

TIBCO ActiveMatrix® Adapter Service Engine for Lotus Notes

Configuration and Deployment

Software Release 6.0

November 2009

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Preface

TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes provides two-way translation and communication between Lotus Notes database and the TIBCO environment. This manual describes configuration methods and deployment methods.

Topics

- [Related Documentation, page xii](#)
- [Typographical Conventions, page xiv](#)
- [Terminology and Acronyms, page xvi](#)
- [How to Contact TIBCO Support, page xvii](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Documentation

The following documents form the TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes documentation set:

- *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Concepts* Read this manual before reading any other book in the documentation set. This manual describes the adapter, adapter features, and the applications with which the adapter interacts.
- *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Installation* Read this manual for instructions on how to install and uninstall the adapter service engine on Windows and UNIX platforms.
- *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Configuration and Deployment* Read this manual to learn how to create and configure adapter projects. Information on deploying adapter projects is also included.
- *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Examples* Read this manual to work through the examples provided with the adapter service engine.
- *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Release Notes* Read the release notes for information about new features, changed features, and open and closed issues.

Before TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes can be installed and used, you must install the TIBCO ActiveMatrix Adapter for Lotus Notes. The following documents form the standalone adapter documentation set:

- *TIBCO ActiveMatrix Adapter for Lotus Notes Concepts* Read this manual before reading any other book in the documentation set. This manual describes the adapter, adapter features, and the applications with which the adapter interacts.
- *TIBCO ActiveMatrix Adapter for Lotus Notes Installation* Read this manual for instructions on how to install and uninstall the standalone adapter on Windows and UNIX platforms.
- *TIBCO ActiveMatrix Adapter for Lotus Notes Configuration and Deployment* Read this manual to learn how to create and configure standalone adapter projects. Information on deploying adapter projects is also included.

- *TIBCO ActiveMatrix Adapter for Lotus Notes Examples* Read this manual to work through the examples provided with the adapter.
- *TIBCO ActiveMatrix Adapter for Lotus Notes Release Notes* Read the release notes for information about new features, changed features, and open and closed issues.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products:

- TIBCO ActiveMatrix® Administrator
- TIBCO ActiveMatrix BusinessWorks™
- TIBCO ActiveMatrix BusinessWorks™ Service Engine
- TIBCO ActiveMatrix® Service Grid
- TIBCO ActiveMatrix® Service Bus
- TIBCO Business Studio™
- TIBCO Enterprise Message Service™
- TIBCO Hawk®
- TIBCO Rendezvous®
- TIBCO Runtime Agent™

Third-Party Documentation

You may also find it useful to read the following IBM Lotus Notes documentation:

- *Lotus Notes Help*
- *Lotus Domino Server Documentation*
- *Lotus Domino Designer Documentation*

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

| Convention | Use |
|---|---|
| <i>TIBCO_HOME</i> <i>ENV_HOME</i> <i>AMX_HOME</i> | <p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an installation environment. Incompatible products and multiple instances of the same product are installed into different installation environments. The directory into which such products are installed is referenced in documentation as <i>ENV_HOME</i>. The value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p> <p>TIBCO ActiveMatrix installs into a directory within <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>AMX_HOME</i>. The value of <i>AMX_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\amx\.</p> <p>TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes installs in a directory within <i>AMX_HOME</i>.</p> |
| code font | <p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p> |
| bold code font | <p>Bold code font is used in the following ways:</p> <p>In procedures, to indicate what a user types. For example: Type admin.</p> <p>In large code samples, to indicate the parts of the sample that are of particular interest.</p> <p>In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled:</p> <p>MyCommand [enable disable]</p> |
| <i>italic font</i> | <p>Italic font is used in the following ways:</p> <p>To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>.</p> <p>To introduce new terms For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal.</p> <p>To indicate a variable in a command or code syntax that you must replace. For example: MyCommand <i>PathName</i></p> |

Table 1 General Typographical Conventions (Cont'd)




| Convention | Use |
|---|---|
| Key combinations | Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C. Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q. |
|  | The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances. |
|  | The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result. |
|  | The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken. |

Table 2 Syntax Typographical Conventions

| Convention | Use |
|------------|--|
| [] | An optional item in a command or code syntax. For example: MyCommand [optional_parameter] required_parameter |
| | A logical OR that separates multiple items of which only one may be chosen. For example, you can select only one of the following parameters: MyCommand para1 param2 param3 |
| { } | A logical group of items in a command. Other syntax notations may appear within each logical group. For example, the following command requires two parameters, which can be either the pair param1 and param2, or the pair param3 and param4. MyCommand {param1 param2} {param3 param4} In the next example, the command requires two parameters. The first parameter can be either param1 or param2 and the second can be either param3 or param4: MyCommand {param1 param2} {param3 param4} In the next example, the command can accept either two or three parameters. The first parameter must be param1. You can optionally include param2 as the second parameter. And the last parameter is either param3 or param4. MyCommand param1 [param2] {param3 param4} |

Terminology and Acronyms

The following acronyms are used in this manual.

Table 3 Terminology and Acronyms

| Acronym | Meaning |
|----------|---|
| API | Application Programming Interface |
| dll | Dynamic Linked Library File on Windows |
| EMS | Enterprise Message Service |
| GUI | Graphical User Interface |
| Inbound | Events coming into the adapter. It refers to the inflow of data into the Lotus Notes application. It is applicable to Subscription and Request-Response services. |
| IOR | Interoperable Object Reference |
| JMS | Java Messaging Service |
| NSF | Notes Storage Facility (Lotus Notes Database Files) |
| Outbound | Events going out from the adapter. It refers to data being captured from the Lotus Notes application and being sent out. It is applicable to the Publication Service. |
| QoS | TIBCO Rendezvous quality of service |
| RPC | Remote Procedural Call |
| RV | Refers to TIBCO Rendezvous reliable message quality of service, as opposed to certified message |
| RVCM | Refers to TIBCO Rendezvous certified message quality of service |
| RVDQ | Refers to TIBCO Rendezvous distributed queue |
| VPD | Vital Product Database |

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows.

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:

<http://www.tibco.com/services/support>

- If you already have a valid maintenance or support contract, visit this site:

<https://support.tibco.com>

Entry to this site requires a user name and password. If you do not have a user name, you can request one.

Chapter 1 **Introduction**

This chapter provides an introduction to TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes (adapter service engine).

Topics

- [Overview, page 2](#)

Overview

TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes is a gateway for TIBCO ActiveMatrix Adapter for Lotus Notes to the Service Oriented Architecture (SOA) world. The TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes provides an ActiveMatrix container to deploy adapter projects using the TIBCO ActiveMatrix Administrator.

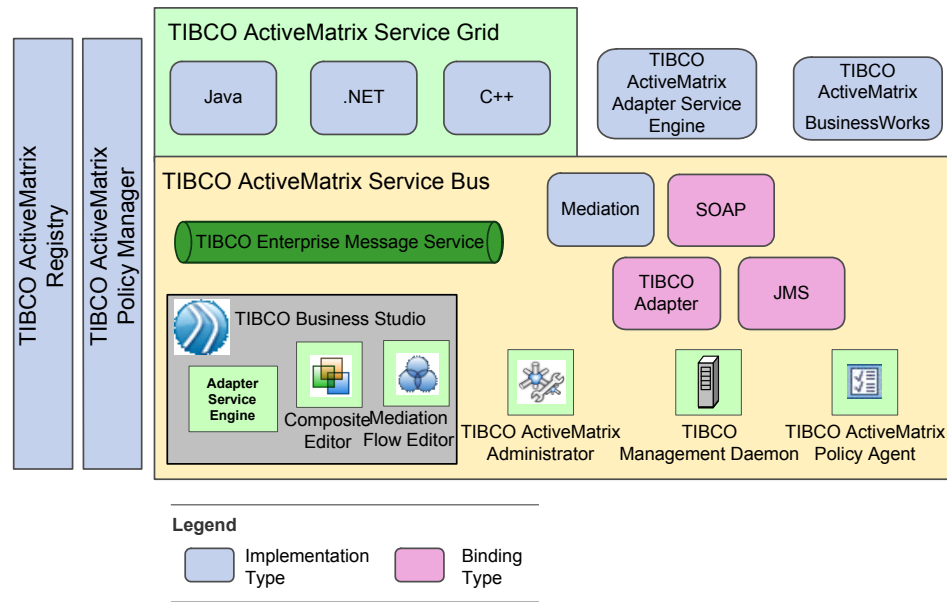
This manual describes the process of creating and configuring an adapter instance, packaging it into a service assembly and then deploying the services.

The design time tool is TIBCO Business Studio and the services are deployed using TIBCO ActiveMatrix Administrator.

Before proceeding, you should be familiar with the concepts and the terminology used by TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes and TIBCO ActiveMatrix platform.

Figure 1 shows the TIBCO ActiveMatrix product family.

Figure 1 TIBCO ActiveMatrix Product Family



Chapter 2

Working with TIBCO Business Studio

The TIBCO ActiveMatrix development tools consist of TIBCO Business Studio Workbench and a set of TIBCO ActiveMatrix plug-ins. This chapter describes how to start TIBCO Business Studio, create a new adapter project, and import projects and files into the project.

For information on TIBCO Business Studio, refer to the *Workbench User Guide* in the Workbench online help. To view the online help, select **Help > Help Contents**.

Topics

- [Starting TIBCO Business Studio, page 4](#)
- [Creating Adapter Projects, page 7](#)
- [Importing TIBCO Designer Projects, page 8](#)
- [Importing Projects into Workspace, page 10](#)

Starting TIBCO Business Studio



When you start TIBCO Business Studio for the first time after installing TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes, ensure that you use the `-clean` option.

To start TIBCO Business Studio:

1. Execute one of the following platform-specific command:
 - On Microsoft Windows:
select **Start > All Programs > TIBCO > TIBCO Business Studio 2.2 > TIBCO Business Studio**


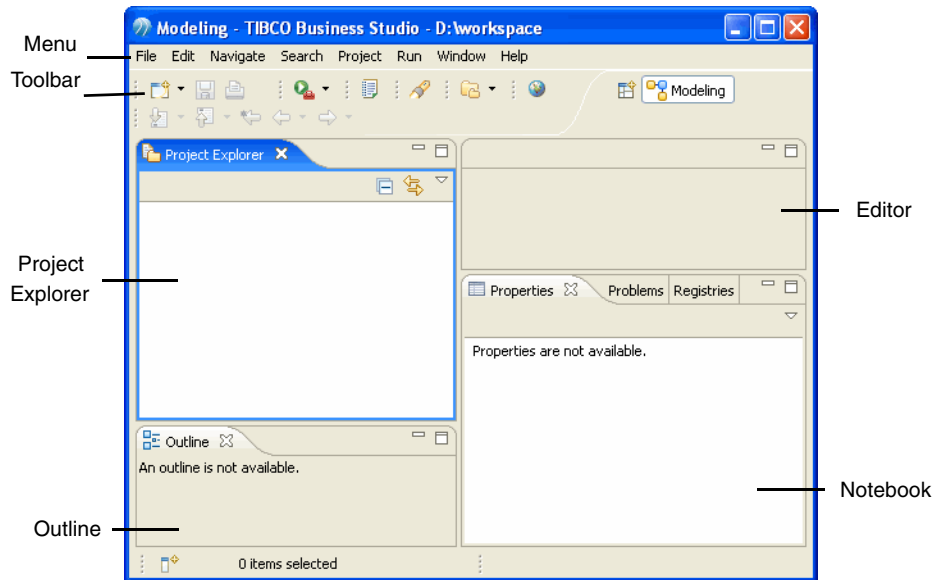
or
run the executable from the command line
`AMX_HOME\BusinessStudio\TIBCOBusinessStudio.exe`
 - On Unix:
run `AMX_HOME/BusinessStudio/TIBCOBusinessStudio`
2. In the Workspace Launcher, accept the default workspace or browse to or create a new workspace. Click **OK**.
3. The first time you run TIBCO Business Studio, it displays a Welcome screen. Dismiss the screen by clicking the **Close** button  in the title bar.

Figure 2 TIBCO Business Studio Main Window



The screen contains the following area and views:

Menu See Help > Help Contents > *Workbench User Guide*.

Toolbar See Help > Help Contents > *Workbench User Guide*.

Project Explorer Displays a tree containing all the project resources such as project folders, shared resource definition files, WSDL files, composite files, service assembly files, and so on.

Editor Displays editors for the objects currently being edited. Switch between editors by clicking tabs at the top of the Editor area. The Composite Editor contains a canvas on which you can drop elements and a palette that organizes the elements that you can add to the composite. Other editors allow you to configure shared resources and service assemblies.

Outline Provides an overview of the Composite Editor canvas. You can easily navigate from one part of a composite to another.

The Outline view also displays a content tree structure that contains the composite element inside the composite. In this view you can delete the contents of the composite. When you select a composite element in the Outline tree, the corresponding artifact in the composite becomes selected.

Views Displays under the Editor Area. Contains the following views:

- **Properties:** Displays property sheets for editing composites and composite elements. When you select a composite or composite element in the Composite Editor canvas, this view shows the properties of the selected object in a vertical tabbed notebook.
- **Problems:** Displays validation and other errors.
- **Registries:** Lists UDDI registries and the WSDL files returned from searching a registry.

You open a view by selecting **Window > Show View**.

Creating Adapter Projects

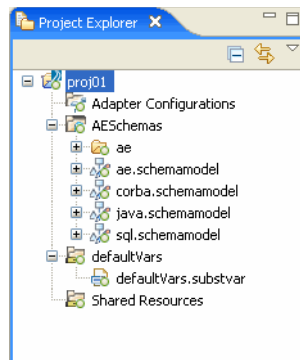
Adapter projects contain adapter service engine configurations, related shared resources and business functionality that needs to be enabled for the functioning of the adapter service engines. Adapter projects are created using TIBCO Business Studio. To begin the configuration process, you must first create a project for the adapter.

1. Start TIBCO Business Studio.
2. From the File menu, select **New > Project**.
3. In the New Project dialog, expand **TIBCO ActiveMatrix Adapters**, select **Adapter Project** as the wizard, and then click **Next**.
4. Type *AdapterProjectName* in the Project name field.
5. Specify names for folders.
 - To specify custom names for Adapter Configurations and Shared Resources folders, click **Next**.
 - To accept default values, click **Finish**.

A new project is created with the following folders: Adapter Configurations, AESchemas, defaultVars, and Shared Resources.

Figure 3 shows the structure of a project created using default values.

Figure 3 Create an Adapter Project



Global variables in TIBCO Designer are referred to as substitution variables in TIBCO Business Studio.

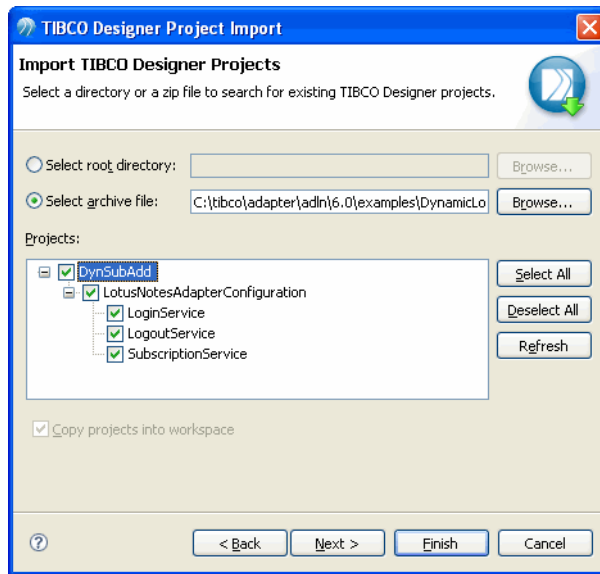
Importing TIBCO Designer Projects

Adapter projects created using TIBCO Designer for the standalone component, TIBCO ActiveMatrix Adapter for Lotus Notes, can also be imported into the TIBCO Business Studio environment.

To import a TIBCO Designer adapter project:

1. From the File menu, select **Import**.
2. In the Import dialog, select **TIBCO ActiveMatrix Adapter > Import TIBCO Designer Projects**. Click **Next**
3. Choose between **Select root directory** and **Select archive file**.
 - a. Click **Browse**.
 - b. Navigate to the folder where the Adapter project or the archive file is located.
 - c. Click **OK**.
4. In the Projects pane, select the checkbox for the project you want to import as well as the services contained in the project.

Figure 4 Import TIBCO Designer Project



The checkbox for the **Copy projects into workspace** is checked by default and the projects are copied to the current workspace.

5. Click **Finish**.

Differences in Imported Projects

When you import a TIBCO Designer adapter project, the following differences in the project and configuration should be noted:

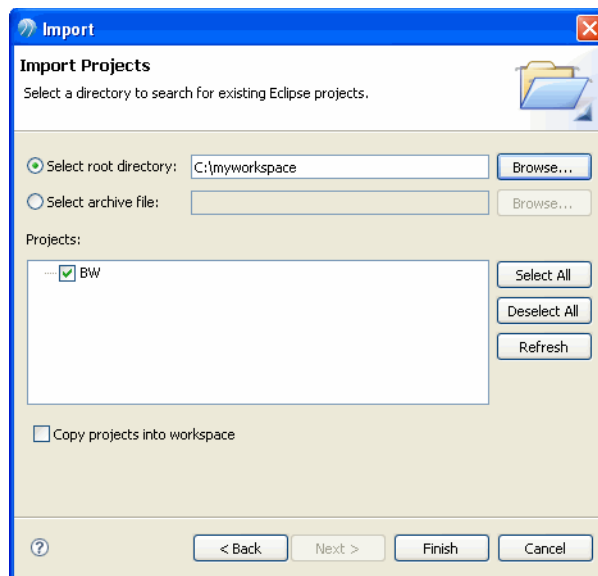
- The value of the Class MicroAgentName field (located in the WebSphereMQAdapterConfiguration->Monitoring tab in Designer) has been changed from `COM.TIBCO.adln.%%Deployment%%.%%InstanceId%%` to `COM.TIBCO.adln.%%Deployment%%.LotusNotesAdapterConfiguration`.
- The value of the Standard MicroAgentName field (located in the WebSphereMQAdapterConfiguration->Monitoring tab in Designer) has been changed from `COM.TIBCO.ADAPTER.adln.%%Deployment%%.%%InstanceId%%` to `COM.TIBCO.ADAPTER.adln.%%Deployment%%.LotusNotesAdapterConfiguration`.
- The following fields (features) are not imported:
 - Message Filter and version (in Configuration tab)
 - Termination Subject or Topic (in General tab)

Importing Projects into Workspace

To import projects created in another workspace to the current workspace:

1. From the File menu, select **Import**.
2. In the Import dialog, select **General > Existing Projects into Workspace**. Click **Next**.
3. Choose between **Select root directory** and **Select archive file**.
 - a. Click **Browse**.
 - b. Navigate to the folder where the Adapter project or the archive file is located. Click **OK**.
4. In the Projects pane, select the projects you want to import.

Figure 5 Import Projects Created in Another Workspace



5. Select the **Copy projects into workspace** checkbox if you want to copy files belonging to the project into the current workspace.
6. Click **Finish**.

Chapter 3 **Preparing Lotus Notes**

This chapter explains how to prepare the Lotus Notes components for use with the adapter.



Lotus Notes 7 is used in this book.

Topics

- [Setting Up Connections, page 12](#)
- [Configuring Databases, page 14](#)
- [Configuring Agents, page 15](#)
- [Managing Lotus Notes Documents, page 20](#)

Setting Up Connections

Depending on the location of the database which maintains the documents to be manipulated, you need set up different types of connections.

Setting Up Remote Connection

To access a remote database, set up a remote connection:

1. Start Lotus Domino Server.
2. Enable the HTTP service and DIIOP service on the server.

The HTTP service is used to get the IOR file from the Lotus Domino Server. The DIIOP service is used to establish the session for the adapter and the Domino server to interact. See *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Concepts* for more information about session establishment.

If you haven't set to start the HTTP service and DIIOP service automatically when installing Lotus Domino, enter the following commands at the Lotus Domino Server console:

```
> load http
> load diiop
```

If the Bypass HTTP Service of Domino checkbox is selected when configuring the adapter instance, you need not start the HTTP service.

See [Setting Up Remote Connection on page 46](#) for instructions on how to configure the connection for the adapter instance.

3. (optional) To secure the connection between the adapter and the remote Lotus Domino Server, you can configure SSL for HTTP and DIIOP.
 - a. Configure SSL for HTTP and DIIOP on Lotus Domino applications.



It is strongly recommended that you refer to the Lotus Domino Administrator documentation for instructions on how to configure SSL for HTTP and DIIOP on Lotus Domino applications. [Appendix B, Configuring SSL for HTTP and DIIOP, on page 227](#) in this book should be used only as a quick reference.

- b. After completing the configuration tasks for the Lotus Domino applications, you need to add the path of the `TrustedCerts.class` file to the `tibco.env.CUSTOM_CP_EXT` variable in the `adln.tra` file. The `adln.tra` file is located in the `ADLN_HOME\bin` directory.

See [Setting Up SSL Connection on page 47](#) for instructions on how to configure the connection for the adapter instance.

Setting Up Local Connection

To access a local database, set up a local connection:

1. Add the Domino home or Notes home directory to the environment variable. This step is for the design-time connection.

For example, on Windows platforms add the directory `C:/Program Files/IBM/Lotus/Domino` or `C:/Program Files/IBM/Lotus/Notes` to the environment variable `Path`.

2. Add the Domino home or Notes home directory to the variable `tibco.env.CUSTOM_PATH` in the `adln.tra` file. This step is for the runtime connection.

For example, on Windows platforms add the directory `C:/Program Files/IBM/Lotus/Domino` or `C:/Program Files/IBM/Lotus/Notes`.

Ensure that the directories added are for the same version as that of the `.jar` files that you specified during the installation of the adapter.

Ensure that the local `.nsf` file is in the data subdirectory within the home directory of either Lotus Domino Server or Lotus Notes. Otherwise, the `.nsf` file can only be accessed exclusively.



To set up a local connection with Lotus Domino R8 (8.0, 8.0.x, 8.5), you need add the following directories to the variable `tibco.env.CUSTOM_CP_EXT` in the `adln.tra` file.

```
<Notes/Domino Home>/jvm/lib
<Notes/Domino Home>/jvm/lib/ext
```

See [Setting Up Local Connection on page 52](#) for instructions on how to configure the connection for the adapter instance.

Configuring Databases

The adapter installation package provides three sample databases, namely `sample.nsf`, `source.nsf`, and `target.nsf`. You can find these files in the `ADLN_HOME\examples\Lotusdatabase` directory. You can also create your own databases.

Task A Open a Database

1. Start Lotus Notes.
2. Open an existing database or create your own database.



To interact with a remote Lotus Domino Server, ensure that the database file has been uploaded to the remote server.

Task B Enable a Database as a TIBCO-enabled Database

If you create a new database, you need copy forms and views to enable the newly created database as a TIBCO-enabled database.

1. In Lotus Domino Designer, select a sample database in the Applications panel. For example, `sample.nsf`.
2. Expand the **Forms** folder under the `SAMPLE` application, import forms by copying the following item to the Forms folder of your database:

Outbox, TIB Adapter Setup Form, TIB Client Request Form, TIB Client Request Processing, TIB Publisher Event Form, and Request Response Invocation Form.

3. Expand the **Views** folder under the `SAMPLE` application, import forms by copying the following item to the Views folder of your database:

Request Response Invocation View
 TIB Administration\1. Setup View
 TIB Administration\2. Events View
 TIB Administration\3. Publishing Status
 TIB Administration\4. Unpublished
 TIB Administration\5. Defined Client Requests
 TIB Administration\6. Client Requests Processing



It is recommended that you copy forms from the sample databases shipped with the adapter and then add fields according to your requirements. All the inherited fields should be kept intact.

Configuring Agents



This section is only for the Publication Service and Request-Response Invocation Service.

Agents are used to trigger the Publication Service and Request-Response Invocation Service.

Creating and Configuring Agents

To configure agents for the adapter services, complete the following tasks.

Task A Create an Agent

1. Start Lotus Domino Designer.
2. Select **Design > Agent** from the Create menu.
3. In the Agent dialog, enter a name for the agent. For example, agentForReview1. Specify values according to the requirements.

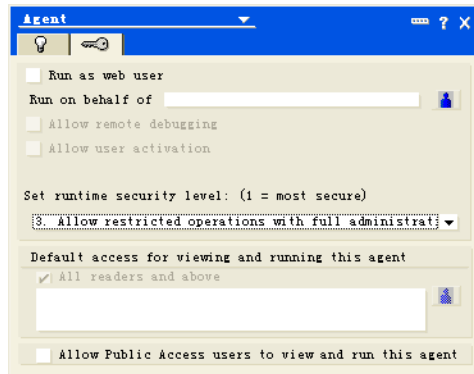
Figure 6 Create an Agent

4. Click the **Security** tab, set the runtime security level if necessary.



If you selected the Log to file checkbox or the Log to Database checkbox in the Setup Document of the database, you must set the runtime security level to 3. Allow restricted operations with full administration.

Figure 7 Set Runtime Security Level



Task B Import Agent Classes Files

1. In the tab of the newly created agent, select **Imported Java** from the drop-down list.
2. Click the **Import Class Files** button.
3. In the Define Java Agent Files dialog, select the appropriate class file for your adapter service.

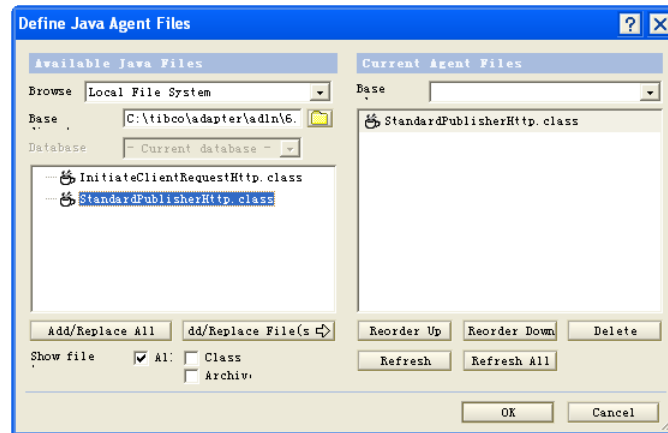
Agent class files are maintained in the `ADLN_HOME/lib/agents` directory:

`ADLN_HOME/lib/agents/HTTP`
`ADLN_HOME/lib/agents/POLLING`
`ADLN_HOME/lib/agents/RV/RV_agents`

See *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Concepts* for more information about the Lotus Notes Agents class files.

4. Click the **Add/Replace File(s)** button or double-click the class file to add it.
 Include one class file for each agent.

Figure 8 Import Agent Class File



5. Click **OK**.
6. Repeat the steps above for each agent to be added.

Task C Set Document Selection Condition

To improve the efficiency of agents, you can add conditions to filter the documents. This task is optional.

1. In the Document Selection panel of the agent, click the **Add Condition** button.
2. In the Add Condition dialog, select a condition from the Condition drop-down list, and then specify more detailed terms to find documents.

There are several kinds of conditions that you can select from the drop-down list, such as By author, By date, By field, By form, etc. Multiple conditions can be added for one agent.

- For an HTTP agent that is created for Request-Response Invocation Service to process documents with their Status fields marked as UnProcessed, you need to add the following conditions:

field Status contains 'UnProcessed' AND uses 'Request Response Invocation Form' form

- If you want the HTTP agent to process all documents in the Request Response Invocation View regardless of their status fields, you need only to add the following condition:

uses 'Request Response Invocation Form' form

Figure 9 Add Condition by Field

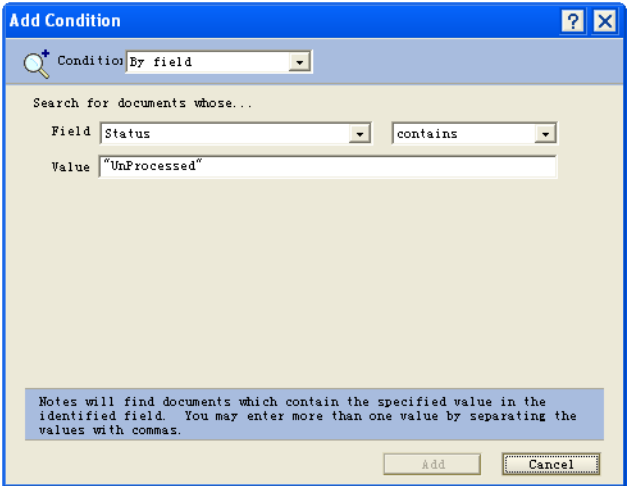
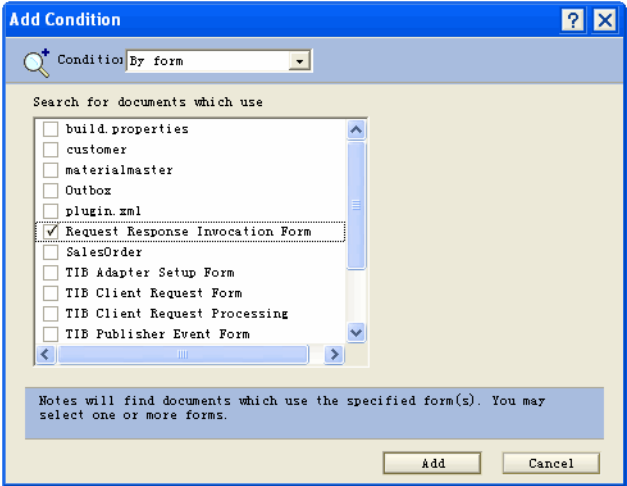


Figure 10 Add Condition by Form



Setting Up RV Agents



To use the RV agents, perform the configurations discussed in this section.

1. Create a folder named `rv_agents` inside *Notes_Installation_Home*.
2. Copy the `SendRvMsgPub.class` and `SendRvMsgInitClient.class` from *ADLN_HOME/lib/agents/RV/rv_agents* to *Notes_Installation_Home/rv_agents*.
3. Copy the Windows batch files `RvPub.bat` and `RvInitClient.bat` from *ADLN_HOME/lib/agents/RV/rv_batchfiles* to *Notes_Installation_Home*.



The batch files and `rv_agents` directory can be in other locations. Ensure that the batch files are in the same folder with the `rv_agents` directory.

Rename the batch files only when the full path and file names are specified to for RV Batch File for Publish or RV Batch File for RPC in the Setup document. The directory name `rv_agents` cannot be changed.

Ensure that the configuration in the batch files is consistent with the application environment.

4. In the batch files, specify the values for `NOTES_INSTALLATION_HOME`, `TIBCO_HOME`, and for the connection parameters `NOTES_JAR_LOCATION`, `NCSO_JAR_LOCATION`, `DOMINO_HOST`, `DB_NAME`, `DB_USERNAME`, and `DB_PASSWORD`.



The arguments that are passed to the Java command in the Windows batch files are for remote connections to the Lotus Notes database. For a local connection, the `-database` argument is sufficient.

Managing Lotus Notes Documents

In addition to the general documents that are used to hold the data, a TIBCO-enabled Lotus Notes Database provides administration documents to facilitate the data manipulation. This section describes how to work with the Lotus Notes Administration documents.

Lotus Notes Administration Documents

Every TIBCO-enabled Lotus Notes database that you create *must* include all the Lotus Notes administration documents.

Documents for TIBCO-enabled Lotus Notes databases are created based on the forms inherited from the TIBCO-enabled database template. The TIBCO-enabled database template also includes one instance of each document. The sample documents contain default data that is needed to set up and test a TIBCO-enabled database. Documents that are created based on the forms do not contain default data. Ensure that every new TIBCO-enabled database copies these documents from the templates.

The databases may contain other forms and you can also customize the standard TIBCO forms, but they *must* include the fields from the original forms.

Each document consists of a set of fields. For many of the fields, a corresponding repository object is listed. If changes are made to the field values, the corresponding repository object values *must* be modified. Additionally, the field values *must* be set to the same value as the corresponding repository object.

Setup Document

The Setup document is used by the publishing mechanism of the Publication Service and Request-Response Invocation Service. The Lotus Notes agents use the Setup document to establish a TIBCO Rendezvous or JMS session.

Creating a Setup Document

To create a Setup document:

1. Start Lotus Notes and open a TIBCO-enabled database.
2. From the Create menu, select **TIB Adapter Setup Form**.
3. Set the values according to your application requirements.

Figure 11 Setup Document

| Setup Document | |
|---|-----------------------------|
| Queue Db Server | |
| Queue Db Path | sample.nsf |
| <input checked="" type="checkbox"/> Log to file | Log File Path: c:\tibco |
| <input type="checkbox"/> Log to Database | Server : Database Name : |
| Host Name | mngktrd09 |
| Port Number | 8081 |
| Publish Subject | trigger_pub |
| Publish Network | |
| Publish Service | |
| Publish Daemon | |
| Batch Size Handler for Publish | |
| RV Batch File for Publish | |
| RV Batch File for RPC | |

4. Save the configuration.

Table 4 lists the fields in the setup document.

Table 4 Fields in Setup Document

| Field Name | Description |
|---------------------------------|---|
| Queue Db Server | Host name or IP address of the Domino server. |
| Queue Db Path | Name of the database. |
| Log to file (Log File Path) | The path where the agent log files are created. User can select either or both options to maintain the log files. |
| Log to Database (Server) | Name of the server which hosts the database that contains log files. User can select either or both options to maintain the log files. |
| Log to Database (Database Name) | The name of the .nsf file where the agent logs should be created. The .nsf file specified should have the Log Entry form and the Agent Activity View of the StdR4AgentLog template (ALOG4.NTF) copied into it. User can select either or both options to maintain the log files. |
| Host Name | The host where the adapter is running. |

Table 4 Fields in Setup Document (Cont'd)

| Field Name | Description |
|--------------------------------|--|
| Port Number | <p>A unique number that is configured in the adapter instance.</p> <p>The HTTP port on which the adapter service listens to the Lotus Notes agent.</p> <p>Applies to Publication Service and Request-Response Invocation Service for which triggers are configured and when HTTP are used as the transport type.</p> <p>The value of this field must be the same as that of the Http Port to Listen to LotusNotes Events field in the Adapter Services tab of an adapter instance.</p> |
| Publish Subject | <p>Subject used by the Lotus Notes agent to send a message to the adapter. This notifies the adapter of a Publish transaction.</p> <p>Applies to Publication Service and Request-Response Invocation Service for which triggers are configured and when Rendezvous is used as the transport type.</p> <p>The value of this field should be the same as that of the Subject to Listen to LotusNotes Events field in the Adapter Services tab of an adapter instance.</p> |
| Publish Network | <p>TIBCO Rendezvous session parameter. Allows the user to publish on a different subnet.</p> <p>Applies to the Publication Service and Request-Response Invocation Service.</p> |
| Publish Service | <p>TIBCO Rendezvous session parameter. Allows the user to publish on a different subnet.</p> <p>Applies to the Publication Service and Request-Response Invocation Service.</p> |
| Publish Daemon | <p>TIBCO Rendezvous session parameter. Allows the user to publish on a different subnet.</p> <p>Applies to the Publication Service and Request-Response Invocation Service.</p> |
| Batch Size Handler for Publish | <p>The number of documents to be processed by Standard Publisher (RV agent and HTTP agent) in batch.</p> <p>The default value is 2000. The maximum allowed value is 5000. If the value is set to -1, the documents wouldn't be processed in batch.</p> |
| RV Batch File for Publish | <p>The batch file name. The RV agent calls the batch file which is used to run <code>SendRvPub.class</code>. The name can be specified for use by different databases. Specify the full path name for this field.</p> |
| RV Batch File for RPC | <p>The batch file name. The RV agent calls the batch file which is used to run <code>SendRvMsgInitClient.class</code>. The name can be specified for use by different databases.</p> |

Maintaining the Setup Document

Once created, the Setup document appears in TIB Administration\1. Setup View. You can double-click the document to modify it at a later time.

Event Setup Document

Event Setup document is only used by the Publication Service. An Event Setup document defines the conditions that a document must meet in order to be processed, and how the document is copied to the Publishing Status view.

Because they are started for publishing transactions, the Lotus Notes agents read data from the document. The document *must* match the formula defined in an event setup document before the publishing transaction can be initiated.

One form can be attached to multiple events, however each event *must* have a unique event name to ensure that there is no ambiguity about which event is to be applied.

Creating an Event Setup Document

To create an event setup document:

1. Start Lotus Notes and open a TIBCO-enabled database.
2. From the Create menu, select **TIB Publisher Event Form**.
3. Set the values according to your application requirements.

Figure 12 Event Setup Document

| EVENT SETUP DOCUMENT | |
|----------------------|--|
| Event Name | customer |
| Host Name | |
| Port Number | |
| Override Subject | |
| Override Network | |
| Override Service | |
| Override Daemon | |
| Formula | Form="customer" |
| Queuing Method | Copy by Value Copy by Document UNID |

Specify values for the fields of Event Name, Host Name, Port Number, Override Subject, and Formula. Leave the other fields unchanged.

4. Save the configuration.

Table 5 lists the fields in the event setup document.

Table 5 Fields in Events View

| Field Name | Description |
|--|--|
| Event Name | <p>A unique name that should match the schema name in the repository.</p> <p>For the Publication Service, ensure that the Event Name matches the part after the dot. For example, if the value of the Class Reference field under the Schema tab in TIBCO Designer is <code>/AESchemas/ae/lotusnotes/lnmetadata.aeschema#class.customer</code>, then the Event Name should be <code>customer</code>.</p> |
| Host Name | <p>The host name on which the adapter is running. It has higher priority than the host name in the Setup Document.</p> <p>The combination of Host Name and Port Number for an event setup document must be unique in its database.</p> |
| Port Number | <p>A port number that is configured in the adapter instance. It has higher priority than the port number in the Setup Document.</p> <p>The combination of Host Name and Port Number for an event setup document must be unique in its database.</p> |
| Override Subject | <p>Notify the adapter configuration of the published data. This is only used when the publish over-ride agent is started, rather than taking the subject from the XML file. It has higher priority than the override subject in the Setup Document.</p> |
| Override Network | <p>The network parameter of the TIBCO Rendezvous transport. It has higher priority than the override network in the Setup Document.</p> |
| Override Service | <p>The service parameter of the TIBCO Rendezvous transport. It has higher priority than the override service in the Setup Document.</p> |
| Override Daemon | <p>The daemon parameter of the TIBCO Rendezvous transport. It has higher priority than the override daemon of the Setup View.</p> |
| Formula | <p>An event-specific Lotus formula which defines the conditions that a document must meet in order to be published.</p> <p>For example:</p> <pre>Form = "Customer" & Status = "MetaAddAttachmentsByValue" & rv_operation = "Add"</pre> |
| Queuing Method (Copy by Value) | <p>Copies the contents of the document to the outbox document.</p> |
| Queuing Method (Copy by Document UNID) | <p>Only copies the universal ID of a document to the outbox document.</p> |

Maintaining the Event Setup Document

Once created, the event setup document appears in TIB Administration\2. Events View. You can double-click the document to modify it at a later time.

Client Requests Document

The Client Requests document is used only for the Request-Response Invocation Service. The Request-Response Invocation View form in the sample.nsf file is a client-request-enabled form.

The TIB InitiateClientRequest agent is run against a client-request-enabled document. When the agent is invoked against one of these documents, it creates a Client Request Processing Document which is used by the adapter to process the client request. This kind of document is only used by the TIB InitiateClientRequest agent.

Creating a Client Requests Document

To create a client requests document:

1. Start Lotus Notes and open a TIBCO-enabled database.
2. From the Create menu, select **TIB Client Request Form**.
3. Set the values according to your application requirements. You can configure different RV parameters for different events which serve different services in the adapter.

Figure 13 Client Requests Document

| | |
|--|--|
| <u>Request Name</u> | RequestResponseInvocationService |
| <u>Class Name</u> | LOTUS_NOTES_RPC |
| <u>Operation Name</u> | RequestReplyOperations |
| <u>Host Name</u> | |
| <u>Port Number</u> | |
| <u>Override Subject</u> | |
| <u>Override Network</u> | |
| <u>Override Service</u> | |
| <u>Override Daemon</u> | |
| <u>Client Name</u> | RequestResponseInvocationServiceEndPoint |
| <u>Operation Timeout</u> | 10000 ms |
| <u>Operation Type</u> | synchronous |
| <u>Mapping Operation Parameters to the Lotus Document Fields</u> | |
| <u>Operation Parameters</u> | <u>Document Fields</u> |
| parml | Form |
| requestedField | rv_RequestedFields |
| operationType | operationType |
| formula | formula |
| view | ViewName |
| agentName | agentName |
| exitName | exitName |
| ftSearchParameters | parameters |

4. Save the configuration.

Table 6 lists the fields of the Defined Client Requests Document.

Table 6 Fields in Defined Client Requests Document

| Field | Description |
|-------------------|---|
| Request Name | <p>The unique identifier of the Client Request Name. This field is used to match the document of the Request Response Invocation View.</p> <p>To serve a Request-Response Invocation Service, the value of this field must be the same as the service name specified in TIBCO Designer.</p> |
| Class Name | The name of the meta data class that is associated with the request. This class <i>must</i> be defined in the Class Reference field in the Schema tab of the adapter service. |
| Operation Name | Name of the operation which belongs to the meta data class defined in the Class Name field. |
| Host Name | Name of the machine which hosts the adapter. |
| Port Number | HTTP port number. |
| Override Subject | <p>Used by the RV agent to identify the subject for Rendezvous transport. Override Subject has higher priority than Publish Subject in the Setup View.</p> <p>The RV agent first looks at the documents in the Defined Client Request View. If the RV parameter is configured, then the agent simply uses them. Otherwise, use the RV parameter configured in the document of the Setup view.</p> |
| Override Network | The network parameter of the TIBCO Rendezvous transport. It has higher priority than the override network of the Setup View. |
| Override Service | The service parameter of the TIBCO Rendezvous transport. It has higher priority than the override service of the Setup View. |
| Override Daemon | The daemon parameter of the TIBCO Rendezvous transport. It has higher priority than the override daemon of the Setup View. |
| Client Name | <p>The name of the SDK client that is to be used internally by this client request. This client object <i>must</i> be defined in the Configuration Data associated with the adapter.</p> <p>The format of a Client Name is the Request Name of the same document appended with the string <code>Endpoint</code>. For example, if the Request Name is <code>RPCC</code>, then the Client Name should be <code>RPCCEndpoint</code>.</p> |
| Operation Timeout | The value in milliseconds for which the synchronous client request will wait for the response of the request. If this response does not come within this time limit, the entire operation will time out. |
| Operation Type | Valid operation type is synchronous. |

Table 6 Fields in Defined Client Requests Document (Cont'd)

| Field | Description |
|----------------------|---|
| CorrespondingForm | Refers to the Request-Response Invocation Form. |
| Operation Parameters | <p>Parameters that are defined in the metadata object. The values are given to this field as part of the operation definition. The logic is such that the value field <i>must</i> have valid parameters of the document fields associated with the parameters of the operation object containing the operation.</p> <p>For example, parm1 and requestedField are attributes of RequestReplyOperations in the LOTUS_NOTES_RPC class. Use TIBCO Designer to access it in the following location: AESchemas/ae/lotusnotes/replymetadata/Classes.</p> <p>If one of the document fields is not really part of the document or is part of the document but does not contain a value, then the value ^NO_VALUE^ will be given to the parameter and it will not be used in initiating the internal request.</p> |
| Document Fields | <p>This field is related to the OperationParameters field.</p> <p>For example, the RequestedFields attribute of the Request-Response Invocation View form has been mapped to requestedField of RequestReplyOperations in the LOTUS_NOTES_RPC class. Use TIBCO Designer to access it in the following location: AESchemas/ae/lotusnotes/replymetadata/Classes.</p> |

Maintaining the Client Requests Document

Once created, the client requests document appears in TIB Administration\5. Defined Client Requests. You can double-click the document to modify it at a later time.

Request Response Invocation Document

The Request Response Invocation document is used to initiate a client request for Request-Response Invocation Service.

Creating a Request Response Invocation Document

To create a Request Response Invocation document:

1. Start Lotus Notes and open a TIBCO-enabled database.
2. From the Create menu, select **Request Response Invocation Form**.
3. Set the values according to your application requirements. You can configure different RV parameters for different events which serve different services in the adapter.

Figure 14 Request Response Invocation Document

The fields below are used to initiate a client request. It contains a request name that has been defined as a client request form document.

| | |
|-----------------------------|--|
| <u>Request Name</u> | RequestResponseInvocationService |
| <u>Operation Type</u> | RunAgent |
| <u>Formula</u> | |
| <u>Parameters</u> | |
| <u>Agent Name</u> | agent1 |
| <u>View Name</u> | |
| <u>Exit Name</u> | |
| <u>Result Policy</u> | <input checked="" type="checkbox"/> Customized |
| <u>Result Form Priority</u> | <input checked="" type="radio"/> Client <input type="radio"/> Server |
| <u>Result Form</u> | form1 |
| <u>Requested Fields</u> | |
| <u>Status</u> | UnProcessed |

The query results are displayed in the Return Data.

If the Result Policy is set to customized, all the query result will be converted to a string and put into the Return Data. Otherwise, all the query result will be converted to documents that has a specific form name, and these documents' universal ID and there form name will be put into the Return Data

| | |
|-----------------------|--|
| <u>Return Value</u> | |
| <u>Return Data</u> | |
| <u>Exception Name</u> | |
| <u>Exception Data</u> | |

Table 7 lists the fields of the Request Response Invocation document.

Table 7 Fields in Request Response Invocation Document

| Field | Description |
|----------------|--|
| Request Name | Name of request. |
| Operation Type | The type of query operation. Valid values can be Query, View, FTSearch, and RunAgent. When communicating with a Request-Response Service whose operation type is query, specify detailed query information with this option. |
| Formula | Query by formula. If the value of the Operation Type field is set to query, a Lotus formula needs to be specified in this field. See Guidelines for Using Formula on page 29 . |
| Parameters | Full text search. If the value of the Operation Type field is set to FTSearch, a parameter has to be specified in this field. See Guidelines for Setting FTSearch Parameters on page 30 |

Table 7 Fields in Request Response Invocation Document (Cont'd)

| Field | Description |
|----------------------|---|
| Agent Name | Invokes a predefined agent to perform the query. If the value of the Operation Type field is set to RunAgent, an agent name has to be specified in this field. The agent specified here must have a Target setting other than All selected documents when created in Lotus Domino Designer. |
| View Name | Query by view. If the value of the Operation Type is set to View, a view name needs to be specified in this field. With this option, all documents in the specified view will be returned. |
| Result Policy | Specifies whether the query result should be customized to be stored into different documents. |
| Result Form Priority | Selects either of Client or Server has higher priority to determine the form of the result document. |
| Result Form | Indicates which form will be used to contain the result. It takes effect at runtime if the Result Form Priority is set to be Client. |
| Requested Fields | The field name of which the user requested will be listed here. |
| Status | Indicates the status of the request. Valid statuses include Unprocessed, Processed, Exception, and Timed Out. When a document is first created, the status is set to Unprocessed. Only Unprocessed documents will be executed when an agent is run. |
| Return Value | The return value of the RPC operation. The structure of the return value is defined in the meta-class definition that is associated with this client request. |
| Return Data | The return data of the RPC operation. The structure of the return data is defined in the meta-class definition that is associated with this client request. |
| Exception Name | The exception name of the RPC operation, if any. The structure of the exception is defined in the meta-class definition that is associated with this client request. |
| Exception Data | The return value of the RPC operation. The structure of the exception is defined in the meta-class definition that is associated with this client request. |

Guidelines for Using Formula

TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes supports the formula language.

For example,

- to search for documents in the form named `test`, enter `Form="test"` in the Formula field.
- to search for documents in the form named `customer` and have the key field `customertype` set to `type3`, enter `Form="customer"&customertype="type3"` in the Formula Field.

For more information about how to use the formula language, refer to the Lotus Domino Designer documentation.

Guidelines for Setting FTSearch Parameters



Refer to the Lotus Notes documentation for more information about the syntax of the FTSearch parameters.

When setting the FTSearch parameters, follow the method syntax described below:

- *queryStr*

where *queryStr* is a string that defines the full-text query

- The character `\` is defined as the escape mark.
- The characters `*` and `?` are defined as the wildcards.
- To search strings that include the characters `{, }, (,), &, [,], |, !, :, ', ;, <, >`, enclose the query string in double-quotes.
- To search strings that include the characters `*`, `?`, or double-quotes, use `|` as the escape mark in the query string.
- To search strings that include commas or slashes, use `\` as the escape mark in the query string.

For example,

- to search for fields that contain a plain string `TIBexampleTIB`, enter `TIBexampleTIB` in the Parameters field.
- to search for fields that contain string `{ }TIB(example&TIB[]`, enter `"{ }TIB(example&TIB[]"` in the Parameters Field.
- to search for fields that contain string `TIB"exa*ple?TIB`, enter `TIB| "exa| *ple| ?TIB` in the Parameters Field.
- to search for fields that contain string `TIB,example\TIB`, enter `TIB\,example\\TIB` in the Parameters Field.

- *queryStr, max*

where:

- *queryStr* is a string that defines the full-text query
- *max* is an integer that indicates the maximum number of documents to be returned from the query. Set *max* to 0 to receive all matching documents.

For example, to returned the first five documents which contain string `TIBexampleTIB`, enter `TIBexampleTIB, 5` in the Parameters Field.

- *queryStr, max, sortopt, otheropt*

where:

- *queryStr* is a string that defines the full-text query
- *max* is an integer that specifies the maximum number of documents to be returned from the query. Set *max* to 0 to receive all matching documents.
- *sortopt* is an integer that specifies a sorting option. Refer to the Lotus Domino Designer documentation for details about this option.
- *otheropt* is an integer that specifies additional search options. Refer to the Lotus Domino Designer documentation for details about this option.

For example, to use fuzzy search (`FT_FUZZY`) to return the first five documents that contain string `TIBexampleTIB` and the returned documents are sorted by creation date in descending order (`FT_DATECREATED_DES`), enter `TIBexampleTIB, 5, 1542, 16384` in the Parameters Field.

Maintaining the Request Response Invocation Document

Once created, the Request Response Invocation document appears in the Request Response Invocation View. You can double-click the document to modify it at a later time.

Customizing Views for the Request Response Invocation Documents

You can define different views to manipulate the Request Response Invocation Documents.

For example, create views for each operation type.

1. In Lotus Notes, select **Create > View**.
2. Enter the view name and specify the View type as Shared.
3. In the Selection Conditions section, select the **By Formula** radio button.
4. In the Select Conditions text box, type **SELECT Form="Request Response Invocation Form" & operationType="1"**. This selection condition ensures

that the view connects to the Request Response Invocation Form. Leave other fields unchanged.

5. Click **OK**.
6. Repeat the steps above to create views for other operation types. Change the value of the `operationType` in the Select Conditions text box accordingly.

Client Requests Processing View

This view lists the requests that are currently in process and are being processed by the adapter client configuration or that have already been processed by the adapter client configuration.

Documents listed in this view are created by the TIB `InitiateClientRequest` agent, which is used in conjunction with the adapter configuration to process the client request that has been initiated by the user agent.

Once the client request has been processed by the adapter configuration, the status field and response-related fields of the document are manipulated. The form for this view should contain the fields in the Defined Client Requests document in addition to the fields defined in [Table 8](#).

When the adapter configuration completes the client request, the values of the status field and the response field change accordingly.

Figure 15 Client Requests Processing Document

| | |
|--|---|
| <u>Request Name</u> | RequestResponseInvocationService |
| <u>Class Name</u> | LOTUS_NOTES_RPC |
| <u>Operation Name</u> | RequestReplyOperations |
| <u>Client Name</u> | RequestResponseInvocationServiceEndPoint |
| <u>Operation Timeout</u> | 100000ms |
| <u>Operation Type</u> | synchronous |
| Mapping Operation Parameters to the Lotus Document Fields | |
| <u>Operation Parameters</u> | <u>Document Fields</u> |
| parml | Form |
| requestedField | rv_RequestedFields |
| operationType | operationType |
| formula | formula |
| view | ViewName |
| agentName | agentName |
| exitName | exitName |
| ftSearchParameters | parameters |
| <u>Related Document ID</u> | 5E2F8D36C46C174165256D6B0033890D |
| <u>Time Initiated</u> | 2009-03-27 03:20:42 |
| <u>Time Completed</u> | 2009-03-27 15:22:24 |
| <u>Status</u> | Exception |
| RESULTS | |
| <u>Return Value</u> | |
| <u>Return Data</u> | |
| <u>Exception Name</u> | class com.tibco.sdk.MTimeoutException |
| <u>Exception Data</u> | "Operation error: failed to get response within the specified time (100000)." |

Table 8 Fields in Client Requests Processing Document

| Field | Description |
|---------------------|--|
| Related Document ID | The document ID of the original document that the agent was run against. |
| Time Initiated | Time at which the client request was initiated. |
| Time Completed | Time at which the client request was completed. |
| Status | Valid statuses are as follows: Unprocessed, Processed, Exception, and TimedOut. When the document is first created, the status is set to Unprocessed. |
| Return Value | The return value of the RPC operation. The structure of the return value is defined in the meta-class definition that is associated with this client request. |
| Return Data | The return data of the RPC operation. The structure of the return data is defined in the meta-class definition that is associated with this client request. |





Table 8 Fields in Client Requests Processing Document (Cont'd)

| Field | Description |
|----------------|---|
| Exception Name | The exception name of the RPC operation, if any. The structure of the exception is defined in the meta-class definition that is associated with this client request. |
| Exception Data | The return value of the RPC operation. The structure of the exception is defined in the meta-class definition that is associated with this client request. |

Publishing Status View

The Publishing Status view lists all publishing transactions. It indicates the document ID which is to be published and the publishing status of the document.

The status flags available are as follows:

- UnPublished  —Indicates that the document has been moved to the outbox by the Publisher agent and has not yet been taken for publishing by the adapter.
- Picked up for Publication  —Indicates that the document has been taken up by the adapter for processing.
- Published Successfully  —Indicates that the document has been published successfully.
- Picked up but Failed to Publish  —Indicates that the document was picked up by the publisher but failed to publish.

Double-click an event to see more information about the document.

Table 9 Publishing Status Document Fields

| Field Name | Description |
|---------------------|------------------------------------|
| Source Server | Name of the Lotus Domino server |
| Source DB | Name of the database |
| Event Name | Name specified in the Events field |
| Subject | Name of the Subject |
| Event Received Time | Time Received |
| Publish Time | Time published |

Table 9 Publishing Status Document Fields (Cont'd)

| Field Name | Description |
|---------------------------|--|
| Published By | Username under which the document is published |
| Document Retrieval Method | Method of retrieval |
| View Name | Name of the View |
| Document ID | ID of the Document |



If the publisher has been down for a substantial amount of time and an agent is still running, the Lotus Notes documents will be queued in the Publishing Status document of the database. Ensure that the documents are published before the count goes beyond 10,000. To do this, you can either use a TIBCO Hawk rule base to restart the adapter or restart the adapter manually.

Unpublished View

The Unpublished View lists all the publication requests that have not yet been executed.

Table 10 Unpublished Document Fields

| Field Name | Description |
|---------------------------|------------------------------------|
| Source Server | Name of the Lotus Domino server |
| Source DB | Name of the database |
| Event Name | Name specified in the Events field |
| Subject | Name of the Subject |
| Event Received Time | Time received |
| Published By | Username |
| Document Retrieval Method | Method of retrieval |
| View Name | Name of the View |
| Document ID | ID of the Document |

Chapter 4 **Getting Started**

This chapter describes the basic steps to configure and run the adapter service engine. Details for each step are provided later in the manual.

Topics

- [Overview, page 38](#)
- [Prerequisites, page 39](#)
- [Configuring the Adapter Service Engine, page 40](#)
- [Configuring an ActiveMatrix SOA Project, page 54](#)
- [Running the Adapter Service Engine, page 55](#)

Overview

The TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes (adapter service engine) enables the adapter to run in the ActiveMatrix environment as a container and to provide services.

The adapter service engine supports both the AE and ActiveMatrix endpoints. Adapter AE endpoints can be converted as ActiveMatrix endpoints that let the adapter service engine communicate seamlessly with other ActiveMatrix services. All adapter endpoint types are converted to Web Services Description Language (WSDL) and can be used for configuration in the ActiveMatrix environment.

The adapter service engine supports communication with TIBCO ActiveMatrix BusinessWorks and TIBCO ActiveMatrix BusinessWorks Service Engine using only the AE transport.

Prerequisites

Before starting the configuration, ensure that all required software have been installed and are operating correctly. For a list of required software, see *TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes Installation*.

You are supposed to know how to drag icons in TIBCO Business Studio and save projects. If you are not familiar with these topics, refer to the *Workbench User Guide*, which can be accessed from the Help > Help Contents menu option in TIBCO Business Studio.

See [Preparing Lotus Notes on page 11](#) for information on preparing the Lotus Notes applications to work with the adapter service engine.

Configuring the Adapter Service Engine

TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes is configured with TIBCO Business Studio.

Configuration Task Sequence


To configure the adapter service engine, complete the following tasks:

- [Task A, Start TIBCO Business Studio, page 40](#)
- [Task B, Create an Adapter Project, page 41](#)
- [Task C, Create an Adapter Instance, page 41](#)
- [Task D, Create Lotus Notes Connection, page 42](#)
- [Task E, Import Lotus Objects, page 43](#)
- [Task F, Configure a Service, page 44](#)

Task A Start TIBCO Business Studio

To start TIBCO Business Studio:

1. Execute one of the following platform-specific command:
 - On Microsoft Windows:
select **Start > All Programs > TIBCO > TIBCO Business Studio 2.2 > TIBCO Business Studio**

or
run the executable from the command line
`AMX_HOME\BusinessStudio\TIBCOBusinessStudio.exe`
 - On Unix:
run `AMX_HOME/BusinessStudio/TIBCOBusinessStudio`
2. In the Workspace Launcher, accept the default workspace or browse to or create a new workspace. Click **OK**.
3. The first time you run TIBCO Business Studio, it displays a Welcome screen. Dismiss the screen by clicking the **Close** button  in the title bar.

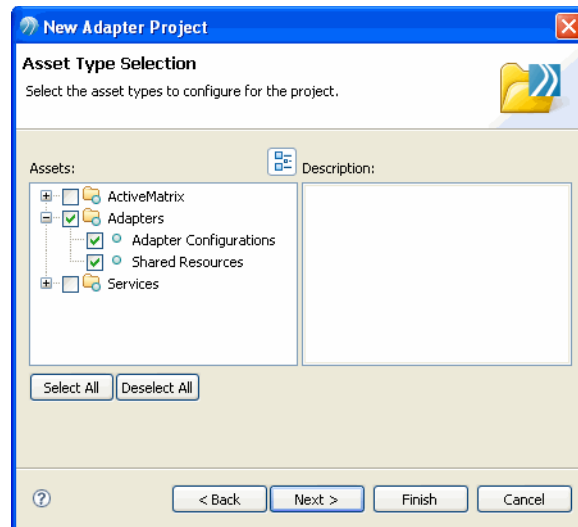
Task B Create an Adapter Project

A project contains the configuration files that define runtime options for the adapter.

To create an adapter project:

1. From the File menu, select **New > Project**.
2. In the New Project dialog, expand **TIBCO ActiveMatrix Adapters**, select **Adapter Project** as the wizard, and then click **Next**.
3. In the Project name field, enter a name for the project. Click **Next**.
4. In the Assets pane, select the asset types that are required for your project. This example uses the default setting, that is, only the Adapters asset type is selected.

Figure 16 Select Asset Types



5. Specify names for the selected assets.
 - To accept the default names, click **Finish**.
 - To use different names, click **Next**, and then enter new names in corresponding fields.

Task C Create an Adapter Instance

An adapter instance can contain Publisher, Subscriber, RPC Server, RPC Client, Login, Logout, or all of them.

To create an adapter instance:

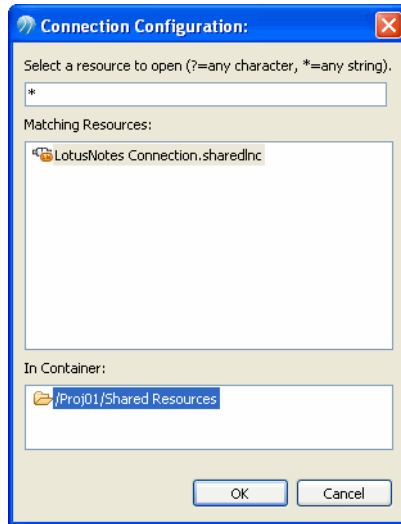
1. In the Project Explorer, right-click **Adapter Configurations**, and then select **New > Other** from the shortcut menu.
2. In the New dialog, expand **TIBCO ActiveMatrix Adapters > Configurations**, select **LotusNotes Adapter**, and then click **Next**.
3. In the LotusNotes Adapter Configuration dialog, click **Finish**. This creates an adapter instance named, by default, `LotusNotesAdapterConfiguration`. You can change the name in the Configuration tab later.

Task D Create Lotus Notes Connection

To configure the connection parameters:

1. Create a Lotus Connection Shared Resource.
 - a. From the File menu, select **New > Adapter Resources**.
 - b. In the Create New Adapters Resource dialog, expand **Shared Resources**, select **Lotus Connection**. Click **Next**.
 - c. Select the parent folder for the Lotus Notes Connection shared resource. For example, the `Shared Resources` folder under the adapter project folder.
 - d. Click **Finish**.
2. Configure the Lotus Notes Connection. See [Configuring Lotus Notes Connection on page 45](#) for details.
3. Deploy the Lotus Notes Connection for Runtime Connection.
 - a. Go to the adapter instance editor.
 - b. Click the **Adapter Options** tab.
 - c. In the Runtime Connection section, click **Connection Configuration**.
 - d. In the Connection Configuration dialog, select the Lotus Notes connection that you want to use.

Figure 17 Connection Configuration

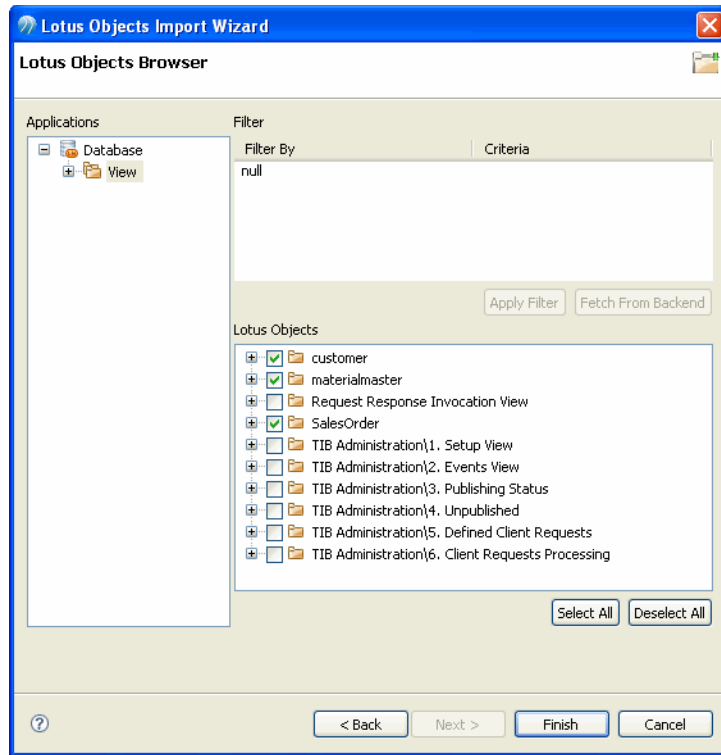


e. Click **OK**.

Task E Import Lotus Objects

1. From the File menu, select **Import**.
2. In the Import dialog, expand **TIBCO ActiveMatrix Adapter > Metadata**, select **Lotus Objects**, and then click **Next**.
3. In the Lotus Objects Import Wizard dialog, enter the name of the file to store the metadata.
4. In the Download Location field, browse to select the download location. For example, *proj/Shared Resources*.
5. In the Adapter Connection field, browse to select a Lotus Connection resource.
6. Click **Next**.
7. In the Lotus Objects Import Wizard dialog, select the objects you want to import from the Lotus Objects pane.

Figure 18 Import Lotus Objects



8. Click **Finish**.

Task F Configure a Service

The next step is to configure an adapter service that performs the publication, subscription, or request-response data passing operations for the adapter service engine.

1. In the adapter instance editor, click the **Adapter Services** tab.
2. Click the corresponding buttons to add the services you want to use. See [Adapter Services on page 63](#) for how to configure different services.
3. From the File menu, select **Save** to save the project information.

Configuring Lotus Notes Connection

This section explains the options of a connection configuration, and demonstrates how to set up different types of connections, as follows:

- [Setting Up Remote Connection, page 46](#)
- [Setting Up SSL Connection, page 47](#)
- [Setting Up Local Connection, page 52](#)

Table 11 Field Description of Connection Configuration

| Field | Description |
|-------------------------------|--|
| Configuration | |
| Name | Name of the connection configuration. |
| Description | A short description of the connection configuration. |
| LotusNotes Connection | |
| Lotus Domino Server Name | <p>The host name or IP address of the machine that hosts the Lotus Domino Server.</p> <p>If the default TCP/IP port number or SSL port number for HTTP has been changed in IBM Domino Administrator, the port number should be specified in this field. For example, <i>192.168.66.10:8081</i>. You need not do extra configuration in this field if the port number for DIIOP has been changed.</p> <p>To access a local database through a local connection, leave this field empty.</p> |
| Database | The name of the .nsf file. If the .nsf file resides in the local file system, specify the full path to access the database. |
| ID File | The User ID file location in the local file system. |
| Username | The username used to log into Lotus Notes. |
| Password | The password associated with the username that is used to log into Lotus Notes. |
| Bypass HTTP Service of Domino | <p>If selected, the adapter runtime will read from the specified file instead of using HTTP service of Domino to get the IOR.</p> <p>If you select this checkbox, specify the full path of the IOR file, including the filename. For example, <i>C:\Program Files\lotus\Domino\data\domino\html\diiop_ior.txt</i>.</p> |

Table 11 Field Description of Connection Configuration (Cont'd)

| Field | Description |
|---------------------|--|
| IOR File | Available only if the Bypass HTTP Service of Domino checkbox is selected. Enter the full path including the filename of the IOR file. The IOR file is used by the adapter to connect to the Domino server. The file should be on the local machine and the default location of the <code>diiop_ior.txt</code> is <code>Domino_Installation_Home\data\domino\html</code> . |
| Enable SSL on HTTP | Enables the adapter to obtain the IOR file from Lotus Domino Server through HTTPS service. |
| Enable SSL on DIIOP | Enables the adapter to be authenticated by Lotus Domino Server through SSL on DIIOP. |
| Test Connection | Provides an option to test whether the adapter can successfully connect to Domino Server in design phase. |

You can also click the **Set Bindings** button to launch the Binding Editor and then pick substitution variables to bind with the properties.

Setting Up Remote Connection

Before proceeding with the steps listed in this section, see [Setting Up Remote Connection on page 12](#) for configurations to be completed in advance. The following steps guide you through a simple configuration to set up a remote connection:

1. In the Lotus Domino Server Name field, enter the host name or IP address of the machine that hosts the Lotus Domino Server.
2. In the Database field, enter the name of the `.nsf` file to be accessed.
3. Empty the **ID File** field.
4. Enter the username and password to log into Lotus Domino Server in the Username field and the Password field.
5. Select the **Bypass HTTP Service of Domino** checkbox if necessary. Use this option in the following conditions:
 - anonymous HTTP access to the Domino server is restricted.
 - HTTP service of the Domino server is disabled.
 - you do not want to use the HTTP service of the Domino server.
6. If you selected the **Bypass HTTP Service of Domino** checkbox, browse to locate the IOR file in the IOR File field.

7. Save the configuration.
8. Click the **Test Connection** button to test the connection.

Setting Up SSL Connection

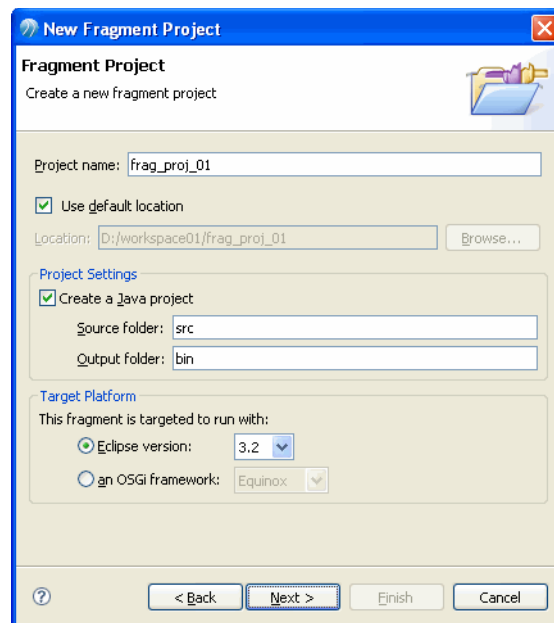
To secure the connection between the adapter and the remote Lotus Domino Server, you can set up an SSL connection.

Before proceeding with the steps listed in this section, see [Setting Up Remote Connection on page 12](#) for configurations to be completed in advance. The following tasks guide you through a simple configuration to set up an SSL connection. Note that the configurations described in [Task A on page 47](#) through [Task E on page 51](#) are for the design time connection.

Task A Create a Fragment Project

1. From the File menu, select **New > Project**.
2. In the New Project dialog, expand **Plug-in Development**, select **Fragment Project** as the wizard, and then click **Next**.
3. In the New Fragment Project dialog, enter a name for the project. Leave the other options unchanged. Click **Next**.

Figure 19 Create a Fragment Project



4. In the Host Plug-in area, click the **Browse** button next to the Plug-in ID field, and select the **com.tibco.adln.tpvl.ibmdrivers(1.0.0.003)** plug-in. Then click **OK**.
5. In the Maximum Version field, enter 2.0.0.

Figure 20 Configure the Fragment Project

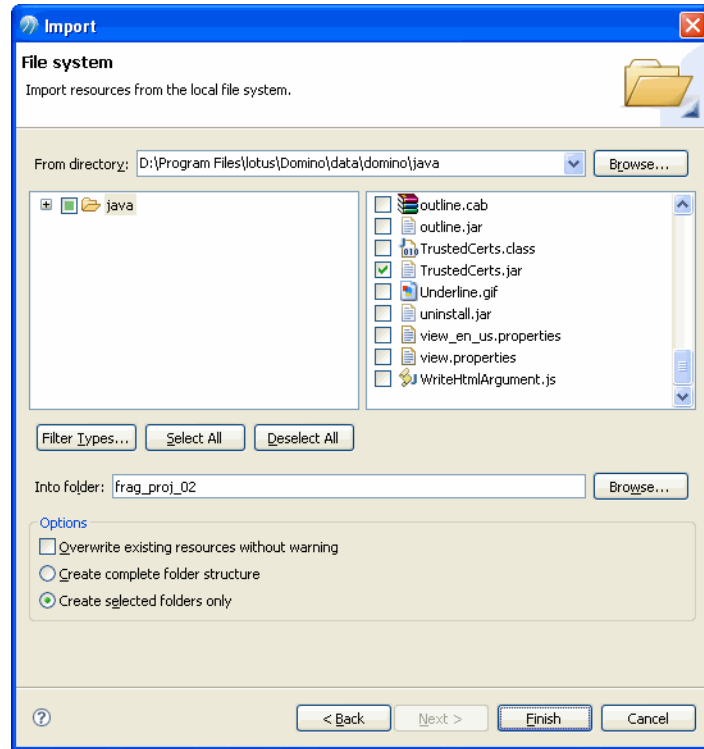
6. Click **Finish**.
7. Click **Yes** to open the associated perspective when prompted.
8. In the perspective of the fragment project, click the **MANIFEST.MF** tab. You should be able to find the following entry:

```
Fragment-Host: com.tibco.adln.tpvl.ibmdrivers;
bundle-version="(1.0.0, 2.0.0)"
```

Task B Import the Certificate JAR File

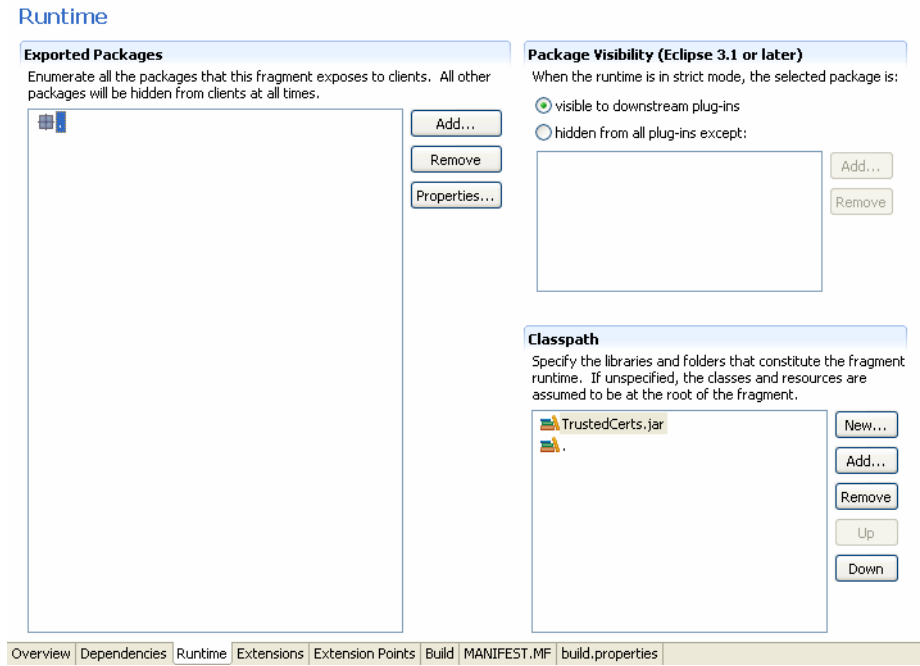
1. Right-click the fragment project in the Project Explorer and select **Import**.
2. In the Import dialog, select **General > File System**, and then click **Next**.
3. Click the **Browse** button next to the From directory field, locate the folder where the certificate JAR file resides. Select the checkbox next to the certificate JAR file. Click **Finish**.

Figure 21 Import Certificate JAR File



4. Click the **Runtime** tab in the perspective.
5. In the Classpath section, click **Add** to add the JAR file that is just imported.
6. In the Exported Packages section, click **Add** to add the package.

Figure 22 Configure the Runtime Tab



7. Save the configuration of the fragment project.

Task C Create a Feature Project

1. From the File menu, select **New > Project**.
2. In the New Project dialog, expand **Plug-in Development**, select **Feature Project** as the wizard, and then click **Next**.
3. In the New Feature dialog, enter a name for the project. Click **Next**.
4. Select the fragment project that is created in [Task A](#). Click **Finish**.
5. Click **Yes** to open the associated perspective when prompted.
6. Click the **Plug-ins** tab. Ensure that the fragment is selected in the Plug-ins and Fragments list.
7. Click the **Versions** button, select **Copy versions from plug-in and fragment manifests**, and then click **Finish**.
8. In the Plug-in Details section, select the **Unpack the plug-in archive after the installation** checkbox.
9. Save the Configuration of the feature project.

Task D Create Deployable Archive

1. Right-click the feature project and select **Export**.
2. In the Export dialog, select **Plug-in Development > Deployable features**, and then click **Next**.
3. In the Available Features section, ensure that the feature project is selected.
4. In the Destination tab, select the **Archive file** radio button, and then click the **Browse** button to specify the path as well as file name of the archive file.
5. Click **Finish**.

Task E Install Feature into TIBCO ActiveMatrix Environment

1. Extract the archive file that is created in the previous step.
Two folders are created after the extraction, one is named as `features` and the other is `plugins`.
2. Copy the subfolders into corresponding subdirectories in `AMX_HOME/components/eclipse`:
 - Copy the sub folder within the `features` folder to `AMX_HOME/components/eclipse/features`.
 - Copy the sub folder within the `plugins` folder to `AMX_HOME/components/eclipse/plugins`.
3. At the command prompt, go to the directory `AMX_HOME/tools/bin`.
4. Run the following command:


```
tibcommander -Dfeature.name=featureID -f
AMX_HOME/tools/scripts/addfeature.xml
```

where the parameter *featureID* can be found in TIBCO Business Studio, on the Overview tab of the feature project.
5. Restart TIBCO Business Studio for the features to take effect in TIBCO ActiveMatrix Environment.

Task F Enable SSL for Lotus Connection

1. In the Lotus Domino Server Name field, enter the host name or IP address of the machine that hosts the Lotus Domino Server.
2. In the Database field, enter the name of the `.nsf` file to be accessed.
3. Empty the **ID File** field.
4. Enter the username and password to log into Lotus Domino Server in the Username field and the Password field.

5. Select the **Bypass HTTP Service of Domino** checkbox if necessary. Use this option in the following conditions:
 - anonymous HTTP access to the Domino server is restricted.
 - HTTP service of the Domino server is disabled.
 - you do not want to use the HTTP service of the Domino server.
6. If you selected the **Bypass HTTP Service of Domino** checkbox, browse to locate the IOR file in the IOR File field.
7. Depending on the requirements, select the **Enable SSL on HTTP** checkbox or the **Enable SSL on DIIOP** checkbox.

Guidelines for Using SSL on HTTP

The IOR file is cached after the adapter gets it through a HTTP or HTTPS connection. If the adapter tries to get the IOR file through another HTTP or HTTPS connection from the same Domino server later, the cached IOR file will be used instead of getting a new one from the designated connection.

To avoid such a problem, follow the rules below when you need to access a Domino Server which enables both HTTP service and HTTPS service on it:

- Do not add adapter instances with different connection types (HTTP or HTTPS) to the same TIBCO ActiveMatrix Adapter project.
- If you have opened a project with HTTP connection in TIBCO Business Studio, open another project with HTTPS connection from a different workspace.
- If you have changed the connection type (from HTTP to HTTPS or vice versa) for an adapter instance, restart TIBCO Business Studio for the change to take effect.

Setting Up Local Connection

Before proceeding with the steps listed in this section, see [Setting Up Local Connection on page 13](#) for configurations to be completed in advance. The following steps guide you through a simple configuration to set up a local connection:

1. Empty the **Lotus Domino Server Name** field.
2. In the Database field, enter the full path of the `.nsf` file that resides in the local file system.
3. In the ID File field, enter the path of the user ID file.
4. Empty the **Username** field and the **Password** field.

5. Leave the other options unchanged, which are not applicable for a local connection.
6. Save the configuration.
7. Click the **Test Connection** button to test the connection.

Configuring an ActiveMatrix SOA Project

After configuring the adapter project, you need to create an SOA project and generate service assembly file and deployable archive.

See [Configuring an ActiveMatrix SOA Project on page 79](#) for instructions on how to do that.

Running the Adapter Service Engine

To run the adapter service engine, you need to deploy the service assembly in TIBCO ActiveMatrix Administrator. See [Deploying the Service Assembly on page 103](#) for instructions on how to do that.

Chapter 5

Configuring an Adapter Instance

This chapter describes the options available for configuring an adapter instance and for adding services. All configuration tasks are done using TIBCO Business Studio.

Topics

- [Configuration, page 58](#)
- [Adapter Options, page 61](#)
- [Adapter Services, page 63](#)
- [Log Sinks, page 75](#)

Configuration

In the Configuration tab, you can provide basic configuration information in several sections for the adapter instance.

Table 12 Field Description of Adapter Instance Configuration

| Field | Description |
|---|---|
| Generic Adapter Configuration | |
| Instance Name | Use the default name or replace it with a name of your choice. See Guidelines for Choosing an Instance Name on page 59 . |
| Description | A short description of the adapter configuration. |
| Startup | |
| Show Startup Banner | <p>The startup banner displays the runtime adapter version, the infrastructure version on which the adapter service engine is built, and the copyright information in the console window when the adapter service engine is started.</p> <p>The content of the start banner is pre defined and cannot be changed.</p> <p>Clear this checkbox if you do not want the startup banner to be displayed.</p> |
| Monitoring | |
| (TIBCO Hawk functionality is not supported in current release.) | |
| Enable Standard MicroAgent | This checkbox allows you to turn on or turn off the standard TIBCO Hawk Microagent. |
| Standard MicroAgent Name | <p>The name for the standard microagent that will be registered with the TIBCO Hawk system.</p> <p>Click the Set Bindings button on the title bar to launch the Binding Editor. In the Binding Editor, you can pick substitution variables to bind with properties Standard MicroAgent Name.</p> <p>In most cases, the default value is used. The InstanceId variable need not be set because it is automatically set at runtime by the runtime adapter.</p> |
| Standard MicroAgent Timeout(ms) | The timeout value for the standard microagent in milliseconds. |

Table 12 Field Description of Adapter Instance Configuration (Cont'd)

| Field | Description |
|------------------------------|---|
| Enable Class MicroAgent | <p>This checkbox allows you to turn on or turn off the instance or class-specific standard TIBCO Hawk Microagent.</p> <p>Click the Set Bindings button on the title bar to launch the Binding Editor. In the Binding Editor, you can pick substitution variables to bind with properties Enable Class MicroAgent.</p> |
| Class MicroAgent Name | <p>The name for the class microagent that will be registered with the TIBCO Hawk system. In most cases, the default value is used.</p> |
| Class MicroAgent Timeout(ms) | <p>The timeout value for the class microagent in milliseconds.</p> |
| Default MicroAgent Session | <p>The name of the TIBCO Rendezvous session that will be used by the standard, class, and custom microagents.</p> <p>Do not change the session name and the corresponding session, which are automatically generated by TIBCO Business Studio. However, you can double-click the <code>HawkSession.rvtransport</code> under the <code>instancename_genresources</code> folder in the Project Explorer to modify the session parameters if required.</p> <p>Ensure that you have set the correct parameter value for the substitution variables that correspond to the TIBCO Hawk configuration. Otherwise, the microagents will not appear in the TIBCO Hawk Display.</p> |
| Administration | |
| Language Encoding | <p>Encoding values that can be used by the adapter service engine. See <i>TIBCO ActiveMatrix Adapter for Lotus Notes Concepts</i> for more information.</p> |

Guidelines for Choosing an Instance Name

- The entire instance name must be less than 80 characters.
- The following characters cannot be used in an instance name: /, \, <, >, |, *, %, :, +, #, ?, and ".
- The space character and dot character cannot be used to begin or end an instance name.
- An instance name cannot use substitution variables.
- An instance name must be unique with respect to other adapter instances for the same adapter in the project.

The same instance name can be used to name an adapter instance for a different adapter in the same project. For example, a Lotus Notes adapter instance named TEST and a Sieble adapter instance named TEST can coexist in the same project.

Each instance name must be unique per adapter within a project even if each instance is defined in a different folder. That is, configuring same-named adapter instances in different folders will not make their names unique.

When you create an adapter instance, the palette automatically creates several resources for it. The names of these resources derive from the name of the instance to which they belong. Changing the adapter instance name results in an automatic regeneration of the resources names. If you manually modify any resource name, that particular name will *not* be automatically regenerated the next time you rename the adapter instance.

Adapter Options

Provide information for Runtime Connection on this tab.

Table 13 Field Description of Adapter Options

| Field | Description |
|--|--|
| Runtime Connection | |
| Connection Configuration | Associates the adapter instance with a predefined connection configuration. See Create Lotus Notes Connection on page 42 for instructions on how to define a connection. |
| Maximum Number of Reconnect Attempts | The total number of reconnection attempts to make before the run-time adapter or adapter service is stopped. The default value of -1 means reconnection attempts will continue indefinitely. |
| Number of Reconnect Attempts before Suspending impacted services | The number of reconnection attempts to make before suspending a run-time adapter or adapter service. |
| Retry Interval | The time interval in milliseconds to elapse between each reconnection attempt. |
| LotusNotes Service Options | |
| Number of Publication Service Threads | The total number of threads to run the Publisher. |
| Polling Interval (ms) | Only for the Publisher. The time taken between polling sessions. |
| Polling Batch Size | Only for the Publisher. The maximum number of documents or messages to be fetched by the adapter per polling session. The value of <code>Polling Batch Size</code> is 10000 (the maximum) if 0 or a value greater than 10000 is specified. The default value is 100. |
| Transport Type to listen to LotusNotes Events | Only for the Publisher or RPC client. The transport type to listen to Lotus Notes events. If None is selected, then the polling option <i>must</i> be enabled for the Publisher and RPC client. |
| Http Port to listen to LotusNotes Events | Only for the HTTP transport. The HTTP port number to listen to the Lotus Notes agent. The port number specified here must be the same as the Port Number in the Setup Document or the Event Setup Document of the database, which is configured in Lotus Notes. |

Table 13 Field Description of Adapter Options (Cont'd)

| Field | Description |
|--|--|
| Subject to listen to LotusNotes Events | Only for the Rendezvous transport. The subject to listen to the Lotus Notes agent. The subject specified here must be the same as the Publish Subject in the Setup Document or the Event Setup Document of the database, which is configured in Lotus Notes. |
| Number of Subscription Service Threads | The total number of threads required to run the Subscriber. |
| Number of Request-Response Service Threads | The total number of threads required to run the RPC server. At run time, there will be one more thread created in addition to the threads configured at design-time for the Request-Response Service. This extra thread is the default SDK thread. |
| Session Idle Timeout (m) | Only for dynamic login services. The duration of idle time in minutes after which a session (corresponding to any user who has dynamically logged in using the login service in the instance) gets automatically logged out. The default value is 30 minutes. The maximum allowed value is 65535. If the value is specified as 0, the session will not idle out. |
| Session Expiry Time (m) | Only for dynamic login services. The duration in minutes after which a session (corresponding to any user who has dynamically logged in using the login service in the instance) gets automatically logged out. The default value is 0. This means the session never expires. The maximum allowed value is 65535. |

Adapter Services

This tab provides options for adding and configuring adapter services:

- [Publisher, page 63](#)
- [Subscriber, page 65](#)
- [RPC Server, page 67](#)
- [RPC Client, page 70](#)
- [Login Service, page 72](#)
- [Logout Service, page 73](#)

Publisher

Publisher sends messages from Lotus Notes to applications configured for the TIBCO environment. Publisher extracts data from the fields of Lotus Notes documents in the database and publishes them on configured subject names.

Click **Add Publisher** and then specify values for the fields listed in [Table 14](#).

Table 14 Publisher Options

| Field | Description |
|----------------------|--|
| Configuration | |
| Name | <p>Name of the Publisher.</p> <p>A service name must use alphanumeric characters. An underscore (_) character can be used. The entire instance name must be less than 80 characters. The space character cannot be used in an instance name. A service name cannot use substitution variables.</p> |
| Description | Additional information about the Publisher being configured. |
| Schema | |
| Class Reference | <p>The AE Schema that is automatically generated from the selected BO when the adapter configuration is saved.</p> <p>You can view the type and attributes of the class by double-clicking the Classes folder under AE Schemas > ae > lotusnotes > metadatafile.schemamodel. For more information about schema, see the <i>TIBCO Designer User's Guide</i>.</p> |
| Business Object | Browse to select business object child from any of the previously imported BOs. |

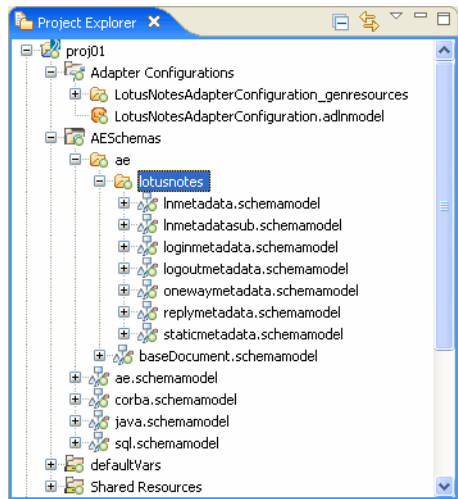
Table 14 Publisher Options (Cont'd)

| Field | Description |
|----------------------------|---|
| Publication Service Option | |
| Save As | Save the schema by another name in the publisher schema. The value you enter here will appear in the Class Reference field when you specify the Business Object field. See Guidelines for Saving the Schema by Another Name on page 64. |
| Enable Poller | If selected, the adapter polls the Lotus Notes database. If not selected, the Lotus Notes database is not polled. |
| Update Mode | If Update is selected, the operation will be either Insert or Update . If Upsert is selected, the operation will be either Insert or Upsert . |
| Run Agent | Click the FetchAgents button to list Lotus Notes agents that are defined in the Lotus Notes database. The agent specified in this field is invoked by the adapter after publishing the document. |

Guidelines for Saving the Schema by Another Name

Within a project, all schema classes of Publishers are located in the /AESchemas/ae/lotusnotes/lnmetadata.schemamodel/classes folder, even if the services belong to different adapter instances.

Figure 23 Schema Classes Location



To avoid ambiguity, save the schema by a different name under the following circumstances:

- If you do not want more than one Publisher to point to the same schema class.
A schema class is generated with a schema name by default. If the schema name for two Publishers is the same, the corresponding schema class for both will be the same.
- If two Publishers have the same schema name and if any changes are made to one of the them through the Schema Editor.
The changes made to one schema class will affect the other schema class with the same schema name. To avoid loss of data in one or both the schemas, save one of them by a different name.
- If you need to configure two or more publisher events for the same form.
Specify different names in the Save As field of these services and create entries corresponding to each service in the **Events** View of the form.

Running Publisher

Publisher gets messages from a Lotus Notes application and sends the message to the TIBCO environment. Publisher is triggered by standard publisher agents. See [Configuring Agents on page 15](#) about creating agents in Lotus Domino Designer.

Subscriber

Subscriber sends messages from the applications configured for the TIBCO environment to the Lotus Notes. Click **Add Subscriber** and then specify values for the fields listed in [Table 15](#).

Table 15 *Subscriber Options*

| Field | Description |
|----------------------|--|
| Configuration | |
| Name | Name of the Subscriber. A service name must use alphanumeric characters. An underscore (_) character can be used. The entire instance name must be less than 80 characters. The space character cannot be used in an instance name. A service name cannot use substitution variables. |
| Description | Additional information about the Subscriber being configured. |
| Schema | |
| Class Reference | The AE Schema that is automatically generated from the selected BO when the adapter configuration is saved. |

Table 15 *Subscriber Options (Cont'd)*

| Field | Description |
|-----------------------------|--|
| Business Object | Select Browse from the menu next to the Business Object field and choose from any of the previously imported BOs. |
| Subscription Service Option | |
| Save As | Save the schema by another name in the publisher schema. The value you enter here will appear in the Class Reference field when you specify the Business Object field. See Guidelines for Saving the Schema by Another Name on page 66 . |
| Type | The type of Subscription Service to be used by the runtime adapter, normal or withlogin. See Guidelines for Setting Type on page 67 . |
| Enable Key fields On Insert | <p>This checkbox takes effect only when the operation type is insert.</p> <p>When the checkbox is selected, the values of the key fields in the document will be checked for duplication. For the document, if the values of the key fields are new to the document in the database, an insert operation will be performed. This ensures that no new document will be inserted if the values of the key fields are the same.</p> |
| Run Agent | Click the Fetch Agents button to get the list of Lotus Notes agents defined in the Lotus Notes database. The agent specified in this field is invoked by the adapter after subscribing the document. |

Guidelines for Saving the Schema by Another Name

Within a project, all schema classes of Subscribers are located in the /AESchemas/ae/lotusnotes/lnmetadatasub.schemamodel/classes folder, even if the services belong to different adapter instances.

To avoid ambiguity, save the schema by a different name under the following circumstances:

- If you do not want more than one subscriber to point to the same schema class.

A schema class is generated with a schema name by default. If the schema name for two services is the same, the corresponding schema class for both will be the same unless a different name is specified in the Save As field.
- If two Subscribers have the same schema name and if any changes are made to one of them through the Schema Editor.

The changes made to one schema class will affect the other schema class if they have the same schema name. To avoid loss of data in one or both the schemas, save one of them by another name.

Guidelines for Setting Type

There are two approaches for the runtime adapter to use a Subscriber:

- **Normal**—The runtime adapter uses the username and password specified in the LotusNotes Connection shared resource of the adapter instance to connect to the Lotus Notes application.
- **Withlogin**—The runtime adapter uses credentials of the dynamically logged in user instead of the default parameters provided in the LotusNotes Connection shared resource to connect to the Lotus Notes application.

To configure a Subscriber with dynamic login, you also need a Login Service and a Logout Service.

Running Subscriber

Subscriber receives messages from the TIBCO environment and performs `insert`, `update`, `delete`, or `upsert` operation in the Lotus Notes database.

Subscriber uses `ADAPTER_OPCODE` to learn what kind of operation is to be performed. There are two ways to run a Subscriber:

- **with Publisher**: If a Subscriber communicates with a Publisher within TIBCO ActiveMatrix environment, the Subscriber detects the value of `ADAPTER_OPCODE` from the Publisher at runtime.
- **with TIBCO ActiveMatrix BusinessWorks**: If a Subscriber gets messages from TIBCO ActiveMatrix BusinessWorks, the Subscriber reads the `ADAPTER_OPCODE` field specified in the activity. See [Configuring SOAP Activity for Subscriber on page 94](#) for more information.

RPC Server

RPC Server responds to messages from applications configured for the TIBCO environment. Click **Add RPC Server** and then specify values for the fields listed in [Table 16](#).

Table 16 RPC Server Options

| Field | Description |
|----------------------|---|
| Configuration | |
| Name | <p>Name of the RPC Server.</p> <p>A service name must use alphanumeric characters. An underscore (_) character can be used. The entire instance name must be less than 80 characters. The space character cannot be used in an instance name. A service name cannot use substitution variables.</p> |

Table 16 RPC Server Options (Cont'd)

| Field | Description |
|---------------------------------|---|
| Description | Additional information about the RPC Server being configured. |
| Schema | |
| Class Reference | The AE Schema that is automatically generated from the selected BO when the adapter configuration is saved. The class reference for query operation is LOTUS_NOTES_RPC. |
| Business Object | Available for operation types other than query. Select Browse from the menu next to the Business Object field and choose from any of the previously imported BOs. |
| Request-Response Service Option | |
| Operation Type | Select one of the following options: query Updates the required response service to the pre-defined LOTUS_NOTESRPC schema, available in the repository. insert Associates the schema generated by the Request-Response Service to perform an insert operation in the Lotus Notes database. update Associates the schema generated by the Request-Response Service to perform an update operation in the Lotus Notes database. delete Associates the schema generated by the Request-Response Service to perform a delete operation in the Lotus Notes database. upsert Associates the schema generated by the Request-Response Service to perform a upsert operation in the Lotus Notes database. |
| Type | The type of RPC Server to be used by the runtime adapter, normal or withlogin. See Guidelines for Setting Type on page 68 . |
| Enable Key Field On Insert | Available only for operation type Insert. When the checkbox is selected, the key fields will take effect to avoid data absence and duplication; otherwise, the new document will be inserted. |

Guidelines for Setting Type

There are two types of how a RPC Server can be used by the runtime adapter:

- **Normal**—The runtime adapter uses the username and password specified in the LotusNotes Connection shared resource of the adapter instance to connect to the Lotus Notes application.
- **Withlogin**—The runtime adapter uses the credentials of the dynamically logged-in user instead of the default parameters provided in the LotusNotes Connection shared resource of the adapter instance to connect to the Lotus

Notes application. The sessionID returned by the Login Service needs to be attached as user closure.

To configure a RPC Server with dynamic login, you also need a Login Service and a Logout Service.

Running RPC Server

RPC Server receives requests from the TIBCO environment, performs `insert`, `update`, `delete`, `upsert`, or `query` operation in the Lotus Notes database, and then returns the response to the TIBCO environment.

The way to run a RPC Server varies with the operation type to be performed.

Insert, Update, Delete, Upsert

For operation types `insert`, `update`, `delete`, and `upsert`, TIBCO ActiveMatrix BusinessWorks provides input of the request that will be retrieved by RPC Server later.

See [Configuring SOAP Activity for RPC Server on page 99](#) for more information about how to use the activity.

Query

For the operation type `query`, there are several ways to provide input of the request that will be retrieved by the RPC Server later.

- Configure a RPC Client to act as a client for the RPC Server directly.

Detailed information about how to perform the query is defined in a client request form document, which can be found under the `Request Response Invocation View` folder in a TIBCO-enabled Lotus Notes database.

In this case, a TIB InitiateClientRequest agent is required to initiate the client request.

- Configure a SOAP Request Reply activity and manually enter the detailed information about how to perform the query in the Activity Input panel.

See [Configuring SOAP Activity for RPC Server on page 99](#) for more information about how to use the activity.

- Establish a mapping of fields between a RPC Client and a SOAP Request-Reply activity in TIBCO Designer.

RPC Client fetches detailed query information from a client request form document defined in Lotus Notes database. SOAP Request Reply activity gets query information from RPC Client.

Similar to the first approach, a TIB InitiateClientRequest agent is required to initiate the client request.

See [Configuring SOAP Activity for RPC Server on page 99](#) for more information about how to use the activity.

RPC Client

RPC Client responds to the messages from applications configured for the TIBCO environment. To add a Request-Response Invocation Service, click **Add RPC Client** and then specify values for the fields listed in [Table 17](#).

The Request-Response Invocation Request Document Editor facilitates users with a friendly GUI when they are performing the configuration in TIBCO Business Studio. Users can apply the configuration in two ways:

- Write to Request Response Invocation view manually.
- or–
- Update the view document in Lotus Notes through the Request-Response Invocation Request Document Editor.

Table 17 RPC Client Options

| Field | Description |
|-----------------|---|
| Configuration | |
| Name | <p>Name of the RPC Client.</p> <p>A service name must use alphanumeric characters. An underscore (_) character can be used. The entire instance name must be less than 80 characters. The space character cannot be used in an instance name. A service name cannot use substitution variables.</p> <p>By default, the name is rpcClient.</p> <p>This name is the same as the Request Name of a client-request-enabled document from the Request Response Invocation View folder in Lotus Notes database.</p> |
| Description | <p>Additional information about the RPC Client being configured.</p> |
| Schema | |
| Class Reference | <p>The AE Schema that is automatically generated from the selected BO when the adapter configuration is saved. The default value is LOTUS_NOTES_RPC.</p> |
| Business Object | <p>Not available for RPC Client.</p> |

Table 17 RPC Client Options (Cont'd)

| Field | Description |
|--|---|
| Request-Response Invocation Service Option | |
| Enable Poller | If this checkbox is selected, Polling agent is actively processed. |
| Request-Response Invocation Request Document Editor | |
| Operation Type | Type of query operation. It can be query, view, FTSearch, or RunAgent. When communicating with a Request-Response Service whose operation type is query, specify detailed query information with this option. |
| Formula | Available only for the operation type query. The querying formula which corresponds to the Formula field in the client-request-enabled document. See Guidelines for Using Formula on page 29 . |
| View Name | Available only for the operation type view. The view name which corresponds to the View Name field in the client-request-enabled document. |
| Parameters | Available only for the operation type FTSearch. The parameters of FTSearch. This field corresponds to the Parameter field in the client-request-enabled document. See Guidelines for Setting FTSearch Parameters on page 30 . |
| Agent Name | Available only for the operation type RunAgent. The agent to be invoked. With this option, you can configure to invoke Lotus agents at Request-Response Service side. This field corresponds to the Agent Name field in the client-request-enabled document. Do not set the target field to All selected documents when defining the target agent in Lotus Domino Designer. |
| Result Customized | Configure whether the query result will be customized. This option corresponds to the Result Policy field in the client-request-enabled document. |
| Result Form Priority | Configure which decides the form of the result document first, local configuration or the form attribute of each record of the query result. This option corresponds to the Result Policy field in the client-request-enabled document. It is applicable only when the Result Customized checkbox is selected. |
| Result Form | The form name of the result documents. It corresponds to the Result Form field in the client-request-enabled document. This field functions when the Result Customized checkbox is selected and the Result Form Priority is set to Client. At runtime, when you select Server, although the corresponding Requested Fields remains active, the Requested Fields does not take effect. |

Table 17 RPC Client Options (Cont'd)

| Field | Description |
|------------------|---|
| Requested Fields | The field names of the result documents. It corresponds to the Requested Fields field in the client-request-enabled document. Click the Get Fields button next to this field to set the requested fields. |
| Read Target | Click this button to fetch a client-request-enabled document, whose Request Name is the same as the service name, from the Request Response Invocation View folder in Lotus Notes database. —The first matching document with Request Status as UnProcessed will be fetched. And only one document can be fetched. —If there are no UnProcessed matching documents, clicking this button creates a new document with the service name and you can edit it in the Request-Response Invocation Request Document Editor. |
| Apply Change | Click this button to save the document in the Request Response Invocation View folder as UnProcessed. |

Running RPC Client

RPC Client gets a request from a Lotus Notes application and sends the request through the TIBCO environment, then returns the response back to the application. In TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes, RPC Client carries detailed information of a RPC Server query operation.

RPC Client is triggered by TIB InitiateClientRequest agents. See [Configuring Agents on page 15](#) about creating agents in Lotus Domino Designer.

Login Service

When the type of how a Subscriber or a RPC Server is to be used by the runtime adapter is withlogin, you need to configure a Login Service and a Logout Service.

Login Service responds to login requests from applications configured for the TIBCO environment. Click **Add Login** and then specify values for the fields listed in [Table 18](#).

Table 18 Login Service Options

| Field | Description |
|---------------|-------------|
| Configuration | |

Table 18 Login Service Options (Cont'd)

| Field | Description |
|-----------------|---|
| Name | Name of the Login Service. A service name must use alphanumeric characters. An underscore (_) character can be used. The entire instance name must be less than 80 characters. The space character cannot be used in an instance name. A service name cannot use substitution variables. |
| Description | Additional information about the Login Service being configured. |
| Schema | |
| Class Reference | The AE Schema that is automatically generated from the selected BO when the adapter configuration is saved. The default value is LOGIN_RPC. |
| Business Object | Not available for Login Service. |

Running Login Service

Login Service is used with Subscriber and RPC Server for the dynamic login feature.

Logout Service

When the type of how a Subscriber or RPC Server is to be used by the runtime adapter is set to `withlogin`, you need to configure a Login Service and a Logout Service.

The Logout Service responds to logout requests from applications configured for the TIBCO environment. The dynamically logged in user can be logged out of the Lotus Notes Application by sending a request to the Logout Service specifying the sessionID. Click **Add Logout** and then specify values for the fields listed in [Table 19](#).

Table 19 Logout Service Options

| Field | Description |
|----------------------|--|
| Configuration | |
| Name | Name of the Logout Service. A service name must use alphanumeric characters. An underscore (_) character can be used. The entire instance name must be less than 80 characters. The space character cannot be used in an instance name. A service name cannot use substitution variables. |
| Description | Additional information about the Logout Service being configured. |

Table 19 Logout Service Options (Cont'd)

| Field | Description |
|-----------------|--|
| Schema | |
| Class Reference | The AE Schema that is automatically generated from the selected BO when the adapter configuration is saved. The default value is LOGOUT_RPC. |
| Business Object | Not available for Logout Service. |

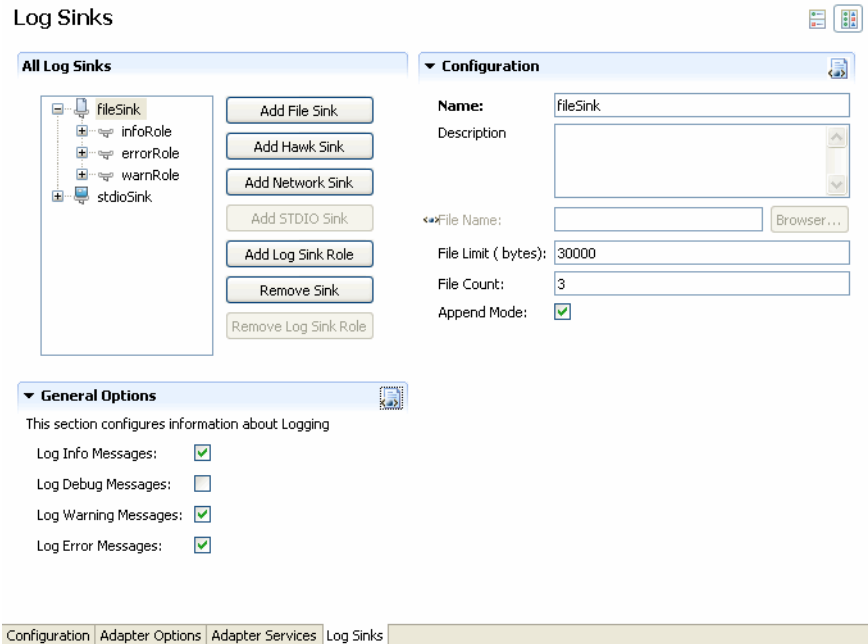
Running Logout Service

Logout Service is used with Subscriber and RPC Server for the dynamic login feature.

Log Sinks

Specify the output destination (sinks) for the trace messages in the Log Sinks tab.

Figure 24 Log Sinks



All Log Sinks

In this section, you can perform following tasks:

- Add a log sink
- Add a role to a log sink
- Remove a log sink
- Remove a role from a log sink

By default, there are a File sink and a STUDIO sink. You can add more sinks. The available sink types are: File, Hawk, Network, and STUDIO.

General Options

Trace messages of the selected levels will be collected in the log sinks.

There are three types of logs (log sinks) that you can configure to hold trace messages, corresponding to three levels (roles) of trace messages, Information, Warning, and Error. A fourth level of trace messages, Debug, is reserved and should not be enabled unless requested by the TIBCO Product Support Group. To hold Debug trace messages will write a lot of information to the log file and significantly degrades the performance of the adapter service engine.

Turning on the levels can affect the performance of the adapter service engine. Therefore, it is recommended to turn on the required levels only.

Configuration

The configuration options varies with the sink types.

Table 20 Field Description of Log Sinks Configuration

| Field | Description |
|--------------------|--|
| File Sink | |
| Name | The name of the log sink. |
| Description | Description about the log sink. |
| File Name | The path and name of the trace file. |
| File Limit (bytes) | Maximum size of the file in bytes. The default value is 30000 bytes. |
| File Count | The number of rollover files. The default value is 3. |
| Append Mode | If checked, traces are appended to the existing file at startup. If unchecked, the exisiting file is overwritten at startup if one of the same name exists. |
| STDIO Sink | |
| Name | The name of the log sink. |
| Description | Description about the log sink. |
| Output Stream | The option to write to out or error. |

Table 20 Field Description of Log Sinks Configuration (Cont'd)

| Field | Description |
|---|---|
| Hawk Sink | |
| (TIBCO Hawk functionality is not supported in current release.) | |
| Name | The name of the log sink. |
| Description | Description about the log sink. |
| MicroAgent Name | Name of the microagent for traces from this Hawk sink. The Hawk sink uses the hawk session, created and used by the adapter for monitoring purposes, to send tracing messages to the TIBCO Hawk monitor or Display. |
| Network Sink | |
| Name | The name of the log sink. |
| Description | Description about the log sink. |
| Subject | The subject on which the trace messages need to be published. The Network sink is used to publish tracing message on TIBCO Rendezvous. |
| Session Reference | Browse to select one of the previously defined sessions. |

Chapter 6

Configuring an ActiveMatrix SOA Project

Previous chapters described how to create an adapter project and configure an adapter instance. This chapter describes the process of creating an adapter component, adding services and references to the adapter component, and creating a service assembly.

Topics

- [Creating an ActiveMatrix SOA Project, page 80](#)
- [Generating WSDL Files, page 81](#)
- [Configuring Composites, page 82](#)
- [Creating Service Assembly and Service Assembly Archive, page 87](#)

Creating an ActiveMatrix SOA Project

ActiveMatrix SOA projects contain assets that you can develop with TIBCO Business Studio. Before creating any type of asset you must first create an ActiveMatrix SOA project.

To create an ActiveMatrix SOA project:

1. From the File menu, select **New > Project**.
2. In the New Project dialog, expand **TIBCO ActiveMatrix**, select **ActiveMatrix SOA Project**. Click **Next**.
3. In the Project name field, enter a name for the project, for example, `soa_proj01`.
4. Select **Basic SOA Project** from the Available Templates list. The Basic SOA Project template creates a project with an empty composite. Click **Next**.
5. In the New ActiveMatrix SOA Project dialog, select the asset types that are required for your project.
6. Specify names for selected assets.
 - To accept the default names, click **Finish**.
 - To use different names, click **Next**, and then enter new names in corresponding fields.

Generating WSDL Files

TIBCO ActiveMatrix services are described using WSDL files. To generate the WSDL file:

1. In the Project Explorer, right-click the adapter instance of the Adapter Project that you want to deploy, select **Generate Adapter WSDL** from the shortcut menu.
2. In the Target Project dialog, select the SOA project that you want to use, click **OK**.

Two folders will be created once the process is done:

- `schema`: this folder contains the adapter XSD schema.
- `adapterConfigurationFilename_genresources`: this folder contains following supporting resources:
 - `adapterConfigurationFilename_number.dat`: contains information used by the Adapter container.
 - `adapterConfigurationFilename.adendpoints`: the adapter service endpoints file which contains information about the service endpoints supported by the adapter. The file is used later to select service types.
 - `adapterConfigurationFilename.substvar`: contains substitution variables that are imported from the adapter configuration file.
 - `adapterConfigurationFilename.wsdl`: the generated WSDL file which references the schema and `.dat` files contains the service definition endpoints.

The shared resource that defines the transport used to communicate with the adapter is created. If the adapter project referenced global variables, the shared resource will reference substitution variables defined in the `adapterConfigurationFilename.substvar` file.



After using a WSDL in a composite, ensure that you do not overwrite the WSDL.

Configuring Composites

In the ActiveMatrix platform, a *composite* exports a cohesive set of business functions as services. A composite contains one or more components. A *component* contains a configured implementation, where the implementation provides the business functions.

The component configures the implementation with specific values for custom properties and by connecting component references to component services or composite references. The connections between references and services are represented by wires.

To configure a composite, follow the tasks below:

- [Task A, Launch the Composite Editor, page 82](#)
- [Task B, Create a Shared Resource, page 82](#)
- [Task C, Add the Shared Resource to Composite, page 83](#)
- [Task D, Add Components, page 83](#)
- [Task E, Add Composite Service, page 84](#)

For more information, refer to the TIBCO ActiveMatrix Service Grid documentation.

Task A Launch the Composite Editor

The Composite Editor is a graphical editor for developing composites.

In a SOA project, the composite file, *SOAPProjectName.composite* is located at The Composite folder. You can double-click the *SOA Project name.composite* file to launch the Composite Editor.

Task B Create a Shared Resource

In order for the ActiveMatrix service to be accessible from external client, a shared resource must be added.



1. From the File menu, select **New > TIBCO Shared resources**.
2. In the TIBCO Resource Wizard dialog, select wizard appropriate to the composite service type:
 - For JMS service, select **JMS**.
 - For SOAP service, select **HTTP Server**.

Click **Next**.

3. Enter a name for the shared resource or accept the default. Specify the parent folder.
4. Click **Finish**.
5. Change the configuration in the Shared Resource Editor if necessary.

Task C Add the Shared Resource to Composite

To add the HTTP Server or JMS shared resource to the composite:

1. Click the canvas in the Composite Editor.
2. Click the **Shared Resource Profiles** tab in the Properties notebook.
3. In the Composite panel, click  in the name column. A new shared resource profile is created. Enter a name or accept the default name.
4. In the type column, choose **HTTP** or **JMS**.
5. In the Target column, click  to bring up the Select Shared Resource dialog.
6. Choose the shared resource and click **OK**.

Task D Add Components

A component contains a configured implementation. To add a component to a composite:

1. In the Composite Editor, drag the `LotusNotesAdapter` component from the Palette to the Components column. And enter a name for the component.
2. In the Properties notebook, click the **Services** tab. Click **Add**.
3. In the Resource Picker dialog, select an adapter endpoint from the left hand pane, and then click **Add** to add the adapter service to the component.
4. Click **OK**.

Figure 25 Add Resources to a Component

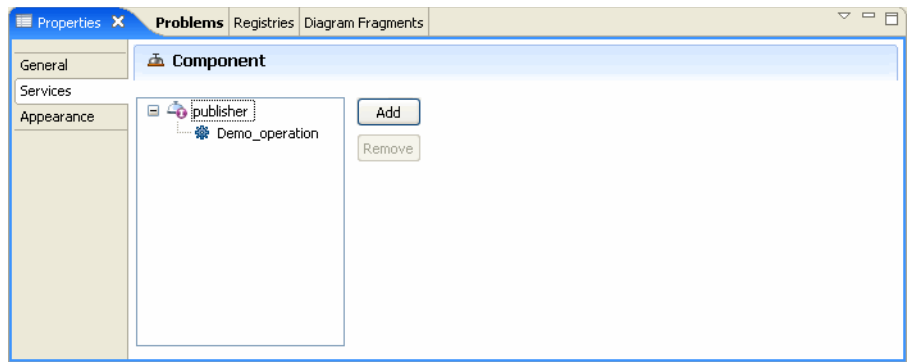


Table 21 lists the fields displayed in the General tab of the adapter component.

Table 21 Fields of the General Tab

| Property Name | Description |
|----------------------|---|
| Name | The adapter component name. |
| Description | The adapter component description. |
| Version | The adapter component version number. |
| Type | (Read-only) The adapter type. |
| SDK Application Name | (Read-only) The instance name of your adapter configuration. Gets populated after adding services to the component. |
| Configuration URI | (Read-only) The adapter configuration that the service uses. Gets populated after adding services to the component. |
| Repository URI | (Read-only) This file contains information used by the container to communicate with the adapter service engine. Gets populated after adding services to the component. |
| TRA File Name | The TRA file to use. |

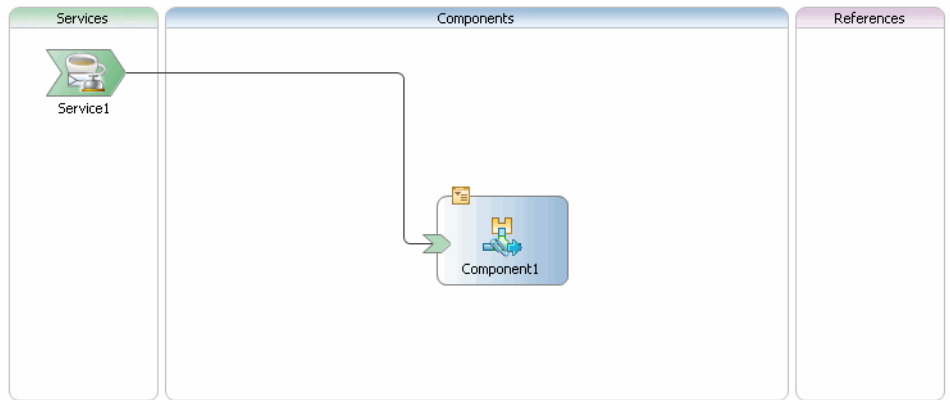
Task E Add Composite Service

A composite service represents a port type and it enables consumers outside the ActiveMatrix environment to access port types implemented within ActiveMatrix.

To add a composite service:

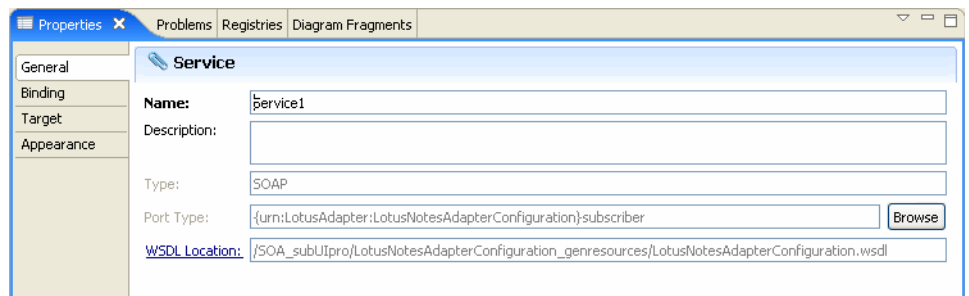
1. In the Composite Editor, drag a service from the Palette to the Services column.
For TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes, only JMS and SOAP services are available.
— Publisher and RPC Client can only use JMS.
— Subscriber, RPC Server, Login, and Logout can use either JMS or SOAP.
2. Enter a name for the service.
3. If you have added the component to the composite, click the **Target** tab of the Properties view, then select the target component to bind with the composite service.

Figure 26 Component and Composite Service Binding



Corresponding information is populated to the General tab and the Binding tab.

Figure 27 General Tab of Composite Service



4. Click the **Binding** tab in the Properties notebook to add the shared resource profile:
 - For JMS service, specify the shared resource profile in the Endpoint section.
 - For SOAP service, specify the transport type and shared resource profile in the Transport Configuration section.

For the SOAP service, you also need to click the **Generate WSDL** button to generate another .wsdl file in the `Composites` folder of the SOA project. This .wsdl file will later be used by an external client to access the service within ActiveMatrix.

Creating Service Assembly and Service Assembly Archive

The adapter services that were created in the design phase have to be packaged into a service assembly before they can be deployed.

A service assembly contains service units and a descriptor that indicates the container into which each service unit is to be deployed into. The service assembly is then used to create a deployable archive, the service assembly archive.

Task A Create or Refresh a Service Assembly

- To create a service assembly:
 1. In the Project Explorer, select the SOA project, expand the `Composites` folder.
 2. Right-click the composite file, and then select **Service Assembly** from the shortcut menu.
 3. Save the composite if prompted.

The deployment package, *projectname.saf* is created in the `Deployment Packages` folder.

- To refresh a service assembly:
 1. In the Project Explorer, select the SOA project, expand the `Deployment Packages` folder.
 2. Right-click the service assembly file, and then select **Refresh Service Assembly** from the shortcut menu.

Task B Create a Deployable Archive

To create a deployable archive:

1. In the Project Explorer, select the SOA project, expand the `Deployment Packages` folder.
2. Right-click the `.saf` file, and then select **Build Archive** from the shortcut menu.
3. Save the `.saf` file if prompted.

When the building process finished, you can find a `.zip` file in the `Deployment Packages` folder.

This service assembly archive can now be deployed and started using TIBCO ActiveMatrix Administrator. See [Deploying the Service Assembly on page 103](#).

Chapter 7

Working with TIBCO ActiveMatrix BusinessWorks

This chapter explains how to use TIBCO ActiveMatrix BusinessWorks adapter activities to work with the adapter service engine.

Topics

- [Overview, page 90](#)
- [Importing Resources from WSDL File, page 91](#)
- [Selecting Web Service for SOAP Activity, page 92](#)
- [Configuring SOAP Activity for Subscriber, page 94](#)
- [Configuring SOAP Activity for RPC Server, page 99](#)
- [Running the Process, page 102](#)

Overview

TIBCO ActiveMatrix BusinessWorks provides ways to access the adapter services that are provided in the form of composites within ActiveMatrix.

JMS Palette

The JMS palette is used to send and receive JMS messages in a process definition. Both the JMS point-to-point (queues) and publish/subscribe (topics) models are supported.

SOAP Palette

For TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes, Subscriber and RPC Server need to be accessed by TIBCO ActiveMatrix BusinessWorks processes from outside the ActiveMatrix. The SOAP palette, along with the WSDL Palette allow you to implement web services. SOAP Request Reply activity provides input information.

The SOAP Request Reply activity performs a request on the specified web service and optionally expects a reply from the web service. You can invoke both documents and RPC web services with this activity.

For more information about business process and activities, see the TIBCO ActiveMatrix BusinessWorks documentation.

Importing Resources from WSDL File

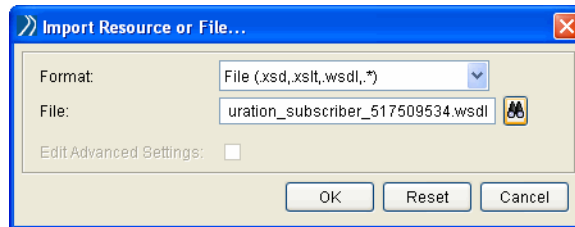
To work with TIBCO ActiveMatrix BusinessWorks, you need create a project in TIBCO Designer, and then import resources from the WSDL file which is generated in TIBCO Business Studio for the SOAP service of the composite.

In TIBCO Designer:

1. Create a new project.
2. From the Project menu, select **Import Resources from File, Folder, URL**.
3. In the Import Resources or File dialog, select **File (.xsd, .xslt, .wsdl, .*)** from the Format list.
4. Click the **Select a file from the file system** button next to the File field to locate the .wsdl file which enables the TIBCO ActiveMatrix BusinessWorks activity to access the composite within ActiveMatrix.

Typically, the .wsdl file is located under the composite folder of the SOA project.

Figure 28 Import Resources from WSDL File



5. Click **OK**.
6. Save the project.



If there are more than one WSDL files generated under the same composite, import resources from all of them.

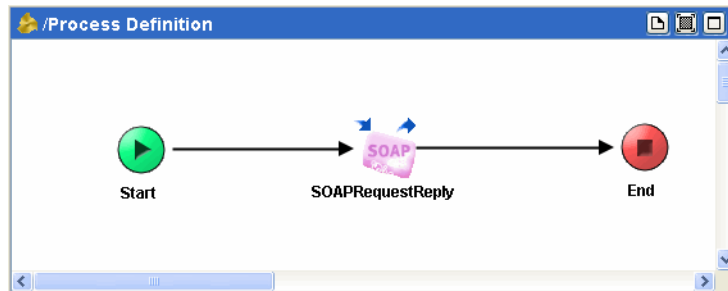
Selecting Web Service for SOAP Activity

To invoke a Subscriber or RPC Server from outside ActiveMatrix, you need associate the web service with a SOAP Request Reply activity.

In TIBCO Designer:

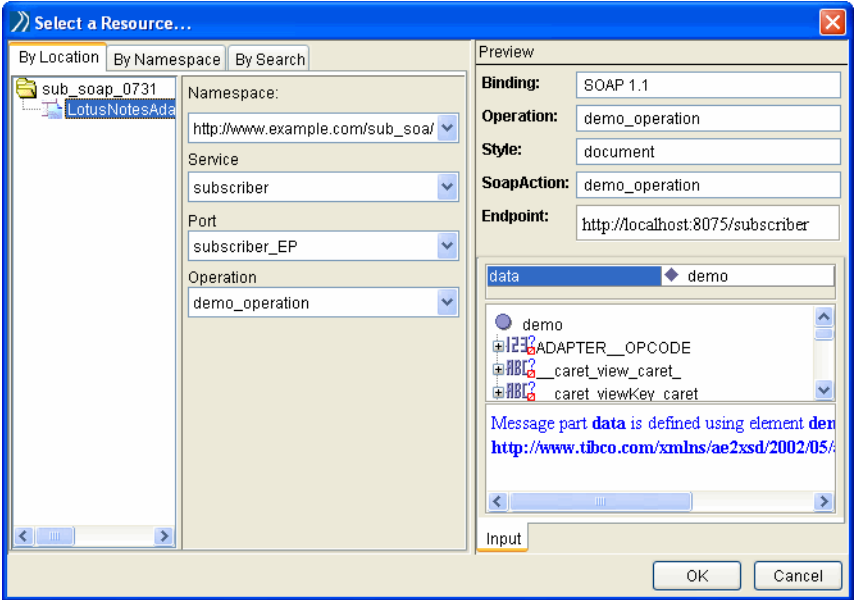
1. In the Palette panel, select the **Process** palette.
2. Drag a **Process Definition** resource from the Palette panel to the Design panel.
3. Double-click the **Process Definition** icon in the Design panel.
4. In the Palette panel, select the **SOAP** palette.
5. Drag a **SOAP Request Reply** activity from the Palette panel to the Design panel.
6. Click the **Create transition** button on the Toolbar. Then connect the Start activity, SOAP Request Reply activity, and the End activity.

Figure 29 Process Definition



7. Select the **SOAPRequestReply** activity in the Design panel.
8. In the Configuration tab, click the **Browse resources** button next to the Service field.
9. In the Select a Resource dialog, click the **By Location** tab, and then select the WSDL file that you imported earlier. Click **OK**.

Figure 30 Select a Resource for SOAP Activity

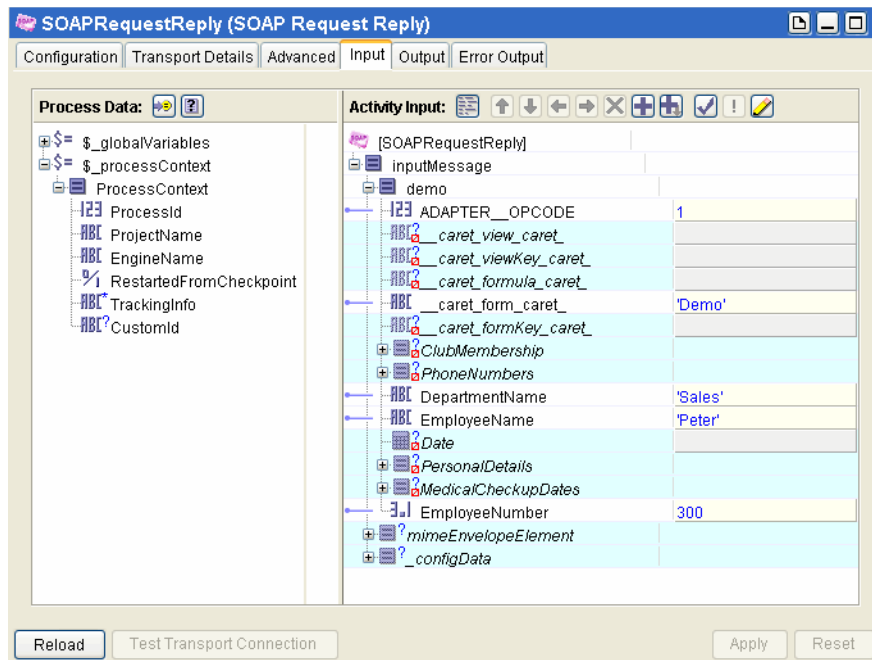


Information related with the web service gets populated into the activity fields.

Configuring SOAP Activity for Subscriber

Most configurations for a SOAP Request Reply activity are carried out in the Activity Input panel under the Input tab.

Figure 31 Input Tab of the SOAP Request Reply Activity



ADAPTER__OPCODE


Subscription Service uses ADAPTER__OPCODE to learn what kind of operation is to be performed on a Lotus Notes database.

You can specify following values in the ADAPTER__OPCODE field: 1 stands for insert, 2 for update, 3 for delete, and 4 for upsert.

Type Coercion

For a document that has fields of type Any, if these fields are to be handled by the adapter in the TIBCO ActiveMatrix BusinessWorks process, you need to change their types in the Input Activity to be specific.

For example, for a document that has attachment to be processed by the adapter, the corresponding field must be changed according to the type of the attachment in the Input activity.

1. In the Input tab, select the field that has an attached file that will be processed by the adapter later.
2. Click the **Edit Statement** button  in the Activity Input pane.
3. In the Edit Statement dialog, click the **Type** tab, select the **Type Substitute** checkbox, and then change the field type according to the type of the attachment.
4. Click **OK**.

Determining Target Documents

Use the following fields to determine which documents will be operated:

- **^view^**: select all documents in this view. When the adapter performs update or delete operation, this option has the highest priority.
- **^viewKey^**: select documents in a view with key fields. This option is used together with **^view^**. Multiple key fields are separated by comma.
- **^formula^**: select documents with a formula. When performing update or delete operation, this attribute has lower priority than the **^view^** attribute.
- **^form^**: select documents with this form name. This is the default option.

If the ADAPTER_OPCODE is set to perform update or delete operation, this field represents the form name of a document to be updated or deleted. This attribute has lower priority than **^formula^**.

- **^formKey^**: select documents of a form with key fields. This option is used together with **^form^**. Multiple key fields are separated by comma. Only documents that match the values of this field will be updated or deleted. The formkey in the incoming message has higher priority over the local properties

You can also refer to the following conditions when perform the update or delete operation:

- Runtime View style: the attributes **^view^** and **^viewKey^** will be used if neither of them are blank.
- Runtime Formula style: the attribute **^formula^** will be used if neither of them are blank.
- Runtime Form style: the attributes **^form^** and **^formKey^** will be used if neither of them are blank.

Designing Form style is similar to the previous style, except that the form and key are not decided at run time but configured at design time.



If the **Enable Key Field on Insert** checkbox is selected, and the key field in the **View Schema** tab has been selected, you should not change the corresponding values of the key field.

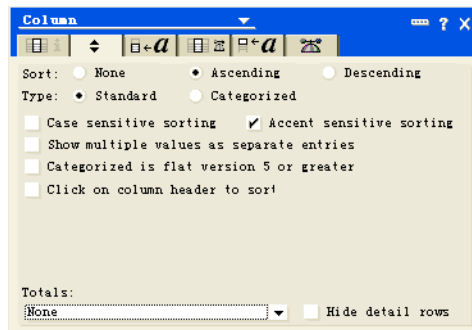
Guidelines on Using the ^viewKey^ Option

When working with the ^viewKey^ option, follow the rules below:

- The key fields specified with this option are columns of the view in Lotus Domino Designer. The field name must be the same as its corresponding column name.
- Only sortable columns can be key fields.

To verify whether a column is sortable, right-click the column name in Lotus Domino Designer, select **Column Properties**, and then click the **Sorting** tab in the **Column** dialog. The column is sortable when the **Sort** setting is **Ascending** or **Descending**.

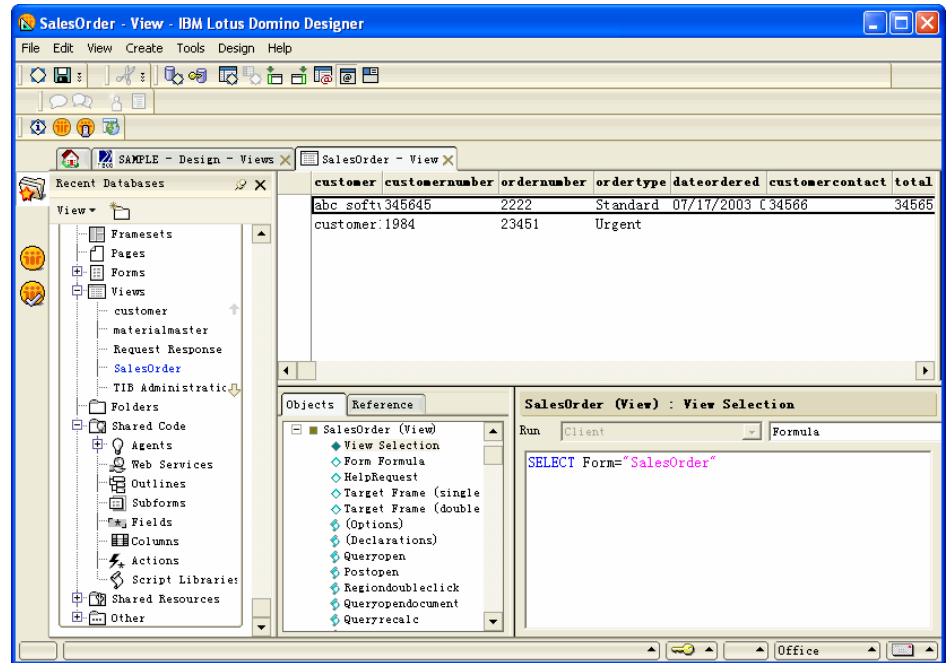
Figure 32 Column Properties



- The sequence of key fields appeared in the ^viewKey^ option must be the same as that of the corresponding columns in the view.
- It's not required to make all sortable columns key fields.
- When a sortable column is used as a key field, all the preceding sortable columns in the view must also be key fields, no matter whether the columns are continuous or not.

Take the **SalesOrder** view in the **sample.nsf** database as an example.

Figure 33 Columns in Sample Database



Assume that there are only three sortable columns: customernumber, ordernumber, and dateordered. In such a case, valid key field options are as follows:

- customernumber
- customernumber,ordernumber
- customernumber,ordernumber,dateordered

Any other combinations are invalid.

Configuring for Subscriber with Dynamic Login

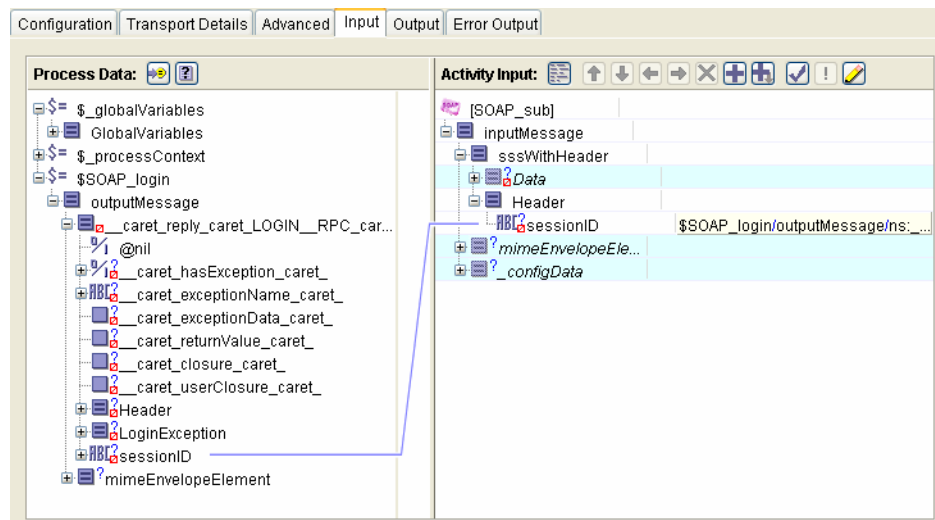
For TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes, if you configure a Subscriber of type With Dynamic Login, you need to specify the sessionID in the Header section and the data to be subscribed in the Data section of the message.

The Input tab of SOAP Request Reply activity displays a sshWithHeader message consisting of a Header section and a Data section.

Header Section

Under the sessionID field of the Header section, specify the sessionID corresponding to the login obtained from the Login Service.

Figure 34 Mapping Session ID in the Header Section



Data Section

Under the data fields of the Data section, specify the values corresponding to the fields in the form for which the Subscription Service is configured.



For Subscriber with Dynamic Login, you need configure SOAP Request Reply activities for Login Service and Logout Service.

Configuring SOAP Activity for RPC Server

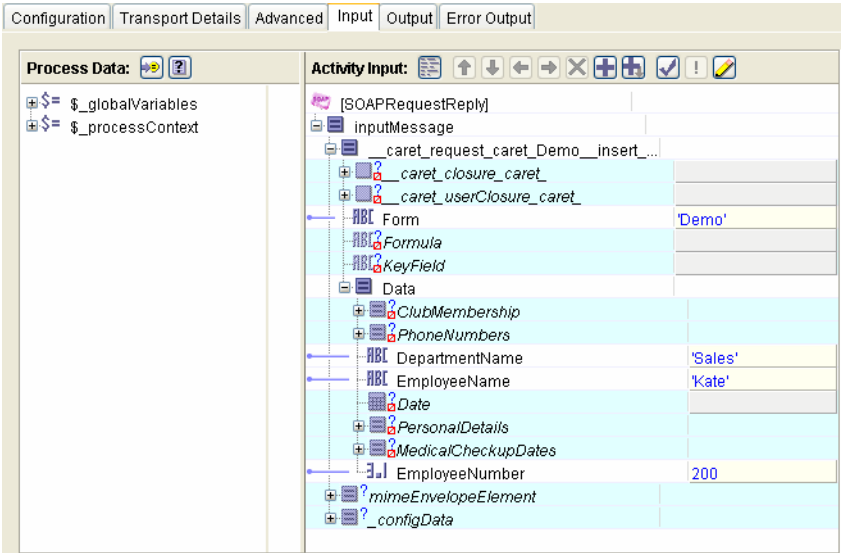
There are five types of operations for a RPC Server: insert, update, delete, upsert, and query. SOAP Request Reply activity gets the operation type from its corresponding RPC Server, while detailed information of all types of operations are defined in the Activity Input panel.

Fields in the Activity Input panel for query operation are different from other types of operations.

Insert, Update, Delete, Upsert

For operation types insert, update, delete, and upsert, the detailed information about how to perform the operation is manually input in the Data section or mapped from other applications. Figure 35 shows the Input tab of an insert operation.

Figure 35 Input Tab of Insert Operation



Query

For operation type query, specify the query type in the `_caret_operationType_caret_` field: formula, runagent, view, or ftsearch. Then enter detailed information according to the query type.

- For the query type `formula`, enter the formula to be executed in the `_caret_formula_caret_` field. See [Guidelines for Using Formula on page 29](#).
- For the query type `runagent`, enter the name of the agent to be called in the `_caret_agentname_caret_` field.

The target field of the agent should not be All selected documents when created in the Lotus Domino Designer.

- For the query type `view`, enter the name of the view to be searched into in the `_caret_view_caret_` field.
- For the query type `ftsearch`, enter full text search parameters in the `ftSearchParameters` field. See [Guidelines for Setting FTSearch Parameters on page 30](#).


If TIBCO ActiveMatrix BusinessWorks is used alone to communicate with a Request-Response Service, you must manually input the information mentioned above.

If TIBCO ActiveMatrix BusinessWorks is used together with a Request-Response Invocation Service to communicate with a Request-Response Service, you should establish a mapping of their fields.

Type Coercion

For a document that has fields of type Any, if these fields are to be handled by the adapter in the TIBCO ActiveMatrix BusinessWorks process, you need to change their types in the Input Activity to be specific.

For example, for a document that has attachment to be processed by the adapter, the corresponding field must be changed according to the type of the attachment in the Input activity.

1. In the Input tab, select the field that has an attached file that will be processed by the adapter later.
2. Click the **Edit Statement** button  in the Activity Input pane.
3. In the Edit Statement dialog, click the **Type** tab, select the **Type Substitute** checkbox, and then change the field type according to the type of the attachment.
4. Click **OK**.

Configuring for RPC Server With Dynamic Login


For RPC Server with dynamic login, three SOAP Request Reply activities are needed. One for Login, one for Logout, and one for RPC Server.

Login Service

For the activity associated with the Login Service, you need map the username and password to the Activity Input fields.

Request-Response Service

For the activity associated with the Request-Response Service, you need map the sessionID from the Login Service to the `_caret_userClosure_caret_` field:

1. In the Input tab, select the `_caret_userClosure_caret_` field.
2. Click the **Edit Statement** button  in the Activity Input pane.
3. In the Edit Statement dialog, click the **Type** tab, select the **Type Substitute** checkbox, and then change the field type to `String`.
4. Map the sessionID obtained through the Login Service to the `_caret_userClosure_caret_` field.

Logout Service

For the activity associated with the Logout Service, you need map the SessionID to the Activity Input fields.

Running the Process

After the service assembly has been started successfully using TIBCO ActiveMatrix Administrator, run the process in TIBCO Designer:

1. Click the **Tester** tab, and click the **Start testing viewed process** button.
2. Select the process that you want to run.
3. Click **Load Selected**.

See [Deploying the Service Assembly on page 103](#) for information about how to start service assembly using TIBCO ActiveMatrix Administrator.

Chapter 8

Deploying the Service Assembly

This chapter describes how you can deploy a service assembly archive using TIBCO ActiveMatrix Administrator.

Topics

- [Overview, page 104](#)
- [Using the EAR2SA Tool, page 105](#)
- [Deploying a Service Assembly Archive, page 106](#)

Overview

The adapter service engine enables the adapter to run in the ActiveMatrix environment as a container and to provide services.

Adapter projects created using TIBCO Designer can also be packaged for deployment in the ActiveMatrix environment. Adapter projects can be designed to run in the following modes:

- **Wired Mode**—The adapter component is wired with other composite elements in the ActiveMatrix SOA project. Projects running in this mode interact with other components in the ActiveMatrix environment.

Projects created using TIBCO Business Studio always run in the wired mode. See [Creating Service Assembly and Service Assembly Archive on page 87](#) for more information about creating the service assembly archive.

- **Unwired Mode**—The adapter component in the ActiveMatrix SOA project is not wired with other composite elements and does not participate in the ActiveMatrix environment. Projects running in the unwired mode do not provide services to or consume services from other ActiveMatrix components. The adapter configurations merely run in the ActiveMatrix node but the deployments can be life-cycled using TIBCO ActiveMatrix Administrator.

Projects imported using the .ear file always run in the unwired mode. See [Using the EAR2SA Tool on page 105](#) for more information about creating service assembly archive from a .ear file.

Using the EAR2SA Tool

An adapter EAR file created using TIBCO Designer is first imported into TIBCO Business Studio.

To create a service assembly archive from an EAR file:

1. From the File menu, select **New > Project**.
2. In the New Project dialog, expand **TIBCO ActiveMatrix**, select **ActiveMatrix SOA Project**. Click **Next**.
3. Type a name in the Project name field and click **Finish**.
4. In the Project Explorer view, right-click the folder and select **Import...**
5. Choose **General > File System**.
6. Click the **Browse** button to navigate to the directory where the .ear file is located.
7. Choose the .ear file and click **OK**.
8. In the Project Explorer view, right-click the imported .ear file and then select **Build Service Assembly Archive**.
9. The service assembly archive, *EAR_fileName.zip*, is created under the Deployment Packages folder.

The service assembly archive that is created can now be deployed.



The project will continue to use the encoding set in the Designer project.

Deploying a Service Assembly Archive

This section describes the tasks to configure and deploy a service assembly. These tasks are performed using TIBCO ActiveMatrix Administrator. Deploying a service assembly archive involves the following activities:

- [Uploading a Service Assembly Archive, page 106](#)
- [Configuring the Service Assembly, page 106](#)
- [Deploying the Service Assembly, page 107](#)
- [Starting the Service Assembly, page 108](#)



Before proceeding, ensure that the environment for TIBCO ActiveMatrix has been configured correctly. See TIBCO Activematrix documentation for more information about how to configure the environment.

Uploading a Service Assembly Archive

The following steps describe how to upload the service assembly archive:

1. Select the **Deploy to an Environment** perspective.
2. Choose the Environment, and then click **Upload Service Assembly**.
3. In the **Name** field, enter a name for the service assembly.
4. Click **Browse** to select an archived ZIP file (the SA project) which was generated in TIBCO Business Studio.
5. Select the **Import Shared Resource Definitions** checkbox to create the shared resources definitions from the definitions in the service assembly archive.
6. Click **OK**.

The service assembly will appear in the Service Assemblies table.

Configuring the Service Assembly

To configure a service assembly, you need complete the following tasks.

Task A Configure the Service Unit

Specify the nodes on which the service units in the service assembly will be deployed.

1. In the Service Assemblies table, select the service assembly.

2. Click **Service Units** to view the service units in the selected service assembly.
3. For each service unit in the service assembly, do the following:
 - a. Select a service unit in the Service Units table.
 - b. In the Node Mapping tab, click **Edit**, select the nodes that you want to deploy the service unit to in the Available Nodes list, and then click the right arrow button. The nodes will appear in the Mapped Nodes list.
 - c. Click **Save**.

The service unit properties are displayed in the following tabs:

- **Node Mapping** — you can map the nodes to service units. See *TIBCO ActiveMatrix Administration* for details.
- **Substitution Variables** — you can specify the value of the service unit's substitution variables. See *TIBCO ActiveMatrix Administration* for details.

Task B Start Node and Install Shared Resources

If an ActiveMatrix Service (JMS or SOAP) is included in the SA project, you need install the corresponding Shared Resource for the appropriate node.

1. In the web browser, select **Configure an Environment** in the Perspective drop-down list, and then select the appropriate Environment.
2. In the Nodes table, select the appropriate node. Click **Start**.
3. In the node detail panel, select **Shared Resources**.
4. Select the corresponding shared resource. Click **Edit**.
5. In the Enabled at Startup column, select the **Yes** radio button. Click **Save**.
6. On the top of the Shared Resources table, click **Install**.

Deploying the Service Assembly

A service assembly is ready to be deployed once the service assembly is uploaded and configured. Before proceed with deploying the service assembly, verify the following:

- All nodes required for deployment are running.
- All containers required for deployment are activated.
- All shared resources are installed.

To deploy a service assembly:

1. In the Service Assemblies table, select the service assembly.

2. Click **Deploy**.

Once the service assembly is deployed, the status changes to `Deployed`.

Starting the Service Assembly

After a service assembly has been successfully deployed, you can start it, and if required, stop it.

1. In the Service Assemblies table, select one or more service assemblies.
2. To start the selected service assemblies, click **Start**. The status changes to `Running`.
3. To stop the selected service assemblies, click **Stop**. The status changes to `Deployed`.

Chapter 9 **Advanced Topics**

This chapter explains advance topics of advanced features of TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes.

Topics

- [Managing Logging, page 110](#)
- [Using the Adapter Service Engine with a Revision Control System, page 111](#)
- [Using Substitution Variables, page 112](#)
- [Lotus Notes Language Support, page 117](#)

Managing Logging

Trace messages are used to trace and troubleshoot an exception condition when an exception occurs at runtime.

You can configure the logging of trace messages using the TIBCO Common Logging framework by leveraging on the availability of Common Logging libraries in the ActiveMatrix environment. The Common Logging framework provides common messages and error codes that can be used across TIBCO products to log messages in a uniform manner.

To enable the common logging feature, the following properties are used:

- `application.ase.consoleoutput`
- `tibco.env.ADAPTER_ENABLE_CL`

The following table describes the usage of these properties.

Table 22 Properties for Common Logging Feature

| Property Values | Behavior |
|--|---|
| <code>application.ase.consoleoutput = false</code> <code>tibco.env.ADAPTER_ENABLE_CL = false</code> | The common logging feature is disabled and the trace messages are written to the adapter log files. |
| <code>application.ase.consoleoutput = true</code> <code>tibco.env.ADAPTER_ENABLE_CL = false</code> | The common logging feature is disabled and the trace messages are displayed on the console. When the <code>application.ase.consoleoutput</code> property is set to <code>true</code> , any value assigned to the <code>tibco.env.ADAPTER_ENABLE_CL</code> property is ignored. |
| <code>application.ase.consoleoutput = false</code> <code>tibco.env.ADAPTER_ENABLE_CL = true</code> | The common logging feature is enabled. |

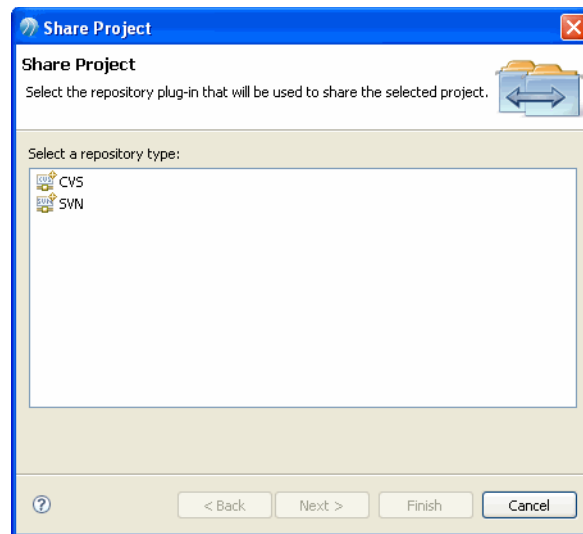
Using the Adapter Service Engine with a Revision Control System

TIBCO Business Studio supports revision control systems such as Microsoft Visual SourceSafe, TortoiseSVN, and Perforce.

To add a project to the revision control system:

1. Start TIBCO Business Studio.
2. In the Project Explorer, right-click the project that you want to add, select **Team > Share Project**.
3. In the Share Project dialog, select a repository type to share the project. Click **Next**.
4. Enter necessary parameters when prompted.

Figure 36 Add Files to the Revision Control System



Using Substitution Variables

The variable substitution mechanism can override substitution variables predefined in the project in a restricted manner. Predefined variables can be viewed and set in TIBCO Business Studio. Variables are specified as %%VARNAME%% and cannot contain any white space.

Variable substitution allows you to accomplish the following.

- Substitute string variables specified in the project at startup time.
- Locally define the value for a variable for a specific project. The local value takes precedence over any global value.
- Specify the value for a variable in a properties file. This overrides the project repository and values set in code, but not variables set on the command line.
- Enforce the pre-defined variables listed in [Predefined Substitution Variables on page 114](#).

Variables can be used anywhere in the configuration and will be replaced by the locally defined adapter instance.

Variable Specification

The adapter service engine can specify variables in the project during configuration using TIBCO Business Studio. It can also specify variables in a properties file. The properties file values overwrite values set in the project.

Specifying Substitution Variables Using TIBCO Business Studio

Substitution variables provide an easy way to set defaults for use throughout your project.

For example, you could assign the value 7600 to the predefined substitution variable `RvaPort`. And then use the variable in different sessions in the adapter service engine. To change the TIBCO Rendezvous daemon for the adapter service engine, globally set it to a different value or override it from the command line.

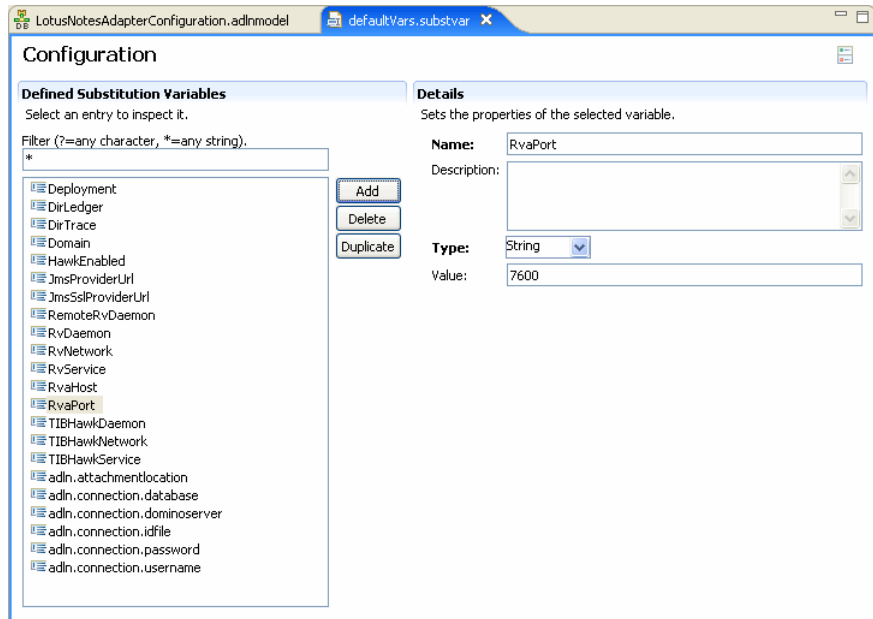
To use substitution variables in your project:

1. In the Project Explorer, expand **defaultVars**, double-click **defaultVars.substvar**.
2. All currently defined substitution variables are displayed in the editor view.

You can do the following:

- To assign or change a variable value, select the variable from the Defined Substitution Variables section, then go to the Details section, enter the new value in the Value field.
- To add a substitution variable, click **Add** in the Defined Substitution Variables section. A new substitution variable entry is added to the bottom of the list. Enter the variable name, type, and, optionally, the value and description.

Figure 37 Substitution Variables



3. To use the substitution variable in the fields of a resource, enter the variable name enclosed with %% on both sides or pick a substitution variable from the Binding Editor.

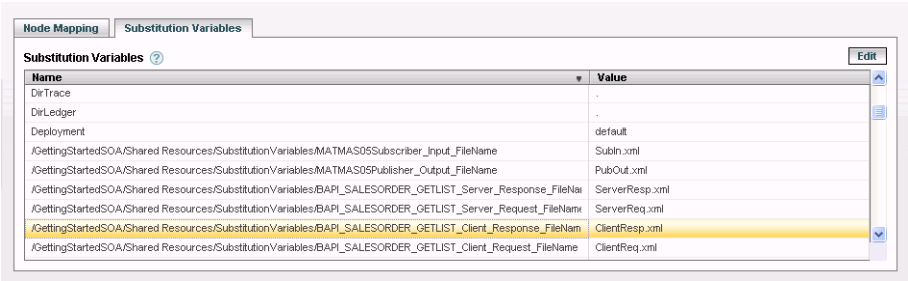
When the project is deployed and the configured components are run, all occurrences of the substitution variable name are replaced with the substitution variable value (unless it was overridden in a way that had higher precedence). For example, `RvService` would be replaced with `7500`.

Changing Substitution Variables at Runtime

At runtime, you can update the values of the substitution variables using TIBCO ActiveMatrix Administrator.

The following figure shows the Substitution Variables editor in TIBCO ActiveMatrix Administrator, where you can specify runtime values for substitution variables

Figure 38 Substitution Variables in TIBCO ActiveMatrix Administrator



A number of substitution variables are predefined. See [Predefined Substitution Variables on page 114](#) for information. You can add definitions of any variables you need to the predefined variables.

Predefined Substitution Variables

Table 23 lists and explains the predefined substitution variables. Some of them are automatically used within the system when an adapter instance is configured.

Table 23 Predefined Substitution Variables

| Variable | Description |
|----------------|---|
| Deployment | Defaults to the project name. This variable is used by the system to partially define the subject name defined for a service. |
| DirLedger | Used by the system when defining the path name of the TIBCO Rendezvous certified messaging ledger file. The default is root installation directory. |
| DirTrace | Used by the system to partially create the path name for log file used by the adapter. The default is the root installation directory. |
| Domain | The default value is Domain. This value can be any string value. This variable is used by the system to partially define the subject name defined for a service. |
| HawkEnabled | Used by the system to indicate whether TIBCO Hawk is used to monitor the adapter. True indicates that a Hawk microagent is defined for the adapter. False indicates the microagent is not to be used. |
| JmsProviderUrl | Specifies where the EMS server is located. Setting this value mostly makes sense in early stages of a project, when only one EMS server is used. |

Table 23 Predefined Substitution Variables (Cont'd)

| Variable | Description |
|-------------------------|--|
| JmsSslProviderUrl | Specifies where the EMS SSL daemon is located. |
| RemoteRvDaemon | Used by the system to identify the TIBCO Rendezvous routing daemon. See <i>TIBCO Rendezvous Administration</i> for details about specifying the routing daemon name. |
| RvDaemon | Used by the system to identify the TIBCO Rendezvous daemon parameter. The parameter instructs the transport object about how and where to find the Rendezvous daemon and establish communication. The default value is "tcp: 7500", which is the default value used by the Rendezvous daemon. See <i>TIBCO Rendezvous Concepts</i> for details about specifying the daemon parameter. |
| RvNetwork | Used by the system to identify the TIBCO Rendezvous network parameter. Every network transport communicates with other transports over a single network interface. On computers with more than one network interface, the network parameter instructs the TIBCO Rendezvous daemon to use a particular network for all outbound messages from this transport. See <i>TIBCO Rendezvous Concepts</i> for details about specifying the network parameter. |
| RvService | Used by the system to identify the TIBCO Rendezvous service parameter. The Rendezvous daemon divides the network into logical partitions. Each transport communicates on a single service; a transport can communicate only with other transports on the same service. The default value is 7500. You can change the default value depending on your service requirement. See <i>TIBCO Rendezvous Concepts</i> for details about specifying the service parameter. |
| RvaHost | Used by the system to identify the computer on which the TIBCO Rendezvous agent runs. See <i>TIBCO Rendezvous Administration</i> for details about specifying the rva parameters. |
| RvaPort | Used by the system to identify the TIBCO Rendezvous agent TCP port where the agent listens for client connection requests. See <i>TIBCO Rendezvous Administration</i> for details about specifying the rva parameters. |
| TIBHawkDaemon | Used by the system to identify the TIBCO Hawk daemon parameter. See the <i>TIBCO Hawk Installation and Configuration</i> manual for details about this parameter. |
| TIBHawkNetwork | Used by the system to identify the TIBCO Hawk network parameter. See the <i>TIBCO Hawk Installation and Configuration</i> manual for details about this parameter. |
| TIBHawkService | Used by the system to identify the TIBCO service parameter. See the <i>TIBCO Hawk Installation and Configuration</i> manual for details about this parameter. |
| adln.attachmentlocation | Used by the runtime adapter to identify the location of the attachment file that has to be attached with the Lotus Notes Document. |

Table 23 *Predefined Substitution Variables (Cont'd)*

| Variable | Description |
|------------------------------|--|
| adln.connection.database | Used at design-time to identify the name of the .nsf file to connect to. If the .nsf file resides in the local file system, specify the entire path in order to access the database. |
| adln.connection.dominoserver | Used at design-time to identify the name of the machine that hosts the Lotus Domino Server. |
| adln.connection.idfile | Used at the design-time to identify the ID file is the User ID file location in the local file system. |
| adln.connection.password | Used at the design-time to identify the password associated with the username that is used to log on to Lotus Notes. |
| adln.connection.username | Used at the design-time to identify the username used to log on to Lotus Notes. |

Lotus Notes Language Support

Language support refers to the ability of a product to support basic input, display, and data integrity (during storage and/or transmission) for character sets of various languages. Multiple language support is often grouped by region, because different code pages are used by different operating systems to support the characters found in various languages:

- English and Western Languages;
- Eastern European and Cyrillic languages;
- other single byte character set languages such as Greek, Turkish, Thai, Hindi, etc.;
- DBCS languages, as listed earlier;
- bi-directional languages, like Arabic or Hebrew.

The advantage of having multiple language support is the ability to create documents that can contain characters from any of the supported languages.



For details on language support for Lotus Notes, refer to the Lotus White Paper on Globalization.

Encoding Support

The adapter service engine supports the character sets listed in [Table 24](#).

Table 24 Encoding Support

| Encoding | Description |
|-------------------|---|
| ASCII | 7-bit ASCII |
| Shift_JIS (CP943) | Japanese Shift-JIS, CP943 |
| BIG 5 | Traditional Chinese BIG5 (with Euro Sign) |



For the Lotus Notes agents, the data sent over HTTP are strings, which are in Java unicode by default. The Java strings are converted to UTF8 encoding so that there will be no issues in globalization.

Prerequisite for Globalization

For the adapter service engine to run against the Japanese and Chinese (BIG5) character sets, it is recommended to install the Lotus Notes application software on Japanese and Chinese languages.

How the Adapter Service Engine Handles Unicode and Date Formats

The adapter extracts and inserts character data and dates from and into the Lotus Notes application using Lotus Notes APIs.

Character data is processed as standard Java Strings (`java.lang.String`).

Date data is returned as a Lotus data type called `DateTime`(`lotus.domino.DateTime`) which can be converted to a standard Java `Date`(`java.util.Date`) regardless of date formats. Similarly a standard `java.util.Date` can be converted into a `lotus.domino.DateTime` to insert a date value in the Lotus Notes application.

Appendix A **Trace Messages**

This appendix explains the trace messages that are logged to a location specified at configuration time.

Topics

- [Overview, page 120](#)
- [Trace Message Fields, page 122](#)
- [Status Messages, page 123](#)

Overview

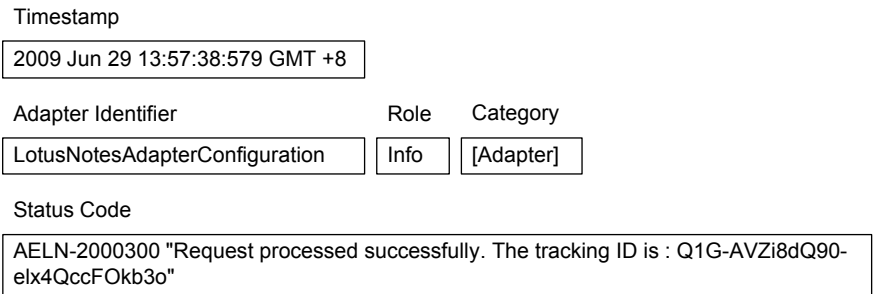
Trace messages provide information about adapter activities. The messages are logged to the console where the runtime adapter was started and to a log file. Trace messages can also be redirected to the TIBCO Hawk Display application, or sent to other applications using the TIBCO Rendezvous transport.

Each trace message includes the following fields:

<Timestamp> <Adapter Identifier> <Role> <Category> <Status Code>

The above fields are explained in [Trace Message Fields on page 122](#). [Figure 39](#) shows an example trace message and calls out the fields.

Figure 39 Trace Message



Example Trace Messages

The following trace messages were written during a session where TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes received an insert request and create a new document in Lotus database.

The first message indicates that TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes received a request. The timestamp indicates when the request is received, and the role indicates that the message is informational, which means the activity is normal for the adapter. The category is identified, and the corresponding status code is displayed.

2009 Jun 29 13:57:37:829 GMT +8 LotusNotesAdapterConfiguration Info [Server] AELN-2000333 "Received a New Request. The tracking ID is: Q1G-AVZi8dQ90-elx4QccFOkb3o"

The next set of trace messages indicates the adapter performs the insert operation and a new document is created in the database.

2009 Jun 29 13:57:38:188 GMT +8 LotusNotesAdapterConfiguration Info [Adapter] AELN-2000303 "Performing the Inserts"

```
2009 Jun 29 13:57:38:579 GMT +8 LotusNotesAdapterConfiguration Info  
[Server] AELN-2000274 "Document successfully created in the  
database..."
```

The final trace message indicates the request has been processed successfully. The tracking identifier included in the message uniquely identifies the message.

```
2009 Jun 29 13:57:38:579 GMT +8 LotusNotesAdapterConfiguration Info  
[Adapter] AELN-2000300 "Request processed successfully. The  
tracking ID is : Q1G-AVZi8dQ90-elx4QccF0kb3o"
```

Trace Message Fields

Table 25 lists the fields in each trace message.

Table 25 Tracing Fields

| Field Name | Description |
|---------------------|--|
| Timestamp | Timestamp of occurrence. For example, 2009 Jun 29 13:57:38:579 GMT +8. |
| Adapter Identifier | Name of the adapter that wrote the trace message. This is the adapter configuration name. |
| Role | <p>A role can be:</p> <p>Info Indicates normal adapter operation. No action is necessary. A tracing message tagged with Info indicates that a significant processing step was reached and has been logged for tracking or auditing purposes. Only info messages preceding a tracking identifier are considered significant steps.</p> <p>Warn An abnormal condition was found. Processing will continue, but special attention from an administrator is recommended.</p> <p>Error An unrecoverable error occurred. Depending on the error severity, the adapter may continue with the next operation or may stop altogether.</p> <p>Debug A developer-defined tracing message. In normal operating conditions, debug messages should not display.</p> <p>When configuring the adapter you define what roles should or should not be logged. For example, you may decide not to log Info roles to increase performance.</p> |
| Category | <p>One of the following:</p> <p>Adapter The adapter is processing an event.</p> <p>Application The adapter is interacting with the Lotus Notes application.</p> <p>Client The Request-Response Invocation Service is reporting this trace message.</p> <p>Server The Request-Response Service is reporting this trace message.</p> |
| Status Code | Unique code for the message and description. Status codes are identified by a unique number and description. If a trace message includes an error or warn role, the status code documentation includes a resolution. See Status Messages on page 123 for details. |
| Tracking Identifier | <p>A unique identifier that is "stamped" on each message by the originating adapter. The tracking identifier remains in effect from a message's beginning to its completion as it is exchanged by TIBCO applications. If the adapter is the termination point of the message, the tracking identifier is not displayed in the trace message.</p> <p>You cannot modify the tracking identifier format or configure what information is displayed.</p> <p>In TIBCO ActiveMatrix Adapter Service Engine for Lotus Notes, the tracking identifier is within the status code.</p> |

Status Messages

In environments where multiple applications are used simultaneously, the possible status of messages increases as well. This appendix lists the various messages in numerical order.

Table 26 Status Message

| Status Code | Role | Category | Resolution |
|---------------|--|---------------|--|
| AEADLN-500001 | Fatal Error/Error in creating staticmetadata classes and sequences | | |
| | Error | Configuration | Check the adapter configuration settings. |
| AEADLN-500002 | Fatal Error/Error in creating replymetadata class | | |
| | Error | Configuration | Check the adapter configuration settings. |
| AEADLN-500003 | Fatal Error/Error in creating onewaymetadata class | | |
| | Error | Configuration | Check the adapter configuration settings. |
| AEADLN-500004 | Configuration Rename Error/ Adapter Configuration names must have only alphanumeric characters with no embedded spaces and can be up to 80 characters long. Type in a valid name. | | |
| | Error | Configuration | Enter a valid name without spaces and less than 80 characters. |
| AEADLN-500005 | Lotus Notes Adapter Instance/Do you want to rename the configuration instance %1'? | | |
| | Warning | Configuration | Indicates normal adapter operation. No action required. |
| AEADLN-500006 | Message/Design-Time Connection is successful | | |
| | Information | Configuration | Indicates normal adapter operation. No action required. |
| AEADLN-500007 | Design-Time Connection Failed/%1 | | |
| | Error | Configuration | Check the design-time connection parameters. |
| AEADLN-500008 | Message/ Specify a valid Lotus Notes Database name | | |
| | Warning | Configuration | Check if the database exists and the name is entered properly. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|---------------|--|
| AEADLN-500009 | Message/Run-Time Test Connection is successful | | |
| | Information | Configuration | Indicates normal adapter operation. No action required. |
| AEADLN-500010 | Run-Time Test Connection Failed/%1 | | |
| | Error | Configuration | Check the run-time connection parameters. |
| AEADLN-500011 | Message/Specify a valid Lotus Notes Database name | | |
| | Warning | Configuration | Check if the database exists and the name is entered properly. |
| AEADLN-500012 | Error Occurred/Error updating RPC class | | |
| | Error | Configuration | Check if the database exists and the name is entered properly. |
| AEADLN-500013 | Error Occurred/Error updating Record class with noteId field | | |
| | Error | Configuration | Check if the database exists and the name is entered properly. |
| AEADLN-500014 | Fatal Error/Error in reading the Design-time panel connection parameters | | |
| | Error | Configuration | Check if the design-time connection-time parameters are entered correctly. |
| AEADLN-500015 | Field:Instance Name/Palette error. Adapter Configuration names must have only alphanumeric characters with no embedded spaces and can be up to 80 characters long. Type in a valid name. | | |
| | Error | Configuration | Enter a valid name without spaces and less than 80 characters. |
| AEADLN-500016 | Field:No Retries Before Suspend/Palette error. The Number of Reconnect Attempts must be greater than or equal to 0, and less than or equal to 65535 | | |
| | Error | Configuration | Enter a number between 0 and 65535. |
| AEADLN-500017 | Field:HTTP Port to Listen to LotusNotes Events/Palette error. The Port must be greater than 0, and less than or equal to 65535. | | |
| | Error | Configuration | Enter a number greater than zero and less than or equal to 65535. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|--|---------------|---|
| AEADLN-500018 | Field:Max No of Retries/Palette error. The Maximum Number of Retries must be greater than or equal to -1, and less than or equal to 65535 | | |
| | Error | Configuration | Enter a number greater than or equal to -1 and less than or equal to 65535. |
| AEADLN-500019 | Field:Sleep Between Retries/Palette error. The Sleep Between Retries must be greater than or equal to 0, and less than or equal to 65535 | | |
| | Error | Configuration | Enter a number greater than or equal to 0 and less than or equal to 65535. |
| AEADLN-500020 | Field:Polling Interval/The value entered should be greater than 0 and less than 65535 | | |
| | Error | Configuration | Enter a number greater than zero and less than 65535. |
| AEADLN-500021 | Field:Polling Batch Size/The value entered should be greater than or equal to 0 and less than 65535 | | |
| | Error | Configuration | Enter a number greater than or equal to 0 and less than 65535. |
| AEADLN-500022 | Field:Termination Subject/Palette error. This field is mandatory | | |
| | Error | Configuration | Enter a value for the termination subject and do not leave the field blank. |
| AEADLN-500023 | Field:Database/Palette error. This field is mandatory | | |
| | Error | Configuration | Enter a value for database field and do not leave the field blank. |
| AEADLN-500024 | Connection Retry Mechanism Warning/This adapter version does not support connection retry mechanism. The values configured in the Run-time Connection tab will be ignored | | |
| | Warning | Configuration | You are probably using an older version of the adapter which does not support connection retry mechanism. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|---------------|--|
| AEADLN-500025 | Connection Retry Mechanism Warning/This adapter version does not suspend services on connection failure. The configured value 'Number of Reconnect Attempts Before Suspending Impacted Service(s)' will be ignored | | |
| | Warning | Configuration | You are probably using an older version of the adapter which does not support suspending services on connection failure. |
| AEADLN-500026 | JMS Service Configured/This adapter's version does not support JMS services, but one was found. Use the GO TO button to select it. | | |
| | Error | Configuration | Do not use JMS service if you are using an older version of the adapter which does not support JMS services. |
| AEADLN-500027 | XML Wire Format found/This adapter version does not support XML Wire Format | | |
| | Error | Configuration | Do not use XML wire format if you are using an older version of the adapter which does not support XML wire format. |
| AEADLN-500028 | Multiple Type of services found/This adapter version does not support multiple type of services to reside in the same adapter instance configuration | | |
| | Error | Configuration | Do not configure more than one service in an instance if you are using an older version of the adapter. |
| AEADLN-500029 | Field:Instance Name/Names for adapters of the same type should be unique | | |
| | Error | Configuration | Check if there is another adapter instance with the same name. If so, enter a unique name. |
| AEADLN-500030 | Palette Error/Palette error. The value of 'Number of Reconnect Attempts Before Suspending Impacted Service(s)' should be less than the value of 'Maximum Number of Reconnect Attempts/' | | |
| | Error | Configuration | Check if the value of number of reconnect attempts is less than the maximum number of reconnect attempts. |
| AEADLN-500031 | Global Variable File Read-Only File/Global Variable files needs to be checked out in order to successfully create the adapter | | |
| | Error | Configuration | Check if the global variable file is locked. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|--|---------------|---|
| AEADLN-500032 | Error During Delete : Read-Only File/The resource " %1 " could not be deleted. Delete requires that " %2 " must be checked out. Check out the resource and try deleting again. You can select the resource to be checked out by clicking the "Go To Resource" button. | | |
| | Error | Configuration | Check out the associated resource and try again. |
| AEADLN-500033 | Error During Rename : Read-Only File/The resource " %1 " could not be renamed. Rename requires that " %2 " must be checked out. Check out the resource and try renaming again. You can select the resource to be checked out by clicking the "Go To Resource" button. | | |
| | Error | Configuration | Check out the associated resource and try again. |
| AEADLN-500034 | Warning:Add File to RCS | | |
| | Warning | Configuration | Add file to RCS. |
| AEADLN-500035 | Message: "%1" was created during schema generation. Ensure that this resource "%2" is added to RCS and checked in. Click the Go To Resource button to select the resource | | |
| | Warning | Configuration | Add file to RCS. |
| AEADLN-500036 | Transformation Plugin Warning/Warning: This adapter version does not support transformation plugin. The transformation plugin configuration will be ignored. | | |
| | Warning | Configuration | Check the AE version. Older AE versions do not have the Message Filter. |
| AEADLN-500037 | Fatal Error/Error in creating HeaderComponent for Subscriber | | |
| | Error | DTA | Check the project file if it is proper; else re-open the project. |
| AEADLN-500038 | Field:Session Idle Timeout/The value entered should be greater than or equal to 0 and less than 65535 | | |
| | Error | DTA | Enter a valid value for Session Idle Timeout. |
| AEADLN-500039 | Field:Session Expiry Time/The value entered should be greater than or equal to 0 and less than 65535 | | |
| | Error | DTA | Enter a valid value for Session Expiry Time. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|----------|---|
| AEADLN-500040 | Field:Session Idle Timeout/.The Session Idle Timeout value should be less than or equal to Session Expiry Time value. | | |
| | Error | DTA | Enter a valid value for Session Expiry Time and Session Idle Timeout. |
| AEADLN-510001 | Operation Schema Generation Successful/Request-Response Operation Schema for handling query requests is successfully associated with the service | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-510002 | Message/View Name Not chosen/Select a Lotus View name using Fetch Schemas | | |
| | Error | SRVC | Select a view name using the FetchSchema option and check whether a valid database name has been specified in the instance level. |
| AEADLN-510003 | Message/%1 | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-510004 | Message/Publisher Schema regenerated with user Specified Name %1 | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-510005 | Message/Publisher Schema regenerated with default Name %1 | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-510006 | Message/Schema regeneration failed | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-510007 | Error occurred/Form property chosen. Specify a Lotus Form | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|----------------|---|----------|---|
| AEADLN-510008 | Message/Subscriber Schema will be generated with user Specified Name %1 | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-510009 | Message/Subscriber Schema will be generated with default Name %1 | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-510010 | Message/Schema regeneration failed | | |
| | Error | SRVC | Check if the schema exists in the Lotus Notes database. |
| AEADLN-510011 | Schema Generation Failed/No Lotus Notes documents available in the requested view. Create a sample document in the database for the chosen view name | | |
| | Information | SRVC | Make sure that there is at least one document in the requested view. If not, create a sample document. |
| AEADLN-510012 | Multiple Type of services found/This adapter version does not support multiple type of services to reside in the same adapter instance configuration | | |
| | Warning | SRVC | Do not configure more than one service in an instance if you are using an older version of the adapter. |
| AEADLN-5100015 | Error/The name WithHeader for class names is reserved. Specify a different name | | |
| | Information | DTA | Indicates normal adapter operation. No action required. |
| AEADLN-5100016 | Message/Classname cannot end with 'WithHeader'. This string will be removed and the new class name will be updated in SaveAs:column | | |
| | Information | DTA | Indicates normal adapter operation. No action required. |
| AEADLN-5100017 | Message/You have selected Subscriber Type: With Dynamic Login | | |
| | Information | DTA | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|----------|---|
| AEADLN-520013 | Illegal Operation/Selected Resource Cannot Be Moved | | |
| | Warning | SRVC | Check if the associated schema of the resource is locked. |
| AEADLN-520014 | Deleting Schema Reference/%1 Schema already exists. Do you want to Update Schema? | | |
| | Warning | SRVC | Indicates normal adapter behavior. No action required. |
| AEADLN-520015 | Schema Generation Successful/RPC Operation Schema generated with name %1 Special characters in View Names will be removed when generating schemas | | |
| | Information | SRVC | Indicates normal adapter operation. No action required. |
| AEADLN-520016 | Error During Move Paste : Read-Only File /The resource " %1 " could not be moved pasted. Move Paste requires the " %2 " must be checked out. Check out the resource and try move paste again. You can select the resource to be checked out by clicking the "Go To Resource" button. | | |
| | Error | SRVC | Check out the associated resource and try again. |
| AEADLN-520017 | Error During Delete : Read-Only File/The resource " %1 " could not be deleted. Delete requires that " %2 " must be checked out. Check out the resource and try deleting again. You can select the resource to be checked out by clicking the "Go To Resource" button. | | |
| | Error | SRVC | Check out the associated resource and try again. |
| AEADLN-520018 | Error During Move:Read-Only File/The resource " %1 " could not be moved. Move requires that " %2 " must be checked out. Check out the resource and try moving again. You can select the resource to be checked out by clicking the "Go To Resource" button. | | |
| | Error | SRVC | Check out the resource and try moving again. |
| AEADLN-520019 | Error during GetSchema:Read Only File/The Schema fetched cannot be written into the Read-Only File | | |
| | Error | SRVC | Get edit permissions for the file. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|--|----------|---|
| AEADLN-520001 | %1/Agents are not defined in the Lotus Notes Database | | |
| | Warning | DTA | Define an agent in the Lotus Notes database and try again. |
| AEADLN-520002 | Message/%1 | | |
| | Error | DTA | The error is generic. Check the description of the error message. |
| AEADLN-520003 | Fetch Schemas Error/Possible reasons : Views are not defined in the Lotus Notes database or unable to access the views defined in the Lotus Notes database | | |
| | Error | DTA | Check if views are defined in the Lotus Notes database. If not, define them. |
| AEADLN-520004 | Message/%1 | | |
| | Error | DTA | The error is generic. Check the description of the error message. |
| AEADLN-520005 | Error occurred/Adapter Service names must only have alphanumeric characters and must be at most 80 characters long. Type in a valid name. | | |
| | Error | DTA | Type in a valid name and try again. |
| AEADLN-520006 | Login Schema Successfully associated with Service | | |
| | Information | DTA | Indicates normal adapter operation. No action required. |
| AEADLN-520007 | Logout Schema Successfully associated with Service | | |
| | Information | DTA | Indicates normal adapter operation. No action required. |
| AEADLN-520008 | Warning/You have selected Subscriber Type: With Dynamic Login. Selecting this option will not allow you to change the subscriber type anymore. Press OK to confirm, cancel to revert. | | |
| | Warning | DTA | Selecting this option will not allow you to change the subscriber type anymore. Make sure that you require this option. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|-----------------|--|----------|---|
| AEADLN-520009 | Warning/You have selected Subscriber Type: With Dynamic Login. Selecting this option will not allow you to make further changes to Configuration form. Press OK to confirm, cancel to revert. | | |
| | Warning | DTA | Make sure that all the settings are finalized. |
| AELNDTA-0000001 | Lotus Notes DTA (RV) ready to serve requests | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000002 | Exception in storing Lotus Notes Session and Database Objects | | |
| | Error | Adapter | Check the database connection parameters. |
| AELNDTA-0000003 | Exception In OnInitialization of the DTA server | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-0000004 | Error in Sequence creation | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-0000005 | The View %1 is not found in the database | | |
| | Error | Adapter | Specify a valid View Name. |
| AELNDTA-0000006 | Connecting to Lotus Notes : Server %1 Database %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000007 | Error in getting the IPAddress of the Host | | |
| | Error | Adapter | Specify a valid IP address for the Host. |
| AELNDTA-0000008 | Error in activating the components | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-0000009 | Exception in the run method : %1 | | |
| | Error | Adapter | Check the DTA settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|-----------------|--|----------|---|
| AELNDTA-0000010 | Duplicate DTA (RV) Instance [Host: %1, service: %2] detected...Stopping DTA Server Instance | | |
| | Error | Adapter | Check if any other instance of DTA is running |
| AELNDTA-0000011 | Exception in OnEvent : %1 | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-0000012 | The parameters in the request object are invalid | | |
| | Error | Adapter | Specify valid parameters for DTA interaction. |
| AELNDTA-0000013 | Error in reading the request parameters | | |
| | Error | Adapter | Specify valid request parameters for DTA. |
| AELNDTA-0000014 | GUID generation failed : %1 | | |
| | Error | Adapter | Check the connection to be valid. |
| AELNDTA-0000015 | Application Id : %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000016 | Connecting to Lotus Notes using parameters [Server: %1, Database %2] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000017 | Error In Remote Connection | | |
| | Error | Adapter | Check the connection parameters. |
| AELNDTA-0000018 | Error In Local Connection | | |
| | Error | Adapter | Check the connection parameters. |
| AELNDTA-0000019 | Error in method invocation on the database object: %1 | | |
| | Error | Adapter | Check the connection to be valid. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|-----------------|---|----------|--|
| AELNDTA-0000020 | Connection to Lotus Notes using parameters:[Server: %1, Database: %2] successful | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000021 | Access to the Database: %1 denied | | |
| | Error | Adapter | Check the user access. |
| AELNDTA-0000022 | Cannot get Access to the Database: %1 specified | | |
| | Error | Adapter | Check the user access. |
| AELNDTA-0000023 | DTA connection error has occurred. Authentication failed for target Lotus Notes application with connection parameters username=%1, password=%2, database=%3 | | |
| | Error | Adapter | Check the connection parameters. |
| AELNDTA-0000024 | Unable to fetch Views from the database: %1 | | |
| | Error | Adapter | Check whether views have been created in the Lotus Notes database. |
| AELNDTA-0000025 | No Schemas found in the database: %1 | | |
| | Error | Adapter | Check whether schemas are present in the Lotus Notes database. |
| AELNDTA-0000026 | Schema Fetch Request Failed. Error Message: %1 | | |
| | Error | Adapter | Check the connection parameters and the user access rights for the database. |
| AELNDTA-0000027 | No Attributes defined in the Document: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000028 | -----View List----- | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|------------------------|---|----------|--|
| AELNDTA-0000029 | -----End View List----- | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000030 | -----Field List----- | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000031 | -----End Field List----- | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000032 | "Item Name : %1, Item Type : %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000033 | No documents in the View : %1 to fetch the Fieldlist | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000034 | Fetch Fields Request Failed. Error Message: %1 | | |
| | Error | Adapter | Check the connection parameters and the user access rights for the database. |
| AELNDTA-0000035 | No Agents Found in the database : %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000036 | -----Agent List----- | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000037 | -----End Agent List----- | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|-----------------|---|----------|--|
| AELNDTA-0000038 | Fetch Agents Request Failed. Error Message: %1 | | |
| | Error | Adapter | Check the connection parameters and the user access rights for the database. |
| AELNDTA-0000039 | Timer is null | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000040 | Generated GUID: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000041 | View %1: %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000042 | Agent %1: %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000043 | Duplicate DTA (JMS) Instance [Host: %1, JmsProviderUrl: %2] detected...Stopping DTA Server Instance | | |
| | Error | Adapter | Check if any other instance of DTA is running. |
| AELNDTA-9100001 | DTA start up error. Property %1 needs to be set in the .tra file. | | |
| | Error | Adapter | Set the specified property in the .tra file. |
| AELNDTA-9100002 | DTA start up error. Unable to create discovery subscriber %1 using repository file %2. | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-9100003 | DTA start up error. Unable to create Request-Response Service (to listen to palette requests) %1 using repository file %2. | | |
| | Error | Adapter | Check the DTA settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|-----------------|---|----------|---|
| AELNDTA-9100004 | DTA error. SDK exception %1 occurred while creating discovery reply for discovery request. | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-9100005 | DTA error. Error occurred while sending the discovery response for discovery request. SDK error is %1. | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-9100006 | DTA error. Shutdown of DTA caused exception %1. | | |
| | Error | Adapter | Check the DTA settings. |
| AELNDTA-9100007 | DTA error. The event %1 received by the discovery subscriber is not of expected type MDataEvent. | | |
| | Error | Adapter | Check the DTA settings or check if the event source is valid. |
| AELNDTA-0000044 | Received Reply to Discovery Request | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000045 | Discovering other Lotus Notes Design Time Adapters (DTAs)... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000046 | No other Lotus Notes DTAs were discovered | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000047 | Lotus Notes DTA (JMS) ready to serve requests [JmsProviderUrl: %1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000048 | Closing the connection created by the previous palette request... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|------------------------|--|----------|---|
| AELNDTA-0000049 | Recycling the Session created by the previous palette request... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELNDTA-0000050 | Recycling the DataBase created by the previous palette request... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000001 | Initializing the Outgoing Event Manager ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000002 | Initializing the adapter... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000003 | Extracted the services information... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000004 | The Instance Control Mechanism will not be enabled ... | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000005 | Created the Stop Subscriber... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000006 | Checking for any configured RPC services... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000007 | No configured Publisher or Subscriber services... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|--|
| AELN-0000008 | No Hawk Agents Exist to be set as monitored objects ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000009 | Hawk Exception: %1 | | |
| | Error | Adapter | Failed to register Hawk Methods. Check the Hawk Monitoring panel. |
| AELN-0000010 | Exception: %1 | | |
| | Error | Adapter | Hawk Exception. Check the Hawk Monitoring panel. |
| AELN-0000011 | Processing started... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000012 | ----- | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000013 | Trigger: [%1] listening to: [%2] ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000014 | Trigger: [%1] Failed to start ... | | |
| | Error | Adapter | Failed to activate RV trigger. Check trigger settings. |
| AELN-0000015 | Note engine: [%1] started ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000016 | Note engine: [%1] failed to start ... | | |
| | Error | Adapter | Failed to start Note Engine. Please check the adapter configuration. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000018 | Subscriber:: [%1] subscribing to subject:: [%2] using event manager:: [%3] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000019 | Processing ::: Utilised as an RPC instance | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000027 | No services found in the configuration...adapter will shut down | | |
| | Error | Adapter | Configure services under the instance and restart the adapter. |
| AELN-0000028 | Notes Connection Information ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000029 | Database name has not been specified | | |
| | Error | Adapter | Specify a valid database name. |
| AELN-0000030 | Server: %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000031 | Database: %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000032 | IDFile: %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000033 | Connection Pool Size: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000034 | retryCount: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000035 | Subject: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000036 | Database Polling Mechanism has NOT been enabled ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000037 | NotesConnection has not been specified ... | | |
| | Error | Adapter | Specify Notes Connection attributes. |
| AELN-0000038 | The database connection parameters are not correct | | |
| | Error | Adapter | Specify correct values for connection attributes. |
| AELN-0000039 | Exception in initConnections().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000040 | Starting the Lotus Client Request Mechanism ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000041 | RequestName: [%1] has been duplicated | | |
| | Error | Adapter | Specify a unique Request Name. |
| AELN-0000042 | RequestName has not been specified for LotusClientRequest | | |
| | Error | Adapter | Specify a request name for Client Request. |
| AELN-0000043 | LotusClientRequest should not subscribe to the same subject as subscribers | | |
| | Warning | Adapter | Specify a unique subject name for the Client. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000044 | Subject has not been specified for LotusClientRequest | | |
| | Error | Adapter | Specify a subject name for the Client. |
| AELN-0000045 | Session does not exist for LotusClientRequest | | |
| | Error | Adapter | Specify a valid session for the Client Request. |
| AELN-0000046 | Lotus Client Request Mechanism Started ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000047 | Lotus Client Request Mechanism has NOT been configured ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000048 | An exception has occurred in initLotusClientRequest() . | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000049 | Starting the Request/Reply Server Mechanism ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000050 | Name has not been specified for LotusServer | | |
| | Error | Adapter | Specify a name for the Lotus Server. |
| AELN-0000051 | The type has not been specified for LotusServer: [%1] | | |
| | Error | Adapter | Specify a value for the type 'attribute'. |
| AELN-0000052 | The type specified for LotusServer: [%1] must be either of the two [NoReply,WithReply] | | |
| | Error | Adapter | The type specified for Lotus Server must be either of the two: NoReply or WithReply. |
| AELN-0000056 | Operation Name has not been specified for LotusServer: [%1] | | |
| | Error | Adapter | Specify an operation name for the server. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000057 | Operation Name: [%1] specified for LotusServer: [%2] does not exist in the class registry | | |
| | Error | Adapter | Specify a valid operation name for the server. |
| AELN-0000058 | Class specified for LotusServer: [%1] does not exist in the registry | | |
| | Error | Adapter | Specify a valid class which exists in the registry for the Lotus Server. |
| AELN-0000059 | Server specified for LotusServer: [%1] does not exist in the registry | | |
| | Error | Adapter | Specify a valid server which exists in the registry for the Lotus Server. |
| AELN-0000060 | Server has not been specified for LotusServer: [%1] | | |
| | Error | Adapter | Specify a value for the server attribute. |
| AELN-0000061 | LotusServer: [%1] has been duplicated ... | | |
| | Error | Adapter | Server already exists. Specify a different name. |
| AELN-0000063 | An exception has occurred in initServers() . | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000064 | Defined Queues ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000065 | All Defined Queues must have a unique name | | |
| | Error | Adapter | Specify a unique name for the queue. |
| AELN-0000066 | Queues cannot have Identical names. | | |
| | Error | Adapter | Specify a unique name for the queue. |
| AELN-0000067 | Queue name: %1 Queue Size: %2 Queue Depth: %3 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000068 | The Queue details are not specified in the Configuration File | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000069 | The queue parameters are not correct | | |
| | Error | Adapter | Specify correct parameters for the queue. |
| AELN-0000070 | Exception in initQueues()... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000071 | Initiating the Notes Engines ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000072 | Note Engine Name cannot be null ... | | |
| | Error | Adapter | Specify name for the Note engine |
| AELN-0000073 | Note Engine Name cannot be empty ... | | |
| | Error | Adapter | Specify name for the Note engine |
| AELN-0000074 | Note Engine Name: [%1] has been duplicated | | |
| | Error | Adapter | Specify a unique name for the Note engine |
| AELN-0000075 | Event Queue: [%1] attached to the engine: [%2] does not exist | | |
| | Error | Adapter | Attach a valid queue to the Note engine |
| AELN-0000076 | The queue has not been specified for Note Engine: %1 | | |
| | Error | Adapter | Specify a queue for the Note engine |
| AELN-0000077 | The Engines have not been specified in the config file | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000078 | The engine parameters are not correct.Class: %1 | | |
| | Error | Adapter | Specify correct values for engine parameters |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000079 | Exception in initNoteEngines()...Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000080 | Loading the Server Exits ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000081 | The name has not been specified for server exit ... | | |
| | Error | Adapter | Specify a name for the server exit |
| AELN-0000082 | Server Exit: %1 has been duplicated | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000083 | The type has not been specified for server exit: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000084 | The class has not been specified for server exit: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000085 | No Server Exits have been defined | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000086 | Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000087 | ServerExit class specified is not found ... | | |
| | Error | Adapter | Specify a valid server exit class. |
| AELN-0000088 | Exception in initServerExits()... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000089 | Loading the Notes Exits ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000090 | The 'name' attribute of the NoteExit CANNOT be null | | |
| | Error | Adapter | Specify a value for the name 'attribute of the note exit'. |
| AELN-0000091 | The 'name' attribute of the NoteExit CANNOT be empty | | |
| | Error | Adapter | Specify a value for the name 'attribute of the note exit'. |
| AELN-0000092 | Note Exit: %1 has been duplicated | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000093 | The type has not been specified for exit: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000094 | The class has not been specified for exit: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000095 | The object has not been specified for exit: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000096 | No Note Exits have been defined | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000097 | NoteExit class specified is not found .Class: %1 | | |
| | Error | Adapter | Specify a valid note exit class. |
| AELN-0000098 | Exception in initNoteExits().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000099 | Header Information | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000100 | The attachment location must be specified in the Header tag ... | | |
| | Error | Adapter | Specify an attachment location in the header tag. |
| AELN-0000101 | The version attribute cannot be parsed into a numeric value | | |
| | Error | Adapter | Modify the value of this attribute in the configuration data. |
| AELN-0000102 | Project Created on Adln Version: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000108 | Enable HAWK: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000111 | Exception in InitHeader().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000112 | Publish Routing Table ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000113 | Event is linked to a publisher that does not exist. | | |
| | Error | Adapter | Link the event to a valid existing publisher. |
| AELN-0000114 | The Publish Table is Empty. No Events will be published | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000115 | Exception in initPublishRoutingTable().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000116 | Business Event Managers ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000117 | Output Queue does not exist for: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|--|
| AELN-0000118 | Output queue has not been specified for: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000119 | There is a duplicate event manager : %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000120 | The event manager name has not been specified | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000121 | Event Manager: [%1] has not subscribed to any events ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000122 | Event Manager: 1% is subscribing to event: %2 which already exists in another Event Manager | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000123 | The Business Event Manager Table is Empty.No Events will be received | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000124 | Exception in initLotusEventManager().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000125 | Subscribe Routing Table ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000126 | Subscriber does not exist: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000127 | Event Manager [%1] specified for Subscriber: [%2] does not exist | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000128 | Duplicate Event Manager [%1] linked to the Subscriber: [%2] | | |
| | Error | Adapter | Specify a unique event manager for the subscriber. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|--|
| AELN-0000129 | Event Managers have not been specified for subscriber: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000130 | The Subscribe Table is Empty. No Events will be received | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000131 | Exception in initSubscribeRoutingTable().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000133 | RvSession specified for Business Advisory does not exist ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000136 | Exception in initBusinessAdvisory().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000137 | The Exception Event Structure has not been specified correctly in the config file | | |
| | Error | Adapter | Specify the exception event structure correctly. |
| AELN-0000138 | Exception in initExceptionHandler(). Class: %1 Message: %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000139 | Exception: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000140 | Creating Triggers ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000141 | Output Queue does not exist for: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000142 | Output queue has not been specified for: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000143 | Trigger: [%1] should not subscribe to the same subject as subscribers | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000144 | Subject has not been specified for: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000145 | Session does not exist for trigger: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000146 | Event for trigger: [%1] should be NotesEvent | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000147 | Exception in createTriggers().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000148 | Creating Pollers ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000149 | Output Queue does not exist for: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000150 | Output queue has not been specified for: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000151 | Poller Operation for: [%1] must be ADD | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000152 | Poller event: %1 for poller: %2 has been duplicated in the order sequence | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000153 | Poller event: %1 for poller: %2 is not in the Publish Routing Table | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000154 | Poller Event has not been specified for: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000155 | Poller: [%1] writing events: %2 ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000156 | Poller interval parameter is incorrect.Class: %1 | | |
| | Error | Adapter | Specify a correct value for poller interval attribute. |
| AELN-0000157 | Exception in createPollers().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000159 | Incorrect Element... | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000161 | Exception in initEventRegistry().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000162 | The datatype specified is not supported | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000163 | The operator specified is not supported | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000164 | Exception in ValidateParms().Message: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000165 | Exception in ValidateAttrs().Message: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000166 | Validating event: %1 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000167 | Event name: %1 has been duplicated in the registry | | |
| | Warning | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000168 | Validating action: [%1] for event: %2 ... | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000169 | No event name has been specified for: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000170 | Event name: [%1] is not in Publish Routing Table | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000171 | Event name: [%1] does not have a correct node | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000172 | Actions were not validated for event: %1 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000173 | Exception in ValidateEvent() ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000174 | Action: [%1] specified for event: %2 is not supported .. | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000175 | Action: [%1] specified for event: %2 cannot be performed within the specified [import] mode | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000176 | Action: [%1] specified for event: %2 cannot be performed within the specified [export] mode | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000177 | searchType or form for event: %1 are either incorrect or have not been specified | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000178 | Form name for Add action of event: %1 has not been specified | | |
| | Warning | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|--|
| AELN-0000179 | Agent Name or Note Exit for event: %1 has not been specified | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000180 | searchType for event: %1 has either the view, formula, or form missing | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000181 | NoteParms for event: %1 do not exist for PublishFromUNID Action Type | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000182 | NoteAttributes for event: %1 do not exist | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000183 | Processing for event: %1 is an update or delete which requires a search key to be specified | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000184 | Event: %1 is an evaluate event which requires a formula or parameters to be specified | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000185 | Exception in ValidateAction() ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000187 | The Fault Tolerance Component was NOT started ... | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000189 | Incorrect Parameters specified for the FT listeners.Class: %1 | | |
| | Error | Adapter | Specify correct parameters for FT listeners. |
| AELN-0000190 | Exception caught in initFT().Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000194 | Unable to disconnect from the Lotus Notes database | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000195 | The specified engine: [%1] does not exist | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000196 | Exception in starting the engine: %1 - %2 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000197 | The specified engine: [%1] does not exist | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000198 | Exception in stopping the engine: [%1] - %2 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000199 | Exception in resuming the engine: [%1] - %2 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000200 | Exception in pausing the engine: [%1] - %2 | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000201 | Shutting Down Component | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000202 | Stopping the adapter ... | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000203 | Exception in construction of the Lotus Adapter Control ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000204 | Exception description: %1, data = %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000205 | Duplicate Instance exists ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000208 | The version attribute has not been set ... | | |
| | Error | Adapter | Set the version attribute. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000210 | ----- | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000211 | LotusDatabasePoller: cannot poll NULL database ... | | |
| | Error | Adapter | Specify a valid database. |
| AELN-0000220 | Exception in construction of the LotusDatabasePoller.Class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000222 | Exception in database poller thread as a result of an Interruption | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000223 | Standard Exception in database poller ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000224 | Exception in database poller :: sendPollStatus() ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000228 | Poller: [%1] initiated ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000229 | Unable to start the event poller: %1. Class: %1 - Message: %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000230 | %1:: [%2] Started | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000231 | [Poller], Notifying event | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000232 | Exception in poller thread as a result of an Interruption | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000233 | Exception in poller thread as a result of writing to the queue | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000243 | RvException in LotusFTListener - %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000244 | In creating a lotus instance field: %1, | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000247 | Checking the event type:Publisher or Subscriber... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000248 | The event type is: %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000249 | Successfully processed the Agent: [%1]. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000265 | :::: Exit Translating Outgoing Event Data to XML document | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000266 | :::: Exit Translating Outgoing Class Data to XML document | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000267 | :::: Field: [%1] has been defined as an attachment field in the NoteExit but not in the EventRegistry | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000268 | :::: Field: [%1] has been defined as an attachment field in the EventRegistry but not in the NoteExit | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000269 | Exception in retrieving the rich text item: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000270 | Exception in getRichText of the NoteInstance Class ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000271 | Rich text has been updated ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000272 | Exception in setting the rich text item: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000273 | Resetting the rich text styles ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000274 | Maintaining the rich text styles ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000275 | Exception in setting the rich text style: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000276 | Date being updated ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000277 | Retrieving the attachment names ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000278 | Field: %1 contains an embedded object. | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000279 | Field: %1 contains an embedded object link. | | |
| | Warning | Adapter | Check the adapter configuration settings. |
| AELN-0000280 | Field: %1 is not a richtext item and has been inaccurately defined in the configuration data | | |
| | Warning | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000281 | Removing attachment: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000282 | Attachment removal exception: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000283 | Attachment being added by value ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000284 | Attachment being added by reference ... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000285 | FileName: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000286 | AttachmentName: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000287 | Link Attachment Exception: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000288 | Note Engine is running on platform: [%1] | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000289 | Connecting to Notes [Server = %1,Database= %2] | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000290 | Connection Successful..... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000291 | Cannot get access to the database server = [%1] Database = [%2] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000292 | Retrieving collection using formula: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000293 | Retrieving from the database: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000294 | Storing Agent: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000295 | Committing the transaction..... | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000296 | Executing Any Agents | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000297 | Exception in activation of trigger: %1. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000299 | Overriding the subject name to be published. | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000300 | ----- Exception in Trigger ----- Trigger Name: %1 Trigger Subject: %2 Event Name: %3 Error Code: %4 Original Error: %5 ----- | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000301 | ----- Exception in trigger -----Trigger Name: %1 Trigger Subject: %2 Event Name: %3 This exception is most probably due to the fact that data has been sent using the same subject that this trigger is listening to but the format of the incoming data is not of the required format. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000302 | Original Error Class: %1 Original Error Message: %2 ----- | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000303 | %1 Started, listening to %2 | | |
| | Information | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000304 | %1 Stopped, listening to %2 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000308 | The Note Exit Attributes have not been specified correctly ... | | |
| | Error | Adapter | Specify the Note exit parameters correctly. |
| AELN-0000309 | Object: %1,Parameter: %2,PublishType: %3 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000310 | There are no attachments to be processed by the exit ... | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000311 | Attachments being processed by the exit ... | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000312 | %1 :: [%2] Started | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000313 | Recovering any unpublished transactions | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000314 | %1 Exception in run() of note engine in connecting to the database | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000315 | Step Engine: %1 ::::: Waiting for an Event" | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000317 | %1 : Received Event | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000318 | %1 - data instance: %2 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000319 | Ignoring, Unregistered Event Name = %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000320 | class: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000321 | Event Name: %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000322 | DATA :: %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000323 | -----EXCEPTION-----Event Name : %1 Error Code : %2 Error Text : %3 Original Error: %4 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000324 | EXCEPTION :: Event Name: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000325 | Error : %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000326 | Error : %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000327 | Error :: %1 | | |
| | Error | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000328 | -----EXCEPTION----- FATAL :: An Exception has occurred in the exception handler | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000329 | Processing Operation No, %1 %2 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000330 | Using OutBox | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000331 | Using OutBox and Formula | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000332 | There are no documents in the OUTBOX to be published ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000333 | Creating an External Process: [%1] ... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000334 | Exception in creating process: | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000335 | %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000336 | Placing sequence: [%1] into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000337 | Sequence: [%1] does NOT have a value | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000338 | Placing attribute: [%1] containing rich text into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000339 | Attribute: [%1] of type any was not identified as a rich Text and was not processed. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000340 | attribute: [%1] of class: [%2] must have a primitive and not user-defined type to be published | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000341 | The Attribute: [%1] has been defined as a single value field in the meta data and is not expecting a vector. Only the first element in the vector is taken as the value of this attribute | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000342 | Placing attribute: [%1] with value: [%2] into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000343 | Placing attribute: [%1] containing attachment sequence by reference into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000344 | Placing attribute: [%1] containing attachment sequence by reference into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000345 | Placing attribute: [%1] containing attachment sequence by name\value into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000346 | Placing attribute: [%1] containing attachment sequence by value into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000347 | Attribute: [%1] of type attachment sequence does not have the required property and was not processed | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000348 | Attribute: [%1] must be defined as an attachment sequence in the configuration to be processed | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000349 | attribute: [%1] of class: [%2] must have a primitive and not user-defined type to be published | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000350 | keyWord: [%1] specified for one of attributes of class: [%2] is not supported or is null | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000351 | Placing attribute: [%1] with default value: [%2] into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000352 | Attribute: [%1] does NOT have a value | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000353 | Published Event with subject: %1.The tracking ID is: %2. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000354 | attribute: [%1] of class: [%2] must have a primitive and not user-defined type to be published | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000355 | Placing attribute: [%1] into business document | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000356 | Processing Multi-Meta Add | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000357 | Processing the HEADER | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000358 | In Processing the multi-meta add operation, the header field: [%1] contains a value that is a sequence but not a sequence of MultiValueFields | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000359 | Multi-creation of documents via class: [%1] does not include any header information | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000360 | Processing the RECORDS | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000361 | In Processing the multi-meta add operation, the record field: [%1] contains a value that is a sequence but not a sequence of MultiValueFields | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000362 | The attachment: [%1] was not found and will not be embedded in the field: [%2] | | |
| | Error | Adapter | Check if the attachment exists. |
| AELN-0000363 | Multi-creation of documents via class: [%1] does not include any records | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000364 | Executing addition of a sequence of documents | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000365 | processing HEADER sequence: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000366 | processing HEADER attachment: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000367 | Processing Attachment:: placing data into file: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000368 | processing HEADER richtext: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000369 | processing HEADER Class: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000370 | Processing [useNodes/useValues] option for attribute: [%1] as a sub-form | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000371 | Processing the class attribute: [%1] as a sub-form | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000372 | processing HEADER field: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000373 | Processing the Sequence: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000374 | Processing Rich Text item ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000375 | Processing the [useNodes/useValues] option for attribute: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000376 | Nodes Retrieved: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000377 | ----- Processing repeat on field: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000378 | ----- Instance: [%1] added | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000379 | Rich Text value retrieved ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000380 | Determining the method of execution: [view, formula, query] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000381 | Key = %1, Value = %2 , Class = %3 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000382 | Execution by View: [%1] , Identified Search Keys: %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000383 | Execution by Formula: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000384 | Execution by Query, formName : [%1], Identified Query Keys: %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000385 | Performing the deletes | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000386 | Performing the updates | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000387 | Updating the multi-value field: [%1] | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000388 | Updating the richtext field: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000389 | Updating the attachment field: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000390 | Updating the Subform field of class: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000391 | Processing the [useNodes/useValues] option for attribute: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000392 | Values Retrieved: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000393 | Updating the field: [%1] | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000394 | Processing Sequence Publish | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000395 | The attribute class: [%1] is not a supported data type for publishing of meta data sequences | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000396 | keyWord: [%1] specified for one of attributes of class: [%2] is not supported or is null | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000397 | Attribute: [%1] of type any was not identified as a rich Text and was not processed. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000398 | Processing multi-tree publish | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000399 | The Multi-tree outgoing event does not include any header information | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000400 | There is a mismatch in the number of header keys and number | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000401 | The Multi-tree outgoing event does not include any records | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000402 | Record [%1] did not process field: %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000403 | Processing attachment for: %1 ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000404 | Using File Name %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000405 | Using [[[[NULL]]]] File Name | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000406 | Multiple Attachments have been received ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000407 | No attachment required for Name = %1 Attachment Name %2 File Name = %3 Data = %4 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000408 | The attachment filename is: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000409 | Calling Attach With Name = %1 Attachment Name %2 File Name = %3 Data = %4 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000410 | Single Attachment has been received ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000411 | Setting the rich text style of format: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000412 | Resetting the rich text style ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000413 | Text Received for Rich Text Item is null ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000414 | ** FIELD = %1 VALUE = %2 CLASS = %3 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000415 | Adding the Note Instance ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000416 | Attachments being published as a group ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000417 | Attachments being published as a group BY VALUE ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000418 | Node Name = %1 Value = %2 Class = %3 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000419 | Date = %1 Format = %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000420 | Adjusting the time field ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000421 | Timezone = %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000422 | DateField = %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000423 | Published Date = %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000424 | The attribute: [%1] was not a field in the Lotus Form or did not have a value and will not be published | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000425 | Creating a tree published instance via the event registry ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000426 | Formula used to retrieve documents: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000427 | There are no documents in the OUTBOX to be published using the formula: [%1] | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000428 | There are no documents in the OUTBOX with UNID: %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000429 | ***** View Search Keys... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000430 | Updating the document , | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000431 | ***** Query Search Keys... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000432 | ***** Search Keys... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000433 | Event Query Execution Begins..... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000434 | Processing Action No, %1 %2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000435 | Committing the Request Document,..... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000436 | Creating an External Process: [%1] ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000437 | note exit process: [%1] not valid ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000438 | Exception in creating process: | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000439 | %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000440 | Replying to the sender with subject: %1 ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000441 | Attachments to be sent via multiple messages ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000442 | keyWord: [%1] is not a supported keyWord ... | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000443 | Incoming Event [%1] %2 Not Found , using default if defined | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000444 | ***** | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000445 | The ordering by single key of the meta documents to be published was not successful. The documents are published as they are retrieved class: %1 - message: %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000446 | Component : %1 Stopped Servicing | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000447 | Component : %1 Paused | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000448 | Component : %1 Resumed | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000449 | Business Event Structure has not been specified correctly ... | | |
| | Error | Adapter | Specify the Business Event Structure correctly. |
| AELN-0000450 | Business Event Structure has not been specified correctly. | | |
| | Error | Adapter | Specify the Business Event Structure correctly. |
| AELN-0000451 | Exception in initialize() of Lotus Event Manager. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000452 | Event received but not instance of MDataEvent ... | | |
| | Warning | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000453 | Exception in onEvent() of the Lotus Event Manager as a result of processEvent(). | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000454 | Error Code: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000455 | Severity: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000456 | ShortText: %1 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000457 | originalError: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000458 | Creating Business Document ... | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000459 | %1. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000460 | The event manager was unable to read the incoming message. | | |
| | Error | Adapter | This could be related to the fact that the subscriber instance has not been configured correctly in the EventRegistry to receive the incoming message or that the incoming message is faulty. |
| AELN-0000461 | BUS_EVT::: Writing Business Event: [%1] | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000462 | Writing to queue: [%1] | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000463 | Initializing the Exception Manager ... | | |
| | Information | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000464 | Event: [%1] does not exist in Publish Routing Table ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000465 | Publisher: [%1] specified in routing table does not exist ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000466 | Note Transaction: Unable to delete the Lotus Notes Document,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000467 | NoteTransaction: Unable to execute the lotus formula: %1, %2 | | |
| | Error | Adapter | Check the lotus formula. |
| AELN-0000468 | NoteTransaction: Unable to create a Lotus Notes Instance Document,%1 | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000469 | NoteTransaction: Unable to retrieve a Lotus Document By Id: %1, %2 | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000470 | NoteTransaction: Unable to retrieve the First Lotus Document in view: %1,%2 | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000471 | NoteTransaction: Unable to retrieve the Lotus Documents in view: %1,%2 | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000472 | NoteTransaction: Unable to refresh the database file,%1 | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000473 | NoteTransaction: Unable to retrieve the Lotus Documents by query with form: %1,%2 | | |
| | Error | Adapter | Check the Lotus Notes query. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000474 | NotesHandle: Failed to retrieve document by UNID: %1 in database: %2,%3 | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000475 | NoteInstance: Access by index not supported for this object | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000476 | NoteInstance: An Exception has occurred in the NoteInstance field replication ...,Class:%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000477 | NoteInstance: Document not opened yet | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000478 | AdvisoryData : Note exit failed ... | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000479 | ErrorUserData : Note exit failed ... | | |
| | Error | Adapter | Check the adapter and Lotus Notes configuration settings. |
| AELN-0000480 | LotusBusinessAdvisory: The RvSession specified does not exist for the Business Advisory. Exception thrown at startUp | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000481 | The creation of the Business Advisory document failed. %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000482 | LotusClientRequest: Start attempted on a client request poller thread: [%1] failed, | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000483 | LotusClientRequest : Exception - %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000484 | LotusClientRequest: Parameter: [%1] is not a valid parameter for operation: [%2] of class: [%3], Parameter: [%4] is not a valid parameter for operation: [%5] of class: [%6] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000485 | LotusDatabasePoller: Start attempted on a thread which has already been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000486 | LotusDatabasePoller: Stop attempted on a thread which has not been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000487 | LotusDatabasePoller: Pause attempted on a thread which has not been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000488 | LotusDatabasePoller: Resume attempted on a thread which has not been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000489 | LotusEventManager: The creation of the Business Document to be published has failed. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000490 | LotusEventManager: The repeat On analysis of the incoming event has failed | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000491 | LotusEventManager: The incoming Business Document has NO MInstance section | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000492 | LotusEventManager: The incoming event was identified as a business document but the business document could not be created from the class registry,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-000493 | LotusEventManager: There is no Control Block associated with the incoming event | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000494 | LotusEventManager: Incoming Event Message does not have an event name | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000495 | LotusEventManager: No Operation associated with event: [%1] trapped by event manager: [%2] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000496 | LotusEventManager: No Data associated with event: [%1] trapped by event manager: [%2] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000497 | LotusEventManager: The event manager was unable to read the incoming message.%1 | | |
| | Error | Adapter | This could be related to the fact that the subscriber instance has not been configured correctly in the EventRegistry to receive the incoming message or that the incoming message is faulty. |
| AELN-0000498 | LotusEventPoller: Start attempted on a event poller thread: [%1] failed, Attempt to start thread which has already been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000499 | LotusEventPoller: Stop attempted on a event poller thread: [%1] failed, Attempt to stop thread which has not been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000500 | LotusEventPoller: Pause attempted on a event poller thread: [%1] failed, Attempt to pause thread which has not been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000501 | LotusEventPoller: Resume attempted on a event poller thread: [%1] failed, Attempt to resume thread which has not been stopped | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000502 | LotusEventPoller: Component %1 Paused | | |
| | Information | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000503 | LotusEventPoller: Component %1 Resumed | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000504 | LotusEventPoller: Component %1 Stopped polling | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000505 | LotusNotesStore: The adapter engine is unable to get a connection to the database. The Connection is busy ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000506 | LotusNotesStore: Unable to retrieve the first Lotus Document in view: %1,%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000507 | LotusNotesStore: This method is not supported at this point | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000508 | LotusNotesStore: Unable to retrieve the Lotus Documents in view: %1, | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000509 | LotusNotesStore: Unable to query Lotus Documents with query: %1, | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000510 | LotusNotesStore: Unable to retrieve the Lotus Documents by formula: %1, | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000511 | LotusNotesStore: Object: %1 Not Supported by this store | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000512 | LotusNotesStore: Unable to save the Lotus Document | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000513 | LotusServer: The formula has not been specified for the Server Request | | |
| | Error | Server | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000514 | LotusServer: The document associated with the document Id: %1 passed in the Server Request Area does not exist | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000515 | LotusServer: The agent has not been specified for the Server Request | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000516 | LotusServer: The specified agent: [%1] does not exist in the database | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000517 | LotusServer: The exit has not been specified for the Server Request | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000518 | LotusServer: Specified exit: [%1] is an INVALID Server Exit ... | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000519 | LotusServer: An Exception has occurred retrieving the static parameter: [%1] for the server request, | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000520 | LotusServer: Start attempted on a server thread: [%1] failed, | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000521 | LotusServer: Stop attempted on a server thread: [%1] failed, | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000522 | LotusServer: Pause attempted on a server thread: [%1] failed, | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000523 | LotusServer: Resume attempted on a server thread: [%1] failed, | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000524 | LotusServer: An Exception has occurred in the processing of a server request | | |
| | Error | Server | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000525 | LotusServer: The view has not been specified for the Server Request | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000526 | LotusServer: The view: [%1] does not exist in the database | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-0000527 | LotusExceptionManager: Error Publisher for the Exception Event Manager | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000528 | LotusExceptionManager: RV Session for the Exception Event Manager | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000529 | LotusExceptionManager: An Exception Manager must exist for all adapter instances .. | | |
| | Error | Adapter | Place this object in the configuration details. |
| AELN-0000530 | LotusExceptionManager: An Exception Manager must have either the session attribute or default publisher defined ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000531 | LotusExceptionManager: Invalid RV Session specified for Exception Manager ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000532 | LotusExceptionManager: Error Publisher specified does not exist for Exception Manager ... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000533 | LotusToXMLTranslator: Failure to create the XML Document for Event: [%1] original Exception Class: %2 Original Exception Message: %3 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000534 | ServerExitTemplate: An Unknown exception has occurred in ServerExitTemplate ... | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000535 | SplitAttachments: SplitAttachments - note exit failed... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000536 | Event Not Registered: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000537 | Note Exit for Publish Meta Object: [%1] did not create an Outgoing Lotus Collection | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000538 | Lotus formula for Meta Object: [%1] not specified in configuration | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000539 | The data for the class: [%1] is not an MInstance and will not be processed | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000540 | The incoming operation: [%1] for the class: [%2] is NOT supported | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000541 | The incoming operation for the class: [%1] does NOT exist | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000542 | Invalid Note Exit for Meta Object: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000543 | Note Exit name for Meta Object: [%1] not specified in configuration | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000544 | Exception occurred in manipulation of Lotus Notes document | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000545 | Lotus Agent: [%1] not found in Database | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000546 | Lotus Agent name for Meta Object: [%1] not specified in configuration | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000547 | Operation: [%1] for the meta object: [%2] is NOT supported | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000548 | An exception has occurred in the step execution of the meta object: %1,%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000549 | An exception has occurred in the 'checkAttributeType' execution%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000550 | Unable to retrieve the property value: [%1] for class: [%2],%3 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000551 | Unable to retrieve the property value: [%1] for attribute: [%2] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000552 | Unable to determine whether the class: [%1] is a multi-add class | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000553 | Unable to retrieve sequence class for Meta Object: [%1] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000554 | Unable to create sequence class for Meta Object: [%1],%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000555 | Unable to create attachment sequence class for Meta Object: [%1] %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000556 | For attachments in field: [%1] to be published by value, a 'files' property for the attribute must be defined in the configuration. This property must have its value set to the actual suffix for all the attachments. | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000557 | Object: [%1] was not defined in the Publish Routing Table and will not be published | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000558 | Publisher: [%1] for Object: [%2] is not a valid publisher | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000559 | Exception in 'MetaPublish' for the class:[%1]%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000560 | Exception in 'XMLMetaPublish' for the class:[%1],%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000561 | The incoming record sequence in the multi-document creation scenario of class: [%1] was not a sequence instance | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000562 | Exception in multi-creation of documents for the class: [%1],%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000563 | Cannot have a class that is defined with more than ONE attribute that is a sequence of a user-defined class. Class: [%1] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000564 | An exception has occurred in the determining if the addition of documents is sequenced,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000565 | Document cannot be added since form name does not exist in class: [%1] | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000566 | Attribute: [%1] of class: [%2] is defined as a sequence but the incoming data associated with this attribute is not a sequence. | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000567 | The Attribute: [%1] has been defined as an attachmentByValue attribute in the registry. The incoming file suffix has not been specified | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000568 | Attribute: [%1] of class: [%2] is defined as an attachment sequence but the incoming data associated with this attribute is not a sequence. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000569 | In creating a vector for the multi-value field: [%1] the entry: [%2] was of type: %3 and is not the same as the previous data types in the vector | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000570 | An exception has occurred in the 'AddMetaDocumentSequence' execution%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000571 | Document cannot be added since form name does not exist in Event Registry | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000572 | An exception has occurred in the 'AddMetaDocument' execution%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000573 | An exception has occurred in the 'AddMetaDocumentSubForm' execution%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000574 | An exception has occurred in the 'RemoveMetaDocumentSubForm' execution%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000575 | Source Document Not found, View Name = %1 Keys = %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000576 | Source Document Not found, Formula = %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000577 | Source Document Not found, Form Name = %1 Keys = %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000578 | Neither the view', 'formula' or 'form' was defined as a property of the class:[%1] to execute the Update operation | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000579 | An exception has occurred in the sequence publishing | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000580 | An exception has occurred in the publishing of sequence %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000581 | An exception has occurred in the AddDocument' execution",%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000582 | An exception has occurred in the mapping of Lotus Fields to the RV message nodes. Check the Event Registry definition,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000583 | An exception has occurred in the mapping of Lotus Fields to the MULTI RV message nodes. Check the Event Registry definition,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000584 | An exception has occurred in the execution of the lotus query: %1 Ensure the formula is defined correctly in the Event Registry definition | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000585 | An exception has occurred in the execution of the lotus formula: %1 Ensure the formula is defined correctly in the Event Registry definition%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000586 | An exception has occurred in the retrieval of the document by UNID: %1 Ensure the UNID is defined correctly in the Event Registry definition,%2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000587 | An exception has occurred in the publishing of documents from the Outbox, | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-0000588 | Source Documents Not found, Formula has not been specified in the Event Registry | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000589 | An exception has occurred in the UpdateDocument execution,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000590 | An exception has occurred in the DeleteDocument'execution,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000591 | Unknown Action Type %1 Encountered in the course of event execution | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000592 | An exception has occurred in the execution of the Note Action | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000593 | Invalid Note Exit: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000594 | No Lotus Collections were retrieved and hence NO Documents were processed | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000595 | Failure in the Confirmation of the message as a result of MExceptionEvent in certified message delivery. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000596 | The Keyword specified in the event registry is not a valid keyword: %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000597 | Cannot extract the nodes from the RV message for useTreeNodees | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000598 | Cannot extract the values from the RV message for useTreeValues | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000599 | An exception has occurred in mapping the RV message node values to the Lotus Document fields defined in the Event Registry,%1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000600 | An exception has occurred in the preparation of the lotus query | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000601 | Stop attempted on a thread which has not been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000602 | Start attempted on a thread which has already been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000603 | Pause attempted on a thread which has not been started | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000604 | Failed to adjust the environment files() in particular the attachment location | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000605 | An exception has occurred in the LotusAgent execution Lotus Agent Name: %1. Ensure that this is correct %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000606 | Found an Existing document, Updating the values | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000607 | Executing Agent: %1 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000608 | :::: Event Exit manipulating incoming data | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000609 | :::: Event Exit manipulating outgoing data | | |
| | Information | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000610 | :::: Event Exit manipulating database: %1 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000611 | :::: Event Exit Other Processing | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000612 | :::: Meta Exit creating outgoing data | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000613 | :::: Meta Exit manipulating outgoing data | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000614 | :::: Meta Exit manipulating database: %1 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000615 | :::: Meta Exit Other Processing | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000616 | :::: Meta Exit manipulating incoming data | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000617 | %1 | | |
| | Information | Adapter | Check the adapter configuration settings. |
| AELN-0000618 | Exception Message : %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000619 | Failed to load properties file: %1 %2 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000620 | Exception in Tibrv Queue dispatch : %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000621 | Fatal Error , Point of Give Up : %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000622 | Exception Message : %1 | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000623 | Error in LotusDate to JavaDate Conversion : %1 | | |
| | Error | Adapter | No action required. Contact Tibco support. |
| AELN-0000624 | Error in JavaDate to LotusDate Conversion : %1 | | |
| | Error | Adapter | No action required. Contact Tibco support. |
| AELN-0000625 | Error in lotus notes document recycling : %1 | | |
| | Error | Adapter | Try re-starting the adapter. |
| AELN-0000626 | Update Failed : Source Document Not found , View Name = %1 Keys = %2 | | |
| | Error | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000627 | Update Failed: Source Document Not found, Form Name = %1 Keys = %2 | | |
| | Error | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000628 | Update Failed: Source Document Not found, Formula = %1 | | |
| | Error | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000629 | Deleted Failed: Source Document Not found , View Name = %1 Keys = %2 | | |
| | Error | Adapter | Check if the document exists. |
| AELN-0000630 | Deleted Failed: Source Document Not found, Form Name = %1 Keys = %2 | | |
| | Error | Adapter | Check if the document exists. |
| AELN-0000631 | Deleted Failed: Source Document Not found, Formula = %1 | | |
| | Error | Adapter | Check if the document exists. |
| AELN-0000632 | ERROR ADVISORY RECEIVED [%1]\n%2 | | |
| | Error | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000633 | INFO ADVISORY RECEIVED [%1]\n%2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000634 | WARNING ADVISORY RECEIVED [%1]\n%2 | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000635 | IP Address for the Domino Servername specified could not be resolved... | | |
| | Error | Adapter | Check if the correct HostName/IPAddress has been specified. |
| AELN-0000636 | Error in creating a Remote session on the Domino Server... | | |
| | Error | Adapter | Check if the Domino Server is up and DIOP and HTTP services are enabled on the server. |
| AELN-0000637 | Error in creating a local session on the Notes Database... | | |
| | Error | Adapter | Check if the nsf file exists. |
| AELN-0000638 | The release of Domino the session is running on is: [%1] | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000639 | Creating HTTP Listener on port: %1 | | |
| | Debug | Adapter | Check the adapter configuration settings. |
| AELN-0000662 | Neither the 'view', 'formula' or 'form' was defined as a property of the class: [%1]\n to execute the Update operation. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-0000663 | Failure in the Confirmation of the message as a result of MExceptionEvent in certified message delivery. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-940012 | Request Response error. Error in incoming data for RPC service. Not able to map incoming data to the business object schema configured at design time. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-1000101 | class: %1 message: %2 | | |
| | Warning | Client | Indicates normal adapter operation. No action required. |
| AELN-1000102 | LotusClientRequest: %1:: [%2] Started | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000103 | Exception in client request poller thread as a result of an Interruption | | |
| | Warning | Client | Indicates normal adapter operation. No action required. |
| AELN-1000104 | Exception in client request poller thread as a result of reading the database | | |
| | Warning | Client | Indicates normal adapter operation. No action required. |
| AELN-1000105 | onMsg in client request trigger: %1 | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000106 | polling client request processing view in database for request: [%1] | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000107 | WARNING:: The incoming message is not of the required format and was ignored | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000108 | Processing Request Documents. The tracking ID is : %1 | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000109 | No Request Documents Found | | |
| | Information | Client | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-1000110 | processing Client Request Prossessing Document, the UID: %1 | | |
| | Debug | Client | Indicates normal adapter operation. No action required. |
| AELN-1000111 | the related Client Request Document UID: %1 | | |
| | Debug | Client | Indicates normal adapter operation. No action required. |
| AELN-1000112 | No Request Documents Found | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000113 | The incoming RV message did not have a ClientRequest node and hence a request name was not identified. | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000114 | An Exception has occurred in request document processing errorClass: LotusAdapterException errorCode: %1 errorText: %2 OriginalError: %3 severity: %4 | | |
| | Error | Client | Check the adapter configuration settings. |
| AELN-1000115 | An Exception has occurred in request document processing class: %1 errorText: %2 | | |
| | Error | Client | Check the adapter configuration settings. |
| AELN-1000116 | Initiating the %1 Request using ::::Parameters = %2 Values = %3 | | |
| | Debug | Client | Indicates normal adapter operation. No action required. |
| AELN-1000117 | An Exception has occurred in the client request processing: exceptionName: %1 exceptionData: %2 | | |
| | Error | Client | Check the adapter configuration settings. |
| AELN-1000118 | Updating the related Document fields where applicable | | |
| | Information | Client | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-1000119 | Exception in updating the result field of related Document ...class: lotus.notes.NotesException - message: %1 | | |
| | Error | Client | Check the nsf file |
| AELN-1000120 | Related Document has not been specified | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000121 | ----- | | |
| | Debug | Client | Indicates normal adapter operation. No action required. |
| AELN-1000122 | Processing the reply | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000123 | Updating the related Document fields where applicable | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000124 | Exception in updating the result field of related Document ...class: lotus.notes.NotesException - message: %1 | | |
| | Error | Client | Check the nsf file |
| AELN-1000125 | NO Reply associated with this request | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000126 | onReply | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-1000127 | %1 Stopped, listening to %2 | | |
| | Information | Client | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-1000128 | Error in TrackInfo Message Creation : %1 | | |
| | Information | Client | Indicates normal adapter operation. No action required. |
| AELN-2000201 | Request Server [With Reply]: %1 initiated ... | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000202 | An Exception has occurred in the construction of a LotusServerWithReply object: [%1]...class: %2 message: %3 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000203 | An Exception has occurred in attempting to start the LotusServerWithReply object: [%1]...class: %2 message: %3 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000204 | Request written to the Queue | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000205 | Request-Response service: %1 initiated ... | | |
| | Information | Server | Check the adapter configuration settings. |
| AELN-2000206 | EXCEPTION :: Class: %1 Error Text: Not able to reply to the requestor Error Code: LotusServerWithReply_666 Original Error: %2 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000207 | Exception in thread LotusServerWithReply: %1class: %2 - message: %3 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000208 | Processing the request with reply | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000209 | Derived Formula: %1 | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-2000210 | Processing the formula evaluation | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000211 | Formula evaluation against Lotus Session | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000212 | Result = %1 Result Class = %2 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000213 | Sending reply of Server Formula: [%1] | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000214 | Formula evaluation against Lotus Document: %1 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000215 | Processing the query using the formula | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000216 | Field: contains an embedded object. Publication of objects and pictures are NOT supported | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000217 | Field: contains an embedded object. Publication of objects and links are NOT supported | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000218 | [%1] Records retrieved using the Server Query: [%2] | | |
| | Information | Server | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-2000219 | NO Records retrieved using the Server Query: [%1] | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000220 | Search using view: [%1] and searchKeys: %2 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000221 | [%1] Records retrieved using the Server View: [%2] and search keys: %3 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000222 | No Records retrieved using the Server View: [%1] and search keys: %2 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000223 | Processing the Agent: [%1] | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000224 | Agent Request Parameters: %1 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000225 | Response Document created | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000226 | Setting the Response Document status to %1'.....' | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000227 | Agent: [%1] executed | | |
| | Information | Server | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-2000228 | Retrieving the Response Document using: %1 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000229 | Processing the Response Document | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000230 | Record [%1] did not process field: %2 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000231 | [%1] Records retrieved via the Server Agent: [%2] | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000232 | [0] Records retrieved via the Server Agent: [%1] | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000233 | Setting the Response Document status to Processed'.....' | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000234 | NO records retrieved via the Server Agent: [%1] | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000235 | Setting the Response Document status to ProcessedNoData'.....' | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000236 | Server Exit NOT found | | |
| | Information | Server | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-2000237 | Server Exit :: Creating an External Process: [%1] ... | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000238 | operation Type: [%1] of server: [%2] and operation: [%3] is NOT supported | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000239 | operation Type of [server: [%1] and operation: [%2]] has NOT been defined | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000240 | Creating the Error Reply | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000241 | -----EXCEPTION-----Request : [server: [%1] and operation: [%2]] Error Code : %3 Error Text : %4 Original Error: %5 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000242 | Request: [server: [%1] and operation: [%2]] | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000243 | -----EXCEPTION-----Request : [server: [%1] and operation: [%2]] Error Code : LotusServerWithReply_665 Error Text : An Exception has occurred in the processing of a server request Original Error: class: %3 text: %4 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000244 | EXCEPTION :: Request: [server: [%1] and operation: [%2]] Error Code: LotusServerWithReply_665 Error Code: An Exception has occurred in the processing of a server request Original Error: class: %3 text: %4 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000245 | Using the Default Value of %1 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-2000246 | Component : %1 Stopped serving | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000247 | Component : %1 Paused | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000248 | Component : %1 Resumed | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000249 | Request Server [No Reply]: %1 initiated ... | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000250 | An Exception has occurred in the construction of a LotusServerNoReply object: [%1]... | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000251 | An Exception has occurred in attempting to start the LotusServerNoReply object: [%1]... | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000252 | Exception in thread LotusServerWithReply: %1 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000253 | Processing the request with NO reply | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000254 | Agent Document created | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000255 | Setting the Agent Document status to %1'.....' | | |
| | Error | Server | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-2000256 | ----- | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000257 | Error in Locale specific DateFormat Conversion : %1 | | |
| | Error | Server | Contact Tibco support. |
| AELN-2000258 | Error in LotusDate to JavaDate Conversion | | |
| | Error | Server | Check date format. |
| AELN-2000259 | Fatal Error , Point of GiveUp : %1 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000260 | Error in EmbeddedObjects manipulation : %1 | | |
| | Error | Server | Check schema. |
| AELN-2000261 | Error in Attachment Processing : %1 | | |
| | Error | Server | Check schema. |
| AELN-2000262 | Error in parsing the requested fields string : %1 | | |
| | Error | Server | Check the requested fields specified. |
| AELN-2000263 | Received a New Request. The tracking ID is: %1 | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000264 | Operation Type specified in the request : %1 | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000265 | Form Name not specified in the request | | |
| | Error | Server | Specify the form name in the request. |
| AELN-2000266 | Sending the error reply... | | |
| | Error | Server | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|---|
| AELN-2000267 | Data not available in the request | | |
| | Error | Server | Specify the data in the request. |
| AELN-2000268 | Formula / KeyField and Form Name / Form Name expected in the request | | |
| | Error | Server | Specify Formula / KeyField and Form Name in the request. |
| AELN-2000269 | Formula / FormName and Data / Data expected in the request | | |
| | Error | Server | Specify Formula / FormName and Data / Data expected in the request. |
| AELN-2000270 | Processing the request... | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000271 | Creating a new document to be inserted into the database... | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000272 | Parsing the incoming data... | | |
| | Debug | Server | Indicates normal adapter operation. No action required. |
| AELN-2000273 | File Name not specified in the request | | |
| | Error | Server | Specify the file name. |
| AELN-2000274 | Document successfully created in the database... | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000275 | Error in processing the request : %1 | | |
| | Error | Server | Check the adapter configuration settings. |
| AELN-2000276 | Search criteria failed to return a document/document collection | | |
| | Error | Server | Give correct search criteria. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|----------------------|---|-------------|---|
| AELN-2000277 | Formula evaluation failed to return a document/document collection | | |
| | Error | Server | Give correct search criteria. |
| AELN-2000278 | Update Operation Successful... | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AELN-2000300 | Request processed successfully. The tracking ID is : %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890001 | Reconnect attempt %1. | | |
| | Information | Application | Indicates normal adapter operation. No action required. |
| AEADLN-890002 | Reconnect succeeded on attempt %1. | | |
| | Information | Application | Indicates normal adapter operation. No action required. |
| AEADLN-890003 | The request received could not be processed due to connection errors. Error reply sent back. | | |
| | Error | Adapter | Check the Lotus Domino Server connection. |
| AEADLN-890004 | Adapter stopping due to persistent connection errors. Check the Lotus Domino Server and restart adapter. | | |
| | Error | Adapter | Check the Lotus Domino Server and restart adapter. |
| AEADLN-890005 | Subscription service %1 suspended due to reconnect failure. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890006 | Connection re-established; suspended service %1 reactivated. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|-------------|--|
| AEADLN-890007 | Operation did not succeed due to connection error in service %1. The operation will be reattempted. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890008 | Reconnect failed on attempt %1 - will retry in %2 ms. | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890009 | Connection reestablished for publisher - message may be a duplicate of a previously published message. | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890010 | An exception has occurred. Only %1 of the %2 documents have been updated. | | |
| | Error | Application | Check the application for a valid connection. |
| AEADLN-890011 | Processing Document %1. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890012 | An exception has occurred. Only %1 of the %2 documents have been deleted. | | |
| | Error | Application | Check the application for a valid connection. |
| AEADLN-890013 | Time taken by computeWithForm api = %1 minute(s) | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890014 | The computewithform api has been set to off and computed fields will not be calculated | | |
| | Warning | Adapter | If the computewithform api has to be set to on, set adln.computeWithForm to ON in the .tra file. |
| AEADLN-890015 | Time taken to Complete %1 Operation for (%2) document(s) is = %3 minute(s). | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|--|----------|--|
| AEADLN-890016 | Time taken for Processing the (%1 th) document is = %2 minute(s). | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-890017 | An error has occurred in the Server Request Processing. %1 | | |
| | Error | Adapter | Check the application for a valid connection. |
| AEADLN-890018 | Reconnection to server Successful | | |
| | Information | Server | Indicates normal adapter operation. No action required. |
| AEADLN-910006 | Startup Error. SDK Exception %1 occurred while creating a shutdown listener. The Repository URL is %2 and the Configuration URL is %3. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AEADLN-910007 | Startup Error. Unable to create a connection with the target application %1 using connection parameters [ServerName= %2, UserName= %3] and the target application error is %4 | | |
| | Error | Adapter | Check if correct parameters have been specified in the adapter configuration. |
| AEADLN-910010 | Startup Error. Failed to load properties file containing trace messages from path%1 for Adapter Instance %2. Error Message %3 | | |
| | Error | Adapter | Check if the properties file exists. |
| AEADLN-910011 | Startup Error. Port not available. Failed to Start the adapter on the port: %1. Error Message: %2 | | |
| | Error | Adapter | Specify a different port as the port specified is already in use. Change the port in nsf also accordingly. |
| AEADLN-910012 | Startup Error. Negative polling interval. Failed to Start the adapter as a negative value (%1) has been specified for the polling interval in the .tra file. | | |
| | Error | Adapter | Specify a non negative polling interval in the .tra file. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|----------|--|
| AEADLN-910013 | Startup Error. Negative polling batch size. Failed to Start the adapter as a negative value (%1) has been specified for the polling batch size in the .tra file. | | |
| | Error | Adapter | Specify a non negative polling batch size in the .tra file. |
| AEADLN-910014 | Startup Warning. Password decryption was unsuccessful. | | |
| | Warning | Adapter | Check if the password entered is a valid one. |
| AEADLN-910016 | Zero Polling Interval. Changing the polling interval to the default value:5000 since zero has been specified for the polling interval in the .tra file. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AEADLN-920001 | Subscription error. Subscription service %1 listening on %2 received an unexpected event of type = %3. The Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Trigger the configured event. |
| AEADLN-920002 | Subscription error. Subscription service %1 failed to deserialize the event received on subject %2 and SDK exception thrown is %3. The Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-920003 | Subscription error. Subscription service %1 listening on subject %2 received inbound event with null data. The Repository URL is %3 and the Configuration URL is %4. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-920004 | Subscription error. Subscription service %1 listening on subject %2 could not deserialize the inbound event to MbusinessDocument %3. The Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|--|----------|---|
| AEADLN-920005 | Subscription error. Subscription service %1 listening on subject %2,could not find the tracking data. The Repository URL is %3 and the Configuration URL is %4. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-920007 | Subscription error. Subscription service %1 listening on subject %2 could not get the class description of %3. The Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-920010 | Subscription error. Subscription service %1 listening on subject %2 received event with missing attributes in class %3. The Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-920012 | Subscription error. Subscription service %1 listening on subject %2 received MBusinessDocument %3 with NULL value for attribute %4. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-920013 | Subscription error. Subscription service %1 listening on subject %2 received MBusinessDocument %3 with invalid value %4 for attribute %5. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-920014 | Subscription error. Subscription service %1 listening on subject %2 could not process the inbound event due to connection error %3 against target application %4 with parameters are [ServerName= %5, UserName= %6]. | | |
| | Error | Adapter | Check connection parameters. |
| AEADLN-920015 | Subscription error. Subscription service %1 listening on subject %2 failed due to target application invocation error %3. Target application is %4. The target application specific commands and parameters are %5. | | |
| | Error | Adapter | Check connection parameters. |
| AEADLN-920017 | Subscription error. Subscription service could not send response %1 on reply subject. The Repository URL is %6 and Configuration URL is %7. | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|----------|--|
| AEADLN-920019 | Subscription error. Subscription service could not create reply from target application for publish on reply subject. The Repository URL is %1 and Configuration URL is %2. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AEADLN-930001 | Publication error. Publication service %1 publishing on subject %2 encountered error %3 while trying to connect to target application %4. Connection parameters are [ServerName= %5, UserName= %6], the connection timeout is %7 millisecs, and the number of retry efforts is %8. Polling timeout is %9 millisecs. | | |
| | Error | Adapter | Check connection parameters. |
| AEADLN-930002 | Publication error. Publication service %1 with publication subject %2 encountered error %3 while trying to create publish event with schema %4. The Target application details are %5. | | |
| | Error | Adapter | Check connection parameters. |
| AEADLN-930003 | Publication error. Publication service %1 with publishing subject as %2 received event from target application %3. It failed while converting event to "Minstance" as it could not get the class description for %4. Repository URL is %5 and the Configuration URL is %6. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-930006 | Publication error. Publication service %1 with publishing subject %2 received the event from target application %3. It failed while converting event to "Minstance" attribute %4 of class %5 is missing. Repository URL is %6 and the Configuration URL is %7. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-930007 | Publication error. Publication service %1 with publication subject %2 received event from target application but could not create the business document %3. The target application details are [ServerName= %4, UserName= %5], the Repository URL is %6 and the Configuration URL is %7. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|--|----------|--|
| AEADLN-930008 | Publication error. Publication service %1 with publication subject %2 received SDK Exception %3 while converting the event received from target application to BusinessDocument. The exception occurred while setting the attribute %4 with value of %5 for Business Document %6. The target application details are %7, the Repository URL is %7 and Configuration URL is %8. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-930014 | Publication error. Publication service %1 with publication subject %2 received error while sending event over the wire. The Error details are %3. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AEADLN-940001 | Request-Response error. Request-Response service %1 received unexpected null data in incoming request. Expects event %2. The Repository URL is %3 and the Configuration URL is %4. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-940004 | Request-Response error. Request-Response service %1 failed to deserialize the received MServerRequest to MInstance: Received event = %2, SDK exception = %3. The Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-940005 | Request-Response error. Error in incoming data for RPC service: %1. Not able to map incoming data to the business object schema: %2 configured at design-time. Invalid data type: %3 for attribute: %4. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-940006 | Request-Response error. Error in incoming data for RPC service: %1. Missing mandatory parameter %2 for RPC input class %3. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-940007 | Request-Response error. Connection error in invocation of RPC service:%1. Connection parameters are [Server Name: %2, database name:%3, user name:%4. | | |
| | Error | Adapter | Check the adapter configuration settings. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|--|----------|--|
| AEADLN-940008 | Request-Response error. Request-Response service %1 failed due to target application invocation error %2. Target application is %3 and inbound event is %4. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AEADLN-940009 | Request-Response error. Request-Response service %1 failed to create Reply Business Object Error %2. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-940010 | Request-Response error. Request-Response service %1 received a time out error. Time out period in configuration file is %2. | | |
| | Error | Adapter | Check timeout interval. |
| AEADLN-940011 | Request-Response error. Request-Response service %1 received an error while sending Data. Error Message %2. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-950001 | Request-Response Invocation error. Request-Response Invocation service %1 received event from target application %2. It failed while converting event to Request, as it could not get the class description for %3. Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-950002 | Request-Response Invocation error. Request-Response Invocation service %1 received event from target application %2. It failed while converting event to Request, as it could not get the Operation description %3 in the class %4. Repository URL is %5 and the Configuration URL is %6. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-950003 | Request-Response Invocation error. Request-Response Invocation service %1 received event from target application %2. It failed while converting event to Request. Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|----------|--|
| AEADLN-950004 | Request-Response Invocation error. Request-Response Invocation service %1 received event from target application %2. It failed while converting event to Request, as it cannot set Operation Parameter %3. Repository URL is %4 and the Configuration URL is %5. | | |
| | Error | Adapter | Problem with schema. Check the schema for broken references. |
| AEADLN-950007 | Request-Response Invocation error. Request-Response Invocation service %1 received error while sending event over the wire. The Request-Response Invocation endpoint details are %2. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-950008 | Request-Response Invocation error. Request-Response Invocation service %1 received error while requesting event over the wire. The Request-Response invocation endpoint details are %2. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-950009 | Request-Response Invocation error. Request-Response Invocation service %1 received error while requesting event over the wire. The Request-Response Invocation endpoint details are %2. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-950010 | Request-Response Invocation error. Request-Response Invocation service %1 received null reply while requesting event over the wire. The Request-Response Invocation endpoint details are %2. | | |
| | Error | Adapter | Check the schema. |
| AEADLN-950011 | Request-Response Invocation error. Request-Response Invocation service %1 received timeout error while requesting event over the wire. The Request-Response Invocation endpoint details are %2. | | |
| | Error | Adapter | Check timeout interval. |
| AEADLN-950012 | Request-Response Invocation error. Request-Response Invocation service %1 received error while processing reply message. The Request-Response Invocation endpoint details are %2. | | |
| | Error | Adapter | Check the schema. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|---------------|---|----------|---|
| AEADLN-990002 | Shutdown error. SDK cleanup exception = %1. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AEADLN-990003 | Shutdown error. Failed to cleanup Hawk microagent. SDK exception = %1. | | |
| | Error | Adapter | Check the hawk configuration settings. |
| AEADLN-990004 | Shutdown error. Failed to cleanup the threads: %1. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AEADLN-990005 | Shutdown error. Error in disconnecting from %1 connection parameters %2. | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AEADLN-910015 | Initializing the .tra file... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000280 | Removing session corresponding to id :[%1] ... | | |
| | Information | Adapter | Recreate the session using the Login Service, if needed. |
| AELN-2000281 | Session has expired or invalid session id :[%1] ... | | |
| | Error | Adapter | Check the sessionID to be a valid one, else check whether it has expired. |
| AELN-2000282 | Exception in recycling Lotus Session. %1 | | |
| | Error | Adapter | The sessionID might be already removed by another operation. |
| AELN-2000283 | An Exception has occurred in attempting to start the LotusLoginWithReply object: [%1]... | | |
| | Error | Adapter | Check the adapter configuration settings. |
| AELN-2000284 | Login Server: %1 initiated ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|--|
| AELN-2000285 | LoginServer: Start attempted on a server thread: [%1] failed, Attempt to start thread which has already been started | | |
| | Error | Adapter | Check the settings of the Login Service. |
| AELN-2000286 | Login Exception For User %1. | | |
| | Error | Adapter | Check the settings of the user in the Domino Server. |
| AELN-2000287 | Got session from pool for session id %1. | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000288 | Request-Response error. Session id not found in the request | | |
| | Error | Adapter | Enter a sessionID corresponding to the user as whom you would like to perform the operation. |
| AELN-2000289 | An Exception has occurred in attempting to start the LotusLogoutWithReply object: [%1]... | | |
| | Error | Adapter | Check the settings of the Logout Service. |
| AELN-2000290 | Logout Server: %1 initiated ... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000291 | LogoutServer: Start attempted on a server thread: [%1] failed, Attempt to start thread which has already been started | | |
| | Error | Adapter | Check the settings of the Logout Service. |
| AELN-2000292 | Logout Exception For session id %1. | | |
| | Error | Adapter | The session might be invalid or might have already expired. |
| AELN-2000293 | Number of sessions in pool : %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|--|
| AELN-2000294 | Received a login request.... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000295 | Received a logout request.... | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000296 | Processing the login request..... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000297 | Processing the logout request..... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000298 | Sending session id in reply..... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000299 | Sending logout status in reply..... | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000640 | An exception occurred while processing a RichText field containing Text and Attachments. The error message is %1. | | |
| | Error | Adapter | Check the contents of the field. |
| AELN-0000641 | An exception occurred while reading the value of IOR from the file. The error message is %1. | | |
| | Error | Adapter | Check if the IOR file exists and its permissions, else its contents. |
| AELN-0000642 | Subscription error. Session id not found in the incoming message | | |
| | Error | Adapter | Enter a sessionID corresponding to the user as whom you would like to perform the operation. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000643 | %1 threads created for the Request-Response Services. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000644 | An exception occurred while creating the threads for Request-Response Service. The error message is %1. | | |
| | Error | Adapter | Check the settings of the Request-Response Service. |
| AELN-0000645 | Array Out Of Bounds Exception occurred. The thread ID is %1. | | |
| | Error | Adapter | Check the thread configuration for your Request-Response server |
| AELN-0000646 | The Universal ID of the Document is : %1. The ThreadID is :%2 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000647 | Removed the document with UniversalID %1 from the Database. The ThreadID is %2.' | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000648 | Successfully subscribed the Event with subject: %1. The tracking ID is: %2. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000649 | An exception occurred while reading the IOR. Check the IOR file if it is specified by the user, else check if the server name and port are valid | | |
| | Error | Adapter | Check the IOR file if it is specified by the user, else check if the server name and port are valid. |
| AELN-0000650 | The UID of the Original Document is : The %1. The UID of the Publish Document is : The %2. The ThreadID is :%3. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-0000652 | Processing Operation No, %1 %2. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000653 | No Document Updated: Source Document Not found, View Name =%1 Keys = %2. | | |
| | Warning | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000654 | No Document Updated: Source Document Not found, View Name =%1 Keys = %2. | | |
| | Warning | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000655 | No Document Updated: Source Document Not found, View Name =%1 Keys = %2. | | |
| | Warning | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000656 | No Document Deleted: Source Document Not found, View Name =%1 Keys = %2. | | |
| | Warning | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000657 | No Document Deleted: Source Document Not found, Form Name =%1 Keys = %2. | | |
| | Warning | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000658 | No Document Deleted: Source Document Not found, Form Name = %1. | | |
| | Warning | Adapter | Check if the document exists. Please check the adapter configuration settings. |
| AELN-0000659 | ERROR ADVISORY RECEIVED [%1]\n%2. | | |
| | Error | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-0000660 | INFO ADVISORY RECEIVED [%1]\n%2. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-0000661 | WARNING ADVISORY RECEIVED [%1]\n%2. | | |
| | Warning | Adapter | Indicates normal adapter operation. No action required. |
| AELN-1000129 | Processing Request Documents. The tracking ID is : %1. | | |
| | INFO | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000300 | Request processed successfully. The tracking ID is : %1 | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000301 | "Key field missing, field name is : [%1]" | | |
| | Warning | Adapter | Indicates adapter operation. No action required. |
| AELN-2000302 | "Document Duplicated, formName : [%1], Key data : %2" | | |
| | Warning | Adapter | Indicates adapter operation. No action required. |
| AELN-2000303 | Performing the inserts | | |
| | Information | Adapter | Indicates adapter operation. No action required. |
| AELN-2000304 | Enable Key fields on Insert for [[%1]. | | |
| | Information | Adapter | Indicates adapter operation. No action required. |
| AELN-2000305 | This processing requires searching Key fields to be specified | | |
| | Warning | Adapter | Indicates adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-2000306 | [%1] Records retrieved using the Server Query (FTSearch), the parameters are: [%2] | | |
| | Information | Adapter | Indicates adapter operation. No action required. |
| AELN-2000307 | NO Records retrieved using the Server Query (FTSearch), the parameters are: [%1] | | |
| | Information | Adapter | Indicates adapter operation. No action required. |
| AELN-2000308 | Failed to query the database [%1] using Server Query (FTSearch), the parameters are: [%2]. Error Message: %3 | | |
| | Error | Adapter | Please check the adapter configuration settings. |
| AELN-2000309 | Failed to get parameters when doing Server Query (FTSearch), the given parameters are: [%1]. Error Message: %2 | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000310 | The FTSearch parameter is empty or not defined when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000311 | The number of FTSearch parameters is incorrect when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000312 | Invalidated FTSearch parameters when doing Server Query (FTSearch), the given parameters are [%1]. Error Message: %2 | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000313 | FTSearch parameter 'query' is empty when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-2000314 | <description>the number [%1] FTSearch parameter is empty when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000315 | the number [%1] FTSearch parameter should be integer when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000316 | Processing the query using the FTSearch | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000317 | Receive FTSearch parameters: %1 | | |
| | Debug | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000318 | Set Update Mode to [%1] for [%2]. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000319 | Disable key fields on Insert for [%1]. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000320 | Publishing for Insert Operation has happened on source document, setting opcode to [%1]. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000321 | Publishing for Update Operation has happened on source document, setting opcode to [%1]. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|---|----------|--|
| AELN-2000322 | Schema [%1] NOT supported. No Service can be found with the specified schema name in the coming message. | | |
| | Error | Adapter | Please check the consistency of the schemas. |
| AELN-2000323 | Failed to process the request. The tracking ID is : %1. | | |
| | Information | Adapter | Indicates normal adapter operation. No action required. |
| AELN-2000324 | Failed to Update the related Document fields where applicable. The error message is: %1 | | |
| | Error | Adapter | Please check whether the related document is existed. |
| AELN-2000325 | There is type mismatch for [%1] between the data type [%2] in adapter and data type [%3] in Lotus. | | |
| | Error | Adapter | Please check whether the datatype in adapter is consistent with that in Lotus. |
| AELN-2000326 | FTSearch parameter 'query' has invalid symbol when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000327 | Key fields NOT Defined. | | |
| | Error | Adapter | Please configure key fields at designer or set key fields (using the formKey attribute in the incoming message at run time). |
| AELN-2000328 | Form [%1] NOT exists in Domino. | | |
| | Warning | Adapter | Please check whether the form exists in Domino. |
| AELN-2000329 | Field [%1] NOT exists for Form [%2] in Domino. | | |
| | Debug | Adapter | Please check the whether the field for exists for the form in Domino. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|--------------|--|----------|---|
| AELN-2000330 | FTSearch parameter 'query' is specified by ending with an invalid symbol with when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000331 | FTSearch parameter 'query' is specified by ending with an invalid symbol with when doing Server Query (FTSearch). | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000332 | Schema NOT defined correctly for [%1]. | | |
| | Error | Adapter | Please check the adapter configuration settings related to FTSearch Parameters. |
| AELN-2000333 | Received a New Request. The tracking ID is: %1. | | |
| | INFO | Adapter | Indicates normal adapter operation. No action required.. |
| AELN-500006 | Message/Design-Time Test Connection is successful. | | |
| | INFO | Adapter | |
| AELN-500018 | Field:Max No of Retries/Palette error. The Maximum Number of Retries must be an integer greater than or equal to -1, and less than or equal to 65535. | | |
| | Error | Adapter | Enter a number greater than or equal to -1 and less than or equal to 65535. |
| AELN-500041 | Connection Not Established/Please verify whether the connection with the Database has been established. | | |
| | Error | Adapter | Establish connection with the DataBase by clicking the button "Connect" in adapter instance Design-time Connection tab. |
| AELN-510041 | View Not Availble/The View '%1' doesn't exist. | | |
| | INFO | Adapter | |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|-------------|--|----------|--|
| AELN-510042 | View Not Given/Palette error. Please give a valid View Name or select a View name using 'Fetch Schemas'. | | |
| | INFO | Adapter | |
| AELN-510043 | Form Not Given/Palette error. Please give a valid Form Name or select a Form name using 'Fetch Schemas'. | | |
| | INFO | Adapter | |
| AELN-510044 | Form Not Availble/The Form '%1' doesn't exist. | | |
| | INFO | Adapter | |
| AELN-510045 | Message/RPC Result Schema regenerated successfully by the form '%1'.\nPlease refer to the 'View Result Schema' tab for the details. | | |
| | INFO | Adapter | |
| AELN-510046 | Message/The Request Name '%1' of the Target doesn't equals the service name '%2'.\nPlease click the "Read Target" button to read the Proper Target. | | |
| | INFO | Adapter | |
| AELN-510047 | MValid Field Value Required/Please input a valid value for '%. | | |
| | Error | Adapter | Define the specific field with validated value. |
| AELN-510001 | Fatal Error/Error in creating staticmetadata classes and sequences. | | |
| | Error | Adapter | |
| AELN-510048 | Cannot Get Value From the Field/Cannot not get the value of '%. | | |
| | Error | Adapter | Check the related field. Define the specific field with validated. |
| AELN-510049 | Field:No Retries Before Suspend/Palette error. The Number of Publication Service Threads must be greater than or equal to 0, and less than or equal to 65535. | | |
| | Error | Adapter | Enter a number between 0 and 65535. |
| AELN-510050 | Field: %1 /Palette error. The Input of the field must be integer greater than or equal to 0, and less than or equal to 65535. | | |
| | Error | Adapter | Enter a number between 0 and 65535. |

Table 26 Status Message (Cont'd)

| Status Code | Role | Category | Resolution |
|-------------|---|----------|--|
| AELN-500042 | Connection Failed/Design-Time Connection Failed, Please Check the Connection Parameters. | | |
| | Error | Adapter | Please check the design time connection parameters. |
| AELN-500043 | Run-Time Test Connection Failed/Run-Time Test Connection Failed, Please Check the Connection Parameters. | | |
| | Error | Adapter | Check the run-time connection parameters. |
| AELN-520020 | Agents Not Defined/Agents are not defined in the Lotus Notes Database. | | |
| | Warning | Adapter | Please define an agent in the lotusnotes database and try again. |
| AELN-510013 | Message/%1. | | |
| | INFO | Adapter | |
| AELN-510051 | Field Empty/Field '%1' can NOT be empty. | | |
| | Error | Adapter | Define the specific field with some value. |

Appendix B **Configuring SSL for HTTP and DIIOP**

This chapter provides a quick reference for how to configure SSL for HTTP and DIIOP on Lotus Domino applications.



Lotus Notes 7 is used in this book.

Topics

- [Overview, page 228](#)
- [Configuring Key and Certificate for SSL, page 229](#)
- [Enabling SSL on Lotus Domino Server, page 235](#)
- [Key Ring Files and Certificate Class File, page 236](#)

Overview

To secure the connection between the adapter and the remote Lotus Domino Server, you can configure SSL for HTTP and DIIOP.

This section demonstrates how to configure SSL for HTTP and DIIOP on Lotus Domino Server. Refer to the Lotus Domino Administrator documentation for more information.

Configuring Key and Certificate for SSL

To enable SSL for HTTP and IIOP, first you need to generate a key and certificate for SSL.

Generating Certificate Authority Key Ring and Server Key Ring

Complete the following tasks to generate a certificate authority key ring and a server key ring.

Task A Create Domino Certificate Authority Database

Users who do not use a commercial CA (Certificate Authority) need to create their own CA in Domino.

To create a Domino CA database:

1. Start Lotus Notes.
2. From the File menu, select **Database > New**.
3. In the New Database window, select a server as the new application location and template location.
4. Enter a name for the new database in the Title field.
5. Select the **Show advanced templates** checkbox.
6. Select **Domino Certificate Authority** from the Template area. Choose the `cca50.ntf` file as the template and ensure that the **Inherit future design changes** checkbox is selected.
7. Click **OK** to create the database.

Task B Create a Certificate Authority Key Ring and Certificate

1. Open the Domino Certificate Authority database.
2. Click the **1. Create Certificate Authority Key Ring & Certificate** option.

If the database has just been created, you may need to close it and then re-open it to allow some newly created views and documents to take effect.
3. Specify the Key Ring Information, Key Size, and Distinguished Name.

Figure 40 Create Certificate Authority Key Ring

Create Certificate Authority Key Ring

This form lets you create the Certificate Authority key ring.

| Key Ring Information | | Quick Help |
|--|---------------------------------|---|
| Key Ring File Name | CAKey.kyr | Specify the file name and password for the key ring. |
| Key Ring Password | ***** | |
| Password Verify | ***** | |
| Key Size | | |
| | 1024 | |
| Distinguished Name | | The Distinguished Name provides your unique identity as a Certificate Authority. This is the information that will display as the "Issuer" in certificates that you sign. |
| Common Name: | tibco-support.com CA | |
| Organization | tibco-support.com | |
| Organizational Unit | (optional) | |
| City or Locality | (optional) | |
| State or Province | Beijing (no abbreviations) | |
| Country | CN (two character country code) | |
| <div>Create Certificate Authority Key Ring</div> | | |

4. Click the **Create Certificate Authority Key Ring** button.

If the key ring has been successfully created, a window named Key ring created with self signed trusted root certificate pops up.



The key ring file will be created under the data subdirectory in the notes client installation folder.

Task C Create Server Key Ring

1. From the File menu, select **Database > Open**.
2. In the Open Database window, change the **Server** field to the location of the server. Select the **Server Certificate Admin** database, its file name is `certsrv.nsf`. Click **Open**.

This database can be found in the Domino data directory. If you cannot find the database, you need to create it. Refer to the Lotus Domino Administrator Help for details about setting up the Server Certificate Admin application.

3. Click the **1. Create Key Ring** option.

4. Specify the Key Ring Information, Key Size, and Distinguished Name.



It is recommended that you keep the default key file name, `keyfile.kyr`. Otherwise, you must change all the key file names in the server configuration document in Lotus Domino Administrator.

Figure 41 Create Server Key Ring

Create Key Ring

The first step in setting up SSL on a server is to create the key ring. When the key ring is created, a public/private keypair is automatically generated and stored in the key ring.

| Key Ring Information | Quick Help |
|---|---|
| <div>Key Ring File <input type="text" value="keyfile.kyr"/></div> <div>Name: <input type="text"/></div> <div>Key Ring <input type="password" value="*****"/></div> <div>Password: <input type="password"/></div> <div>Confirm Password: <input type="password" value="*****"/></div> | <div>Specify the name and password for the key ring file.</div> <div>Note: You'll be referring to the key ring information you enter here in subsequent steps as you create and install certificates into the key ring.</div> |
| Key Size | |
| <div>Key Size: <input type="text" value="1024"/></div> | <div>Key Size is the size of the public/private key pair in bits. The larger the key size, the greater the encryption strength.</div> <div>Note: This Edition of Domino provides the ability to generate RSA keys at both 1024 bits and 512 bits, in accordance with export regulations worldwide.</div> |
| Distinguished Name | |
| <div>Common Name: <input type="text" value="tibco-support.com CA"/></div> <div>Organization: <input type="text" value="tibco-support.com"/></div> <div>Organizational Unit: <input type="text" value="(optional)"/></div> <div>City or Locality: <input type="text" value="(optional)"/></div> <div>State or Province: <input type="text" value="Beijing"/> (no abbreviations)</div> <div>Country: <input type="text" value="CN"/> (two character country code)</div> | <div>The Distinguished Name is the information about your site that will appear in any certificates you create.</div> <div>Note: Make sure the Common Name matches the URL of your site. Some browsers check the Common Name and the site URL, and do not allow a connection if they don't match.</div> |

Create Key Ring

5. Click the **Create Key Ring** button.

If the key ring has been successfully created, a window named `Key Ring Created` pops up.



The key ring file will be created under the `data` subdirectory in the notes client installation folder.

Installing Certificate into Key Ring

Complete the following tasks to install certificate into the key ring.

Task A Create Certificate Request

1. In the Server Certificate Admin database, click the **2. Create Certificate Request** option.
2. Specify the Key Ring Information and Certificate Request Information.
The key ring file is that created for the server key ring. Leave the other fields unchanged.
3. Click the **Create Certificate Request** button.
4. Input the password that you set for the server key ring file when prompted.
5. When the Certificate Request Created window pops up, copy the certificate request to the clipboard for later use. Do the copying according to the help information in the window.

Task B Submit Certificate Request

1. Access the Domino Certificate Authority database from your web browser.
For example, if the name of the database is `DCA.nsf`, use the following URL to access the database:

`http://domino_server_IP_address/DCA.nsf`



Ensure that you have enabled the HTTP service for the Lotus Domino Server. Otherwise, you cannot access the database from the web browser.

2. Click **Request Server Certificate** in the left hand panel.
3. Enter the Contact Information and paste the certificate request.
4. Click the **Submit Certificate Request** button.
5. Click **Accept This Authority In Your Server** in the left hand panel.

6. Copy the CA certificate to the clipboard for later use according to the help information displayed above the certificate.

Task C Install Trusted root certificate into Key Ring

1. In Lotus Notes, open the Server Certificate Admin database `certsrv.nsf`.
2. Click the **3. Install Trusted Root Certificate into Key Ring** option.
3. Specify the Key Ring Information and Certificate Information.
 - a. The key ring file is that created for the server key ring.
 - b. Enter a value in the Certificate Label field for the certificate.
 - c. Select **Clipboard** as the Certificate Source.
 - d. In the Certificate from Clipboard field, paste the CA certificate that you have copied to the clipboard.
4. Click the **Merge Trusted Root Certificate into Key Ring** button.
5. Input the password that you set for the server key ring file when prompted.
6. When the Merge Trusted Root Certificate Confirmation window pops up, check the information, and then click **OK** to install the certificate.

Once the installation is finished, a window pops up to indicate that the trusted root certificate has been merged into your key ring.

Task D Approve the Server Certificate Request

1. In Lotus Notes, open the Domino Certificate Authority database.
2. Click **Server Certificate Requests** in the left hand panel.
3. Double-click the server certificate request document that is waiting for approval.
4. Review the certificate request.
 - a. Ensure that the contact information and certificate information are correct.
 - b. Copy the Pickup ID from the Approve section for later use.
 - c. Set an appropriate value in the Validity Period field. A small value will make your certificate expire soon while a very large value will compromise the security.
5. Click **Approve**.
6. Input the password that you set for the certificate authority key ring when prompted.

7. Enter the DNS host name of your site, which should be your full computer name. For example, *mycomputer.tibco-support.com*.

Task E Pick Up Server Certificates

1. Access the Domino Certificate Authority database from your web browser.
For example, if the name of the database is *DCA.nsf*, use the following URL to access the database:
`http://domino_server_IP_address/DCA.nsf`
2. Click **Pick Up Server Certificate** in the left hand pane.
3. Input the Pickup ID which was generated when approving the server certificate request.
4. Click the **Pick Up Signed Certificate** button.
5. Copy the certificate to the clipboard for later use.

Task F Install Certificate into Key Ring

1. In Lotus Notes, open the Server Certificate Admin database *certsrv.nsf*.
2. Click the **4. Install Certificate Into Key Ring** option.
3. Specify the Key Ring Information and Certificate Information.
 - a. The key ring file is that created for the server key ring.
 - b. Select **Clipboard** as the Certificate Source.
 - c. In the Certificate from Clipboard field, paste the server certificate that you have copied to the clipboard.
4. Click the **Merge Certificate into Key Ring** button.
5. Input the password that you set for the server key ring file when prompted.
6. When the Merge Signed Certificate Confirmation window pops up, check the information, and then click **OK** to install the certificate.

Enabling SSL on Lotus Domino Server

After the key and certificate required by SSL are generated, you need to enable SSL on Lotus Domino Server.

1. Start Lotus Domino Administrator.
2. Select the Domain with the appropriate domain name.
3. In the Configuration tab, expand **Server** from the left hand pane, and then select **Current Server Document**.
4. Click the **Ports** tab, and then click the **Internet Ports** tab. Find the Web tab and DIIOP tab.

The Web tab is for HTTP configuration and the DIIOP tab is for DIIOP configuration. You can enable or disable SSL for HTTP and DIIOP by setting the **SSL port status** field in the corresponding tab.



In the Web tab and DIIOP tab, ensure that the fields of Name & password are set to Yes. Otherwise, you cannot use HTTP or DIIOP to connect to the Domino Server.

Key Ring Files and Certificate Class File

Several files are generated during the configuration. Complete the tasks below with these files.

Task A Copy Key Ring Files to Domino

Two key ring files are generated during the configuration. By default, one file is named as `keyfile.kyr`, the other `keyfile.sth`.

Find the two files in the Lotus Notes data subdirectory and copy them to the Domino data subdirectory.

Task B Create JAR File for Certificate Class

A certificate class file is generated during the configuration. By default, it is named as `TrustedCerts.class`.

You need to create a JAR file for the certificate class file. The following steps demonstrate how to do it with a JAVA utility:

1. At the command prompt, go to the directory where the `TrustedCerts.class` file is located.
2. Run the following command:

```
jar -cvf jar_file_name.jar TrustedCerts.class
```

A file named `jar_file_name.jar` is created in the same directory.

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