Agile
Enterprise Integration Platform

ORACLE

Installation Manual

Enterprise Integration Platform 2.1.2
SAP-Link 4.1.2

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REVISIONS

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A	2005-07-04	All	Release for EIP 2.1.0
B	2007-02-16	All	Release for EIP 2.1.1
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PREFACE

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

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

The Oracle Technology Network (OTN) Web site (http://www.oracle.com/technology/documentation/index.html) can be accessed through **Help** > **Manuals** in both the Agile Web Client and the Agile Java Client. If applicable, earlier versions of Oracle|Agile PLM documentation can be found on the Agile Customer Support Web site (http://www.agile.com/support).

If you need additional assistance or information, please contact support@agile.com or phone (408) 284-3900 for assistance.

Note Before calling Agile Support about a problem with an Oracle|Agile PLM manual, please have ready the full part number, which is located on the title page.

Readme

Any last-minute information about Oracle|Agile PLM can be found in the Readme file on the Oracle Technology Network (OTN) Web site (http://www.oracle.com/technology/documentation/index.html).

Agile Training Aids

Go to the Agile Training Web page (http://training.agile.com) for more information on Agile Training offerings.

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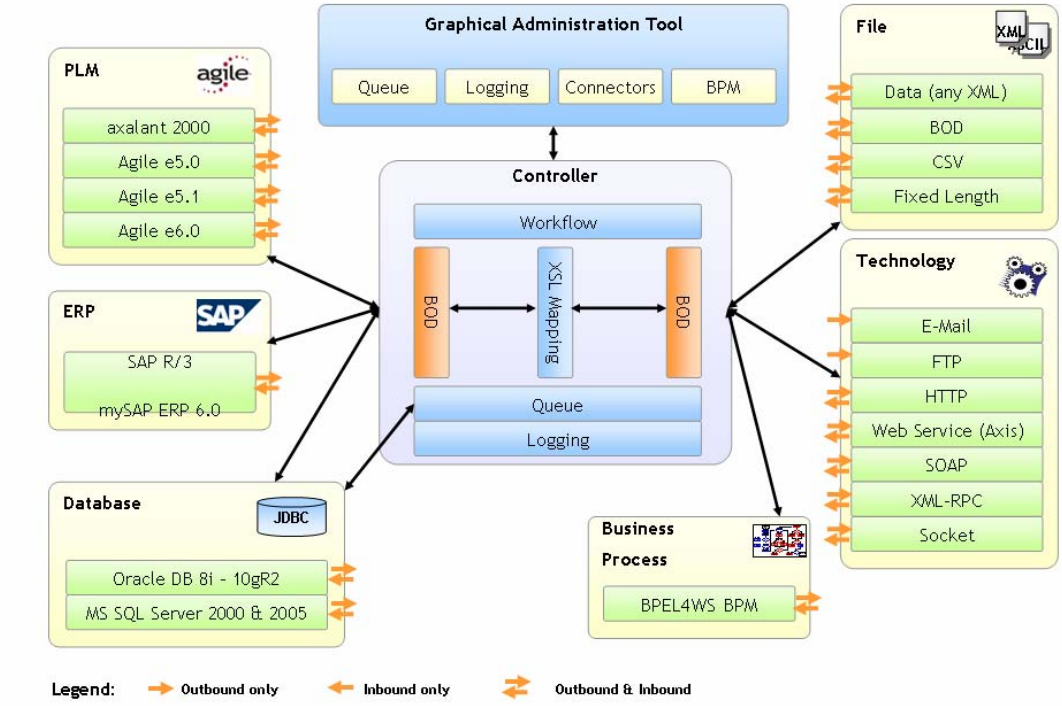
Chapter 1
Overview

The Enterprise Integration Platform is an Integration Framework for integrating Agile e6 with other applications like ERP-Systems. The Integration Platform consists of a kernel (controller, mapping, logging etc.) and connectors for the different applications.

The SAP-Link is a solution based on the Enterprise Integration Platform, where only the PLM Connector and the SAP Connector can be used. The SAP-Link is pre-configured for data transfer between Agile e6 and SAP R/3. Several chapters of this document describe how to install the necessary components of the SAP Connector as part of the SAP-Link solution.



In order to install the Integration Platform, several steps have to be performed:

1. Install the software on the server machine, where the Integration Platform should run.
2. Install the application specific software required by the Integration Platform, e.g. loader files in Agile e6.
3. Modify the configuration file in order to define the involved connectors, mappings and operations (Business Objects).
4. Modify the mapping files based on the requirements.
5. Test the Integration Platform with the new configuration.

Note: This document describes the installation of the Enterprise Integration Platform together with Agile e6. The same steps have to be performed when installing it for axalant2000 Service Pack 3 and Eigner PLM 5.

Chapter 2
Prerequisites

Enterprise Integration Platform

Since the Enterprise Integration Platform is a Java application, a Java Runtime Environment is required. This is not part of the installation package and therefore needs to be installed beforehand.

Important: As the Enterprise Integration Platform now includes a Web Server that is able to handle JSPs, a Java Compiler must be installed. Either you install a Java Development Environment (JDK) where this is included, or you install a Java Runtime Environment and copy the file tools.jar from the JDK's lib directory to the JRE's lib directory.

Please remember to install the Java Runtime Environment on all platforms where you want to run the Enterprise Integration Platform or parts of it. If you installed it on a UNIX system for example, and you want to use the GUI tools on a Windows system from this installation location via a shared network drive, you have to install a Java Runtime Environment on your Windows machine as well.

This version of the Integration Platform runs on the following versions of Java: 1.4.1, 1.4.2 and 1.5.0 (latest patch level recommended). You may download this from the website of the respective operating system provider:

AIX:	http://www-106.ibm.com/developerworks/java/jdk/aix/
Windows, Solaris, Linux/Intel:	http://java.sun.com/j2se/
HP-UX:	http://www.hp.com/products1/unix/java/
DEC UNIX:	http://www.compaq.com/java/alpha/

Important: After the installation of the Java Runtime Environment, please set the environment variable JAVA_HOME to point to its installation directory, e.g. *C:\Program Files\Java\j2re1.4.2_12*.

Third-party Libraries

As certain third-party libraries are not shipped with the Enterprise Integration Platform anymore, please download them from the following locations as needed:

Library	Purpose	Download Location	Installation Instructions
js.jar	JavaScript support for XSL transformations	www.mozilla.org/rhino/	Browse to *Downloads* and then to the *Rhino downloads archive*. The preferred version to download is 1.5R3. Copy the file *js.jar* from the ZIP file to the *libs* directory.
wsdl4j.jar	WSDL generation for WebServices	sourceforge.net/projects/wsdl4j	Browse to *Downloads* and to the link to *View older releases in the WSDL4J package* . The preferred version to download is 1.5.1. Copy the

Library	Purpose	Download Location	Installation Instructions
			file *lib/wsdl4j.jar* to the *libs* directory.

Agile PLM

The minimum Agile PLM version to be used together with the Integration Platform is Eigner PLM 5.0.1. The minimum axalant version is axalant 2000 Service Pack 3.

For license information, please see chapter “Installing licenses”.

One new feature of the Enterprise Integration Platform version is the possibility to display external result data inside Agile e6 (Windows Client, Java Client and Web Client). The correct functioning of the synchronous display of external data inside the Eigner PLM 5.0.1 Web Client requires the installation of the following patch: WPS501PA5 or higher. Eigner PLM 5.1.0 and higher already include this patch.

SAP R/3 (SAP-Link)

Minimum version of SAP R/3 required by the Integration Platform is 4.6C. The following privileges are required for the R/3 user(s), which is used by the R/3 Connector:

- Z_TRANS_RFC
- S_A.SCON

All object-related privileges, e.g. for creating a material master

Chapter 3
Basic Installation

The software is provided as a distribution package, which includes all files and directories needed for successfully running the application.

Windows and Unix Installation

Prerequisites

The distribution is provided as a gnu zipped tar file because the UNIX execution file rights are not preserved by WinZip.

Note: Do not use WinZip to extract the files to a UNIX system!

You should be able to unpack the file (in Installation Step 2) with either WinZip on Windows or with the following command on UNIX:

```
tar xzvf eip-x.x.x-bxx.tar.gz
```

If you get an error, that "z" is an unknown option to tar, then try the following:

```
gunzip -dc eip-x.x.x-bxx.tar.gz | tar xvf –
```

If you do not have one of these tools, you might download it from the following locations:

WinZip: http://www.winzip.com/
gunzip: http://www.gzip.org/

Installation Steps

1. Copy the installation package onto the dedicated server, which should be used for running the Integration Platform. The used server needs to be able to connect to the Agile e6 Java Daemon via ECI and to SAP R/3 via RFC.
2. Uncompress the package into the install directory of the Integration Platform, e.g. into the directory c:\agile\eip on MS-Windows (this will be referred to as <eai.home> in the rest of the document).

   Following directory structure will be created under <eai.home>:

archive	directory for archived queue entries
bin	contains the startup scripts for the applications
conf	contains the configuration and mapping files
data	contains the XDOs (data packages) when persistence is activated
docs	contains the documentation/manuals
install	contains all additional installation files, which are required for external applications, e.g. Agile e6
libs	contains all library files (except JRE files)
log	contains all log/trace files, depending on setting in configuration file
tmp	contains all temporary files, which are neither log files nor XDO data files

Database Creation

Before using the Enterprise Integration Platform, the needed database tables must be created. Before doing this, the Configuration File must be modified (as described in Chapter 4). Especially, the configuration values for <queue> with its sub-values <type>, <host>, <port>, <user>, <password> and <name> must be set to the appropriate database parameters (please refer to the "Administrator Manual" for further information).

Caution: Although it might be possible to create the EIP's database objects with same user as other applications (e.g. Agile e6), it strongly advised to use a separate user (a schema in Oracle). This prevents data loss in case of a command that deletes the database objects (e.g. with the dbmaint's purge command). Please read carefully the tools' chapter in the "Administraor Manual" for further information.

Note: It might be recommended to create the new database user with own database files (tablespace in Oracle, database in SQL Server). The advantages of separate database files are independency on other tables and users (e.g. from Agile e6), and easier backup and replication. Since the tables are constantly growing in size, if they are not cleaned up on a regular basis, the initial size of the database file should not be too small. The definitions for Agile PLM may be used as a guideline for specifying the initial database size and extends. Since this is only a recommendation, you may feel free to use the same database files as an existing Agile PLM installation or even the same database user, especially if you do not expect too much data load.

In order to create the database tables on MS-Windows (NT/2000/XP) please start the script *dbmaint.cmd* in the directory *bin*.

On UNIX servers, please start the script *dbmaint.sh* in the directory *bin*.

For a further description of the Database Maintainer, please refer to the chapter "Tools" in the "Administrator Manual".

SAP-Link Installation

Installing SAP-Link Online Help

The SAP-Link comes with an additional online help, which describes who to use the SAP-Link from inside Agile e6. It is recommended to copy this online help to the general Agile e6 online help directory. Please copy the file eip.chm from the directories <eai.home>/docs/eng (for the English version) and/or <eai.home>/docs/ger (for the German version) into the respective online help directories of your Agile e6 installation.

Installing SAP JCo Libraries

The SAP R/3 connector depends on the Java Library sapjco.jar (version 2.0.10 or 2.0.12) and the following runtime libraries from SAP:

- librfc*.*
- *sapjcorfc.*

These files must be downloaded from the SAP Service Marketplace (http://service.sap.com/connectors), since we are not allowed to redistribute them due to licensing issues. The archive is in the directory SAP Java Connector | Tools & Services. The SAP documentation includes an installation guide.

Please confirm that the following files are present, or copy them into the directory <eai.home>/libs/<operating system>.

- sapjco.jar
- librfc*.*

- *sapjcorfc.*

Note: For more information about the installation of the application-specific software (e.g. for Agile e6) please refer to the respective chapters later in this document.

Chapter 4

Configuration and Customization

For more information about configuring and customizing the Enterprise Integration Platform, please refer to the "Administrator Manual".

Modifying the Configuration Files

The configuration has to be done in at least two files in the conf directory: run.conf and eai_ini.xml.

The configuration file run.conf lists the classpaths used by the Integration Platform. By default, the PlmConnector uses the classpath for Agile e6 (wrapper.java.classpath.7=%EAI_HOME%/libs/plm60sp3/*.jar). If you want to use the PlmConnector with another version, you have to comment this line, and uncomment the respective classpath line. If you intend to use it with Eigner PLM 5.0.1, you have to uncomment the line "wrapper.java.classpath.7=%EAI_HOME%/libs/plm50sp1/*.jar".

The configuration file eai_ini.xml consists of certain sections for the different modules of the Integration Platform, e.g. Controller, Connector and Mapping.

Each one of them needs to be set up accordingly in order to have the Integration Platform start up and run properly.

Modifying the Mapping Files

As mentioned before, XSL files are used for mapping purposes. Since the connectors create and read XML data (i.e. the message XDO), converting the XDO to a specific format will be done by the XML Mapping engine.

The names of the XSL mapping files, which are used by the Integration Platform, are provided in the *eai_ini.xml* configuration file.

For more information about XSL tools, please refer to the "FAQ_EIP" document.

Chapter 5
Installing licenses

The Integration Platform software is checking licenses in FELICS. Please contact Agile to get the required licenses for your PLM version as stated below.

Important: Starting with Agile e6.0.4, no license keys are required to be installed anymore. But it still needs to be purchased a proper license through Oracle Sales.

Agile e6.0

One of the following FELICS licenses needs to be available (if no PLM-E6-ESI license is available!)

"PLM-E6-IPR"	EIP Runtime License
"PLM-E6-IPS"	EIP Server License.

The following license needs to be installed in any case:

"PLM-E6-IPA"	EIP Administration License

If you purchased a SAP-Link license, the following license needs to be available:

"PLM-E6-ESI"	SAP-Link License

Eigner PLM 5.0/Agile e5.1

One of the following FELICS licenses needs to be available (if no PLM-ESI license is available!)

"PLM-IPR"	EIP Runtime License
"PLM-IPS"	EIP Server License.

The following license needs to be installed in any case:

" PLM -DOT"	Distributed Objects
" PLM-DXP"	Interchange Tools

If you purchased a SAP-Link license, the following license needs to be available:

"PLM-ESI"	SAP-Link License

axalant 2000 Service Pack 3

The following FELICS licenses need to be available:

"AXA-DOT"	Distributed Objects
"AXA-DXP"	Interchange Tools

If you purchased a SAP-Link license, the following FELICS license needs to be available:

"AXA-ESI"	SAP-Link License

Chapter 6

Installation of Agile PLM loader files

Additional configuration is required inside Agile PLM systems in order to use the Integration Platform. That configuration is provided as Binary Loader Files.

All Loader Files for Eigner PLM 5.0.1 are provided in the sub-directory *install/plm50sp1/loader* of the installation environment of the Integration Platform.

All Loader Files for Eigner PLM 5.1.0 are provided in the sub-directory *install/plm51sp0/loader* of the installation environment of the Integration Platform.

All Loader Files for Eigner PLM 5.1.1 are provided in the sub-directory *install/plm51sp1/loader* of the installation environment of the Integration Platform.

Note: There are no loader files for Agile e6, since they are already part of the standard Agile e6 installation dump. Therefore, you may skip this chapter.

1. Load the files in the following order (all in **Insert** mode except for the first loader file, which should be loaded in **Overload** mode):

No	Loader File	Comment	Mode
1	plm_eip_tab.bld	Table modifications	O
2	plm_eip_dtv.bld	DataView modifications	I
3	plm_eip_lgv.bld	New LogiView procedures	I

2. Shut down and re-start Agile PLM after loading above loader files.
3. Create the following new tables and views (data classes):

   T_XDO_DEF_DAT

   T_XDO_DEF_IEF

   T_XDO_DEF_QRY

   T_EIP_VIEW

   T_EIP_SNAPSHT

   T_EIP_SNP_STR
4. Delete and recreate the table T_EER_SEN. Just **changing** the table T_EER_SEN alone does not work!
5. Load the following loader files:

No	Loader File	Comment	Mode
5	plm_eip_data.bld	Predefined IEF Schemas for XML-Interface etc.	I

Note All of above data is assigned to the new user EDB-EIP.

Chapter 7

Installation of additional patches

This chapter lists the patches that need to be installed for a specific PLM version to allow the Enterprise Integration Platform to run properly. If a PLM Version is not listed here, there is usually no need to install a patch. For up-to-date information, please visit the Agile PLM support site.

axalant2000sp3

This installation steps only apply to axalant2000sp3. Eigner PLM 5.0.1 and higher do already have the newest libraries installed.

ECI server library

This installation step only applies to axalant Service Pack 3 environments. axalant SP3 Patch 1 and higher do already have the new ECI Server Library !

In order to fully use the new XML-Interface as part of the axalant Connector, you need to install a new ECI-Server library, which is available in the directory <eai.home>/install/axalant2000sp3/libs/<OperatingSystem>.

Copy the file epsrv_eci.dll (on Windows), libepsrv_eci.sl (on HP-UX) or libepsrv_eci.so (on other UNIX systems) to the directory <axalant_root>/bin/<OperatingSystem>.

Eigner PLM 5.0.1

This installation steps only apply to Eigner PLM 5.0.1. Eigner PLM 5.0.1 Patch 1 and higher do already have the newest libraries installed.

Relation Creation (FIS-ID 10258)

It solves a problem when creating a relation via EIP as the system tries to update the C_ID of the record of child entity.

The library is available in the directory <eai.home>/install/plm50sp1/libs/<OperatingSystem>.

Copy the file epsrv_dal.dll (on Windows), libepsrv_dal.sl (on HP-UX) or libepsrv_dal.so (on other UNIX systems) to the directory <axalant_root>/bin/<OperatingSystem>.

For further information please see the description of FIS-ID 10258 on the Eigner PLM Support Site (requires account).

Agile e5.1

This installation steps only apply to Agile e 5.1. Agile e 5.1.1 and higher do already have the newest libraries installed.

File check-in after previous check-out (FIS-ID 09374)

It solves a problem with checking in a file that has been checked out before.

The binaries are either available from the Support web site or must be requested from Agile Support.

For further information please see the description of FIS-ID 09374 on the Eigner PLM Support Site (requires account).

Snapshot feature (FIS-ID 09340)

With EIP 2.0, a new feature was provided which allows creating and storing snapshots of the XML messages inside Eigner PLM. This feature will only work with Eigner PLM Version 5.1 and higher.

If you want to use that feature with Eigner PLM 5.1, you need to install a patch on the Eigner PLM server. Please contact Agile Support – Eigner PLM for receciving this patch.

For further information please see the description of FIS-ID 09340

and install it as described in the Patch Installation Documentation.

Note: This patch is already part of Agile e6 and does not require any further action.

Chapter 8
Configuration

For configuring the Enterprise Integration Platform, please refer to the “Administrator Manual”.

Chapter 9

Setting up the Synchronous PLM Connector

Modifying the environment

In order to use the synchronous PLM connector with Agile PLM, an additional library file has to be installed in Agile PLM.

The installation files for the respective PLM version could be found at the following locations:

PLM Version	Location
Eigner PLM 5.0.1	<eai.home>/install/plm50sp1/libs/<OperatingSystem>
Agile e5.1	<eai.home>/install/plm51sp0/libs/<OperatingSystem>
Agile e5.1.1	<eai.home>/install/plm51sp1/libs/<OperatingSystem>
Agile e6	<eai.home>/install/plm60sp0/libs/<OperatingSystem>
Agile e6.0.1	<eai.home>/install/plm60sp1/libs/<OperatingSystem>
Agile e6.0.2	<eai.home>/install/plm60sp2/libs/<OperatingSystem>
Agile e6.0.3	<eai.home>/install/plm60sp3/libs/<OperatingSystem>
Agile e6.0.4	<eai.home>/install/plm60sp4/libs/<OperatingSystem>

Please copy the file eipsync.dll (on Windows), libeipsync.sl (on HP-UX) or libeipsync.so (on other UNIX systems) to the directory <axalant_root>/bin/<OperatingSystem>.

You also need to modify the <environment>.edb file in order to load the library file above. Please insert the following lines:

```
[Modules\Custom\EipSync]
Name    = EIP Sync Connector
Library = eipsync
Startup = immediately
```

Note: Please make sure that you set the correct access rights and owner of the library file as otherwise Agile e6 might have problems loading the library (they must at least have execute rights for the Agile e6 process; see rights on other Agile e6 libraries).

Please see also the corresponding chapter in the “Administrator Manual”.

Chapter 10

Installing SAP Transport Files (SAP-Link)

The transport files are located in the sub-directory *install/sap_r3* of the installation environment of the Integration Platform. They must be imported into the SAP R/3 system: The transport order contains the development class /EIGNER/RFC.

Following RFC-Functions will be imported into your R/3 system:

/EIGNER/MATERIAL_DETAILS	Returns material detail data
/EIGNER/REV_LEVEL_MAINTAIN	Create a new material revision
/EIGNER/REV_LEVEL_SELECT	Returns the material revision
/EIGNER/WHERE_USED_MAT	Returns the Material Where-used list
/EIGNER/BOM_MULTI_EXPL	Returns the (multi-level) Material BOM
/EIGNER/COMPLETE_BOM_CHANGE	Updates a Material BOM by providing all positions
/EIGNER/BOM_ITEM_EFFECTIVITY	Creates and Updates a Material BOM by providing all positions incl. position effectivity
/EIGNER/MAT_DOC_LINKS	Creates and Updates Material – Document Links from the Material

Please copy the transport files into the respective transport directory of your SAP Server (e.g. /usr/sap/trans on UNIX) and load the files with the transport control tool “tp” into your SAP R/3 system. More information about the program “tp” can be found on the SAP Online Help CD under “Transport Tools (BC-CTS-TLS):

CD: SAP-Library -> Basis -> Change and Transport System -> Transport Tools.

Note: These RFC functions had been developed by Agile in order to provide interface functionality in R/3, which is missing in R/3 Version 4.6C. In case SAP will provide respective functionality in future releases of R/3, above functions will not be provided and maintained any longer.

Chapter 11

Preparations for SAP file check-in/out (SAP-Link)

The SAP Connector allows you to check in files into your SAP system. It therefore uses the program *sapftp* (*sapftp.exe* on Windows) in order to transfer the files to the SAP server. This program is normally part of a SAP-GUI installation.

If you do not have a SAPGUI installation for the required platform, you may download the latest version of *sapftp* at SAP's download page under http://service.sap.com/swdc (you will need your SAP customer or partner ID). In the navigation menu on the left please follow the link to the *sapftp* download:

Download → Support Packages and Patches → Search for Support Packages and Patches

Now enter "sapftp" into the search field and click on "Search". Then, download the file *SAPFTP.CAR* for your platform from the list. To extract the executable from this archive you also may need the program *sapcar*, which is available for download from this list, too.

If you want to use that check-in/check-out functionality of the SAP Connector, please copy the file *sapftp* to the directory <eai.home>/bin/<operating-system> of your installation and extend the PATH variable on the server to point to this directory.

The directory, which is used for file check-in/check-out, must be known by the Enterprise Integration Platform server.

If the files will be checked out via the BAPI BAPI_DOCUMENT_CHECKOUTVIEW2, the parameter ORIGINALPATH must point to an appropriate directory.

Chapter 12
Testing and Starting

For testing and starting the Enterprise Integration Platform, please refer to the chapter “Running the Enterprise Integration Platform” in the “Administrator Manual”.

Chapter 13

Starting as a Windows Service

The EIP Daemon is a Java Service Wrapper for Windows NT/2000. It may be used to start and stop the Enterprise Integration Platform from the Service Control Panel.

Prerequisites

The environment variables EAI_HOME and JAVA_HOME must be set!

Installation Steps

1. Run the script daemon.cmd from the bin directory with the argument “install” to install the service:

   bin\daemon.cmd install

   The service may be removed by calling the script with the argument “remove”.
2. Open Start -> Control Panel -> Administrative Tools -> Services and make sure that the service is running as the same user as the Agile e6 server instance (default is axalantrt).
3. You may now use the entry “EnterpriseIntegrationPlatform Daemon” to start or stop the Enterprise Integration Platform.

Troubleshooting

If the service does not start or terminates unexpectedly, you may check the additional log file *daemon.log* that is located in *logs*. It contains service internal messages and should be reviewed for daemon configuration problems.

Chapter 14

Starting as a UNIX Daemon

The EIP Daemon is a Java Daemon Wrapper for UNIX. It may be used to start and stop the Enterprise Integration Platform from the Service Control Panel.

Prerequisites

The environment variables EAI_HOME and JAVA_HOME must be set!

Installation Steps

1. Run the script daemon.sh from the bin directory with the argument “start” to install the service:

   ```
   bin/daemon.sh start
   ```

   The service may be stopped by calling the script with the argument “stop”.
2. Check if the daemon is running by calling:

   ```
   bin/daemon.sh status
   ```

Troubleshooting

If the service does not start or terminates unexpectedly, you may check the additional log file *daemon.log* that is located in *logs*. It contains service internal messages and should be reviewed for daemon configuration problems.