

Agile Product Lifecycle Management for Process

Install/Upgrade Guide

Release 6.0.0.4.0

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Agile Product Lifecycle Management for Process, Release 6.0.0.4.0

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ABOUT THIS MANUAL

Agile Product Lifecycle Management for Process Documentation

The Agile Product Lifecycle Management (PLM) for Process documentation set includes Adobe® Acrobat™ PDF files. The Oracle Technology Network (OTN) Web site: <http://www.oracle.com/technetwork/documentation/agile-085940.html> contains the latest versions of the Agile PLM for Process PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Agile PLM for Process Documentation folder available on your network from which you can access the Agile PLM for Process documentation (PDF) files.

Note To read the PDF files, you must use the free Adobe Reader™ version 7.0 or later. This program can be downloaded from the Adobe Web site: <http://www.adobe.com/>.

If you need additional assistance or information, please go to <http://metalink.oracle.com> or phone 1.800.233.1711 for assistance.

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Audience

This guide is intended for end users who are responsible for creating and managing information in Agile Product Lifecycle Management for Process. Information about administering the system resides in the *Agile Product Lifecycle Management for Process Administrator User Guide*.

Variability of Installations

Descriptions and illustrations of the Agile PLM for Process user interface included in this manual may not match your installation. The user interface of Agile PLM for Process applications and the features included can vary greatly depending on such variables as:

- ❑ Which applications your organization has purchased and installed
- ❑ Configuration settings that may turn features off or on
- ❑ Customization specific to your organization
- ❑ Security settings as they apply to the system and your user account

Where to Find Information




Consult the table below to find specific information from the relevant Agile Product Lifecycle Management for Process information source.

Table 1: Agile Product Lifecycle Management for Process documentation topics, by source

Information type	Install/ Upgrade Guide	Admin. User Guide	Release Notes	Agile training	Help Desk	Agile sales rep
Cache management		●				
Core data management		●				
Custom data management		●				
Custom sections		●		●		
Extended attributes		●		●		
Feature requests					●	●
Group management		●				
Installing Agile PLM for Process	●			●		●
Known issues			●			
Managing specifications				●		
New in this release			●	●		●
Printing				●		
Resolved issues			●			
System-based roles		●				
Technical support					●	
Upgrading Agile PLM for Process	●					
User management		●				
Workflow management		●				

Document Conventions

The following formatting elements appear in Agile Product Lifecycle Management for Process documentation.

Element	Meaning
Helvetica Condensed, 9 pt. bold type	A user interface (UI) element that a procedure is instructing you to click, select, or type into. For example, buttons or text entry fields.
9 pt. monospace font	Code samples
10 pt. monospace font	File names or directory names
<i>Blue italic font</i>	The linked portion of a cross-reference. Click it to go to the referenced heading, table, or figure.
Minion Typeface, Title Case	A named UI element that a procedure is describing but not instructing you to click, select, or type into.
 Note Minion 11.5 pt, with faint blue bar over & under	Alerts you to supplemental information.
 Caution! Minion 11.5 pt, with faint red bar over & under	Alerts you to possible data loss, breaches of security, or other more serious problems.
 Important Minion 11.5 pt, with thick red bar over & under	Alerts you to supplementary information that is essential to the completion of a task.

CHAPTER 1

Installation

This chapter discusses Agile Product Lifecycle Management for Process 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

Important Some tasks required to complete this installation are technical in nature. Please refer to [Skill Set Matrix](#) on page F-1 for a list of skills recommended for completing tasks included in this guide.

Checking for Latest Information and Instructions

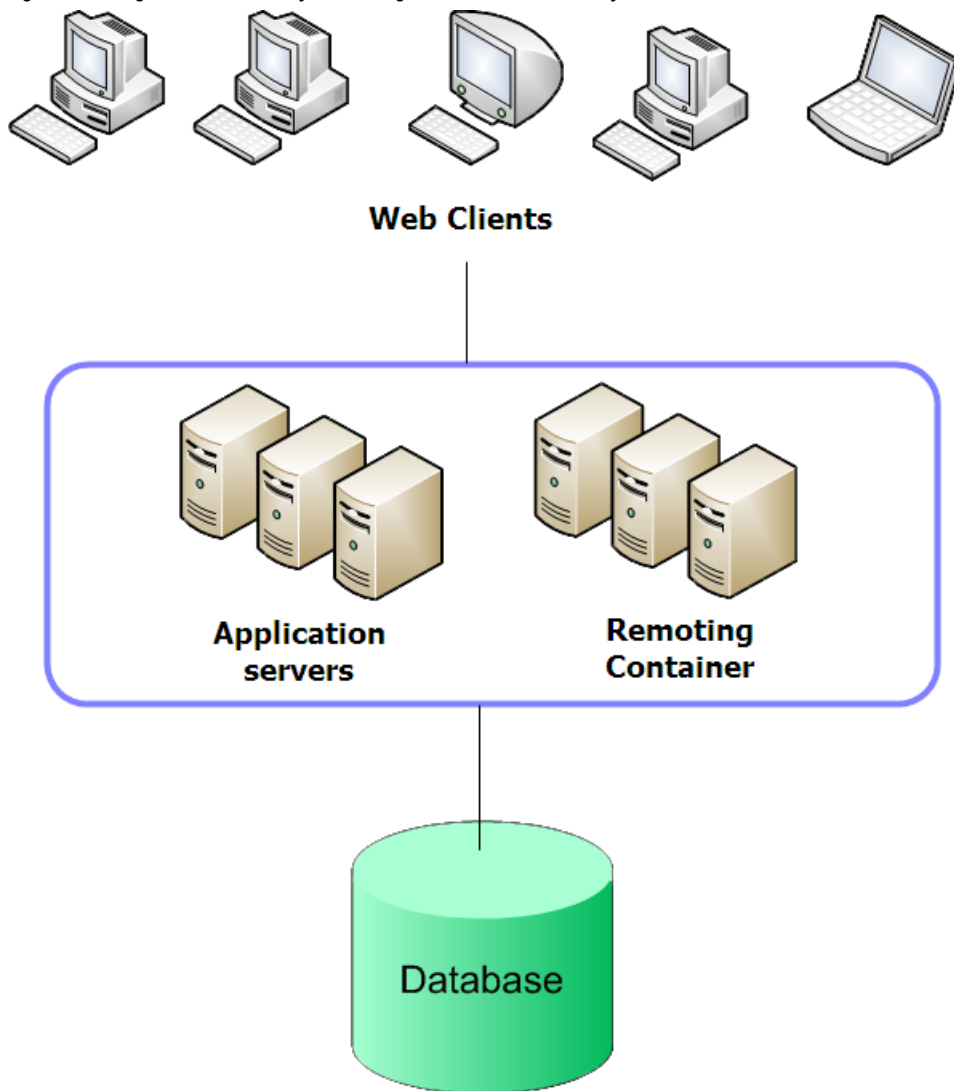
Prior to installation please refer to the following URLs for the latest information and instructions:

- 1 Oracle Software Delivery Cloud: <http://edelivery.oracle.com/>. Oracle Software Delivery Cloud provides the latest copy of the core software. Please note the core software does not include all patches and hotfixes.
 - a Select appropriate language and click **Continue**.
 - b Complete the export validation requirements form.

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 shows the necessary architecture.

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



Requirements Overview

Figure 1–2 shows an overview of software requirements.

Figure 1-2: Software requirements matrix

System Software Requirements										
	Web Client				Web Application Server				Framework	
Release	IE 6.0	IE 7.0	IE 8.0	IE 9.0	IIS 6.0 on Microsoft Windows 2003 Server SP2 32-bit	IIS 7.0 on Microsoft Windows™ 2008 Server SP1 32 bit	IIS 7.0 on Microsoft Windows™ 2008 Server SP1 64 bit	IIS 7.5 on Microsoft Windows™ 2008 Server R2 64 bit *	Microsoft .NET Framework 2.0 SP2 or higher	Microsoft .NET Framework 3.5 SP1
5.2.x	✓	✓			✓				✓	
6.0.0.x	✓	✓	✓		✓	✓	✓	✓	✓	✓

Multiple browser windows or tabs in a single session is not supported

* Oracle does not support Oracle 11g DB or client running on Windows 2008 R2

** Currently only the 32-bit ODP client is supported

	Database Server				Reporting				Extensibility Pack				
Release	MS SQL Server™		Oracle**										
	2003, SP1 or higher	2005, SP2 or higher	2008, SP1 or higher	2008 R2	10g Release 2 (10.2.0.4) + ODP.Net Client 11g (11.1.0.6)	11g + ODP.Net Client 11g (11.1.0.6)	11gR2 + ODP.Net Client 11gR2	Microsoft SSRS 2003	Microsoft SSRS 2005	Oracle BI Publisher 10.1.3.4.1	Oracle BI Publisher 11.1.1.5.0	EP 2.3.0	EP 2.4.1
5.2.x	✓	✓						✓	✓			✓	
6.0.0.x		✓	✓	✓	✓	✓		✓	✓	✓	✓		✓

Web Client Requirements

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

- ❑ Internet Explorer 6.0, 7.0, and 8.0
- ❑ Adobe Reader 7.0

Important When determining server hardware requirements as described below in [Web Application Server Requirements](#), [SQL Database Server Requirements](#), and [Oracle Database Server Requirements](#), keep in mind that these are minimum requirements. Your environment should be evaluated to determine the actual hardware requirements. Things to consider are:

- Data volume
 - Application distribution
 - Application usage
 - User load
 - User distribution across applications
 - Network configuration
 - Document storage location
-

Web Application Server Requirements

Software Requirements

Agile PLM for Process runs on Windows 2003 Server SP2 (32 and 64-bit) and Windows 2008 Server SP1 and R2 (32 and 64-bit). To properly run Agile Product Lifecycle Management for Process, use one of the following supported versions for the web application server:

- ❑ IIS 6.0 on Microsoft Windows™ 2003 Server SP2
- ❑ IIS 7.0 on Microsoft Windows™ 2008 Server SP1
- ❑ IIS 7.5 on Microsoft Windows™ 2008 R2
- ❑ Microsoft .NET Framework 2.0 SP2 or higher

Hardware Requirements

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

- ❑ Dual CPU Intel Xeon 2.8 GHz
- ❑ 2.0 GB RAM
- ❑ 50 GB available storage

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.

SQL Database Server Requirements

Software Requirements

To properly run Agile Product Lifecycle Management for Process, use the following supported versions for the database server:

- ❑ Microsoft SQL Server™ 2005, SP2 or higher
- ❑ Microsoft SQL Server™ 2008, SP1 or higher
- ❑ Microsoft SQL Server™ 2008 R2

Hardware Requirements

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

- ❑ Dual CPU Intel Xeon 2.8 GHz
- ❑ 4.0 GB RAM
- ❑ 50 GB available storage
- ❑ Separate drives for data and log files

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

Oracle Database Server Requirements

Software Requirements

To properly run Agile Product Lifecycle Management for Process, use the following supported versions for the Oracle database server:

- ❑ Oracle Database Server: 10g Release 2 (10.2.0.4), 11g, 11gR2
- ❑ Oracle 11g Client + ODP.NET 11.1 (On the IIS server, as described in [Pre-Installation Environment Configuration](#) on page 1-9)

Note Currently only the 32-bit ODP client is supported.

- ❑ Operating system supported by the Oracle database. Please note, the 11g client is required whether you implement Oracle DB 10g or 11g.

Hardware Requirements

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

- ❑ Dual CPU Intel Xeon 2.8 GHz
- ❑ 4.0 GB RAM
- ❑ 50 GB available storage
- ❑ Separate drives for data and log files

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, or separately. The following are requirements for the remoting container:

- ❑ Requirements for OS are the same as the web application server
- ❑ Microsoft .NET Framework 2.0 SP2

For more information, refer to the *Oracle Agile Product Lifecycle Management for Process Remoting Container Services Guide*.

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 the 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)
- 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, a logical separation might be organized by application as follows:

GSMAppGroup—Includes GSM and other complimentary applications

NPDAppGroup—Includes NPD and other complimentary applications

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

Pre-Installation Checklists

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

The application is configured out of the box to use Integrated SSPI. This technology is used to ensure the username and password is not stored as clear-text in any configuration files and is only applicable to environments using Microsoft SQL Server. This guide refers to settings as they pertain to SSPI.

Note The clear-text method should ONLY be used in a non-production environment as your username and password is stored in clear-text in the configuration file.

Pre-Installation Environment Configuration

User Creation

A local or domain application user needs to be created. We will use PLM4P_AppUser for the purposes of this document. PLM4P_AppUser will need access to the following:

- ❑ Files
 - Read access to the PRODIKA_HOME directory
 - Read/Write access to the PRODIKA_HOME\logs directory
 - Read/Write access to the PRODIKA_HOME\XDocuments
 - Read/Write access to WebDAV directory for NPD
 - Read/Write access to system temp directory (i.e., c:\windows\temp)
- ❑ IIS
 - Identity for Application Pool
 - For IIS 6.0, add user to IIS_WPG group
 - For IIS 7.0, add user to IIS_IUSRS group
- ❑ Service
 - Execute and Run the Remoting Container Service
- ❑ Database
 - db_datareader
 - db_datawriter

Note XDocuments and WebDAV are configurable settings and may exist elsewhere within your environment. Once installed, please refer to the *Oracle Agile Product Lifecycle Management for Process Configuration Guide* for location and details.

Microsoft Application Server Checklist

Before installing the Agile Product Lifecycle Management for Process application suite, complete all of the Microsoft IIS related tasks in the following sections:

- ☐ Add Application Server Role
- ☐ Create and Configure IIS Application Pool Settings
- ☐ Create and Configure a Website
- ☐ Enable IIS WebDAV for NPD Applications
- ☐ Enable IIS6 or Apache 2.2 for NPD Application

Add Application Server Role

Refer to Microsoft Windows Server documentation for deploying the server role, Application Server (IIS, ASP.NET).

- ☐ For Microsoft Windows 2003, install IIS 6.0. Post installation, in IIS Manager, under Web Service Extensions, allow ASP.NET 2.0.50727.
- ☐ For Microsoft Windows 2008, install IIS 7.0. During installation, be sure to select the following options:
 - ASP.NET
 - IIS 6.0 Management Compatibility

Post installation, in IIS Manager, under ISAPI and CGI Restrictions, allow ASP.NET 2.0.50727.

Create and Configure IIS Application Pool Settings

Application Pool names are for example, and can be renamed if needed.

Create at least two Application Pools called **PLM4P_MAIN** and **PLM4P_GSM** with the following settings modified.

IIS 7.0 Setting	IIS 6.0 Setting	Value
Enable 32-Bit Applications	n/a	True
Managed Pipeline Mode	n/a	Classic
Queue Length	Request queue limit	4000
Identity (Custom Account)	Identity (Configurable)	PLM4P_AppUser
Idle Time-Out	n/a	0
Regular Time Interval	Recycle worker process	0 (uncheck)
Ping Enabled	Enable ping	False
Rapid-Fail Protection	Enable rapid-fail protection	False

Note Identity can be set to Local System in non-production environments that are not utilizing Integrated SSPI for the DB connectstring.

Create and Configure a Website

Website name defined below is an example and can be renamed if needed.

Create a website called PLM4P with the application pool set to **PLM4P_MAIN** and a Physical path of 'C:\inetpub\wwwroot'. For a production environment, this site will need a valid SSL certificate to protect against data traversing the network in clear-text.

Enable WebDAV for NPD Applications

If you are installing the Agile PLM4P NPD application, you may wish to enable the WebDAV (Web Distributed Authoring and Versioning) protocol in Microsoft IIS to support in-place editing. Please refer to [Installing WebDAV](#) on page B-1 for instructions.

Important WebDAV is fundamentally different in IIS7.x and is not a supported platform when using anonymous user. If you are installing the main application on IIS7.x, then you must have a separate web server with IIS6 or Apache 2.2 installed for WebDAV.

Configure Microsoft SQL Server

Refer to Microsoft SQL Server documentation for installation instructions. For information on MS SQL Reporting Server, which can be optionally installed, refer to the Oracle Agile Product Lifecycle Management for Process Configuration Guide. When installing, ensure the collation designator and sort order are Latin1_General.

Oracle Database Server Checklist

Create the Oracle database server using Oracle Database Configuration Assistant.

Choose **AL32UTF8** as the database character set and **UTF8** as the database national character set.

Oracle Database Client Checklist

The following Oracle Database Checklist can be used in conjunction with Oracle Database documentation containing installation instructions. Clients should use this checklist or the instructions in "Configure Microsoft SQL Server" on page 1-10, but not both, as they are separate installation methods. When installing the Oracle client, be sure to:

- ☐ Install Oracle 11g Release 1 (11.1.0.6) client on the server hosting the application.

- ❑ Update the tnsnames.ora, located at %Oracle Client Home%\network\admin\tnsnames.ora, to include a new data source. This data source should point to the Oracle database that has been set up.
- ❑ Build your connection string:
"User Id=<user id>;Password=<password>;Data Source=<data source created in step 4>" where
 - a** User Id = db username
 - b** Password = passwd
 - c** Data Source = The name that you gave your tnsnames.ora entry

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 is strongly recommended for production environments.

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 `environmentvariables.config`) to generate the desired relative URLs correctly (http vs. https). The default URLs are configured for https.

East Asian Language Support

If you plan to support East Asian 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**.

Restoring the SQL Database and Setup Database Accounts

A prepared database is provided 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.

Option 1: MSSQL Database

Restoring the SQL Database

Refer to Microsoft SQL Server documentation for restoring a database.

The name and location of the database is <media pack>\Database\Certified_DB_<version>.zip.

Note If you do not already have a naming convention, we recommend including the environment name. for example: plm4p_production

Setting Up User Permissions

Refer to Microsoft SQL Server documentation for setting up a user.

Recall and add the user created as part of the pre-installation environment checklist. For example, PLM4P_AppUser. At a minimum, this user must have the following two roles for the plm4p_ database:

- ☐ db_datareader
- ☐ db_datawriter

Option 2: Oracle Database

To restore the Oracle database:

- 1** Create an Oracle database user. A SQL script is provided to create the database user and set up user permissions for the application. Run the SQL script `createuser.sql` using Oracle SQL*Plus.
- 2** Note that the imp client version has to match exactly the Oracle database server version. The client character set also needs to be set to the server character set. Import the Oracle database dump file from the command window:

```
C:> set NLS_LANG=AMERICAN_AMERICA.AL32UTF8
C:> imp <ORCL dbuser>/<ORCL dbpwd>@<datasource> fromuser=<agile>
touser=<target dbuser> file=<dmp file> log=<log file>
```

Restoring the Oracle Database

To restore the Oracle database:

- 1 Create an Oracle database user. A SQL script is provided to create the database user and set up user permissions for the application. Run the SQL script `createuser.sql` using Oracle SQL*Plus.
- 2 Note that the imp client version has to match exactly the Oracle database server version. The client character set also needs to be set to the server character set. Import the Oracle database dump file from the command window:

```
C:> set NLS_LANG=AMERICAN_AMERICA.AL32UTF8
```

```
C:> imp <ORCL dbuser>/<ORCL dbpwd>@<datasource>  
fromuser=<agile> touser=<target dbuser> file=<dmp file>  
log=<log file>
```

Installation

The Agile PLM suite is installed through a set of manual configuration steps. Several of the steps are automated with utility batch scripts for a default configuration. The overall process consists of the following steps:

- ❑ Set up PRODIKA_HOME
- ❑ Install the core application files
- ❑ Register environment components
- ❑ Install individual media bundle application files
- ❑ Set up the initial IIS Web site
- ❑ Setting up ASP.net AJAX
- ❑ Set up the initial IIS application pools
- ❑ Register the IIS virtual directories for the installed applications
- ❑ Register .Net version 2.0 under ASP
- ❑ Installing the reference database
- ❑ Install language support for Simplified Chinese, Traditional Chinese, or Korean
- ❑ Configuring applications
- ❑ Complete optional steps

Installation Process

Setting up PRODIKA_HOME

Note This step needs to be done only once per Web site instance. If you have multiple instances of the Agile PLM suite running on the same server, you will need to perform this step once per instance.

- 1 Create a folder (e.g. c:\PLM) into which to install the application. For instructional purposes, this folder will be called PRODIKA_HOME.

Installing the Core Application Files

Note This step needs to be done only once per PRODIKA_HOME. If you have multiple instances of the Agile PLM suite running on the same server, you will need to perform this step once per instance.

- 1 After obtaining the media bundle, extract to a directory on the web application server.
Throughout the instructions below, the place where you extracted the media bundle zip file will be referred to as INSTALLER_HOME.
- 2 Open the containing directory for INSTALLER_HOME.

- 3 Extract **Core.zip** located in `INSTALLER_HOME\PDM` (where PDM is the name of the media bundle being installed) to a temporary directory (i.e.; `c:\temp`). This will give you a directory structure like `c:\temp\Apps`, `c:\temp\Config`, etc. This temporary directory will be referred to as `TEMP_HOME`.
- 4 Copy **FileCompressionHelper.exe** from `INSTALLER_HOME` to `TEMP_HOME`.
- 5 Open a command prompt and navigate to `TEMP_HOME` (i.e.; `>cd c:\temp`).
- 6 Run the following:

```
>FileCompressionHelper.exe -d
```

Important It is extremely important that you perform the decompression described in step 6 before continuing to install any additional media pack bundle files.

- 7 When the distribution is complete, move your `TEMP_HOME` contents to `PRODIKA_HOME`.

Registering Environment Components

- 1 Register event logs. Refer to [Event Logs](#) on page E-1 for a listing of event logs.
 - a Open a command prompt and navigate to **`INSTALLER_HOME\Installer\Tools`**.
 - b Run the following batch file:

```
>SetupEventLogs.bat
```
 - c You will be asked to verify the addition of each event log to your system event logs. Click **Yes/Ok** through all of the event log additions.
- 2 Register Component Art and Apoc.
 - a Open a command prompt and navigate to **`INSTALLER_HOME\Installer\Tools`**.
 - b Run the following batch file:

```
>ConfigureRegistry.bat
```
 - c You will be asked to verify the addition of each registry entry. Click **Yes/Ok** through all of the event log additions.
- 3 If installing 64-bit, you will need to modify the following files:
RegisterComponentArt.reg
 - Change `[HKEY_LOCAL_MACHINE\SOFTWARE\ComponentArt]` to `[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\ComponentArt]`
 - Change `[HKEY_LOCAL_MACHINE\SOFTWARE\ComponentArt\Web.UI for ASP.NET]` to `[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\ComponentArt\Web.UI for ASP.NET]`

- Change [HKEY_LOCAL_MACHINE\SOFTWARE\ComponentArt\Web.UI for ASP.NET\2.0] to [HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\ComponentArt\Web.UI for ASP.NET\2.0]

ApocEntry.reg

- Change [HKEY_LOCAL_MACHINE\SOFTWARE\Chive Software\Apoc XSL-FO\2.0] to [HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Chive Software\Apoc XSL-FO\2.0]

4 Install the Remoting Container Service.

Note This step needs to be done only once per PRODIKA_HOME. If you have multiple instances of the Agile PLM suite running on the same server, you will need to perform this installation once per instance.

- a Open a command prompt and navigate to **INSTALLER_HOME\Installer\Tools.**
- b Stop IIS . From the command prompt type the following:

```
>iisreset /stop
```
- c Run the following batch file with <PRODIKA_HOME> replaced by your specific PRODIKA_HOME directory:

```
>InstallRemotingContainerService.bat <PRODIKA_HOME>
```
- d If you are running a 64-bit system, follow these steps to set up the Remoting Container to run as a 32-bit process.
 - i. Download the Windows SDK for Windows Server 2008 and .NET Framework 3.5 from <http://www.microsoft.com/download/en/confirmation.aspx?id=24826>
 - ii. Install the Developer Tools.
 - iii. Run the following command:

```
C:\Program Files\Microsoft Visual Studio
8\SDK\v2.0\Bin\corflags.exe /32bit+
%PRODIKA_HOME%\RemotingContainer\RemotingContainer.exe
```

Setting the 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, the service is installed as the Local System account.

To change the account which the service runs under:

- 1 Select **Start > Administrative Tools > Services.**
- 2 Locate the RemoteContainerService within the list of services listed in the Services dialog box.
- 3 Right-click the RemoteContainerService row and select **Properties.**
- 4 Select the Log On tab.

- 5 Select the **This account** radio button.
- 6 Select the PLM4P_AppUser account defined in the Pre-Installation section.

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.

Important If utilizing Integrated SSPI in the database connectstring, then the logon account for the remote container service needs to be a user with datareader and datawriter rights for the database.

Installing Individual Media Bundle Application Files

- 1 Open the containing directory for `INSTALLER_HOME`.
- 2 Extract the media pack zip file located in `INSTALLER_HOME` to a temporary directory (i.e.; `c:\temp`). This will give you a directory structure like `c:\temp\config`, `c:\temp\FileCompressHelper_CentralDirectory` & `c:\temp\Web`.
- 3 Confirm media bundle names for the ZIP files, where the name can be one of:
 - MP1.zip for the PDM install
 - MP2.zip for the FC install
 - MP3.zip for the PSC install
 - MP4.zip for the NPD install
 - MP-ALL.zip which includes all of the media bundles in one zip file
- 4 Copy `FileCompressionHelper.exe` from `INSTALLER_HOME` to `TEMP_HOME`.
- 5 Open a command prompt and navigate to `TEMP_HOME` (i.e.; `>cd c:\Temp`).
- 6 For all of the media bundles other than the NPD media bundle, run the following utility application:
`>FileCompressionHelper.exe -d`
- 7 When the distribution is complete, move your `TEMP_HOME` contents to `PRODIKA_HOME`.
- 8 Accept the warning(s) to overwrite the directories that already exist.

Setting Up ASP.net AJAX

ASP.net AJAX is the third party software required to navigate to applications in Agile PLM for process. It is used in GSM to improve visual performance.

To install AJAX:

- 1 Access the following site:

<http://www.microsoft.com/downloads/details.aspx?FamilyID=ca9d90fa-e8c9-42e3-aa19-08e2c027f5d6&displaylang=en>

- 2 Click **Download** to begin the download process of ASP.NET AJAX 1.0.
- 3 Run the installer downloaded in step 2.

Setting Up the Initial IIS Application Pools

It is recommended that you run the suite of applications under multiple application pools in order to provide better resource management and security. At a minimum, GSM needs to be in its own application pool, segmented from the rest of the applications.

The utility scripts are designed to place the different applications under the same application pool, or you may run the `SetupVirtualDirectories.bat` file manually giving the values for the specific Web applications to segment them as you see fit.

Note This is a minimum application pool configuration. Depending on usage, it may be necessary to split out other applications into their own application pool.

For a 32-bit .NET application running on a 32-bit OS, application pool memory should not exceed 800 MB. For a 32-bit .NET application running on a 64-bit OS, application pool memory should not exceed 2.3GB.

Keep this in mind when determining how to separate your applications. Some examples of possible applications to separate include NPD, SCRM, and GSMView.

The general process of installing the necessary web applications using the utility scripts is listed below:

- 1 Open a command prompt and navigate to the directory **INSTALLER_HOME\Installer\Tools**.
- 2 To install the core Web site virtual directories, choose one of the following options:

- **Option 1, Creating a single app pool**—To install the core Web site virtual directories, type the following where the values <PRODIKA_HOME>, <siteid> and <AppPool> are replaced with the values associated with your specific environment:

```
SetupCoreVirtualDirectories.bat <PRODIKA_HOME> <siteid>  
<AppPool>
```

- **Option 2, Segmenting the applications into separate application pools**—To manually create the virtual directories needed for the individual applications within the core application bundle, type the following. You will need to repeat this script for each of the different applications within core. Refer to the SetupCoreVirtualDirectories.bat file to determine the applications within core.

```
SetupVirtualDirectories.bat drl <siteid> <PRODIKA_HOME> <AppPool>  
drl
```

Note Please refer to the section *Determining a Web Site's Site ID* on page 1-22 to determine the value for <siteid>.

- 3 Each media bundle has an associated

Setup<MediaBundle>VirtualDirectories.bat batch file where <MediaBundle> is PDM, FC, SupplierCollab or NPD. To install the necessary virtual directories for each installed media bundle, repeat the process outlined in step 2, replacing <Media Bundle> appropriately.

Registering .Net version 2.0 under ASP

- 1 Open a command prompt and navigate to **INSTALLER_HOME\Installer\Tools**.
- 2 Run the following command:

```
>RegisterASP_2_0.bat
```

Installing the Reference Database

There is a reference database that is located under INSTALLER_HOME\Database. Restore this database to your database server by following the instructions outlined under the *Restoring the SQL Database* on page 1-13 and *Setting Up User Permissions* on page 1-13 section earlier in this guide.

Installing Language Support for Simplified Chinese, Traditional Chinese, or Korean

As an optional step, customers may apply 6.0.0.2.0 National Language Support (NLS) installation. See *Installing National Language Support* on page C-1 for instructions.

Configuring Applications

Review the *Agile Product Lifecycle Management for Process Configuration Guide* to apply the configuration changes required for the installation.

Configuring the Oracle Database Connection

To configure the Oracle Database Connection:

- 1 Change the Database Connection pools as shown below. The ADAPTER_FACTORY needs to have the Oracle specific ADAPTER_FACTORY. The format of the CONNECT_STRING is different from the default SQL Server settings.

```
<ConnectionPools>
<ProdikaDB configChildKey="key">
  <config key="MAX" value="8"
configOverrideModifier="IsLocked"/>

  <config key="CONNECT_STRING" value="User Id=<ORCL DB
USER>;Password=<ORCL DB PWD>;Data Source=<DATASOURCE>"
configAttributeOverrideBehavior="Replace"
configOverrideModifier="IsLocked"/>
  <config key="ADAPTER_FACTORY"
value="Class:Xeno.Data.Oracle.OracleDbAdapterFactory,
DataLib" configAttributeOverrideModifier="CanExtend"/>
</ProdikaDB>
<ReportDB copyOf="ConnectionPools/ProdikaDB">
  <config key="CONNECT_STRING" value="User Id=<ORCL DB
USER>;Password=<ORCL DB PWD>;Data Source=<DATASOURCE>" />
</ReportDB>
</ConnectionPools>
```

Note You should change the connect string in the environmentvariables.config file.

- 2 Add the EQT Service config in the EnvironmentSettings and specify the DBHelper to be Oracle Specific DB Helper as shown below:

```
<Prodika>

  <Services>
    .
    .
    .
  <EmailService configChildKey="name">
    <envvar name="EMAIL_DOMAIN_FILTER" value="<YOUR EMAIL
DOMAIN - ex: oracle.com"
configOverrideModifier="IsLocked"/>
    <envvar name="BCC_AUDIT_EMAIL_ADDRESS" value=" "
configOverrideModifier="IsLocked"/>
    <envvar name="SMTP_SERVER" value="<YOUR SMTP ADDRESS>"
configAttributeOverrideBehavior="Replace"
configOverrideModifier="IsLocked"/>
  </EmailService>
  <EQTService configChildKey="name">
```

```
<envvar name="DBHelper"
value="Xeno.Prodika.EQT.Execution.OracleDBHelper,EQT" />
</EQTService>
<SyndicationService configChildKey="name">
  <envvar name="ErrorNotifyFromAddress"
value="#CUSTOMER_FROM@CUSTOMER.COM"
configElementOverrideModifier="IsLocked"
configAttributeOverrideModifier="Replace" />
  <envvar name="ErrorNotifyToAddress"
value="#CUSTOMER_TO@CUSTOMER.COM"
configElementOverrideModifier="IsLocked"
configAttributeOverrideModifier="Replace" />
</SyndicationService>
.
.
.
</Services>
```

- 3 Restart IIS. You can now use the Prodika installation on the Oracle Database.

Installing BI Publisher

As an optional step, you can install BI Publisher. See [Installing BI Publisher](#) on page D-1 for more information.

Completing Optional Steps

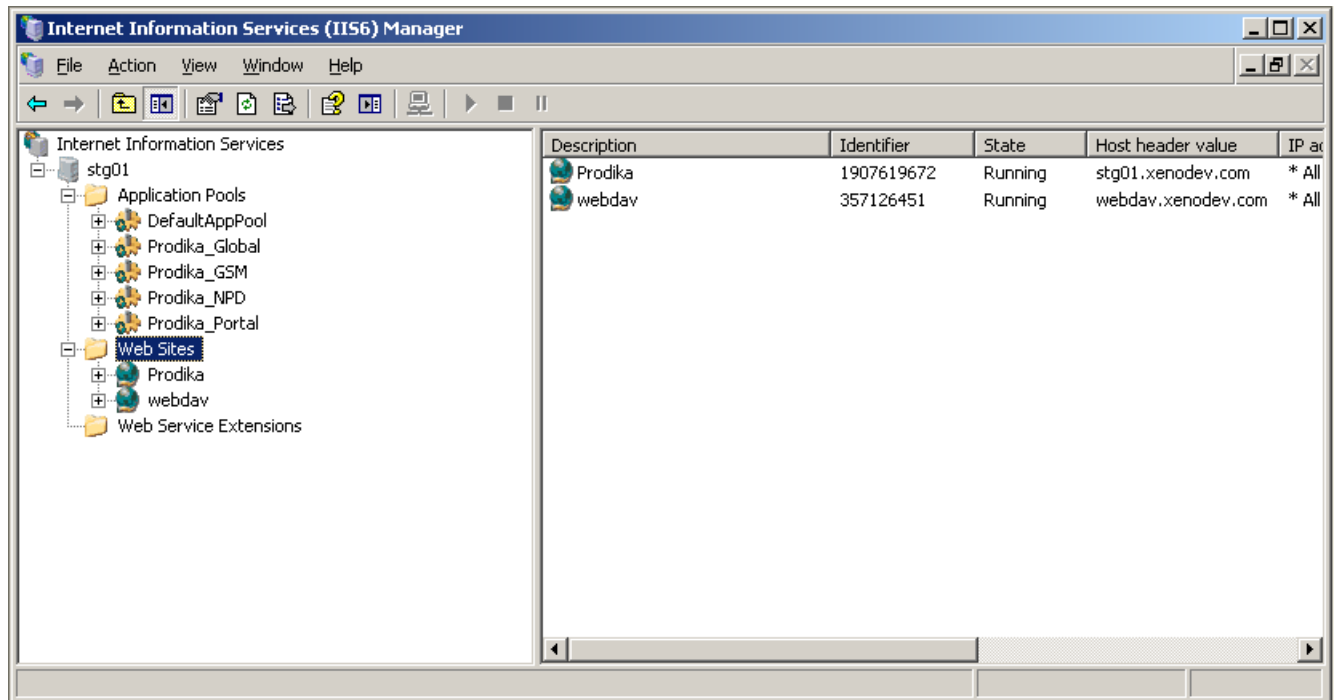
For the NPD media bundle, create the WebDAV folder. Some parts of the Agile suite use WebDAV to allow in-place editing of certain document types. To allow for this, a setting is available in the <PRODIKA_HOME>/config/Custom/EnvironmentSettings.config file for the WebDAV virtual folder. In cases for which 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. Refer to [Installing WebDAV](#) on page B-1 for instructions.

Determining a Web Site's Site ID

To determine the Site ID for a new Web Site within IIS 6.0:

- 1 Open IIS Manager via Administrative Tools.
- 2 Expand <server_name> node in the left pane.
- 3 Highlight the **Web Sites** node in the left pane.
- 4 The web sites and their corresponding ID will be listed in the right pane, as figure 1-3 shows below.

Figure 1-3: Web sites and IDs



Post-Installation Checklists

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

Setting 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**.

Updating 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: v6.0.0.4.0`
- 4 Click **File > Save** to save the your change.

Starting the Remote Container Service

To start the remote container service:

- 1 Right click **My Computer**.
- 2 Select **Manage** from the context menu. The Computer Management console will open.
- 3 Expand the **Services and Applications** node.
- 4 Select the **Services** node.
- 5 The services will be listed in the main content area.
- 6 Locate the RemoteContainerService.
- 7 Right click and select **Start**.
- 8 Wait a few seconds to verify that it starts and stays running.

Note For troubleshooting purposes, if the service starts and then stops, check the log file under <PRODIKA_HOME>\logs\remoteContainer-stdout.log to determine the root cause.

Note For additional troubleshooting ONLY, the remote container service can be run from the cmd line as follows:

```
<PRODIKA_HOME>\remotingcontainer\remotingcontainer /
normal
```

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="true" 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  
5B20FC20C3F63B11B22C6B92D602EB8886E3D18F9548B84A0B80EBADC575C407  
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 in either web.config or web.config.comments. (The xpath to the node is: /configuration/system.web/authentication.)
[\[@mode='Windows'\]](#)/forms
- 4 Change the protection attribute on the forms tag to None.
- 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.

Refer to [Verification Tests](#) on page A-1 for instructions on performing tests to verify the installation.

CHAPTER 2

Upgrading

This chapter discusses upgrading Agile Product Lifecycle Management for Process.

Topics in this chapter include:

- ❑ *Upgrade Tasks*
 - ❑ *Web Application Tasks*
 - ❑ *Stopping Services and Backing Up Files*
 - ❑ *Installing Software and Scripts*
 - ❑ *Reconfiguring Settings*
 - ❑ *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 6.0.0.4.0 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 [Back Up the Previous Oracle Database Deployment](#) on page 2-4
- 6 [Installing Software and Scripts](#) on page 2-4
- 7 [Install the Agile 6.0.0.4.0 Upgrade Software](#) on page 2-4
- 8 [Update the Version Number in the version.txt File](#) on page 2-6
- 9 [Apply Database Upgrade Scripts](#) on page 2-7
- 10 [Configure the Environment Variables Settings](#) on page 2-11
- 11 [Reconfigure the Application Environment Settings](#) on page 2-11
- 12 [Reconfigure the Customer Settings](#) on page 2-11
- 13 Apply extensions, if any
- 14 [Configure the New CustomWFAExtensionsConfig.xml Configuration File](#) on page 2-12
- 15 [Reconfigure the Remote Container Service](#) on page 2-13
- 16 [Restart the Remote Container Service](#) on page 2-13
- 17 [Restart the Web Application Server](#) on page 2-13
- 18 [Verifying the Installation](#) on page 2-13

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, back up the previous deployment of the database. Be sure to use a meaningful name for the backup for future reference; for example, Agile 5.2.1 - Full Backup.

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

- 1 Open SQL Server Management Studio.
- 2 In the left pane under Databases, locate the database instance to back up.
- 3 Right-click the database and select **Tasks > Back Up...** from the shortcut menu.

- 4 Select the destination for your backup. Select the **Add...** button to the right of the **Back up to:** text area. A dialog box will appear in which you can choose where to store the backup file. After you have chosen a name, click the **OK** button.
- 5 Click the **OK** button at the bottom of the dialog and the backup process will begin.

Back Up the Previous Oracle Database Deployment

Recovery Manager (RMAN) is the recommended method of backing up your Oracle database and may be accessed via Enterprise Manager.

Note We recommend you create a full backup of the whole database.

- 1 Open Enterprise Manager.
- 2 Configure backup settings.
 - a Select **Enterprise Manager > Availability > Backup Settings**.
 - b Set the disk backup location and backup type. Be sure to use a meaningful name for the backup for future reference.
- 3 Schedule the backup.
 - a Select **Enterprise Manager > Availability > Schedule Backup**.
 - b Select either the Oracle-Suggested Backup strategy or your own customized strategy. The Oracle-Suggested Backup strategy makes a one-time whole-database backup. To use the Oracle strategy, for backup type, select **Full Backup**. For Schedule, select **One Time (Immediately)**.
- 4 Review and submit the backup. The Review screen allows you to review your selections and submit the job.

Installing Software and Scripts

Before logging into the application for the first time, be sure to install ASP.NET AJAX 1.0 as described in [Setting Up ASP.net AJAX](#) on page 1-19.

Install the Agile 6.0.0.4.0 Upgrade Software

The upgrade process is a manual process that uses batch files. The number of steps during the upgrade process is determined by the applications that you utilize within your installation.

For each installation, you will need to install the Core package first. This package needs to be installed only once per server instance.

After installing the Core package, depending on your installation, you will install one to four media packs. Each media pack is installed in the same manner outlined below.

Set Up the Installation Environment

Note This step is common to all media pack installations.

Download the Media Pack installation file for the specific media pack being installed. Unzip the media pack zip archive to a temporary directory (i.e.; c:\INSTALL_HOME). Follow the directions detailed below for Core/Media Pack installation.

Upgrade the Software

Archiving the Previous Installation

The first step in the upgrade process is to manually archive the previous installation, as described below.

- 1 Move (i.e.; cut) all of the directories other than attachments/XDocuments and logs directories to your designated archive location. We recommend that you name the containing directory as the version that you are upgrading from (i.e.; v5.1.2 - installation, etc.).

Installing the Core Bundle

- 2 The next step in the upgrade process is installing the Core bundle.

Note This should be done only once per `PRODIKA_HOME`, meaning that if you have multiple installations of the Prodika suite of applications running on the same server, you will need to perform this step only once per Prodika installation.

Throughout the instructions below, the place where you extracted the media bundle zip file will be referred to as `INSTALLER_HOME`.

- 3 Open the containing directory for `INSTALLER_HOME`.
- 4 Extract `Core.zip` located in `INSTALLER_HOME` to a temporary directory (i.e.; c:\temp). This will give you a directory structure like c:\temp\Apps, c:\temp\Config, etc. - this temporary directory will be referred to as `TEMP_HOME`.
- 5 Copy `FileCompressionHelper.exe` from `INSTALLER_HOME` to `TEMP_HOME`.
- 6 Open a command prompt and navigate to `TEMP_HOME` (i.e.; >cd c:\temp)
- 7 Run the following (it is extremely important that you perform this decompression before moving on to install any additional media pack bundle files):

```
FileCompressionHelper.exe -d
```
- 8 When the distribution is complete, move the contents of `TEMP_HOME` to `PRODIKA_HOME`.

Upgrade the Media Pack Applications

For each media bundle you will follow the same nine step process below. The one exception is with the NPD media bundle installation. With NPD, there is no need to perform step 6.

- 1** If there are any files remaining in your `TEMP_HOME`, remove them.
- 2** Unzip the media pack zip file located in your `INSTALLER_HOME` directly to `TEMP_HOME`.
- 3** Confirm media bundle names for the ZIP files, where the name can be one of:
 - `MP1.zip` for the PDM install
 - `MP2.zip` for the FC install
 - `MP3.zip` for the PSC install
 - `MP4.zip` for the NPD install
 - `MP-ALL.zip` which includes all of the media bundles in one zip file
- 4** Copy `FileCompressionHelper.exe` from `INSTALLER_HOME` to `TEMP_HOME`.
- 5** Open a command prompt and navigate to `TEMP_HOME` (i.e.; `>cd c:\Temp`).
- 6** Run the following (it is extremely important that you perform this decompression before moving on to install any additional media pack bundle files):
`FileCompressionHelper.exe -d`
- 7** When the distribution is complete, move the contents of `TEMP_HOME` to `PRODIKA_HOME`.
- 8** You will receive a warning that a Web and config directory already exist; accept this to move the contents into these directories.
- 9** Accept the warning to overwrite the configuration file
`PRODIKA_HOME\Config\Core\FeatureDeployment\<media pack>-FeatureConfig.config`.

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: v6.0.0.4.0`
- 4** Click **File > Save** to save the your change.

Apply Database Upgrade Scripts

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 (5.2.0, 5.2.1, 5.2.2, 6.0, 6.0.0.1.0, 6.0.0.2.0, 6.0.0.3.0, 6.0.0.4.0) to bring the database up to the current software version.

Important Prior to running the 6.0.0 database upgrade using ApplyScripts and the duplicate ID procedures below, you must first identify and remove existing table indices and constraints that may interfere with the upgrade.

If you are upgrading from 5.2.1 to 6.0, you should download Hotfix 5.2.1.75 from Orion Support. BugDB #: 9360352

If you are upgrading from 5.2.2 to 6.0, you should download Hotfix 5.2.2.15 from Orion Support. BugDB #: 9360364

Pre Database Upgrade Procedures

Prior to running the database upgrade using ApplyScripts, you must do the following:

- 1 Verify that there are no duplicate ID data entries in common tables.
 - a Run the SQL script titled **6.0.0.4 Pre Database Upgrade script - check for uniqueness.sql** located in the Installer\Tools folder of the media bundle. This script will check various tables for duplicate PKID entries and raises an error for each table affected. Affected tables will have to be examined individually to determine the impact of the duplicate entries and what to do about them.
 - For duplicates whose complete row (all columns) is a duplicate of another one, the duplicate entry should simply be removed. This is the most common scenario.
 - When the duplicate entries are not complete duplicates, determining the impact may require more detailed analysis and assistance.

- 2 Verify there are no duplicate label claims.
 - a Search the gsmLabelClaim table for entries that have the same Name and langID.
 - b Make any duplicates unique by modifying their Name. For example, if there are two entries for “Low Fat” with a langID = 0, modify one of them to be “Low Fat - Archived”.

The following SQL query will return duplicate label claims:

```
SELECT * FROM gsmLabelClaim a INNER JOIN gsmLabelClaim
b ON a.Name = b.Name AND a.langID = b.langID WHERE
a.pkid <> b.pkid
```

Run Database Upgrade Script

To run the database upgrade script:

- 1 Open a command prompt and navigate to the directory where you unzipped the upgrade package.
- 2 Change directories (cd) to the Installer/ApplyScripts directory.
- 3 Apply the scripts using the following call to the ApplyScripts.exe utility:
 - If running the SQL Server database upgrade:

```
ApplyScripts -c "server=<database_server>;uid=<user>;
password=<password>;database=<database>" -f <upgrade
script file>
```

The upgrade script files are:

v6.0.0.xml—Upgrade from v5.2.2 to v6.0

v6.0.0.1.xml—Upgrade from v6.0 to v6.0.0.1.0

6.0.0.2.0.xml—Upgrade from v6.0.0.1.0 to v6.0.0.2.0

v6.0.0.3_MAINT.xml—Upgrade from v6.0.0.2.0 to v6.0.0.3.0

v6.0.0.4.xml—Upgrade from v6.0.0.3.0 to v6.0.0.4.0

- If running the Oracle database upgrade:

```
ApplyScripts -c "user id=<user>;password=<password>;
data source=<TNS Entry>"-dbvendor orcl -f v6.0.0.4-
orcl.xml -post ora_cert_fi.sql
```

The upgrade script files are:

v6.0.0-orcl.xml—Upgrade from v5.2 to v6.0.

v6.0.0.1-orcl.xml—Upgrade from v6.0 to v6.0.0.1.0

6.0.0.2.0-orcl.xml—Upgrade from v6.0.0.1.0 to v6.0.0.2.0

v6.0.0.3_MAINT-orcl.xml—Upgrade from v6.0.0.2.0 to v6.0.0.3.0

v6.0.0.4-orcl.xml—Upgrade from v6.0.0.3.0 to v6.0.0.4.0

- 4 After each ApplyScripts call, you can confirm that the database upgrade scripts have been applied successfully when the system prompts you with the following message:
“**Complete - with no errors**”

Note There may be multiple xml files that need to be applied. Please apply them in version order (6.0, 6.0.0.1.0, 6.0.0.2.0, 6.0.0.3.0, 6.0.0.4.0).

Applying Patches for the Database Upgrade

If you are already on version 6.0, 6.0.0.1.0, 6.0.0.2.0, or 6.0.0.3.0, be sure to apply the scripts higher than the current version.

Applying Language Packs

For instructions on installing language packs, see [Installing National Language Support](#) on page C-1.

Applying BI Publisher

For instructions on installing BI Publisher, see [Installing BI Publisher](#) on page D-1.

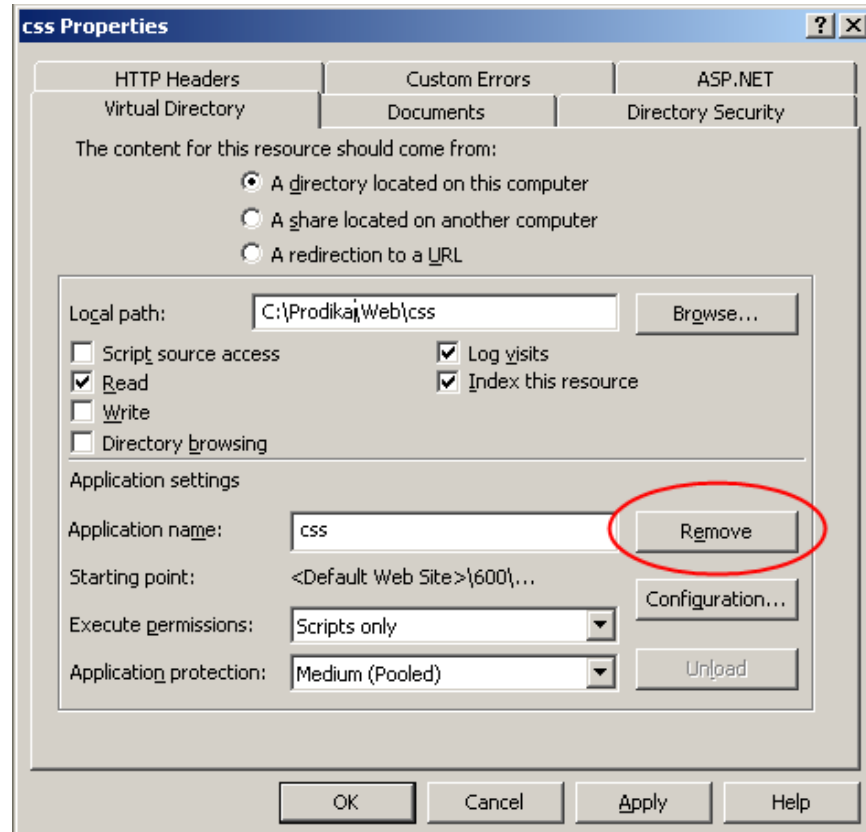
Reconfiguring Settings

Update the IIS Virtual Directories

Follow the steps outlined in [Create and Configure IIS Application Pool Settings](#) on page 1-10. Add the following virtual directories to IIS: opt, gsmview, and GSMExtensions. The purpose of these folders is as follows:

- **opt**—An application to handle optimization processing for GSM.
 - **gsmview**—A read-only view of GSM for Formulation Specification snapshots.
 - **GSMExtensions**—An additional library containing Formulation resources.
- 1 At the website root, create virtual directories for `opt` and `gsmview`. `Opt` points to `web\opt`; `gsmview` points to `web\gsm`.
 - a For `gsmview` and `opt`, create the `webcommon`, `images`, and `css` sub virtual directories.
 - 2 Under `gsm`, create a virtual directory called `gsmextensions`. `Gsmextensions` maps to `web\gsmextensions`.
 - 3 Click the **Remove** button for “`css`”, “`images`”, and “`WebCommon`” virtual folders.

Figure 2-1: Remove button



- 4 Manually remove the `dwb` virtual directory from IIS.

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 third party diff tool, 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\Custom\` 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\Custom\` 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`.

Configure the New CustomWFAExtensionsConfig.xml Configuration File

WFA now allows the assignment of workflow actions and guard conditions to a workflow transition through the user interface (Previously, this was done via database scripts only).

If you have added any workflow actions or guard conditions to WFA using database scripts, you may need to add those entries to the new `CustomWFAExtensionsConfig.xml` file in the `\config\extensions` folder. Doing so will allow those workflow actions and guard conditions to be selectable from a pop-up in the Transitions table in WFA.

Note WFA gives the ability to assign these to the transition only, not to the activity, so if you are configuring workflow actions and guard conditions on activities (not transitions) you will still need to do so using SQL scripts.

Look at the `fkOwner` column values in the following tables:

- ❑ For `gsmWorkflowActionTemplates` and `gsmWFGaurdConditionTemplates`:
 - If `fkOwner` starts with 5758 = workflow action is on the activity template (`gsmWorkflowActivityTemplates`)
 - If `fkOwner` starts with 5757 = guard condition is on the transition template (`gsmWorkflowTransitionTemplates`)
- ❑ For `cssWorkflowActionTemplates` and `cssWFGuardConditionTemplates`:
 - If `fkOwner` starts with 3165 = workflow action is on the activity template (`cssWorkflowActivityTemplates`)
 - If `fkOwner` starts with 3166 = guard condition is on the transition template (`cssWorkflowTransitionTemplates`)

Also, note that the tables `cssWFGuardConditionTemplates` and `gsmWFGaurdConditionTemplates` now have a new `Name` column. You must update its value to match a user friendly name for the guard condition that needs to then be added to the new `CustomWFAExtensionsConfig.xml` configuration file. Look at the xml file for examples.

Reconfiguring and Restarting Remote Container Service and Web Application Server

Reconfigure the Remote Container Service

As of version 6.0, 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 [Verification Tests](#) on page A-1.

Working with Multiple Servers

This chapter provides guidance for working with multiple servers.

Topics in this chapter include:

- ❑ *Architecture Environment Strategy*
 - ❑ *Topology Example of Production Environment*
 - ❑ *Multiple Server Configuration*
-

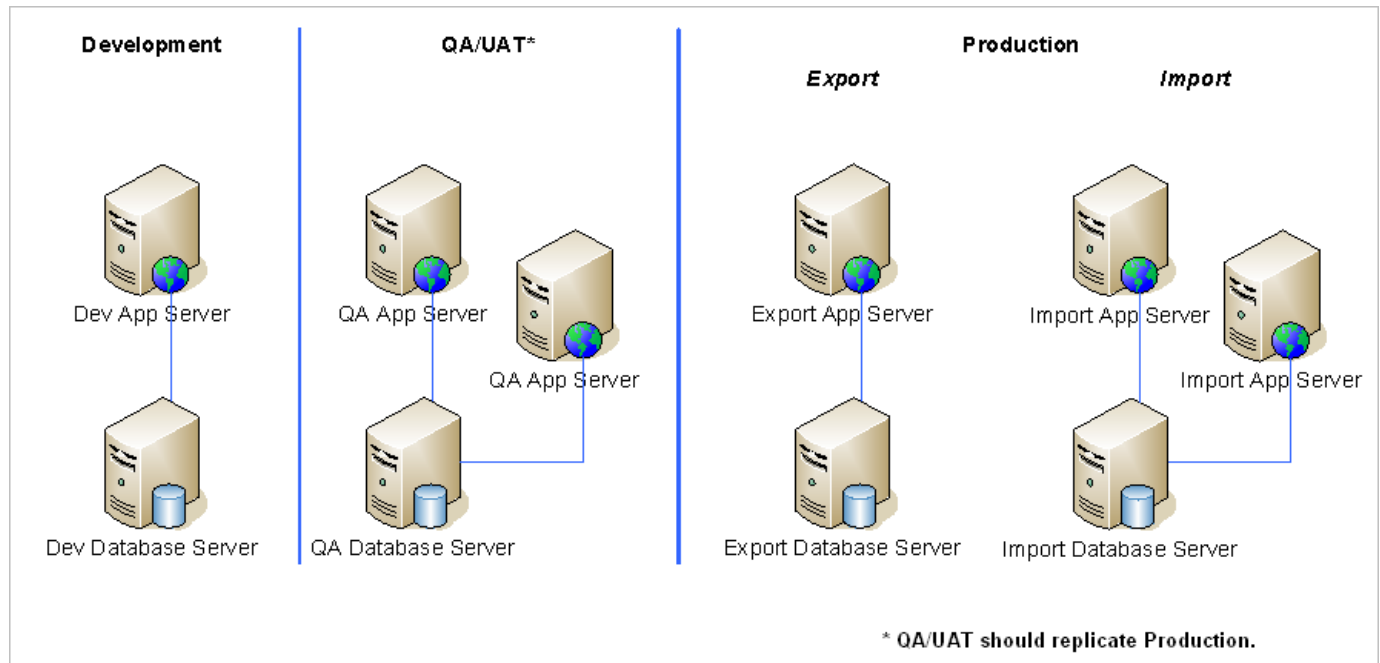
Architecture Environment Strategy

A good environment strategy supports the following project/business needs:

- ❑ Support the application upgrade process.
- ❑ Provide a structured process for migration (development, test, user acceptance) of bug fixes, new features, functionality, and configurations. Specifically focusing on allowing reasonable access to environments during migration.
- ❑ Provide a means for preparing/staging data for transfer into a production environment.

Figure 3-1 below shows a sample environment.

Figure 3-1: Sample architecture



Verifying Environment Strategy

Use the following questions to help verify your environment strategy:

- What is the path for upgrading the application from version x to version y?
- What is the process for testing production issues? Which environments will be available for testing: Development, QA/UAT, and/or Production?
- Where will end users be trained on the application?
- Where will extensible solutions be developed?
- Where will hot fixes be initially applied? What is the path for migrating hot fixes to production?
- Where will data loading be tested/verified?
- How will multiple tasks be supported?

Also consider the following:

- Migrating from version x to version y **and** configuring the application to support new functionality.
- Testing new functionality **and** supporting production configurations and hot fixes.
- If the implementation is split into multiple projects, how will different project teams share environments?

Development

The development environment typically is used as a place to:

- ❑ Deploy new releases (first place)
- ❑ Develop extensible solutions
- ❑ Use for initial test and troubleshooting
- ❑ Use for prototyping and discovery
- ❑ Make configuration changes, which are then applied in QA

Quality Assurance/User Acceptance Testing

The Quality Assurance (QA)/User Acceptance Testing (UAT) environment typically is deployed to closely match the Production environment, and is used as a place to:

- ❑ Include load balancers, etc.
- ❑ Formally test configuration changes
- ❑ Perform periodic refreshes from the Production environment
- ❑ Consider data security/access
- ❑ Perform training tasks

Production/Export

The Production/Export environment typically is used as a place to:

- ❑ Perform data/user/workflow administrative tasks
- ❑ Act as the data staging/acceptance environment
- ❑ Complete administrative data changes , then export the changes to other environments

Note The Production/Import environment must be on same version as import environments

Production/Import

The Production/Import environment typically is used as a place where:

- ❑ The user community interacts with data on a day to day basis.
- ❑ Administrative data changes are pushed from the export environment to the import environment
- ❑ Configuration changes are pushed from QA

Export/Import

If an environment has applications servers to support the export and import structure, then note the following:

The general business process:

- Admin creates records via the export application.
- Admin exports records via the export application.
- Admin imports record via the import application.

Applications that support the export/import process:

- User Group Manager (UGM)—Users and groups are exported and imported
- Workflow Administration (WFA)—Workflows are exported and imported
- Data Admin (ADMN)—Allergens, additives, extended attributes, and other administrative data are exported and imported

When managing the Export/Import structure the databases must be kept synchronized. If changes are made directly in the import application environment, and the exact changes (including primary keys) are not applied to the production environment as well, the Export/Import relationship is broken.

To reestablish the Export/Import relationship the following steps must be performed:

- 1 Copy or backup the import database.
- 2 Restore the import database to the export database.

The relationship is now restored. Make changes to data via the export application and import via the import application.

Imports and Exports are only possible if both environments use the same version.

Example 1—Export v5.2 can push to Import v5.2

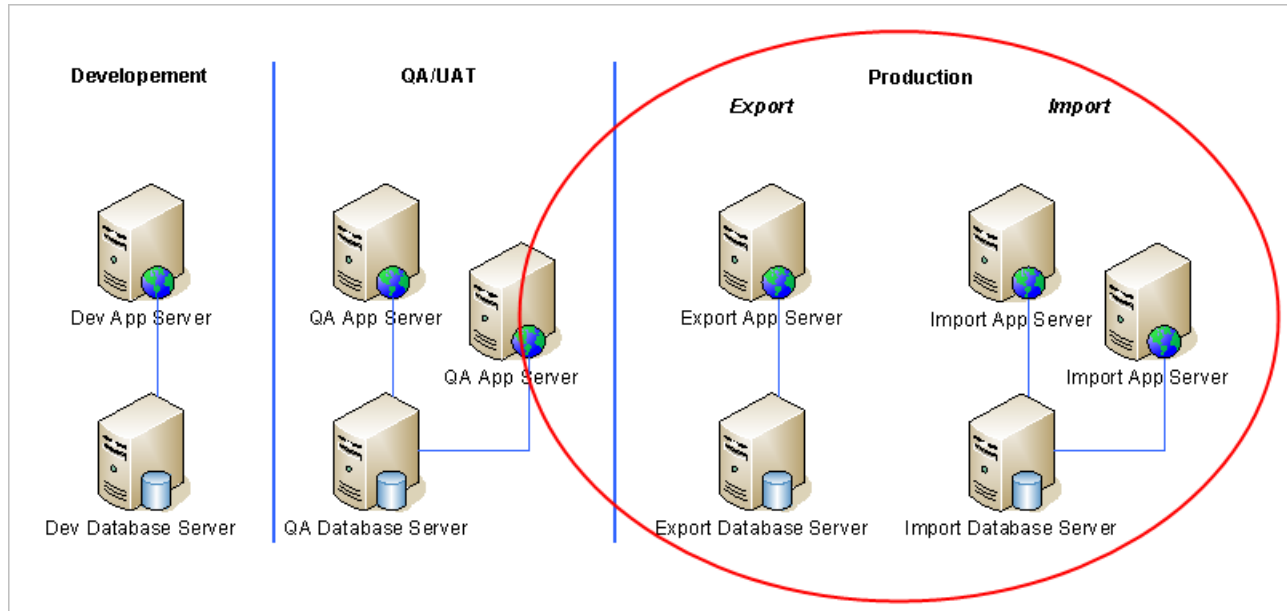
Example 2—Export v5.2 cannot push to Import v5.1.2

These examples demonstrate that users, workflows and administrative data cannot be updated or moved when application versions are different.

Topology Example of Production Environment

Figure 3-2 depicts the hardware/software topology options for a production environment.

Figure 3-2: Topology example, Production environment

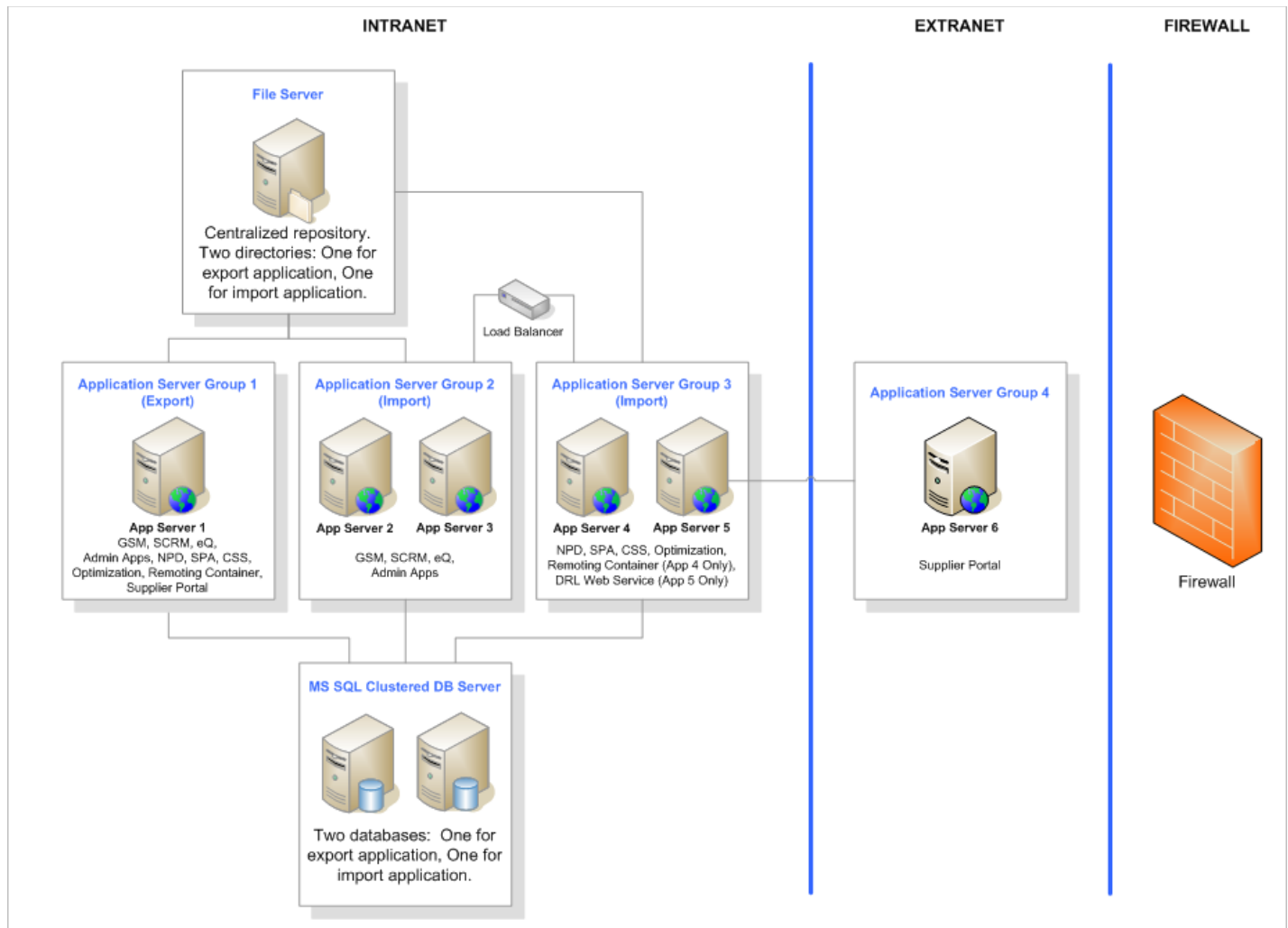


Topology Example A

Example A, shown in figure 3-4, highlights:

- Database clustering
- Load balancing
- Separate and centralized file server

Figure 3-3: Topology Example A

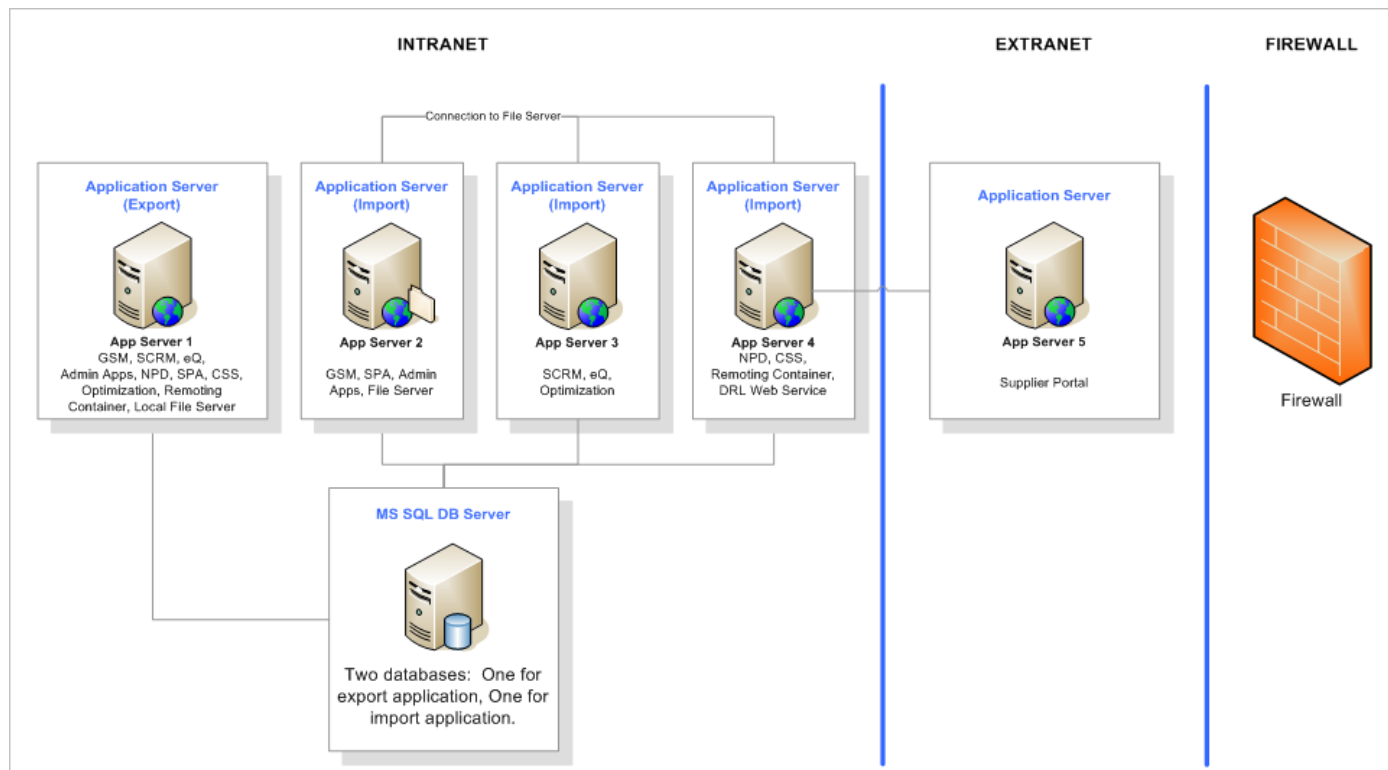


Topology Example B

Topology B example, shown in figure 3-4, highlights:

- Standard database
- Logically distributed applications
- Centralized file server shared with application server

Figure 3-4: Topology example B



Multiple Server Configuration

Following are the settings for configuring an environment with multiple servers running different application modules. Currently, two scenarios are provided. This includes one for multiple servers with NO reverse proxy, and one for multiple servers with a reverse proxy.

Files Modified

- ❑ %PRODIKA_HOME%\Config\EnvironmentVariables.config
- ❑ %PRODIKA_HOME%\Config\Custom\EnvironmentSettings.config

Scenario 1

Customer does not have or has chosen not to use a reverse proxy or a hardware load balancer. Application URLs should be configured in

`EnvironmentVariables.config` as **Client-Server**, meaning it is the URL the client will see and use in Internet Explorer. Web Service URLs should be configured in `EnvironmentVariables.config` as **Server-Server**, meaning the web service call will NOT be passed to the client.

Table 3-1: Scenario 1

Server Name	Friendly URL	App Modules
AppServer001	plm.xenodev.com	GSM, SCRM, Portal
AppServer002	plmapp2.xenodev.com	NPD, DRL
AppServer003	plmapp3.xenodev.com	WFA, UGM

Note Main application URL is <https://plm.xenodev.com>

SSL Configuration (Strongly Recommended for Production Environments)

An SSL certificate will need to be purchased and installed on each application server, corresponding to the friendly URL provided.

App Configuration

The following is an example, only. There are additional application URLs that are not listed below.

- 1 Open the `%PRODIKA_HOME%\Config\EnvironmentVariables.config` file:


```
# Server Topology Information
Prodika.Server1.URL = https://plm.xenodev.com
Prodika.Server2.URL=https://plmapp2.xenodev.com
Prodika.Server3.URL=https://plmapp3.xenodev.com
Prodika.SCHEME =https

# Application URL Information
Prodika.GSM.URL=@@VAR:Prodika.Server1.URL@@/gsm
Prodika.GSMInterApp.URL=@@VAR:Prodika.Server1.URL@@/gsm
Prodika.SCRM.URL=@@VAR:Prodika.Server1.URL@@/scrm
Prodika.NPD.URL=@@VAR:Prodika.Server2.URL@@/npd
Prodika.Portal.URL=@@VAR:Prodika.Server1.URL@@/portal
# DRL Attachment is used for file upload by the WebApp and
WebService
```

```

Prodika.DRLService.URL=@@VAR:Prodika.Server2.URL@@/drl
(see note)
Prodika.DRLAttachment.URL=@@VAR:Prodika.Server2.URL@@/drl
Prodika.DRL.URL=@@VAR:Prodika.Server2.URL@@/drl
Prodika.WFA.URL=@@VAR:Prodika.Server3.URL@@/wfa
Prodika.UGM.URL=@@VAR:Prodika.Server3.URL@@/ugm

```

Note DRLService.URL is only available if hot fix 5.2.1.27 is installed and configured.

2 Open the

%PRODIKA_HOME%\Config\Custom\EnvironmentSettings.config file:

Search and replace the following keys:

- "<add key="ActionMenuImageOnClickJScript" value="javascript:window.location.href='https://plm.xenodev.com/portal';return false;" />
- "<Item id="navlogo" prepend="<div align=center>" append="</div>" cssClass="None" labelID="Image" href="" onClick="javascript:openSiteHome('https://plm.xenodev.com/portal');return false;" />
- "<config key="HomeURL" value="https://plm.xenodev.com/portal" />
- "<config key="SiteMapURL" value="https://plm.xenodev.com/portal" />

Result

The application suite is separated on multiple servers. GSM and Portal run on AppServer001, NPD runs on AppServer002, etc. The user will see the corresponding URL based on the app that is opened. For example, when the user opens GSM, the user will see **https://plm.xenodev.com/GSM** as the URL in their browser. Subsequently, when the user opens NPD, the user will see **https://plmapp2.xenodev.com/NPD** as the URL in their browser. No matter what application is opened, the user will always see **https://plm.xenodev.com** as the URL in their browser. Web Service calls, as such for GSMInterApp and DRL, will be passed internally, from server to server.

Scenario 2

Customer has chosen to use a reverse proxy or hardware load balancer. Application URLs should be configured in `EnvironmentVariables.config` as **Client-Server**, meaning it is the URL the client will see and use in Internet Explorer. Web Service URLs should be configured in `EnvironmentVariables.config` as **Server-Server**, meaning the web service call will NOT be passed to the client.

Table 3-2: Scenario 2

Server Name	Friendly URL	App Modules
RPServer001	plm.xenodev.com	n/a
AppServer001	plmapp1.xenodev.com	GSM, SCRM, Portal
AppServer002	plmapp2.xenodev.com	NPD, DRL
AppServer003	plmapp3.xenodev.com	WFA, UGM

Note Main application URL is <https://plm.xenodev.com>

SSL Configuration (Optional)

A single SSL certificate will need to be purchased and installed on the reverse proxy or load balancer, corresponding to the main application URL.

App Configuration

The following is an example, only. There are additional application URLs that are not listed below.

```
1 Open the %PRODIKA_HOME%\Config\EnvironmentVariables.config
file:
# Server Topology Information
Prodika.Server1.URL = https://plm.xenodev.com
Prodika.Server2.URL=http://plmapp1.xenodev.com
Prodika.SCHEME =https

# Application URL Information
Prodika.GSM.URL=@@VAR:Prodika.Server1.URL@@/gsm
Prodika.GSMInterApp.URL=@@VAR:Prodika.Server2.URL@@/gsm
Prodika.SCRM.URL=@@VAR:Prodika.Server1.URL@@/scrm
Prodika.NPD.URL=@@VAR:Prodika.Server1.URL@@/npd
Prodika.Portal.URL=@@VAR:Prodika.Server1.URL@@/portal
# DRL Attachment is used for file upload by the WebApp and
WebService
Prodika.DRLService.URL=@@VAR:Prodika.Server2.URL@@/drl
(see note)

Prodika.DRLAttachment.URL=@@VAR:Prodika.Server1.URL@@/drl
Prodika.DRL.URL=@@VAR:Prodika.Server1.URL@@/drl
Prodika.WFA.URL=@@VAR:Prodika.Server1.URL@@/wfa
```

```
Prodika.UGM.URL=@@VAR:Prodika.Server1.URL@@/ugm
```

Note DRLService.URL is only available if hot fix 5.2.1.27 is installed and configured.

2 Open the

%PRODIKA_HOME%\Config\Custom\EnvironmentSettings.config
file:

Search and replace the following keys:

- <add key="ActionMenuImageOnClickJScript"
value="javascript:window.location.href='https://plm.xenodev.com/
portal';return false;" />
- <Item id="navlogo" prepend="<div align=center>" append="</
div>" cssClass="None" labelID="Image" href="<img src='../
images/navlogo.gif' />" onClick="javascript:openSiteHome('https://
plm.xenodev.com/portal');return false;" />
- <config key="HomeURL" value="https://plm.xenodev.com/portal" />
- <config key="SiteMapURL" value="https://plm.xenodev.com/portal" />

Result

The application suite is separated on multiple servers. GSM and Portal run on AppServer001, NPD runs on AppServer002, etc. No matter what application is opened, the user will always see **https://plm.xenodev.com/<module>** as the URL in the browser. Web Service calls, as such for GSMInterApp and DRL, will be passed internally, from server to server.

APPENDIX A

Verification Tests

This appendix contains post-installation and post-upgrade verification tests.

Verification Tests

Perform the following verification tests after installation or upgrade.

- ☐ *Global Specification Management Test*
- ☐ *Printing Test*
- ☐ *Attachment Test*
- ☐ *Reporting Test*
- ☐ *Supply Chain Relationship Management Test*
- ☐ *Nutrition Surveillance Management Test*
- ☐ *eQuestionnaire Test*
- ☐ *New Product Development Test*
- ☐ *Product Quality Scorecard Test*
- ☐ *Component Catalog Test*
- ☐ *Computer Aided Compliance Screening Test*
- ☐ *Supplier Portal Test*
- ☐ *User Group Administration Test*
- ☐ *Workflow Administration Test*
- ☐ *Manage Core Data Test*
- ☐ *Manage Data Caches Test*

Login Information

In order to perform the recommended Agile verification tests, you will need the user name and password for an Agile user account having access to all Agile applications. The standard username and password that ships with the certified database is:

Username: prodikaadmin

Password: agile

Important Since this is a published username and password, it is highly advised that you change this password immediately upon successful installation of the system.

User access is managed using the User Group Management (UGM) application. For more information on user management, see the *Oracle Agile Product Lifecycle Management for Process Administrator User Guide*.

To verify installation:

- 1 Turn on Agile PLM for Process.
- 2 Access the Agile application using Internet Explorer. Use the following Fully Qualified Domain Name (FQDN) URL:
`https://server.domain.tld/portal`

Important Be sure to use a fully qualified domain name rather than just a servername. Example: `https://app/portal` vs. `https://app.prodika.com/portal`.

- 3 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.

Important You must be assigned the correct Agile roles to perform these installation verification tests. For more information on roles, see the *Oracle 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**. A new material 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**.
- 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**.
- 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.

Note To remove the test data in a production environment, restore your database, restart the Remoting Container, and then restart the application pools. This returns the environment to the default installation state.

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 A-2.
- 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.

Attachment Test

The purpose of this test is to verify that the Attachments feature is correctly functioning.

To perform the Attachment test:

- 1 Navigate to any trade specification in GSM.
- 2 Select the Supporting Documents tab.
- 3 Click **Edit** to put the specification in edit mode.
- 4 Select the **Attachments/Procedures** link under Supporting Documents.
- 5 Click **Add New** button.
- 6 In the **Title** field, type `test`.
- 7 Click the **Browse...** button, select a file, and then select **Open**.

Note The size of the selected file must be less than the designated limit.

- 8 Click the **Upload** button. The first upload may take up to 30 seconds to complete.
- 9 Click **Done** in the Attachment Detail window.
- 10 Click **Done** in the Attachment/Procedures window.

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 A-2.
- 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.

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 material specification that you created in *Global Specification Management Test* on page A-2.
- 8 If the material specification is displayed, the test has succeeded.
- 9 Click **Close** in the upper right corner, and proceed to the next test.

Component Catalog Test

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

To perform the Component Catalog test:

- 1 Log in to Agile Product Lifecycle Management for Process.
- 2 From the left navigation panel, select **GSM > Component Catalog**.
- 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 application is correctly functioning. First, log in to Supplier Portal and create a new registrant request:

To register with Supplier Portal:

- 1 Access Supplier Portal at <https://server.domain.tld/supplierportal>.
- 2 Select a Language, and on the login page click **click HERE if you have not registered with this site**.
- 3 Follow the screens, filling out all required data. Once you are done, click **Submit**. You have now submitted a registration request. Make note of your User Name and Password.

To perform the SPA test:

- 1 Log in to Agile Product Lifecycle Management for Process as a Supplier Portal administrator.
- 2 From the left navigation panel, select **SPA > New Registrations**.
- 3 The registration request you just submitted should be displayed.

Note You need to be a supplier portal administrator to log in to SPA. Refer to the Agile Product Lifecycle Management for Process Extensibility Pack documentation to find out how to create a supplier portal administrator user. You can find this documentation in the *Oracle Agile Product Lifecycle Management for Process Data Administration Toolkit Guide*.

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 Compliance > 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.

You can now use the scheduled Cache Flush Queue feature to see details for the different applications that been flushed. For more information, refer to the “Using CACHE to Manage Caches” chapter of the *Oracle Agile Product Lifecycle Management for Process Administrator User Guide*.

APPENDIX B

Installing WebDAV

This appendix contains instructions for installing and configuring WebDAV.

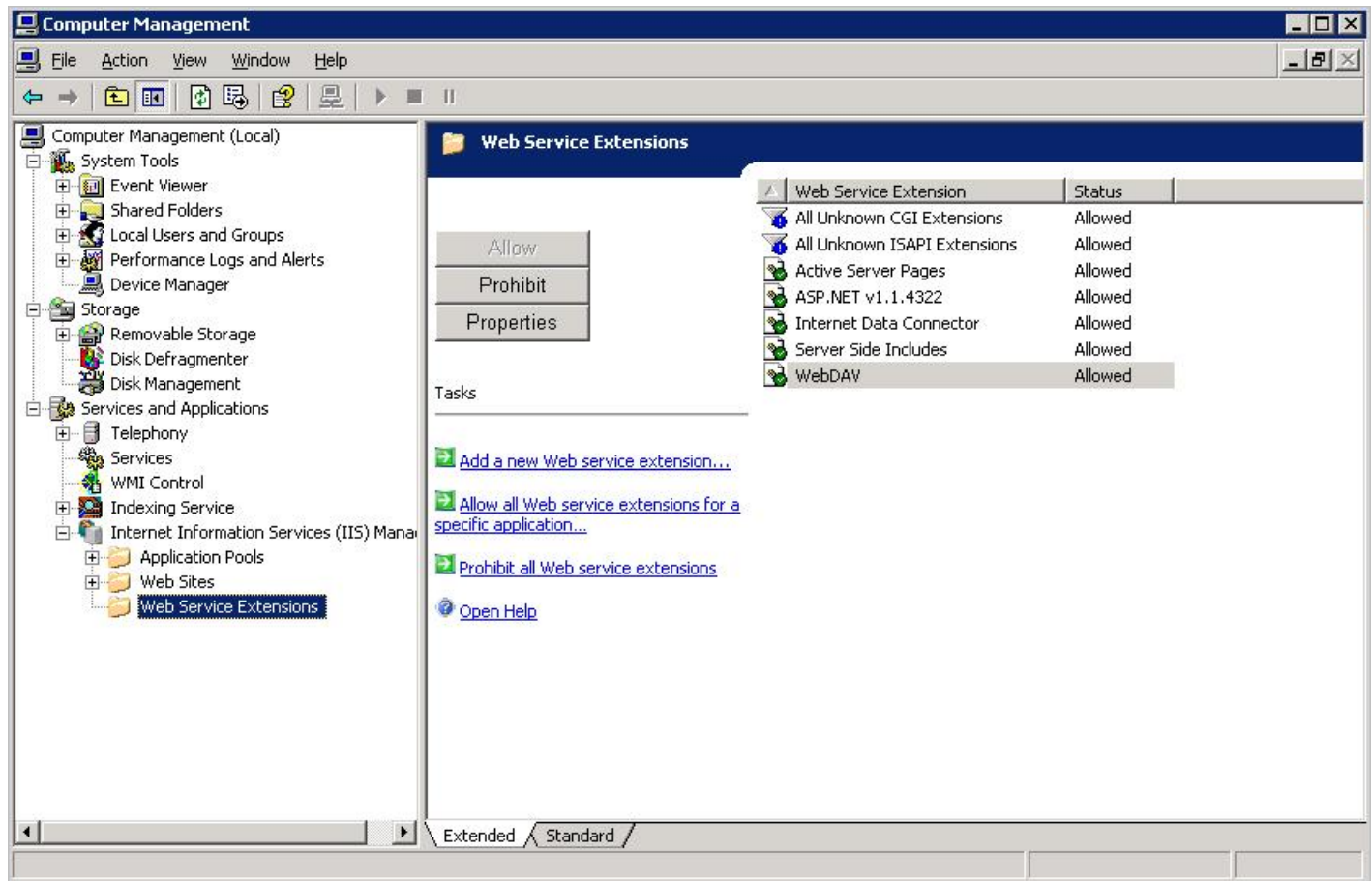
Important If you are installing the main application on IIS7.x, then you must have a separate web server with IIS6 or Apache 2.2 installed for WebDAV.

Enabling WebDAV in IIS6

To make sure that Web Sharing is enabled in IIS:

- 1 Open the IIS Manager, and then select **Web Service Extensions**.
- 2 Enable WebDAV if it is not already set to “Allowed,” as figure B-1 shows below:

Figure B-1: Enabling WebDAV



Creating the Directory Structure

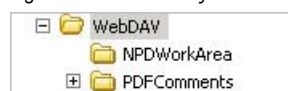
To configure WebDAV:

- 1 Create the directory structure as follows:
WebDAV\

WebDAV\PDFComments

WebDAV\NPDWorkArea

Figure B-2: Directory Structure

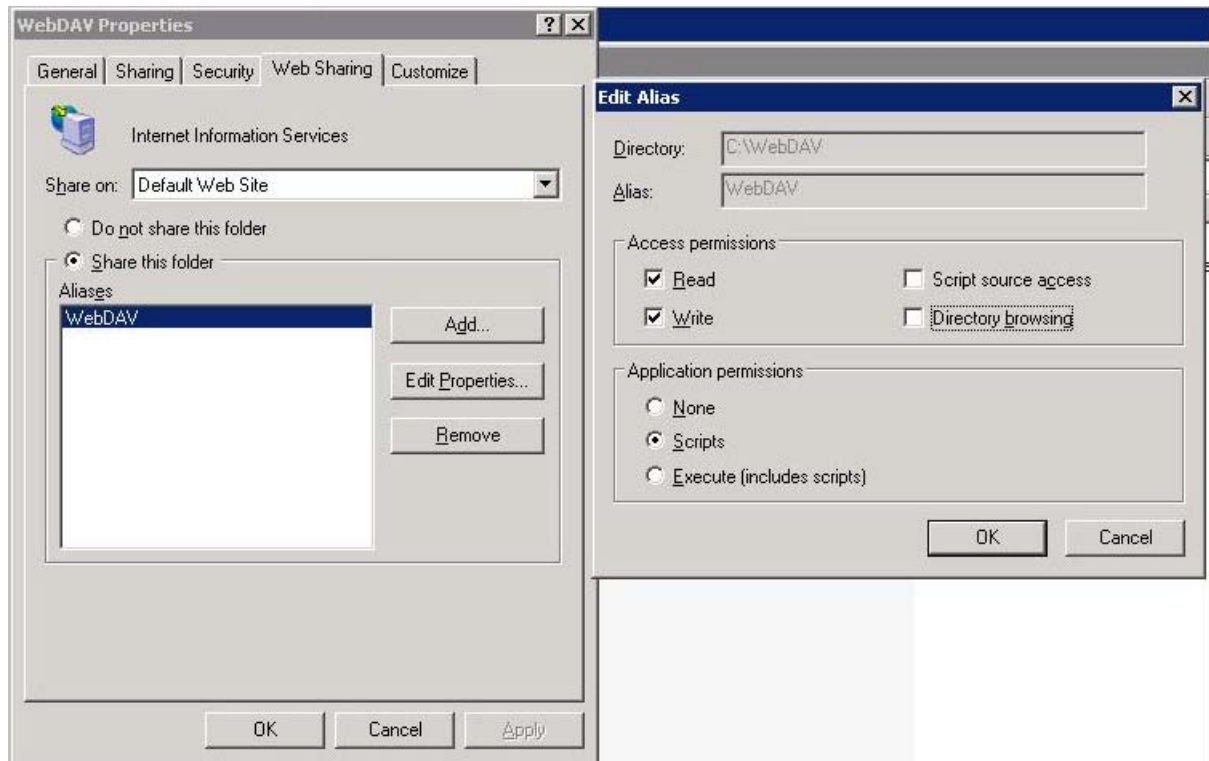


Sharing the WebDAV Directory

To share the WebDAV directory:

- 1 Right click on the WebDAV Directory and select **Properties**.
- 2 Select the Web Sharing tab.
- 3 Share the folder as WebDAV.
- 4 Click **Edit Properties**.
- 5 Check **Read**, **Write** and allow **Scripts**, as figure B-3 shows below.

Figure B-3: Properties

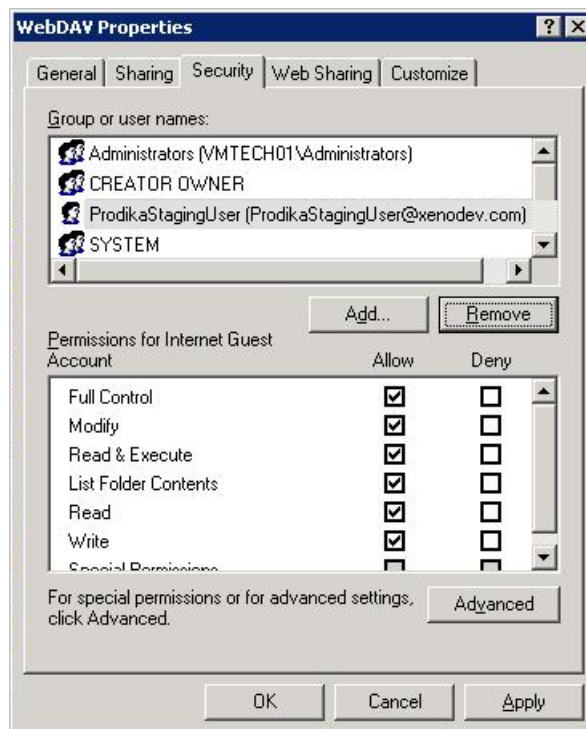


Editing Folder Permissions

To edit folder permissions:

- 1 Click on the **Security** tab.
- 2 Give the user that the Application Pool runs as full control, and apply to all sub directories, as figure B-4 shows below.

Figure B-4: Properties

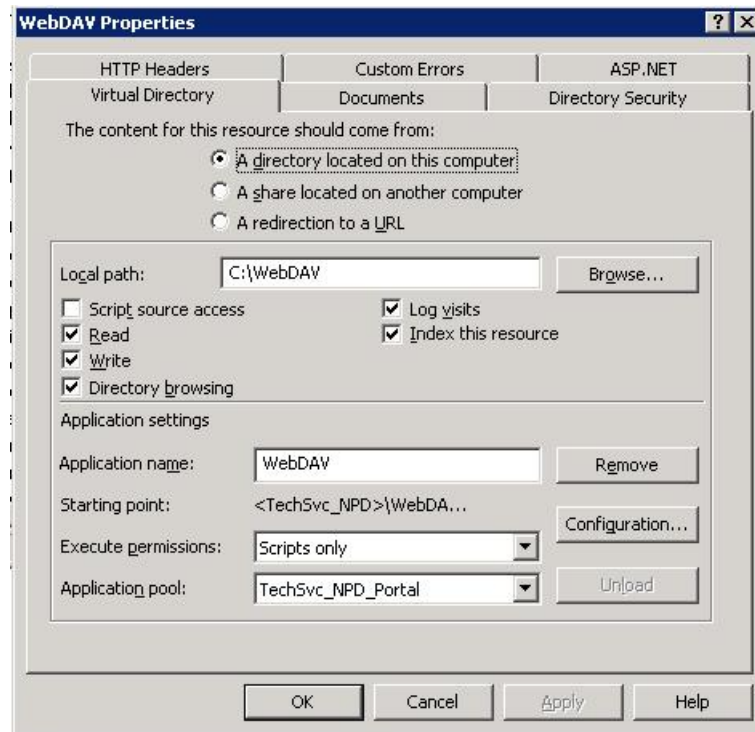


Verifying the IIS Directory Security is Configured Correctly

To verify IIS directory security:

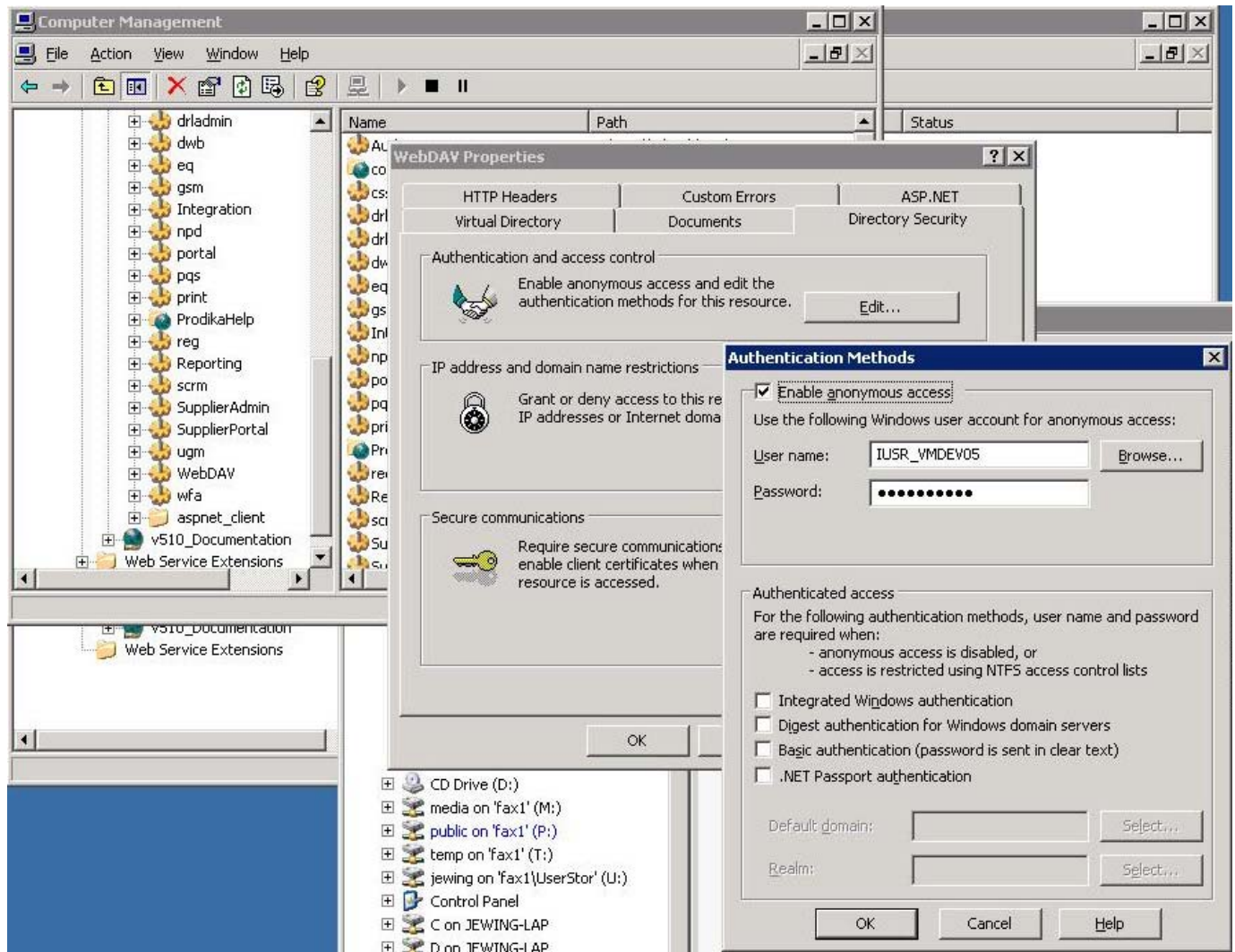
- 1 Locate the WebDAV virtual directory, then right click and select **Properties**.
- 2 Verify that the directory has Write permission, as figure B-5 shows below.

Figure B-5: Virtual Directory



- 3 Click the **Directory Security** tab.
- 4 Select **Edit** under Authentication and access control.
- 5 Verify that Anonymous access is enabled, as shown in figure B-6 below.

Figure B-6: Authentication



Enabling WebDAV in Apache: (Basic Configuration)

To enable WebDAV in Apache:

- 1 Install Apache 2.2.
- 2 Uncomment the following lines in `httpd.conf`:

```
LoadModule dav_module modules/mod_dav.so

LoadModule dav_fs_module modules/mod_dav_fs.so

LoadModule dav_lock_module modules/mod_dav_lock.so

Include conf/extra/httpd-dav.conf
```

- 3 Sample `httpd-dav.conf`:

```
...

DavLockDB "C:/Program Files (x86)/Apache Software
Foundation/Apache2.2/var/DavLock"

Alias /webdav "c:/webdav"

<Directory "c:/webdav">
    Dav On
    Order Allow,Deny
    Allow from all
</Directory>

...
```

- 4 Create `DavLock` dir based on setting in `httpd-dav.conf`.

Configuring the Application

To configure WebDAV for a single server setup:

- 1 Edit Environment Settings under
`PRODIKA_HOME\custom\config\EnvironmentSettings.config`
- 2 Map the following settings in the config to the appropriate directories/URLS. To test, you can enable directory browsing on the web dav virtual directory.
 - `<config key="PDFWorkArea" value="https://demo.prodika.com/WebDAV/npdworkarea/"; />`
 - `<config key="PDFWorkAreaUNC" value="C:\WebDAV\NPDWorkArea\" />`
 - `<config key="PDFCommentRepository" value="https://demo.prodika.com/WebDAV/PDFComments"; />`
 - `<config key="PDFCommentRepositoryUNC" value="C:\WebDAV\PDFComments\" />`
 - `<config key="OfficeDocWorkArea" value="https://demo.prodika.com/WebDAV/npdworkarea/"; />`
 - `<config key="OfficeDocWorkAreaUNC" value="C:\WebDAV\NPDWorkArea\" />`

Note If Apache is using a non-standard HTTP port, then you will need to reflect that in your `environmentsettings.config` file. For example:

`https://demo.prodika.com:8080/webdav/npdworkarea/`

To configure WebDAV for a multiple server setup:

- 1 Share the web dav directory as webdav on server A resulting in `\\<server a>\webdav`
- 2 Set appropriate share and security permissions as follows:

The user running app pool on server B must have RW share and security access to `\\<server A>\webdav`.

- 3 Use `\\<hostname>\webdav\pdfcomments\` and `\\<server A>\webdav\npdworkarea` for UNC paths in config on server B.

APPENDIX C

Installing National Language Support

This appendix contains instructions for installing and configuring National Language Support (NLS).

Installing Language Support for Simplified Chinese, Traditional Chinese, or Korean

As an optional installation step, customers may apply 6.0.0.2.0 National Language Support (NLS).

Pre-Upgrade Checklist

- 1 Archive the previous installation.
- 2 Back up your current database.
- 3 Stop the Remoting Container service.
 - a Open **Services > Start > Administrative Tools > Services**.
 - b Locate the **RemoteContainerService** service and perform a Stop operation.
- 4 Stop IIS. From a command prompt, type the following:

```
> iisreset /stop
```

Note Specific fonts are used when displaying these language characters in the UI as well as when printing. Verify you have the following fonts installed on the server:

Simplified Chinese: **SimSun**
Traditional Chinese: **SimSun**
Korean: **Gulim**

Apply Database Scripts

To apply the 6.0.0.2.0 scripts:

(For SQL Server)

- 1 Open a command prompt and navigate to the directory where you unzipped the upgrade package.
- 2 Change directories (cd) to the Installer/ApplyScripts directory.

3 Apply the scripts using the following calls to the ApplyScripts.exe utility:**a** Apply the scripts to load Korean translation:

```
> ApplyScripts -c "server=<database_server>;uid=<user>;  
password=<password>;database=<database>" -f  
6.0.0.2.0_Korean_LangPack.xml
```

b Apply the scripts to load Simplified Chinese translation:

```
> ApplyScripts -c "server=<database_server>;uid=<user>;  
password=<password>;database=<database>" -f  
6.0.0.2.0_Chinese_LangPack.xml
```

c Apply the scripts to load Traditional Chinese translation:

```
> ApplyScripts -c "server=<database_server>;uid=<user>;  
password=<password>;database=<database>" -f  
6.0.0.2.0_ChineseTW_LangPack.xml
```

4 After the ApplyScripts call, you can confirm that the database upgrade scripts have been applied successfully when the system prompts you with the following message:

"Complete - with no errors"

(For Oracle Database)**1** Open a command prompt and navigate to the directory where you unzipped the upgrade package.**2** Change directories (cd) to the Installer/ApplyScripts directory.**3** Apply the scripts using the following calls to the ApplyScripts.exe utility:**a** Apply the scripts to load Korean translation:

```
> ApplyScripts -c "User Id=<user>;Password=<password>;  
Data Source=<datasource>" -dbvendor="orcl" -f  
6.0.0.2.0_Korean_LangPack.xml
```

b Apply the scripts to load Simplified Chinese translation:

```
> ApplyScripts -c "User Id=<user>;Password=<password>;  
Data Source=<datasource>" -dbvendor="orcl" -f  
6.0.0.2.0_Chinese_LangPack.xml
```

c Apply the scripts to load Traditional Chinese translation:

```
> ApplyScripts -c "User Id=<user>;Password=<password>;  
Data Source=<datasource>" -dbvendor="orcl" -f  
6.0.0.2.0_ChineseTW_LangPack.xml
```

4 After the ApplyScripts call, you can confirm that the database upgrade scripts have been applied successfully when the system prompts you with the following message:

"Complete - with no errors"

Post-Upgrade Checklist

- 1** Start the Remoting Container Service.
 - a** Open **Services > Start > Administrative Tools > Services**.
 - b** Locate the **RemoteContainerService** service and perform a Start operation.
 - c** Verify that the RemotingContainerService started correctly.
- 2** Start IIS. From a command prompt, type the following:

```
> iisreset /start
```


APPENDIX D

Installing BI Publisher

This appendix contains instructions for installing and configuring BI Publisher.

BI Publisher for Printing and Reporting

Oracle Business Intelligence Publisher (BI Publisher) has been integrated with the Printing and Reporting applications. Printing and Reporting have separate configurations settings, and BI Publisher can be configured for Printing, Reporting, or both.

Requirements: Please see figure 1-2, [Software requirements matrix](#), on page 1-4 for supported versions of BI Publisher.

When installing BI Publisher, you will be prompted to enter an administrator username and password for administering the BI Publisher reports. This username and password will also grant access to a BI Publisher web service used by Agile PLM for Process to processes printing and reporting requests. Take note of the username and password as it will be required for the configuration settings.

Note that when setting up BI publisher for Reporting, you will need to set up a database connection to the Agile PLM for Process database. This may involve installing relevant JDBC drivers, setting up the DataSource in BI Publisher, and configuring the connection string and database driver class. Please refer to the Oracle BI Publisher documentation for details.

Printing Using BI Publisher

To configure BI Publisher for Printing, you will need to update Agile PLM for Process configuration settings and set up BI Publisher to process the incoming data using BI Publisher's Report Templates.

Print data is sent to the BI Publisher web service as XML data; the relevant BI Publisher Report Template takes the incoming XML data and can then transform it using a custom XSL as needed.

To Configure Agile PLM for Process:

- 1 Update the `\config\environmentvariables.config` file:

Key	Value
Prodika.Print.BIPublisherIntegration.EndPoint	<code>http://<BIPublisher-location>:9704/xmlpserver/services/PublicReportService</code>
Prodika.Print.BIPublisherIntegration.UserName	BI Publisher username as configured on installation
Prodika.Print.BIPublisherIntegration.Password	BI Publisher password as configured on installation

- 2 Update the `\config\Extensions\PrintSettings.config` file. This file contains the print configurations for the various print items, such as Specifications, NPD printing, etc. You will need to update this file to use the BIPublisherFORender print manager:

- a Open the `\config\Extensions\PrintSettings.config`.
- b Update the specification (or other print item) type you want to print to use the BI publisher print manager. You can add the following to an existing entry, or create a new entry:

```
printmanager="BIPublisherFORender" reportPath="Your
custom BI Publisher report path"
```

For example:

```
<PrintTemplate id="Default" library="XSL_FO_LIBRARY"
report="GSM$xlata$.xsl"
printmanager="BIPublisherFORender" reportPath="/
ProdikaPrint/ProdikaPrintFO/ProdikaPrintFO.xdo"/>
```

An optional attribute, `reportTemplate`, is used to specify which BI Publisher report Layout to use.

Note that the `reportPath` value should correspond to the report set up in BI Publisher.

To Configure BI Publisher for Printing:

Setting up BI Publisher for Printing involves creating a BI Publisher report, configuring its Data Model to link it to Agile PLM for Process, and setting up the possible Layouts. In this section, an example report configuration is presented, but other configurations are possible.

- 1 Log in to BI Publisher (`http://<YourBIServerURL>:9704/xmlpserver/`).
- 2 In the Reports tab, click the **Shared Folders** link.
- 3 Create a new folder (ex: ProdikaPrint).
- 4 In the new folder, click the **Create a new report** link on the left, enter a report name (ex: ProdikaPrintFO) and click the **Create** button.
- 5 Click the **Edit** link.
- 6 Click **Parameters**, then click the **New** icon.

Figure D-1: Parameters option, Parameter page

The screenshot shows the BI Publisher web interface. At the top, there are tabs for 'Reports', 'Schedules', and 'Admin'. Below them is a breadcrumb trail: 'Home > Shared Folders > ProdikaPrint > ProdikaPrintFO'. There are two buttons: 'Save' and 'Generate XLIFF'. On the left, a 'Report' pane contains a tree view with icons and labels: 'New', 'Delete', 'Report', 'Data Model', 'PrintDataModel', 'List of Values', 'Parameters', 'DocKey' (selected), 'Layouts', 'FOTemplate', 'RTFTemplate', and 'Bursting'. The main area on the right is titled 'Parameter' and contains a 'General Settings' section with four fields: 'Identifier' (text box with 'DocKey'), 'Data Type' (drop-down menu with 'String' selected), 'Default Value' (empty text box), and 'Parameter Type' (drop-down menu with 'Hidden' selected).

a Make entries in the following fields:

Identifier—Enter **DocKey**. This is a required field.

Data Type—Select **String** from the drop-down list. This is a required field.

Default Value—Leave this field blank.

Parameter Type—Select **Hidden** from the drop-down list. This is a required field.

b Click **Save**.

7 Click **Data Model**, then click the **New** icon, as shown in Figure D-2.

Figure D-2: PrintDataModel option, Data Set page

a Make entries in the following fields:

Name—Name of the data model. This is a required field.

Type—Select **HTTP (XML Feed)** from the drop-down list. This is a required field.

URL—Enter `http://{application URL}/gsm/PopUps/docstream.aspx` where {application URL} is the address of the application. This is a required field.

Method—Select **GET** from the drop-down list. This is a required field.

b Click **Add** to display the Parameters Name and Value fields.

c Make the following entries:

Name—The name of the parameter that you created in step a. This is a required field.

Value (Parameter)—Select **DocKey** from the drop-down list. This is a required field.

d Click **Save**.

8 Click **Layout** to set up the report layout.

a In the Manage Template Files section, upload your XSL template to use. In this scenario, we created and uploaded a simple XSL “pass-through” file called `ReportTemplate.xsl`, as such:

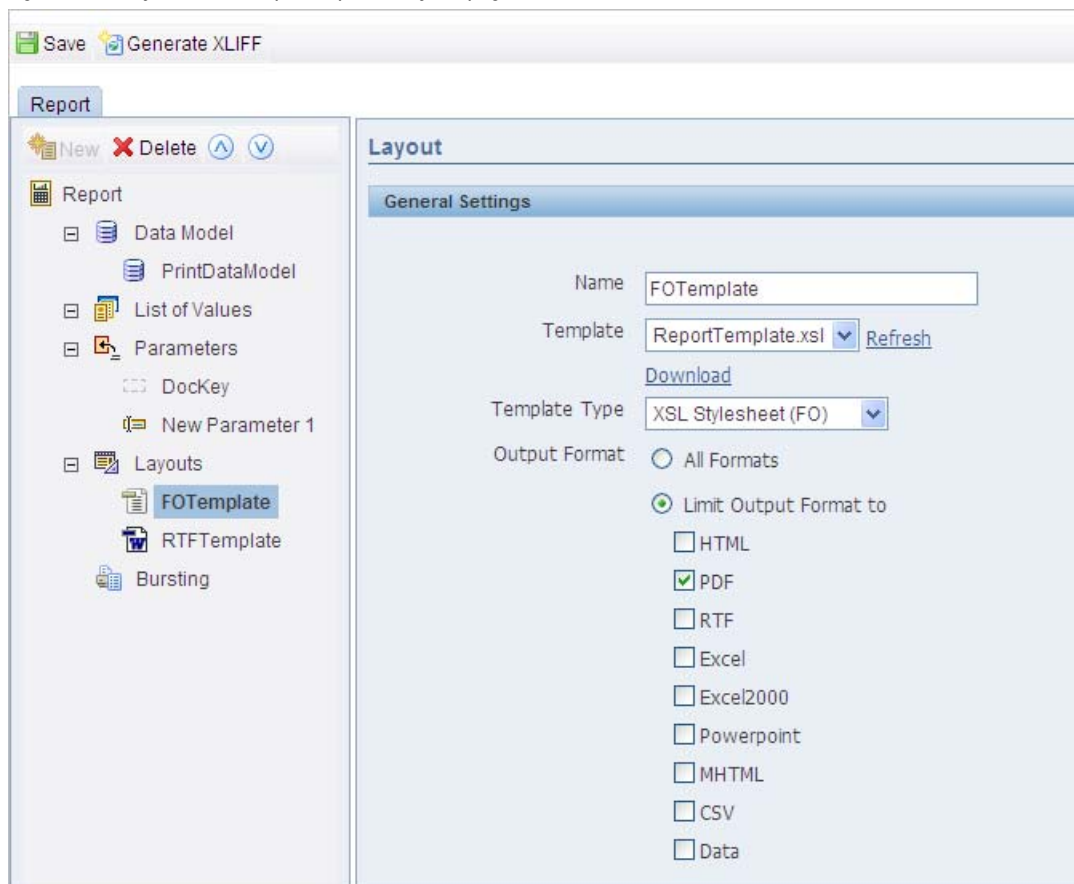
```
<?xml version='1.0'?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <xsl:copy-of select="/" />
  </xsl:template>
</xsl:stylesheet>
```


However, you can easily create your own transformation rules yourself.

b Click **New** to create a new report layout, as shown in Figure D-3.

Note You can create multiple layouts and then declare the desired layout in the `PrintSettings.config` file.

Figure D-3: Layouts, FOTemplate option, Layout page



c Make the following entries:

Name—The name of the report layout. This is a required field.

Template— Select **XSL Stylesheet (FO)** from the drop-down list. This is a required field.

Template Type— Select the **Limit Output Format to** radio button, and then select the **PDF** checkbox. This is a required field.

d Click **Save**.

Your report should now be available for printing. Make sure that the link to the report matches the `reportPath` value in the `PrintSettings.config` file. (While editing the report in BI Publisher, right-click on the **View** link in the top right and select **Copy Shortcut** to get the value).

If your Printing includes any images, such as logos, make sure they are available to BI Publisher, by adding them to the BI publisher directory. The location will depend on the path used.

Reporting Using BI Publisher

The Agile PLM for Process Reporting application allows clients to organize, configure, secure, and launch custom reports. The configuration is managed in the `CustomerReportExtensions.xml` located in the `\Config\Extensions\` directory. Reports and their parameters are presented in PLM for user entry; their values are then passed to custom BI Publisher reports to process the parameters, query data sources, and generate the report.

To use BI Publisher for Reporting, you will need to update Agile PLM for Process configuration settings, set up custom reports in BI Publisher, and update the Agile PLM for Process Reporting configurations accordingly.

For details on configuring custom PLM reports, refer to the *Agile Product Lifecycle Management for Process Custom Report Configuration Guide*.

To Configure Agile PLM for Process:

- 1 Update the `\config\environmentvariables.config` file:

Key	Value
Prodika.ReportServer.URL	<code>http://<BIPublisher-location></code>
Prodika.ReportService.URL	<code>@@VAR:Prodika.ReportServer.URL@@:9704/xmlpserver/services/PublicReportService</code>
Prodika.ReportService.SysUser	BI Publisher username as configured on installation
Prodika.ReportService.SysPassword	BI Publisher password as configured on installation

- 2 Update the `\config\Custom\CustomerSettings.config` file:
 - a Find `SQLReportingService` node in the `/CustomerSettings/Core/Prodika/Services` section.
 - b Set it as follows:

```
<SQLReportingService refscope="Session"
factory="Class:Xeno.Reporting.Service.ReportGenerationSe
rvice.Oracle.OracleBIPReportGenerationServiceFactory,
ReportingService" configChildKey="name"
configAttributeOverrideModifier="Replace"></
SQLReportingService>
```
- 3 Update the `\config\Extensions\CustomerReportExtensions.xml` file to set up the custom reports for the Reporting application. Details can be found in the *Oracle Agile Product Lifecycle Management for Process Custom Report Configuration Guide*.

To Configure BI Publisher Reports:

Please refer to Oracle BI Publisher documentation for creating and setting up reports in BI Publisher.

APPENDIX E

Event Logs

This appendix contains a list of core event logs.

Event Logs

Event Viewer contains the following core event logs:

- 1 cssPortal-Prodika**—Contains events or errors that are logged from within the Content Syndication Service Portal web application
- 2 DRL-Prodika**—Contains events or errors that are logged while utilizing the document repository library (DRL)
- 3 DWBService-Prodika**—Contains events or errors that are logged during processing of formulation optimization events
- 4 EQ-Prodika**—Contains events or errors that are logged from within eQuestionnaire (EQ)
- 5 EQService-Prodika**—Contains events or errors that are logged while utilizes services provided by eQuestionnaire
- 6 Integration-Prodika**—Contains events or errors that are logged while utilizing external system integration services
- 7 NPD-Prodika**—Contains events or errors that are logged from within New Product Development (NPD)
- 8 Optimization**—Contains events or errors that are logged during the process of optimization
- 9 PLMFramework-Prodika**—Contains general events or errors that are logged during lower level service calls used throughout the Prodika framework
- 10 Portal-Prodika**—Contains events or errors that are logged from within the Portal web application
- 11 PQS-Prodika**—Contains events or errors that are logged from within the Product Quality Scorecard (PQS) web application
- 12 PrincipalManagement-Prodika**—Contains events or errors that are logged within the User Group Management (UGM) web application
- 13 Print-Prodika**—Contains events or errors that are logged during printing events
- 14 Prodika**—Contains general framework events or errors that are logged during standard processes, such as failed log ins, etc.
- 15 ProdikaCommon**—Contains events or errors that are logged from within the ProdikaCommon support library

- 16 Reg-Prodika**—Contains events or errors that are logged from within the Regulatory web applications (CACS, FSIS, etc.)
- 17 ReportGenerator-Prodika**—Contains events or errors that are logged during report generation
- 18 Reporting-Prodika**—Contains events or errors that are logged from within the Reporting web application
- 19 SCRM-Prodika**—Contains events or errors that are logged from within the Supply Chain Relationship Management (SCRM) web application
- 20 SP-Prodika**—Contains events or errors that are logged from within the Supplier Portal (SP) web application
- 21 SupplierPortalAdmin-Prodika**—Contains events or errors that are logged from within the Supplier Portal Administration web application
- 22 Syndication-Service**—Contains events or errors that are logged from within the Content Synchronization and Syndication web application
- 23 WebCommon-Prodika**—Contains events or errors that are logged from the common web controls used throughout the entire Prodika web framework
- 24 wfAdmin-Prodika**—Contains events or errors that are logged from within the Workflow Administration web application
- 25 workFlowAdmin-Prodika**—Contains events or errors that are logged from within the Workflow Administration web application

APPENDIX F

Skill Set Matrix

This appendix contains a recommended skill set matrix.

Skill Set Matrix

Refer to the following matrix for guidance on what skills are recommended for members of your technology team.

Figure F-1: Skill set matrix

Skills Matrix					
Basic Skill Sets	Systems Administrator	SQL Server DBA	Oracle DBA	Extensions	Printing
	IT			Dev	
Windows Server Administration	R				
Implement/Manage IIS 6.0/7.0	R				
Implement/Manage SQL Server DB	O	R			
Implement/Manage Oracle DB	O		R		
T/SQL		O		O	
PL/SQL			O	O	
C#				R	
XML				R	R
XSD					R
[R]equired [O]ptional					

APPENDIX G

Troubleshooting

This appendix contains a list common issues that may occur after installation.

Troubleshooting Tips

The following list details common issues and suggestions for solving them.

- 1 How can I compare my recent build with an older build to see if configuration values have changed?

Tip: Use the Config Rollup URL to check the rolled up configuration settings for various applications. The URL is:

```
http://<serverName>/<appName>/WebCommon/AdminForms/  
ConfigRollup.aspx
```

- 2 Clicking upload when adding a DRL attachment causes the window to simply blink.

Tip: Ensure you've waited at least 30 seconds on the first attempt.

Tip: Ensure the machine.config for your .NET version has the machine key entry.

- 3 Message displayed is "trust relationship could not be established".

Tip: Verify that the Web site your using has a signed certificate.

Tip: If not testing SSL DRL attachments, configure them to use HTTP and ensure the "Prodika.GSMInterApp.URL" property is using HTTP.

- 4 Message displayed is "The remote certificate is invalid according to the validation procedure."

Tip: Ensure the credentials in the "EnvironmentVariables.config" file are correct for the "Prodika.DRLService.SysUser" user.

- 5** NPD edit-in-place documents are read-only.

Tip: The user connecting to the IIS share does not have permissions to the underlying folder on the server. Grant full permissions by assigning the 'Everyone' permission setting on that folder. If that solves the problem, lock down the folder with tighter permissions.

- 6** The Browser keeps redirecting to incorrect URLs or keeps jumping from HTTPS to HTTP.

Tip: Make sure that the environmentvariables.config file has the right URLs.

Tip: You can only have one HTTPS site on one machine. If you have more than one, it bounces back and forth between the two sites

Tip: Make sure that you are not using HTTPS in the URL to access a http Web site. Using https in your URL will make the Server redirect your request to the default https Web site.

Tip: Conversely, if the environmentvariables.config file is using https to access a http Web site, you would be redirected to the default https Web site incorrectly

- 7** Navigation to any page in the application results in a blank page after migrating to another version or a new version of .NET is installed.

Tip: The wrong ASP.NET version may be registered with IIS. Run the "aspnet_regiis.exe" utility with the "-r" flag.

- 8** The rich text dialog box is prompting me with security issues concerning scripts.

Tip: Ensure the page event and request validation are turned off .

- 9** What is drl.prodika.com?

Tip: Make sure that you have the new URLs and https:.

- 10** I am prompted to login to every application.

Tip: Is the remoting container running?

Tip: Ensure you are using the trust bridge in "EnvironmentSettings.config".