
}
```

Buttons Subsection

In this subsection, shown in figure 2-25 below, you can modify the borders, colors, and any background images used in all buttons throughout Agile PLM for Process. As shown in the figure, there are separate sections for page-level function buttons (see figure 2-26) and system buttons (see figure 2-27 on page 2-24).

Figure 2-25: Buttons subsection, Navigation section, Brands.css

```
/*BUTTONS*/

/*Page-Level Function Buttons*/
input.elButton, a.elButton, a.elButton:visited, a.elButton:linked,
a.elButton:hover,
.actionMenu-TopMenuItem, .actionMenu-TopMenuItemHover, .actionMenu-
MenuGroup, .actionMenu-MenuItem, .actionMenu-MenuItemHover
{
border-right: solid 1px #7b8194;
border-bottom: solid 1px #7b8194;
border-top: solid 1px #a5a9b6;
border-left: solid 1px #a5a9b6;
background-image: url(../images/brand/btn-bg.gif);
background-color: #c9e5ec;
color: #586073;
}

/*System Buttons*/
.cssxBtnFunction, A.cssxBtnFunction:link,
A.cssxBtnFunction:visited, A.cssxBtnFunction:hover,
.cssxBtnControl, A.cssxBtnControl:link, A.cssxBtnControl:visited,
A.cssxBtnControl:hover
{
border-right: solid 1px #7b8194;
border-bottom: solid 1px #7b8194;
border-top: solid 1px #a5a9b6;
border-left: solid 1px #a5a9b6;
background-image: url(../images/brand/btn-bg.gif);
background-color: #c9e5ec;
color: #586073;
}
```

Figure 2-26: Page-level function buttons, whose appearance is controlled by the style elements in the Buttons subsection of the Navigation section of Brand.css

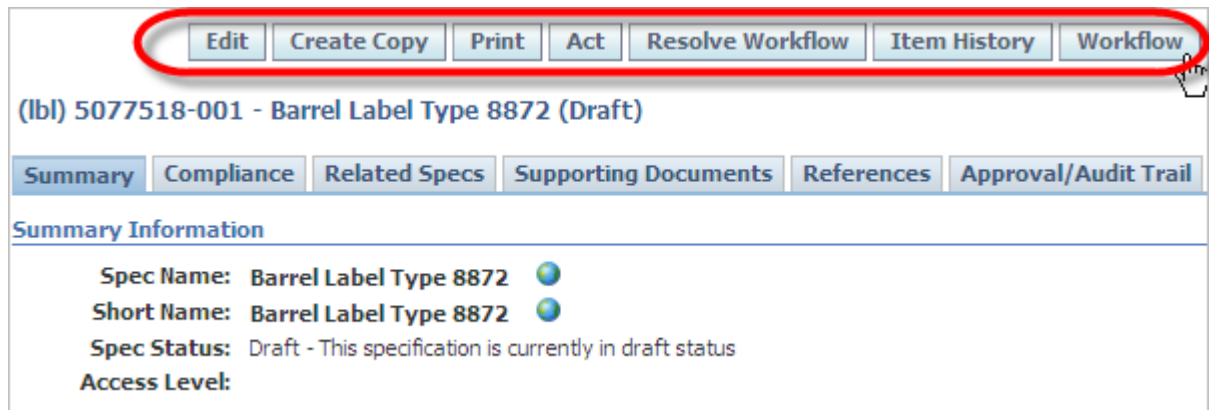
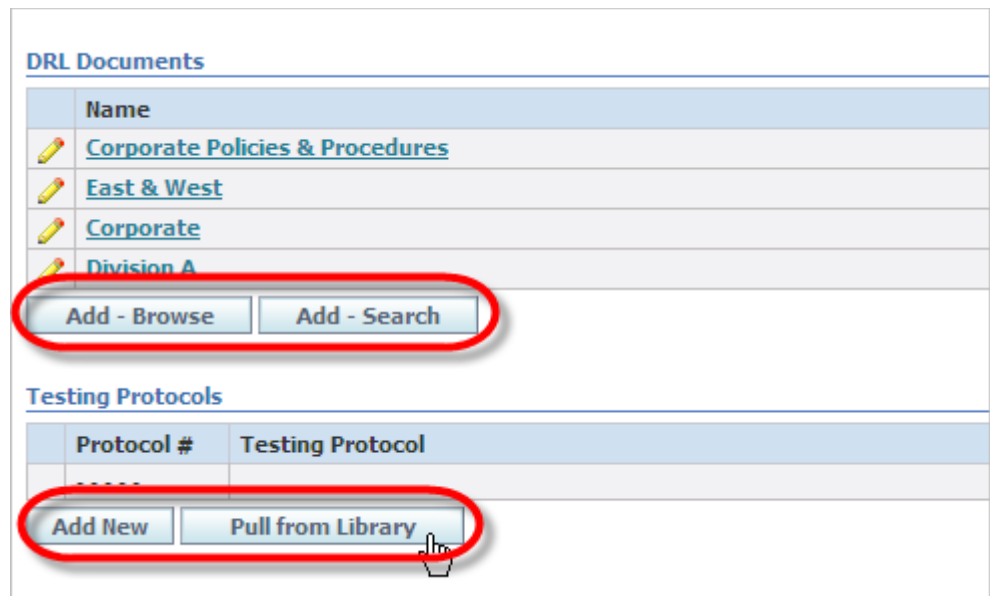


Figure 2-27: Sample of system buttons, whose appearance is controlled by the style elements in the Buttons subsection of the Navigation section of Brand.css



Content Headings

In the Content Headings section, shown in figure 2-28, you can modify the appearance of page titles and section headings.

Figure 2-28: Content headings section of Brand.css

```
/*CONTENT HEADINGS
----- */
/*Page Titles*/
.cssxPageTitle, .cssxPageTitle H1, .cssxPageTitle a:link,
.cssxPageTitle a:visited, .cssxPageTitle a:hover, .cssxPageTitle
a:active
{
color: #3a5a87;
}

/*Section Headings*/
h2, h4
{
color: #426ca7;
border-bottom: #567fc7 1px inset;
font-size: 100%;
}
```

Tables Section

In the Tables section, shown in figure 2-29, you can modify the appearance of:

- ❑ Table header rows
- ❑ Table background
- ❑ Action Items header, as shown in figure 2-30

Figure 2-29: Tables section of Brand.css

```

/*TABLES
----- */





/* Table Header Rows */
.cssxBASEGrid th, .cssxActionGrid TH, .cssxActionGrid
.cssxActionGridHeaders, .cssxTreeDataGrid th
{
background-color:#cfe0f1;
}

/*Table Background*/
.cssxTreeDataGrid, .cssxActionGrid td, .cssxBASEGrid
{
background-color:#f2f2f5;
}

/*Action Items Header*/
.cssxActionGrid .cssxActionHeader
{
background-image: url(../images/brand/hBar-Bg.gif);
color:#333;
}

```

Figure 2-30: Action Items header

on Management			
Home		Applications	Profile and Preferences
Logged in as Fred Jones			
GSM Action Items			
Title	Type	Status	RAG/SLA
5084027-002 Flapjacks Extraordinaire	Ingredient Specifications	Draft	
5083512-001 Gingkobiloba Root	Nutrient Profile	Draft	
5085995-001 Chili Powder	Ingredient Specifications	Draft	
5082867-001 Color Solution - BQT	Nutrient Profile	Draft	

System Messages Section

In the System Messages section, shown in figure 2-31 below, you can modify the appearance of:

- ❑ Warning note header image and background color
- ❑ Error message header image and background color
- ❑ Information note header image and background color

Figure 2-31: System Messages section of Brand.css

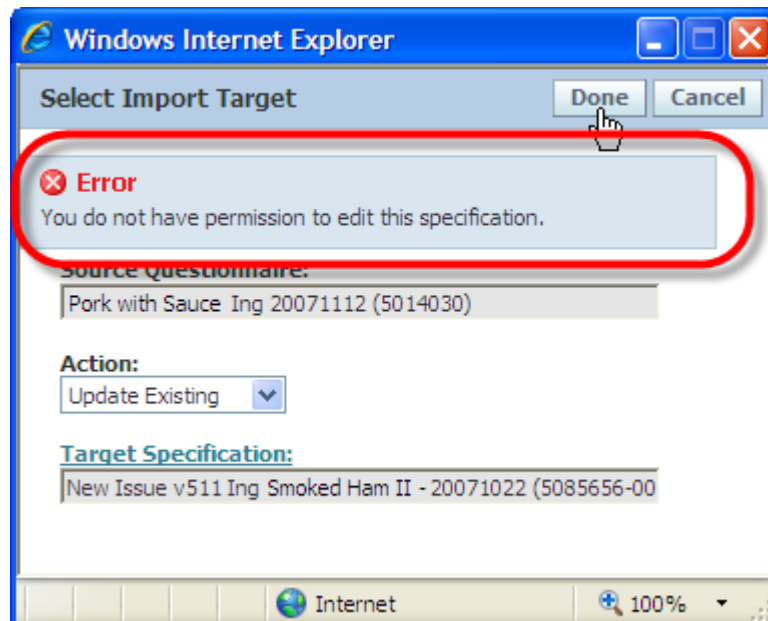
```
/*SYSTEM MESSAGES
----- */
.cssxWarningNote /*Warning Message Header*/
{
background-image:url(../images/brand/warning-header.gif);
}

.cssxErrorNote /*Error Message Header*/
{
background-image:url(../images/brand/error-header.gif);
}

.cssxInfoNote /*Information Message Header*/
{
background-image:url(../images/brand/information-header.gif);
}

.cssxWarningNote, .cssxErrorNote, .cssxInfoNote /*Warning, Error,
Information Messages*/
{
border:solid 1px #b2c8dc;
background-color: #d9e5ef;
}
```

Figure 2-32: Error message, with image, background color, and border style set by .cssErrorNote



Login Styles Section

In the Login Styles section, shown in figure 2-33 below, you can modify the appearance of different sections of the login page. The six style elements in the Login Styles section apply to five areas of the login screen (two elements apply to one area).

Figure 2-33: Login Styles section of Brand.css

```
/*LOGIN STYLES
----- */
.cssxLogin-1 /*Row 1*/
{background-color:#ededed;height:70px;}

.cssxLogin-2 /*Row 2*/
{background-color:#f4f4f4;}

.cssxLogin-3a /*Row 3 Column 1*/
{background-color:#f4f4f4;}

.cssxLogin-3b /*Row 3 Column 2*/
{background-image:url(../images/style/login-lightBlue_back.jpg);
background-repeat:repeat-x;background-color:#fbfbfb}

.cssxLoginPhoto
{
background-image: url(../images/style/login-people.jpg);
width: 417px;
height: 54px;
}

.cssxLoginGraphic
{
background-image: url(../images/style/login-globe.jpg);
width: 351px;
height: 259px;
}
```

The area affected by each of the six elements is illustrated in the following figures:

cssxLogin-1— *Login screen area affected by the .cssLogin-1 style element of Brand.css on page 2-28*

cssxLogin-2— *Login screen area affected by cssxLogin-2 style element of Brand.css on page 2-28*

cssxLoginPhoto— *Login screen area affected by the .cssxLoginPhoto style element in Brand.css on page 2-29*

cssxLogin-3a and cssxLoginGraphic— *Login screen area affected by cssxLogin-3a and cssxLoginGraphic style elements of Brand.css on page 2-29*

cssxLogin-3b— *Login screen area affected by the cssxLogin-3b style element of Brand.css on page 2-30*

Figure 2-34: Login screen area affected by the .cssxLogin-1 style element of Brand.css

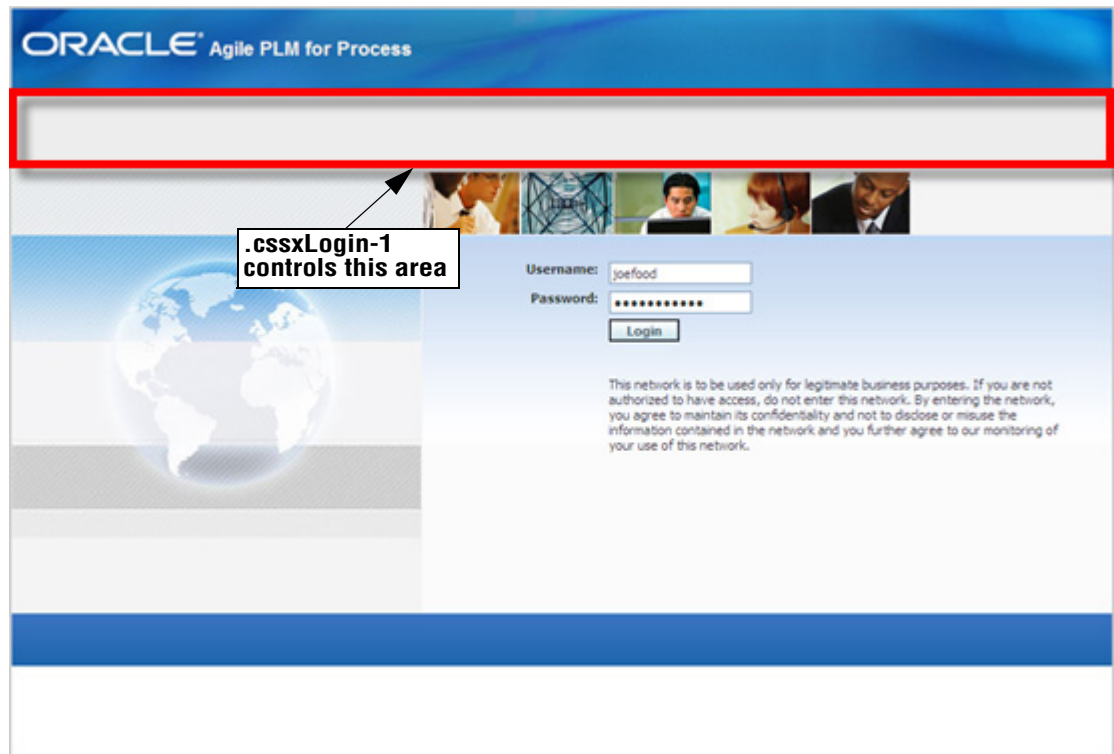


Figure 2-35: Login screen area affected by cssxLogin-2 style element of Brand.css



Figure 2-36: Login screen area affected by the .cssxLoginPhoto style element in Brand.css

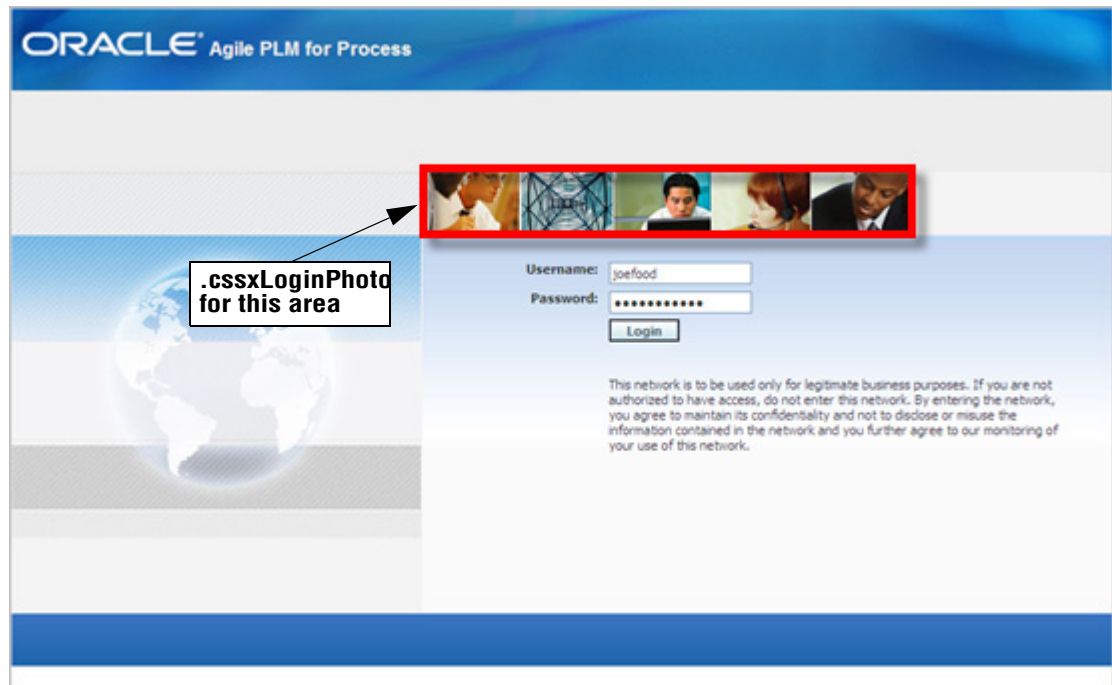


Figure 2-37: Login screen area affected by cssxLogin-3a and cssxLoginGraphic style elements of Brand.css

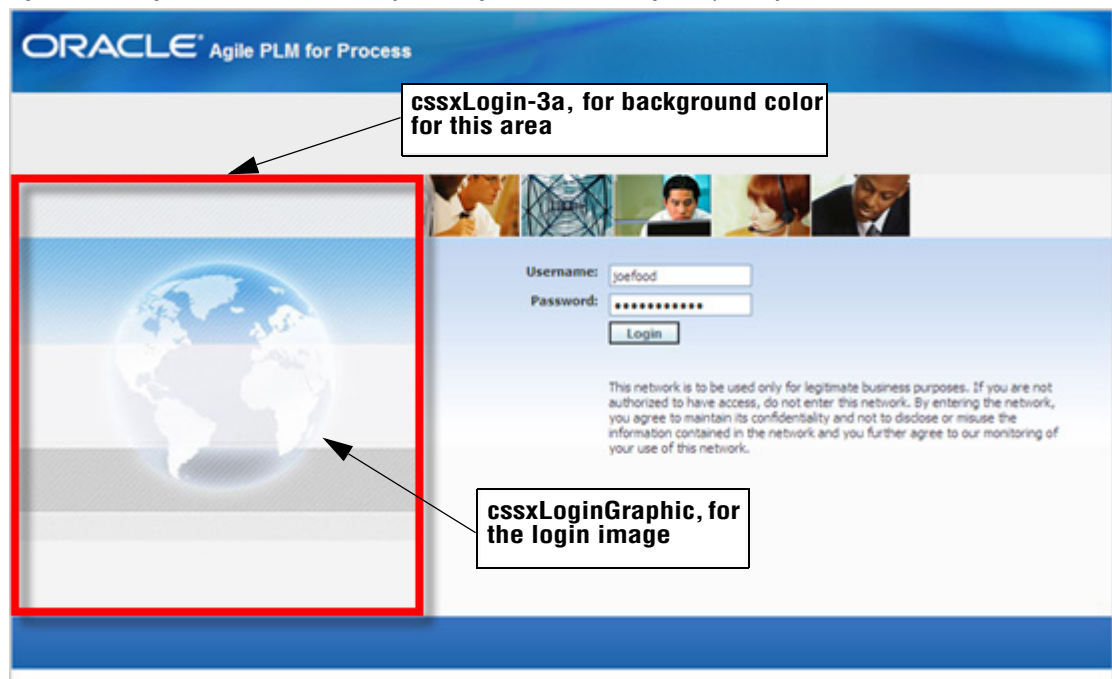
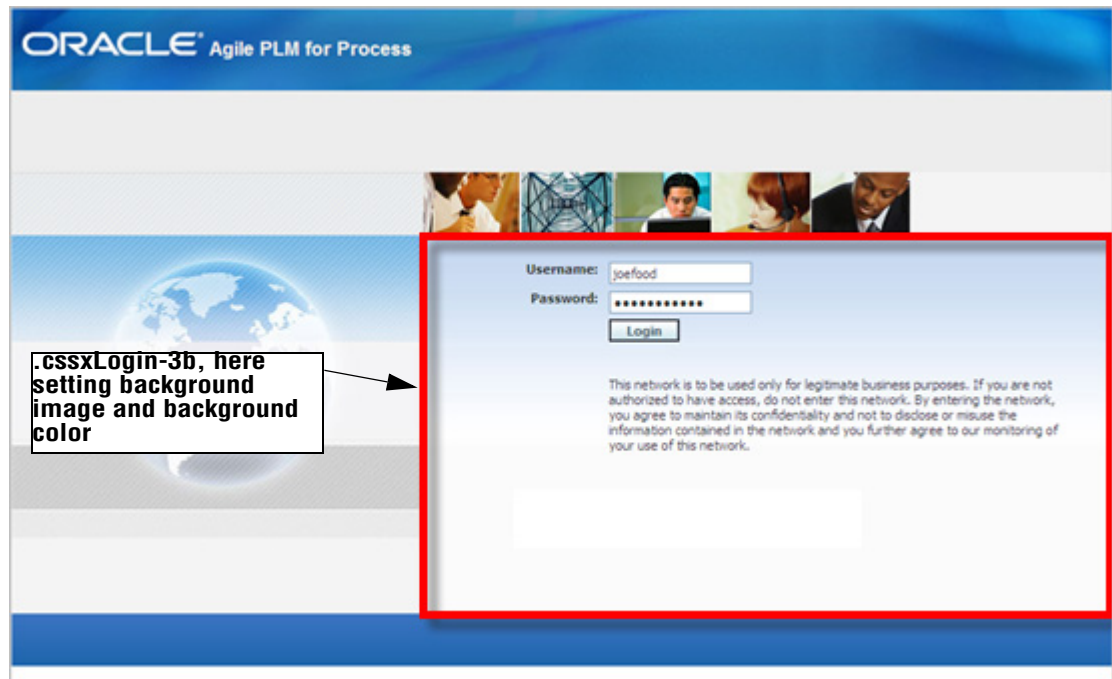


Figure 2-38: Login screen area affected by the cssxLogin-3b style element of Brand.css



NPD Map Section

In the NPD Map section, shown in figure 2-39 below, you can modify the appearance of the workflow map that you can view from within the New Product Development (NPD) application. Specifically, you can control the appearance of the current (highlighted) workflow step and the past and future (non-highlighted) steps. Figure 2-40, on page 2-31 shows a sample of an NPD map for reference.

Figure 2-39: NPD Map section of Brand.css

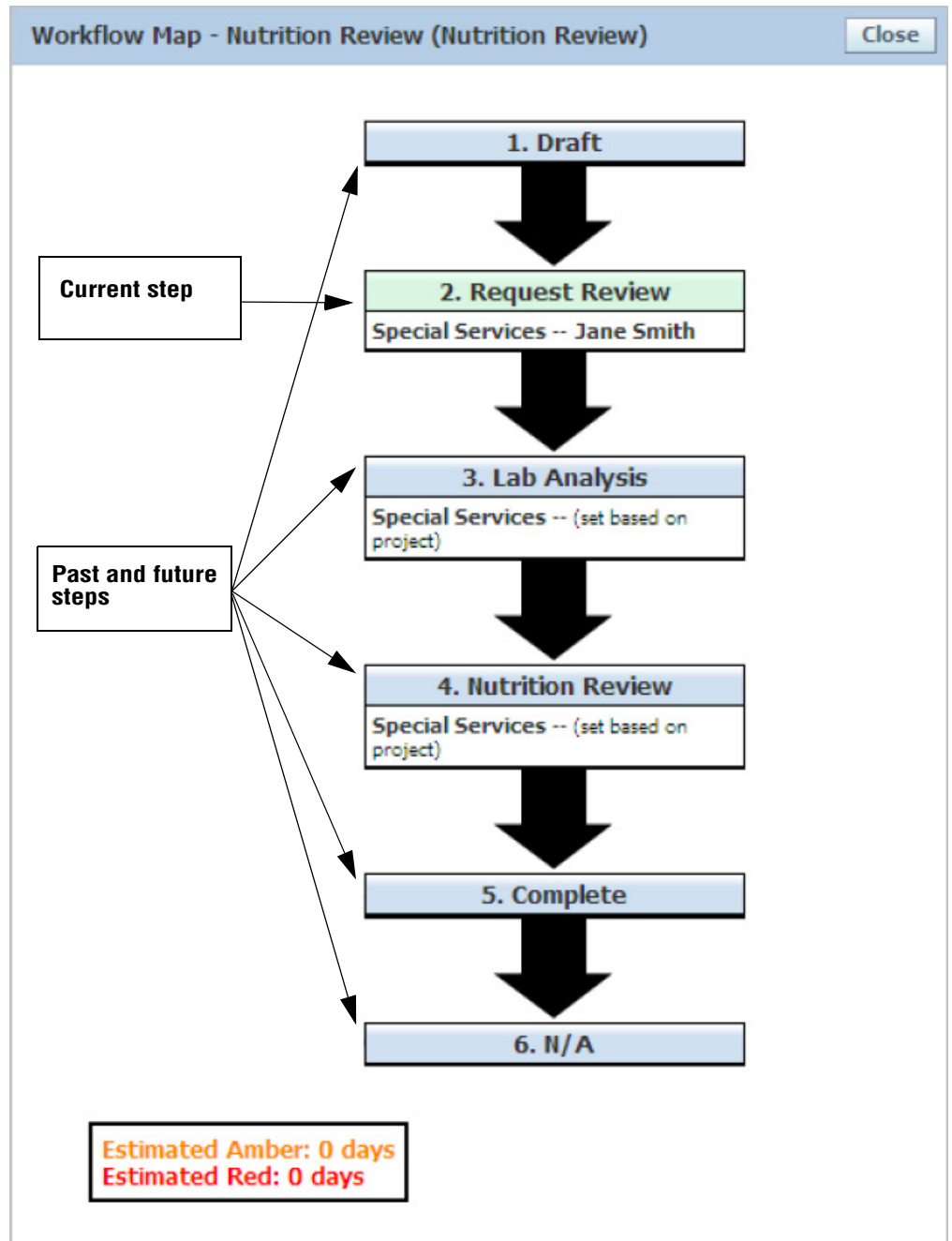
```

/*NPD MAP
----- */
.cssxHiMapStep /*NPD Map - Highlighted Workflow Step*/
{
color: #333;
background-color: #CCCCCC;
background-image:url(../images/brand/NPDHiMapStep.gif);
background-repeat:repeat-x;
}

.cssxMapStep /*NPD Map - Workflow Step*/
{
color: #333;
background-image:url(../images/brand/NPDMapStep.gif);
background-repeat:repeat-x;
background-color: #b6b6b6;
}

```

Figure 2-40: Map of an NPD activity showing highlighted and non-highlighted workflow steps



Updating the Sort Order of the Left Navigation Panel

You can use the `SiteMap-DisplayOrder.xml` file to change the menu item ordering for existing menus that come with the product. All the menu items have a `SortOrder` property that is evaluated and ordered in ascending order.

For example:

```
<MenuItem ID="Menu1" SortOrder="10" configChildKey="ID"/>
<MenuItem ID="Menu2" SortOrder="20" configChildKey="ID"/>
```

The above menus are displayed as in the order Menu1, Menu2. If the sort order is transposed, then Menu2 gets displayed before Menu1. The actual number or the spacing between these tags does not matter. In the above example, 10 menu items could be inserted between Menu1 and Menu2 and yet be sorted deterministically. If two menus have the same sort order, then the display order is not guaranteed between those two elements.

Extending the Left Navigation Panel

With the `SiteMap-Extensions.xml` file you can add new menu items that are not part of the core product. In general a menu item would look like the following:

```
<MenuItem ID="translation Id" DisplayText="Generally note
    used... just to indicate what gets displayed"
    SecurityProfileRef="Security Profile Name"
    SkinRef="Skin Profile Name"
    TranslationRef="Translation Profile Name"
    SortOrder="Some number" NavigateUrl="http://
    SomeUrl.com" />
```

Menu items can be nested to create menu hierarchies, as shown below:

Application Wide Menu **Applications** **GSM**

...then the menu definition would look like this:

```
<MenuItem ID="ApplicationWideMenu" DisplayText="**Application Wide
Menu" >
  <MenuItem ID="Applications" DisplayText="**Applications">
    <MenuItem ID="GSMSideNav" DisplayText="**GSM">
      <MenuItem ID="[translation Id]"
        DisplayText="[Generally note used... just to indicate
        what gets displayed]"
        SecurityProfileRef="[Security Profile Name]"
        SkinRef="Default Skin"
        TranslationRef="Application Menu"
        SortOrder="[Some number]"
        NavigateUrl="[http://SomeUrl.com]" />
    </MenuItem>
  </MenuItem>
</MenuItem>
```

The values in [] need to be changed.

For more information, see [Setting Security on the Left Navigation Panel Items](#) below. Other than that, the `NavigateUrl` indicates the url to navigate to when a user clicks a menu item.

Setting Security on the Left Navigation Panel Items

This section discusses how to use the `MenuConfig-Extensions.xml` file to secure left navigation items.

More than likely, only the security settings for new menu items will need to be modified. Every `SiteMap` entry has three properties that determine how the menu item is rendered in terms of security, appearance, and the translated text that is shown to the users. These properties are `SkinRef`, `SecurityRef` and `TranslationRef`. All of these properties except the `SkinRef` cascade to child elements; so if a menu item does not have a `SecurityRef` property, then it inherits the security profile of its parents.

Security Profile

Below is a snippet of the security provider configuration in `MenuConfig.xml`:

```
<Provider ID="SecurityProvider" ...>
  <SecurityProfiles...>
    <SecurityProfile ID="Default" Mode="Visibility">
      <Allow Roles="*" />
    </SecurityProfile>
    <SecurityProfile ID="PQSReportViewer" Mode="Visibility"
Application="PQS">
      <Allow Roles="[PQS_ADMIN],[PQS_Reporter]" />
    </SecurityProfile>
    ...
  </SecurityProfiles>
</Provider>
```

The `SiteMap` menu items have security profiles associated with every menu. For example, if a menu item were set up with a profile of `PQSReportViewer`, it would evaluate to the above security profile. What this security profile describes is “Any PQS user with the roles `[PQS_ADMIN]` OR `[PQS_Reporter]` has visibility to the menu item.”

If `Application` were blank or not defined, then it would mean “Any user with the roles `[PQS_ADMIN]` OR `[PQS_Reporter]` has visibility to the menu item.”

Wild card of “*” is allowed on Users, Roles and Applications, and it signifies “all.”

Translation Profile

Typically all pipelines are configured with a dynamic translation provider, which usually looks like this:

```
<Provider ID="ApplicationWideMenuTranslationProvider" ...>
  <TranslationCaches...>
    <TranslationCache ID="GSMSideBar" Path="frmMaster/ctlNavMenu1"/>
    <TranslationCache ID="NDPSideBar" Path="frmNPD/ctlSidebar"/>
  </TranslationCaches>
  ...
</Provider>
```

If the menu item has a translation profile, it looks up the cache from the translation caches collection. If a menu item has a TranslationRef of “GSMSideBar,” then it maps to the frmMaster/ctlNavMenu1 translation cache.

This defines skin profiles specific to the Component Art Navigation items, which use ItemLooks to define the way navigation controls look. When a menu or menu item is configured with an item look, the LookId property is very important and all the properties are case sensitive. Every Skin can have only a finite set of ItemLooks, and the LookId determines the look of the menu items in various situations.

Valid LookIds for Top-Level Menus

```
DefaultChildSelectedItemLook
DefaultDisabledItemLook
DefaultItemLook
DefaultSelectedItemLook
```

Valid LookIds for MenuItems

```
ChildSelectedLook
DefaultSubItemChildSelectedLook
DefaultSubItemDisabledLook
DefaultSubItemLook
DefaultSubItemSelectedLook
DisabledLook
Look
SelectedLook
```

Syntax for Setting Properties

All parameters that are picked up from context supplied to the MenuBuilderService are of the form `${variableName[,defaultValue]}`.

Reconfiguring and Restarting Remote Container Service and Web Application Server

Reconfigure the Remote Container Service

As of version 5.2, it is not necessary to reconfigure the Remote Container service.

Restart the Remote Container Service

Using IIS Computer Management, restart the remote container service:

- 1 Right-click **My Computer** and select **Manage** from the shortcut menu to display the Computer Management dialog box.
- 2 Under Services and Applications, select **Service** to display a list of services in the right pane.
- 3 Locate the RemoteContainer Service and click it.
- 4 Select the **Start the Service** option in the top left portion of the Services pane.

Restart the Web Application Server

Using a command prompt, restart the IIS Web application server:

- 1 Open a command prompt.
- 2 Enter the following command:
`C:\Documents and Settings\Administrator>iisreset`
The Web application server restarts.

Verifying the Installation

Log in to the Agile user portal and verify that the installation is functioning correctly. We recommend that you perform a variety of post-installation tests to ensure that all the applications are functioning correctly. For more information, see [Installation Verification Tests](#) on page 1-24.

