



# **BEA WebLogic Adapter for Manugistics®**

## **Installation and Configuration Guide**

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# About This Document

This document explains how to install and configure the BEA WebLogic Adapter for Manugistics. This document is organized as follows:

- [Chapter 1, “Installing the BEA WebLogic Adapter for Manugistics,”](#) explains how to install the adapter.
  - [Preparing to Install the Adapter](#)
  - [Step 1. Obtain the BEA WebLogic Adapter for Manugistics](#)
  - [Step 2. Configure the Domain](#)
  - [Step 3. Extract the Adapter Files](#)
  - [Step 4. Update the BEA License](#)
  - [Step 5. Deploy the Adapter](#)
  - [Step 6. Create an Adapter Administrative User](#)
  - [Next Steps](#)
- [Chapter 2, “Configuring the Transport Database,”](#) explains how to configure the Manugistics transport database.
  - [Creating the Transportation Tables](#)
  - [Populating the Transportation Database](#)

## Who Should Read This Documentation

This document is intended for the following members of an integration team:

- **Integration Specialists**—Lead the integration design effort. Integration specialists have expertise in defining the business and technical requirements of integration projects, and in designing integration solutions that implement specific features of WebLogic Integration. The skills of integration specialists include business and technical analysis, architecture design, project management, and WebLogic Integration product knowledge.
- **Technical Analysts**—Provide expertise in an organization’s information technology infrastructure, including telecommunications, operating systems, applications, data repositories, future technologies, and IT organizations. The skills of technical analysts include technical analysis, application design, and information systems knowledge.
- **Enterprise Information System (EIS) Specialists**—Provide domain expertise in the systems that are being integrated using WebLogic Integration adapters. The skills of EIS specialists include technical analysis and application integration design.
- **System Administrators**—Provide in-depth technical and operational knowledge about databases and applications deployed in an organization. The skills of system administrators include capacity and load analysis, performance analysis and tuning, deployment topologies, and support planning.

## What You Need to Know

This document assumes that you have an understanding of:

- Web technologies.
- WebLogic Integration .
- Manugistics software, system, and environment. This includes understanding of Manugistics tools and configuration as well as processes and data models.
- Your specific Manugistics business needs and applications.

## Product Documentation on the dev2dev Web Site

BEA product documentation, along with other information about BEA software, is available from the BEA dev2dev Web site:

<http://dev2dev.bea.com>

To view the documentation for a particular product, select that product from the list on the dev2dev page; the home page for the specified product is displayed. From the menu on the left side of the screen, select Documentation for the appropriate release. The home page for the complete documentation set for the product and release you have selected is displayed.

## Related Information

Readers of this document may find the following documentation and resources especially useful:

- *BEA WebLogic Adapter for Manugistics Release Notes*  
<http://edocs.bea.com/wlapters/manugistics/docs811/pdf/relnotes.pdf>
- *BEA WebLogic Adapter for Manugistics User Guide*  
<http://edocs.bea.com/wlapters/manugistics/docs811/pdf/user.pdf>
- *Introduction to the BEA WebLogic Adapters*  
<http://edocs.bea.com/wlapters/docs81/pdf/intro.pdf>
- BEA WebLogic Adapters 8.1.1 Dev2Dev Product Documentation  
<http://dev2dev.bea.com/products/wlapters/index.jsp>
- Application Integration documentation  
<http://edocs.bea.com/wli/docs81/aiover/index.html>  
<http://edocs.bea.com/wli/docs81/aiuser/index.html>
- BEA WebLogic Integration documentation  
<http://edocs.bea.com/wli/docs81/index.html>
- BEA WebLogic Platform documentation  
<http://edocs.bea.com/platform/docs81/index.html>
- Manugistics documentation  
<http://www.manugistics.com>

## Contact Us!

Your feedback on the BEA WebLogic Adapter for Manugistics documentation is important to us. Send us e-mail at [docsupport@bea.com](mailto:docsupport@bea.com) if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the BEA WebLogic Adapter for Manugistics documentation.

In your e-mail message, please indicate that you are using the documentation for BEA WebLogic Adapter for Manugistics and the version of the documentation.

If you have any questions about this version of BEA WebLogic Adapter for Manugistics, or if you have problems using the BEA WebLogic Adapter for Manugistics, contact BEA Customer Support through BEA WebSUPPORT at [www.bea.com](http://www.bea.com). You can also contact Customer Support by using the contact information provided on the Customer Support Card which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages



# Installing the BEA WebLogic Adapter for Manugistics

This section explains how to install the BEA WebLogic Adapter for Manugistics with WebLogic Integration on both Windows and UNIX systems.

This section is organized as follows:

- [Preparing to Install the Adapter](#)
- [Installing the Adapter](#)
- [Next Steps](#)

## Preparing to Install the Adapter

Before you install the BEA WebLogic Adapter for Manugistics, be sure to complete the following tasks:

- [Review the Release Notes](#)
- [Understanding the Representation of Paths](#)

## Review the Release Notes

The *BEA WebLogic Adapter for Manugistics Release Notes* contain important information about the software you must install prior to installing the BEA WebLogic Adapter for Manugistics. Also, be sure to check the release notes for information about any required patches for your system. The *BEA WebLogic Adapter for Manugistics Release Notes* are available at the following URL:

<http://edocs.bea.com/wladapters/manugistics/docs811/pdf/relnotes.pdf>

## Understanding the Representation of Paths

When you install WebLogic Integration, you specify the locations for files. Some of these files are required by the adapter. This document uses the following conventions to represent the locations of these files.

- *BEA\_HOME* represents the BEA Home directory of your WebLogic installation. For example:
  - If you install the product in the default location on a Windows system, *BEA\_HOME* represents `c:\bea`.
  - If you install the product in the default location on a UNIX system, *BEA\_HOME* represents `/bea`.
- *WLI\_HOME* represents the root of your WebLogic Integration installation. For example:
  - If you install WebLogic Integration in the default location on a Windows system, *WLI\_HOME* represents `c:\bea\weblogic81\integration`.
  - If you install WebLogic Integration in the default location on a UNIX system, *WLI\_HOME* represents `/bea/weblogic81/integration`.
- *domain* is used to indicate the name of a domain.

You use the Configuration Wizard to create custom user domains. When you set up the domain configuration with the Configuration Wizard, you must specify a domain name, *domain*. You must also indicate where the directory associated with this domain is created. This directory contains files required for that domain. To learn more about the Configuration Wizard, see *Using the Configuration Wizard* which is available at the following URL:

<http://edocs.bea.com/platform/docs81/configwiz/index.html>

- *DOMAIN\_HOME* represents the complete path to the root of a domain.

For example, if you use the Configuration Wizard to create a domain in the default location on a Windows system, *DOMAIN\_HOME* represents

`c:\bea\weblogic81\user_projects\domain.`

If you use the Configuration Wizard to create a domain in the default location on a UNIX system, *DOMAIN\_HOME* represents `/bea/weblogic81/user_projects/domain.`

**Note:** *WLI\_HOME* and *BEA\_HOME* (italicized) also represent the corresponding Windows and UNIX environment variables. For example, the literal interpretation of *WLI\_HOME* is `%WLI_HOME%` for Windows and `$WLI_HOME` for UNIX.

Unlike *WLI\_HOME* and *BEA\_HOME*, *DOMAIN\_HOME* is not an environment variable that is set by default in the WebLogic Integration environment.

## Installing the Adapter

This section explains how to install the BEA WebLogic Adapter for Manugistics with WebLogic Integration. It includes the following steps:

- [Step 1. Obtain the BEA WebLogic Adapter for Manugistics](#)
- [Step 2. Configure the Domain](#)
- [Step 3. Extract the Adapter Files](#)
- [Step 4. Update the BEA License](#)
- [Step 5. Deploy the Adapter](#)
- [Step 6. Create an Adapter Administrative User](#)

### Step 1. Obtain the BEA WebLogic Adapter for Manugistics

To obtain the EAR file containing the BEA WebLogic Adapter for Manugistics software (`BEA_MGISTICS_8_1.ear`), do one of the following:

- Download the file from the following URL:

[http://commerce.bea.com/products/weblogicadapters/wl\\_adapter\\_home.jsp](http://commerce.bea.com/products/weblogicadapters/wl_adapter_home.jsp)

- Obtain the software on CD.

## Step 2. Configure the Domain

You must deploy the BEA WebLogic Adapter for Manugistics in a domain that supports application integration functionality. You can create one of your own, or use the sample integration domain. The sample integration domain is:

- On Windows: `BEA_HOME\weblogic81\samples\domains\integration`
- On UNIX: `BEA_HOME/weblogic81/samples/domains/integration`

If you have not already done so, use the Configuration Wizard to create the domain using the Integration domain template.

To learn more about the Configuration Wizard, see the *Configuration Wizard Template Reference* at the following URL:

<http://edocs.bea.com/platform/docs81/confgwiz/index.html>

## Step 3. Extract the Adapter Files

This section explains how to extract the BEA WebLogic Adapter for Manugistics files.

Use the procedure appropriate for your system:

- [Extracting Files for Windows](#)
- [Extracting Files for UNIX](#)

### Extracting Files for Windows

To extract the BEA WebLogic Adapter for Manugistics files:

1. Use WinZip (or another similar extracting product) to extract the `BEA_MGISTICS_8_1.ear` file to a directory of your choice (for example, `BEA_HOME\adapters\manugistics`).

### Extracting Files for UNIX

To extract the BEA WebLogic Adapter for Manugistics files:

1. Use `jar` (or another similar extracting product) to extract `BEA_MGISTICS_8_1.ear` to a directory of your choice (for example, `BEA_HOME/adapters/manugistics`).

## Step 4. Update the BEA License

In order to use the BEA WebLogic Adapter for Manugistics you must have a valid software license. If you have downloaded the adapter for evaluation, see the instructions on the adapter download page to obtain an evaluation license. If you have purchased a license for the adapter, you should receive the license file as an e-mail attachment. Once you have the license file for the adapter, you must update your `license.bea` file to include the new information for the adapter.

To update your `license.bea` file:

1. Save the adapter license file in the `BEA_HOME` directory. To avoid overwriting your `license.bea` file, use a name other than `license.bea`. For example, save the file as `manugistics_adapter_license.bea`. The adapter license file is the *license\_update\_file* referred to in step 4 of this procedure.

**Warning:** Do not overwrite or change the name of the existing `license.bea` file.

2. Go to the `BEA_HOME` directory:
  - On a Windows system, open an MS-DOS session and go to the `BEA_HOME` directory.
  - On a UNIX system, go to the `BEA_HOME` directory.
3. Add the JDK to your `PATH` variable. If it is already included, skip to step 4.
  - On a Windows system:
 

```
set PATH=BEA_HOME\jdk141_03\bin;%PATH%
```
  - On a UNIX system:
 

```
PATH=BEA_HOME/jdk141_03/bin:$PATH
export PATH
```
4. Merge the adapter license file into your existing license:
  - On a Windows system:
 

```
UpdateLicense license_update_file
```
  - On a UNIX system:
 

```
sh UpdateLicense.sh license_update_file
```

Where *license\_update\_file* is the name of the adapter license file you saved in step 1.

5. Save a backup copy of your updated `license.bea` file. This backup location should be a safe place that is neither the WebLogic Integration nor the application installation directories.

## Step 5. Deploy the Adapter

After you have installed the BEA WebLogic Adapter for Manugistics, you must deploy it to your domain.

To deploy the adapter:

1. Start WebLogic Server in your domain.
2. Start the WebLogic Server Administration Console in a browser using the following URL:

`http://host:port/console/`

Where,

- `host` represents the machine on which WebLogic Server is running
- `port` represents the listening port.

For example, `http://localhost:7001/console/`

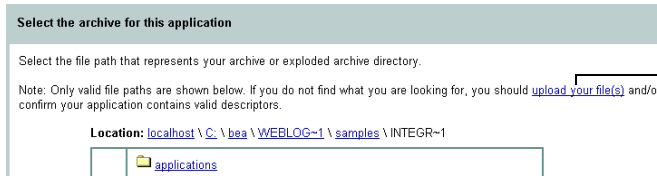
3. Enter the user name and password for the server.

The WebLogic Server Administration Console appears.



4. In the left pane, expand the Deployments node.
5. Under the Deployments node, right-click Applications, and select Deploy a New Application.

This initiates the Deployment Assistant in the right panel.



Click to upload your files

## 6. Click the upload your files(s) link.

The Administration Console displays the Install or Update an Application window.

### Upload and Install an Application or Module

Click the Browse... button below to locate an application or module file on the machine from which you are currently browsing. When you have located the file, click the Upload button to upload and install the application or module on this Administration Server. The following types of files may be uploaded and installed:

- A **.jar** containing EJBs (Enterprise JavaBeans)
- A **.war** (Web Application Archive) containing JSPs and Servlets
- A **.rar** (Resource Adapter Archive) containing a Connector module
- An **.ear** (J2EE Enterprise Application Archive) containing any of the above

**Note:** If you browse for the file, you may have to adjust the file-type filter to 'All' in order to find .jar, .war, .rar and .ear files.



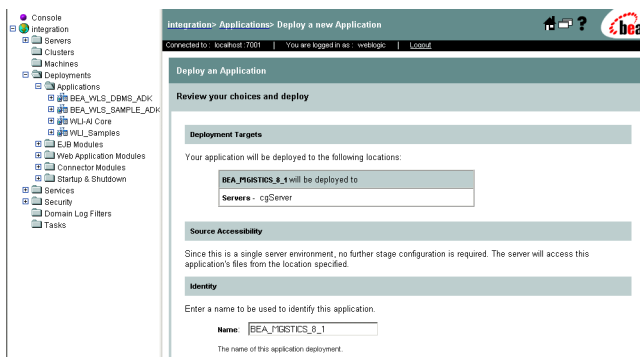
Click to browse to the ear file's location.

## 7. Click Browse, navigate to the directory in which the BEA\_MGISTICS\_8\_1.ear file resides, and then click Upload.

The Administration Console prompts you to confirm the uploaded application.

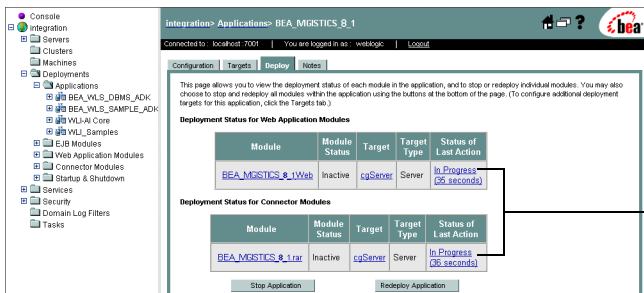
## 8. Click the radio button next to the application file and then click Continue.

The Administration Console uploads the file and displays the Deploy an Application window (specifying the default target server).



## 9. Click Deploy.

The Administration Console deploys the application and displays its deployment status.



When this status is success, you can go to the next step.

## Step 6. Create an Adapter Administrative User

If you want to manage security for the BEA WebLogic Adapter for Manugistics, you can create an administrative user (such as `manugisticsAdapterAdmin`) who is authorized to log in to the Application View Console, create application views, configure services and events, deploy, and test. This adapter administrator also needs to be added to the `Administrators` group.

To create a new adapter administrative user:

1. In the left pane of the WebLogic Server Administration Console, click the Security node.
2. In the left pane, click the Realms node.
3. In the left pane, click the name of the realm for which you want to configure security.
4. In the left pane, click Users.

The Users page appears.

Users are entities that can be authenticated. A user can be a person or software entity, such as a Java client. Each user is given a unique identity within a security realm. BEA recommends assigning users to groups for two reasons: it makes the WebLogic Security Service perform better, and makes it more efficient for administrators who work with large numbers of users.

This Users page displays key information about each user that has been configured in this security realm.

[Configure a new User...](#)

Click to configure a new user.

Filter By:

User	Description	Provider	
<a href="#">weblogic</a>	weblogic	DefaultAuthenticator	
<a href="#">installadministrator</a>	installadministrator	DefaultAuthenticator	

5. Click the Configure a New User link.

The Create User page appears.



This page allows you to define a user in this security realm.

**Name:**   
 The login name for this user.

**Description:**   
 A short description of this user. For example, the user's full name.

**Password:**   
**Confirm Password:**   
 The password associated with the login name for this user.

Enter the user information.

6. Enter the user name, description and password, and then click Apply.

The User page appears.

[Configure a new User...](#)

This page allows you to define a user in this security realm.

**Name:** MyAdapterAdmin  
 The login name for this user.

**Description:**   
 A short description of this user. For example, the user's full name.

**Password:** [Change...](#)

Enter a description for this user.

Click to change the password.

7. In the left pane, right-click the Groups node, select Open and confirm that the user you created appears in the list of users.

The Groups page appears.

[Configure a new User...](#)

This page allows you to select the groups to which this user belongs.

**Group Membership:**

Possible Groups	Current Groups
Administrators	
Deployers	
Monitors	
Operators	

Select a group for the user.

8. In the Possible Groups list, select Administrators and then click the right arrow to add the Administrators group to the list of current groups.
9. Click Apply.
10. In the left pane, click the Users node and confirm that the user you created appears in the list of users.

## Next Steps

After you have finished installing the BEA WebLogic Adapter for Manugistics, you can proceed to the following tasks:

- [Configuring the Transportation Database](#)
- [Starting Integration with Manugistics](#)

## Configuring the Transportation Database

If you intend to use the Manugistics Transportation module, you must configure the transportation database. To learn more about this configuration, see [Configuring the Transport Database](#).

## Starting Integration with Manugistics

After you have successfully installed and deployed the BEA WebLogic Adapter for Manugistics and the BEA Application Explorer, you can begin integrating with your Manugistics system using the adapter and BEA WebLogic Integration. To learn more about integrating with Manugistics, see the *BEA WebLogic Adapter for Manugistics User Guide* at the following URL:

<http://edocs.bea.com/wlapters/manugistics/docs811/pdf/user.pdf>

# Configuring the Transport Database

This chapter applies only if you intend to use the Manugistics Transportation module. It includes the following sections:

- [Creating the Transportation Tables](#)
- [Populating the Transportation Database](#)

## Creating the Transportation Tables

If you are using the adapter for the Manugistics Transportation module, you must run the `manu_trns_xml_tables.sql` script to create objects in the Transportation database. After you create the objects, you must load the data into the database.

**Note:** The `manu_trns_xml_tables.sql` file contains DDL that creates new tables in your Oracle Transportation database. These tables contain small quantities of data. Your Oracle DBA should review the DDL to ensure that it meets your site standards for space allocation. The largest of these tables, `IWY_XML_FIELD`, has about six thousand rows.

To create the transportation database:

1. In the `BEA_MGISTICS_8_1.ear` file, locate the file for your operating system:

**Table 2-1 Manifest Files**

Operating System	File Name
------------------	-----------

**Table 2-1 Manifest Files**

Windows	BEA_MGISTICS_8_1.manifest.zip
UNIX	BEA_MGISTICS_8_1.manifest.tar

2. Extract the necessary files:

On Windows: Using WinZip or a similar extracting utility, extract the `manu_trns_xml_tables.sql` file from the `BEA_MGISTICS_8_1.manifest.zip` file to the DBS directory on your Oracle installation (for example, `orahome\dbs`).

On UNIX: Issue the following command:

```
tar -xvf BEA_MGISTICS_8_1.manifest.tar
```

**Note:** This UNIX command extracts all the files. Be sure to move the `manu_trns_xml_tables.sql` file into the `orahome/dbs` directory.

Here, `orahome` is the base installation directory for your Oracle installation.

3. Open SQL\*Plus, a standard Oracle utility and log in to the Transportation database. Use the login name and password created at the time your Manugistics Transport was installed.
4. To run the script, type `@manu_trns_xml_tables` at command prompt.
5. Enter the owner of your Transportation tables at the prompt.

**Note:** You might get some error messages the first time you run this script. These can safely be ignored.

## Populating the Transportation Database

Once you have created the transportation database, you must populate it.

To populate the transportation database:

1. Extract these additional files from `BEA_MGISTICS_8_1.manifest.zip` (Windows) or `BEA_MGISTICS_8_1.manifest.tar` (UNIX):
  - `manu_trns_load.bat` (Windows) or `manu_trns_load.sh` (UNIX)
  - `manu_trns_load_field.ctl`
  - `manu_trns_load_field.dat`
  - `manu_trns_load_generic01.sql`

- manu\_trns\_load\_intf.c.ctl
- manu\_trns\_load\_intf.dat
- manu\_trns\_load\_rec.ctl
- manu\_trns\_load\_rec.dat
- manu\_trns\_load\_rec\_hier.ctl
- manu\_trns\_load\_rec\_hier.dat

**Note:** WinZip creates the \manu\_trns\_load subdirectory automatically when you extract the files listed. For example, if you extract the files listed into bea\_home\adapters\mgistics, the files are placed in bea\_home\adapters\mgistics\manu\_trns\_load.

For UNIX, after you extract the file, issue the following command:

```
tar -xvf BEA_MGISTICS_8_1.manifest.tar
```

**Note:** This creates a manu\_trns\_load subdirectory within the directory to which the files were extracted. For example, if you extract the files listed into bea\_home/adapters/mgistics, the files are placed in bea\_home/adapters/mgistics/manu\_trns\_load.

A second directory, manu\_schema, is also created. For more information on the files placed in this directory, see “Extracting the Schema-Generation Utilities” in the *BEA WebLogic Adapter for Manugistics User Guide*.

2. Open the manu\_trns\_load.bat (Windows) or manu\_trns\_load.sh (UNIX) file with an ASCII editor.
3. Edit the following statements by replacing the placeholder values as follows:

**Table 2-2 Table of Parameters for manu\_trns\_load.bat File**

Statement	Replace	With
OR_ID=<my-Oracle-ID>	<my-Oracle-ID>	User ID to access the Oracle database.
OR_PW=<my-Oracle-password>	<my-Oracle-passwo rd>	Password for the user ID.
WHEREISDB=<my-Oracle_SID>	<my-Oracle_SID>	Oracle SID of your Transportation database.

Statement	Replace	With
MANU_DIR=<my-Manu-Trns-data-directory>	<my-Manu-Trns-data-directory>	Directory to which you extracted the files listed above.
SCHEMA_OWNER=<my-Schema_owner>	<my-Schema_owner>	Owner of the Transportation application tables

4. Open a command prompt.
5. Navigate to the directory in which you extracted the files (for example, on Windows `bea_home\adapters\mgistics\manu_trns_load`).
6. For Windows, enter the command `manu_trns_load`.  
For UNIX, enter the command `./manu_trns_load.sh`

**Note:** You might have to change UNIX permissions to make the script executable.

In a Windows environment, messages such as the following should appear:

#### Listing 2-1 Sample Output for `manu_trns_load` Command

```
C:\bea8\adapters\Mgistics\manu_trns_load> manu_trns_load
SQL*Loader: Release 8.1.7.0.0 - Production on Wed Oct 8 18:21:21 2003
(c) Copyright 2000 Oracle Corporation. All rights reserved.
Commit point reached - logical record count 8
SQL*Loader: Release 8.1.7.0.0 - Production on Wed Oct 8 18:21:23 2003
(c) Copyright 2000 Oracle Corporation. All rights reserved.
Commit point reached - logical record count 26
SQL*Loader: Release 8.1.7.0.0 - Production on Wed Oct 8 18:21:23 2003
(c) Copyright 2000 Oracle Corporation. All rights reserved.
Commit point reached - logical record count 49
SQL*Loader: Release 8.1.7.0.0 - Production on Wed Oct 8 18:21:23 2003
(c) Copyright 2000 Oracle Corporation. All rights reserved.
Commit point reached - logical record count 64
Commit point reached - logical record count 128
Commit point reached - logical record count 192
Commit point reached - logical record count 256
Commit point reached - logical record count 320
```

```

Commit point reached - logical record count 384
Commit point reached - logical record count 448
Commit point reached - logical record count 512
Commit point reached - logical record count 569
old  1: delete from &&owner..IWY_XML_INTFC
new  1: delete from TRANSMGR.IWY_XML_INTFC
0 rows deleted.
old  1: insert into &&owner..IWY_XML_INTFC
new  1: insert into TRANSMGR.IWY_XML_INTFC
old 12: where owner = '&&owner'
new 12: where owner = 'TRANSMGR'
333 rows created.
old  1: delete from &&owner..IWY_XML_REC
new  1: delete from TRANSMGR.IWY_XML_REC
0 rows deleted.
old  1: insert into &&owner..IWY_XML_REC
new  1: insert into TRANSMGR.IWY_XML_REC
old 12: where owner = '&&owner'
new 12: where owner = 'TRANSMGR'
333 rows created.
old  1: delete from &&owner..IWY_XML_REC_HIER
new  1: delete from TRANSMGR.IWY_XML_REC_HIER
0 rows deleted.
old  1: insert into &&owner..IWY_XML_REC_HIER
new  1: insert into TRANSMGR.IWY_XML_REC_HIER
old 22: where owner = '&&owner'
new 22: where owner = 'TRANSMGR'
333 rows created.
old  1: delete from &&owner..IWY_XML_FIELD
new  1: delete from TRANSMGR.IWY_XML_FIELD
0 rows deleted.
old  1: insert into &&owner..IWY_XML_FIELD
new  1: insert into TRANSMGR.IWY_XML_FIELD
old 53:  and t1.OWNER      = '&&owner'
new 53:  and t1.OWNER      = 'TRANSMGR'
4093 rows created.
Commit complete.
C:\bea8\adapters\Mgistics\manu_trns_load>

```

---

Log files are created in the same directory if errors occur. You can review the log file and correct any errors.



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