

JD Edwards World

Notifications Guide

Release A9.3

E28504-02

April 2013

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Preface

Welcome to the JD Edwards Notifications User Guide.

Audience

This document is intended for implementers and end users of the JD Edwards World A9.3 Transaction Server.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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Related Documents

You can access related documents from the JD Edwards World Release Documentation Overview pages on My Oracle Support. Access the main documentation overview page by searching for the document ID, which is 1362397.1, or by using this link:

- <https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1362397.1>

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Overview to Notifications

This chapter contains these topics:

- [Section 1.1, "Overview to Notifications,"](#)
- [Section 1.2, "Sample Use Case,"](#)
- [Section 1.3, "References."](#)

1.1 Overview to Notifications

The Notifications User Guide includes the following topics for the JD Edwards World A9.3 Transaction Server:

- Overview
- Pre-Notification Setup
- Notifications Setup
- Approvals for Notifications
- Transformation Template Setup
- Testing the Sample Use Case

JD Edwards World A9.3 Transaction Server, hereafter, is referred to in this document as Transaction Server. This Java-based program is a modified version of the JD Edwards EnterpriseOne Transaction Server.

The Transaction Server transfers business transactions from JD Edwards World to other systems using the Java Message Service (JMS) API.

The JD Edwards World A9.3 Notifications enhancement uses Approvals Management, Export, and Electronic Document Delivery (EDD) to create an eXtensible Markup Language (XML) representation of a business transaction called a notification Real-Time Event (RTE). After creating the RTE, Notifications processing places it on an Event Transfer table as a new event record.

New event records on the Event Transfer table are read by the Transaction Server, which creates JMS messages from the event record and writes them to one or more JMS queues or topics, based on the subscriptions defined for each type of business transaction.

This guide provides an overview of how to interact with the various parts of the Transaction Server.

Notification services to capture transactional events from JD Edwards World consist of several different parts. A business transaction event is defined using the World Approvals rules structure. Once an event is created, the transaction information is

loaded as an XML payload into an Event Transfer table. When the payload is added to an event record, the Transaction Server selects the Events that are ready to be processed. Once an Event is read by the Transaction Server, it is transformed into a Java Messaging Service (JMS) message and then submitted to the appropriate subscription queue or topic.

The starting point for each Event is a World RPG application where a business transaction is created. The Approvals rules structure is used in conjunction with application defined transaction boundaries to determine when a transaction is complete (and approved, if applicable) and an Event is created. Multiple Events can be created from a single transaction depending on the Approval rules set up.

The payload XML data is created using the World Export application. Export is based on World Writers to collect the data and create an XML message. The data can be pre-staged into a temporary work file using an application-specific extract program.

The Transaction Server uses the XML payload to populate a Java Messaging Service (JMS) message. The JMS message can then be published to the appropriate subscriber JMS queue or JMS topic so that listening applications, such as an Enterprise Service Bus, can access it. JMS queues use a point-to-point protocol where there is usually one sender and one receiver, both using the same queue to transfer information. JMS topics use a publish-subscribe model, where many publishers can publish to a topic and many subscribers can subscribe.

Double-Byte Note: This initial release of JD Edwards World A9.3 Transaction Server is supported on single-byte only.

1.2 Sample Use Case

To enable you to have a clearer picture of how a real time event might be set up and used, a simple use case was added throughout the documentation. The sample set up creates a real-time transaction event when an employee is added to the Address Book in a World environment. An XML document is published to a JMS Queue set up on the Oracle Application Server.

1.3 References

The following guides must be used as references when working with this document:

- Transaction Server Installation
- A9.1 Technical Foundation
- Approvals Management
- Electronic Document Delivery

Part I

World Setup for Transaction Server

This part contains these chapters:

- [Chapter 2, "Pre-Notification Setup,"](#)
- [Chapter 3, "Notification Setup,"](#)
- [Chapter 4, "Approvals for Notification,"](#)
- [Chapter 5, "Transformation Templates Setup,"](#)
- [Chapter 6, "Test the Sample Use Case."](#)

Pre-Notification Setup

This chapter contains these topics:

- [Section 2.1, "World Writer Setup,"](#)
- [Section 2.2, "XSL Transformation Setup,"](#)
- [Section 2.3, "Event Type User Defined Code,"](#)
- [Section 2.4, "Code Changes to X00A1213,"](#)
- [Section 2.5, "Creating JMS Resources."](#)

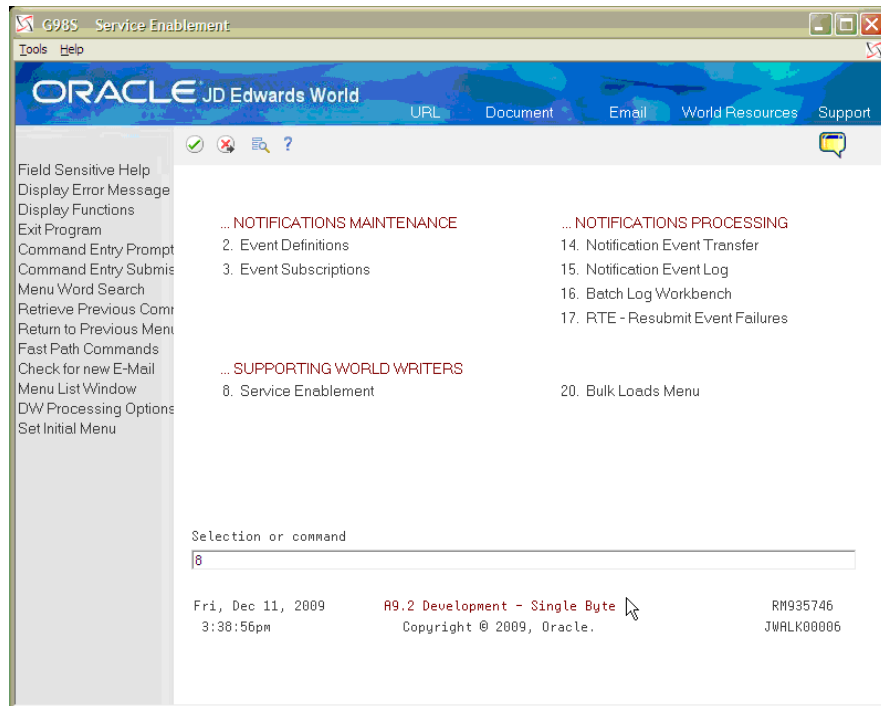
2.1 World Writer Setup

During the Notification process, the system runs the World Writer version that is set up. The World Writer setup is used to select the information and components of the transaction payload (data). The data key for the transaction must be part of the World Writer Selection criteria and must be listed in the correct key order. Also, by using the export parameters for the World Writer, an .xsd conversion file can be supplied that is used to convert the transaction payload into an .xml document if needed.

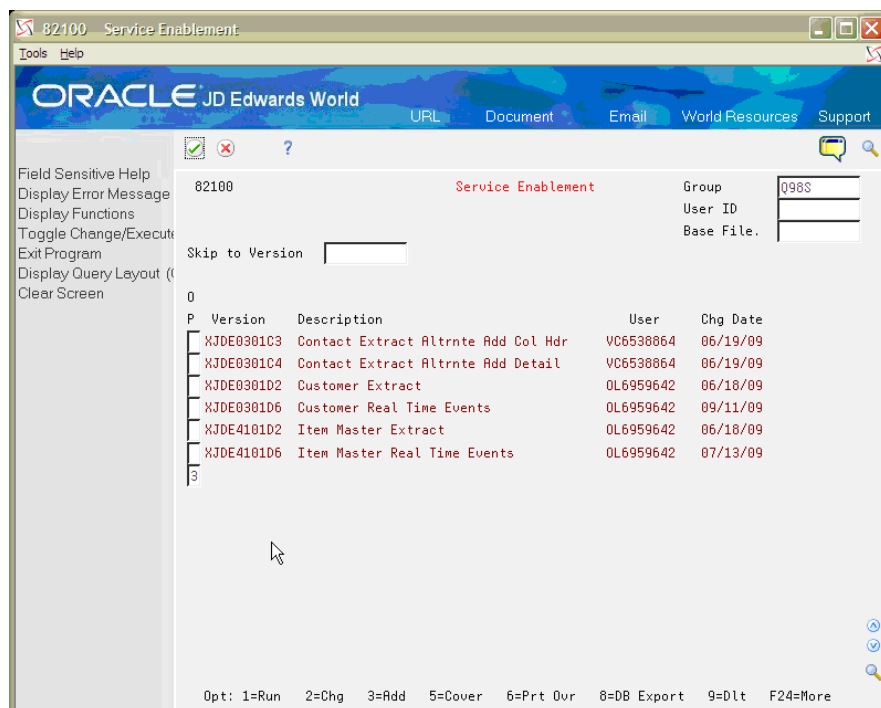
Note: The only reason for doing a conversion is if the receiving application expects an .xml document that is different than what is produced by the World Writer export.

The .xml document is ultimately sent as the payload for the real time event.

1. Sign on to the JD Edwards World A9.3 Environment and select the Service Enablement menu (G98S).

Figure 2–1 Service Enablement screen

2. Select 8, Service Enablement Supporting World Writers. Enter a 3 in the Option field next to a blank line to add a new version.

Figure 2–2 Service Enablement (World Writers) screen

3. From the Query Version Copy screen, enter EMPLOYEEERT for the new version name and Employee Real Time Events for the Version Title. Enter F0101 for the File Name. Press Enter.

Figure 2–3 Version Title & Files screen

82101 - Version Title & Files

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Exit Program
More Details
Print Overrides
Join Criteria
Return to Previous Panel
Clear Screen

82101 Version Title & Files Group Q98S
Version. EMPLOYEE3

Version Title Employee Real Time Events

Report Title Employee Real Time Events

Specify File Selections (The FIRST file is the Primary)

Opt	File Name	Description	Join Specification
<input type="checkbox"/>	F0101		
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

Opt: 9=Dlt F4=Detail F5=Prt Ovr F8=Joins F12=Previous F24=More Keys

- From the Additional Parameters screen, click the check mark button or press Enter.

Figure 2–4 Additional Parameters screen

82109 - Additional Parameters

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Exit Program
Batch Download Param
Return to Previous Panel
Display Report Layout
Clear Screen

82109 Additional Parameters Group Q98S
Version. EMPLOYEE3

User Exclusive (8/1/2/3/4) 3

Print Cover Page (Y/N) Y

Hold on Job Queue (Y/N) N

Batch Job Queue *JOED

Prompt for Data Selections 1

Query Detail (or Totals Only) D

Default Line Spacing 1

Default Column Spacing 1

Maximum Form Width 132

Line Wrap (Y/N) Y

One Line per Page (Y/N) N

Total Level Text in Header 1

Maximum records to query *NOMAX

Print Queue

Output Media P Packed to Zoned

Output File

Output Library

F6=Batch Export Parameters F12=Previous F13=Layout F24=More

- From the Field Selection List screen, enter an X on the Print and Sort By fields for the following Fields in the file:
 - Address Number (ABAN8)

- Tax ID (ABTAX)
- Alpha Name (ABALPH)
- Description - Compressed (ABDC)
- Search Type (ABAT1)

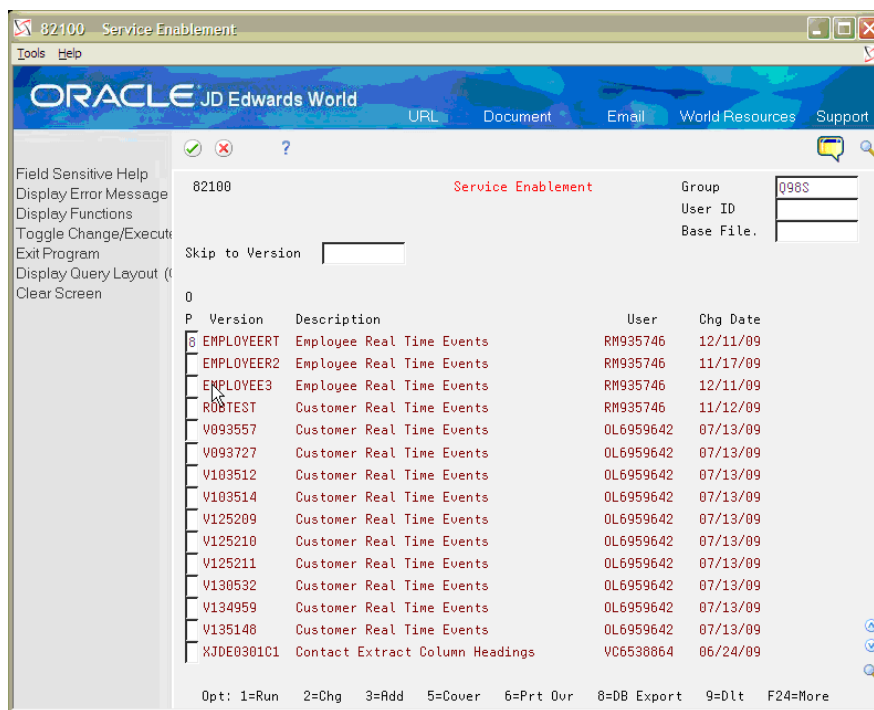
Enter an X on the Select On field for the Address Number. Press Enter and then exit from the Selective Change Prompt screen.

Figure 2–5 Field Selection List screen

Opt	Description	Print	On	By	Sum	Avg	Min	Max	Cnt	Field Name
	Address Number	X	X	X						ABAN8
	Tax ID	X		X						ABTAX
	Alpha Name	X		X						ABALPH
	Description - Compre	X		X						ABDC
	Search Type	X		X						ABAT1
	Description									ABAT101
	Address Book Master									F0101
	Long Address Number.									ABALKY
	Business Unit									ABMCU
	Description									ABMCU01
	Industry Classificat									ABSIC
	Description									ABSIC01
	Language									ABLNGP
	Description									ABLNGP01

Opt: 1=Mark Print, Select & Sort F12=Previous F24=More

- On the Service Enablement World Writer screen, enter an 8 in the Option file next to the newly created EMPLOYEEERT World Writer version to access the Database Export screen.

Figure 2–6 Service Enablement (EMPLOYEEERT) screen

7. From the Database Export Parameters screen, complete the following fields:

Field	Explanation	Sample Use Case Value
Import Export File	Import Export File name is the name to be given to the import or export file on the IFS. This must be a valid Windows file name.	EmployeeRT.xml
IFS Path	The string defining the path to the import/export file on the Integrated File System. For Example: /ImportExport/	/home/EmployeeRT
Replace Records	Tells whether or not to delete and replace or append records to the output file	Y
Header Detail Join Relationship	This option specifies if the joined tables selected for export have a header detail relationship or not.	N
Enabled Y/N	Determines whether the transformation is enabled or not.	Y
Transformation Template	The name of the transformation template that is going to be used to create the .xml file	

Figure 2–7 Database Export Parameters screen

00DBDLP Database Export Parameters

Functions Tools Help

EXPORT

Import Export File

IFS Path

Replace Records ☒ Header Detail Join Relationship ☐

Include Column Headings. ☐

TRANSFORMATION AND/OR DISTRIBUTION

Enabled Y/N ☒ Distribution Profile

Email Template Transformation Template.

F2=Long Names F4=Search IFS Path F3=Exit F6=Continue

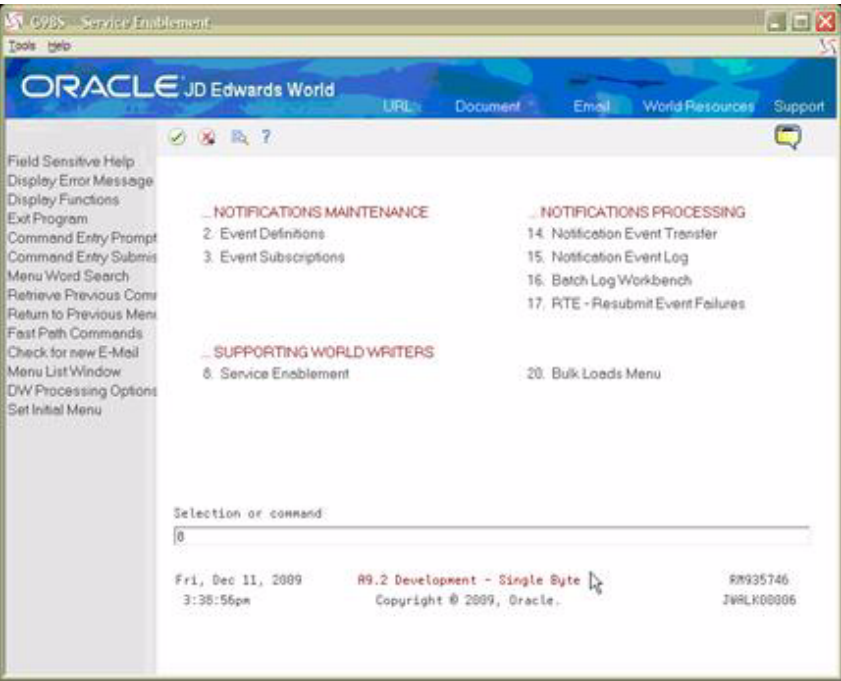
2.2 XSL Transformation Setup

During real time notification processing, data from World tables is gathered through a World Writer report. Using the World Writer export capabilities, the data can be converted into an XML format. When exporting the data through a notification event, typically the World XML format does not conform to what an outside entity is expecting. Using the transformation abilities provided by the World Electronic Document Delivery (EDD) system, the World Writer XML can be converted to an XML file with a different format. To create the pieces that are needed for the transformation process, a separate application is needed to handle the XML related files. An XSL transformation file (.xsl), Extensible Style Sheet, needs to be created to map values from the World generated XML format to the outgoing XML format. Typically, to create an .xsl transformation you need to create a mapping between two XML Schema Definition (.xsd) files. For the World created XML file, the World Writer export functionality can create the .xsd. For the outgoing XML schema, if one is not provided, you can use an XML editor to create the .xsd from a sample .xml file.

For this example, JDeveloper is used to create the XSL transformation file.

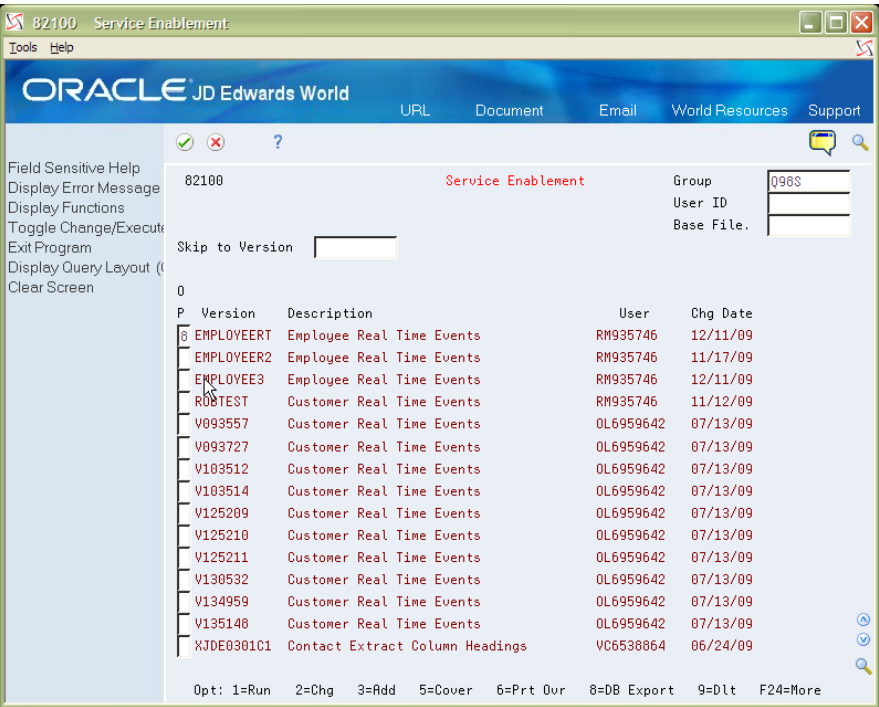
1. Sign on to the JD Edwards World A9.3 Environment and select the Service Enablement menu (G98S).

Figure 2–8 Service Enablement screen



- 2. Select number 8, Service Enablement supporting World Writers. Enter an 8 next to the EMPLOYEEERT version that was created previously to work with the Export parameters.

Figure 2–9 Service Enablement (Export) screen



- 3. From the Database Export Parameters screen, change the Import Export File from EmployeeRT.xml to EmployeeRT.xsd. Then press F6 to continue.

The system creates the XML Schema Definition file for the World generated XML. This file needs to be copied from the IFS directory to the local workstation/PC where the XSL transformation file is created.

Note: Users can create IFS directories with EBCDIC or ASCII CCSIDs. Directories used for XSL transformations using EDD must be set up with an ASCII CCSID. For more information, see Setting up Import/Export in the *JD Edwards World Technical Tools Guide*.

Figure 2–10 Database Export Parameters screen

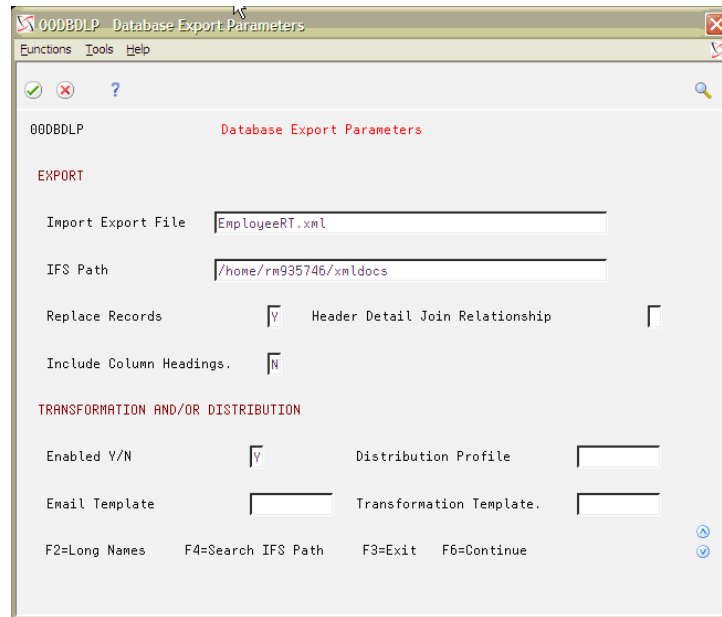
The screenshot shows the '00DBDLP Database Export Parameters' window. The title bar includes 'Functions', 'Tools', and 'Help' menus. The main area is divided into two sections: 'EXPORT' and 'TRANSFORMATION AND/OR DISTRIBUTION'. In the 'EXPORT' section, 'Import Export File' is set to 'EmployeeRT.xsd' and 'IFS Path' is '/home/rm935746/xmldocs'. 'Replace Records' is checked, while 'Header Detail Join Relationship' and 'Include Column Headings' are unchecked. The 'TRANSFORMATION AND/OR DISTRIBUTION' section shows 'Enabled Y/N' checked, with empty fields for 'Distribution Profile', 'Email Template', and 'Transformation Template'. At the bottom, function key shortcuts are listed: F2=Long Names, F4=Search IFS Path, F3=Exit, and F6=Continue.

EXPORT	
Import Export File	EmployeeRT.xsd
IFS Path	/home/rm935746/xmldocs
Replace Records	<input checked="" type="checkbox"/>
Header Detail Join Relationship	<input type="checkbox"/>
Include Column Headings	<input type="checkbox"/>

TRANSFORMATION AND/OR DISTRIBUTION	
Enabled Y/N	<input checked="" type="checkbox"/>
Distribution Profile	
Email Template	
Transformation Template	

F2=Long Names F4=Search IFS Path F3=Exit F6=Continue

4. Enter an 8 again next to the EMPLOYEEERT version. From the Database Export Parameters screen, change the Import Export File back to EmployeeRT.xml. Press Enter and then press F3 to exit.

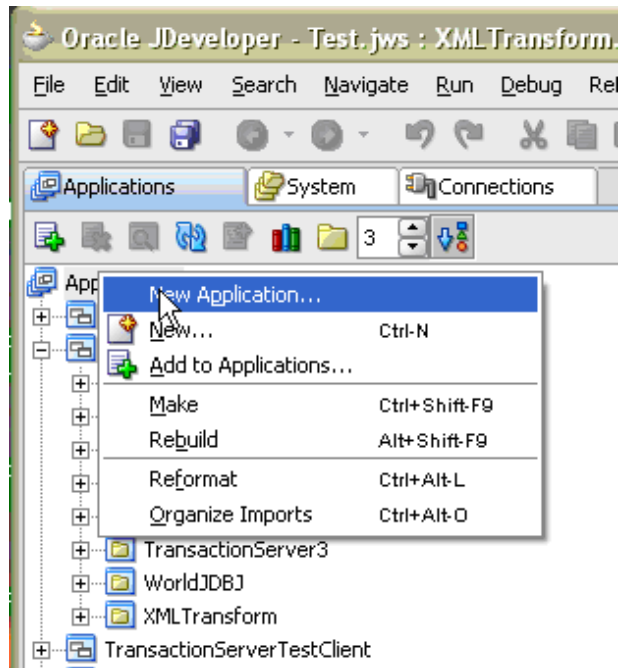
Figure 2–11 Database Export Parameters (EmployeeRT.xml) screen

5. A Target schema is needed for the notification. If you do not have a target schema or xml already, you need to create the target schema or xml.

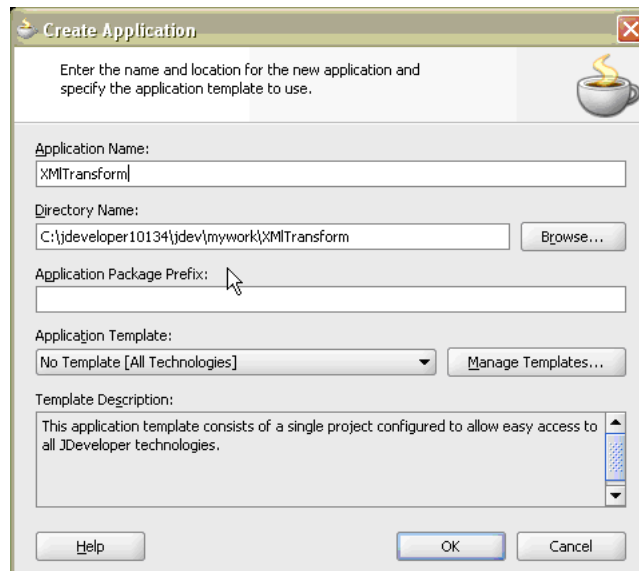
The following schema was created for the Sample Use Case and can be copied and saved as a .xsd to add to the project for use when creating the .xsl mapping file, which is done in the next steps.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="Employee">
    <xs:complexType>
      <xs:sequence maxOccurs="unbounded" minOccurs="0">
        <xs:element name="EmployeeInfo">
          <xs:complexType>
            <xs:sequence maxOccurs="unbounded" minOccurs="0">
              <xs:element name="EmployeeName" type="xs:string"
maxOccurs="unbounded" minOccurs="0"/>
              <xs:element name="EmployeeID" type="xs:string"
maxOccurs="unbounded" minOccurs="0"/>
              <xs:element name="EmployeeSocial" type="xs:string"
maxOccurs="unbounded" minOccurs="0"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
</xs:sequence>
```

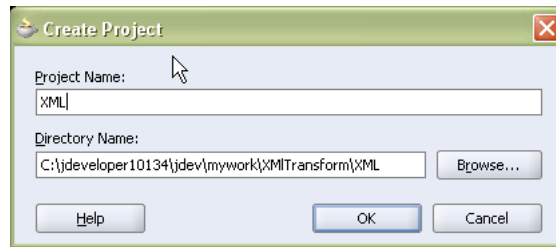
6. From a local workstation/PC, open JDeveloper 10.1.3.4. In the Application tab (typically in the left hand column), right-click on Applications and select New Application.

Figure 2-12 JDeveloper - New Application screen

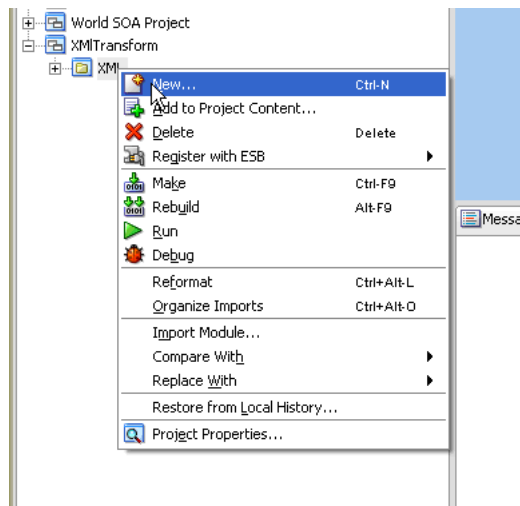
7. From the Create Application screen, enter an Application Name and then click OK.

Figure 2-13 Create Application screen

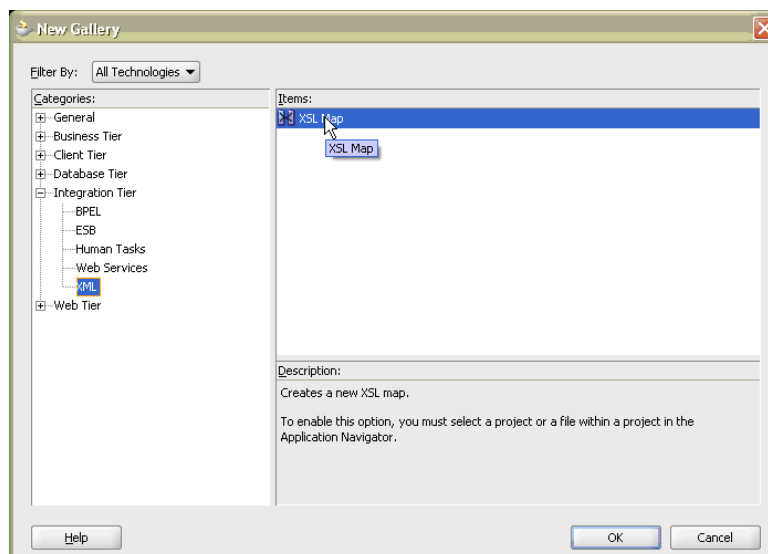
8. From the Create Project screen, enter the project name and then click OK.

Figure 2–14 Create Project screen

9. From the main JDeveloper screen, right-click the newly created project and select New.

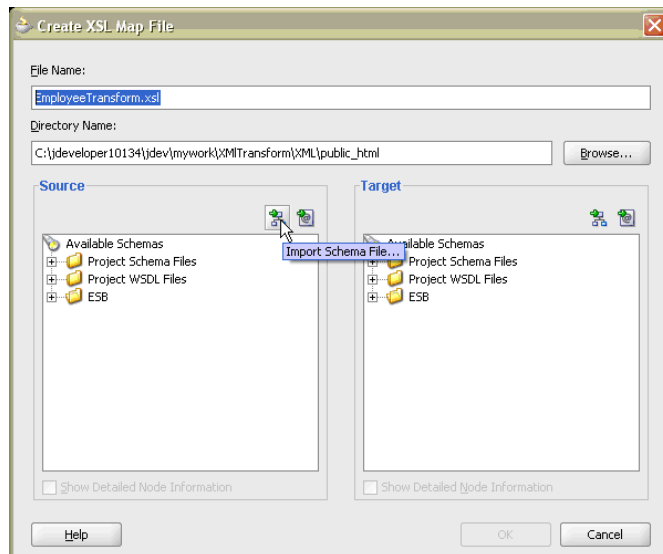
Figure 2–15 JDeveloper (New) screen

10. From the New Gallery screen, open the Integration Tier menu and select XML. Select the XSL Map under Items and then click OK.

Figure 2–16 New Gallery screen

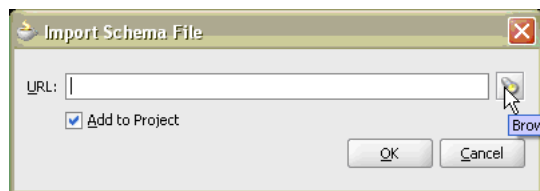
11. From the Create XSL Map File screen, enter the .xsl file name. Under the Source frame, click the Import Schema File button.

Figure 2-17 Create XSL Map File screen



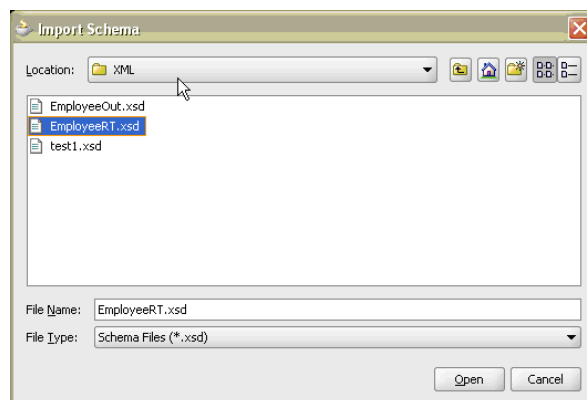
12. From the Import Schema File screen, click the Browse flashlight button to browse the file directory.

Figure 2-18 Import Schema File screen

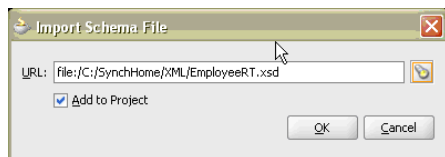


13. From the Import Schema screen, select the .xsd file that was created in World and copied to the local machine. Select Open.

Figure 2-19 Import Schema (.xsd) screen



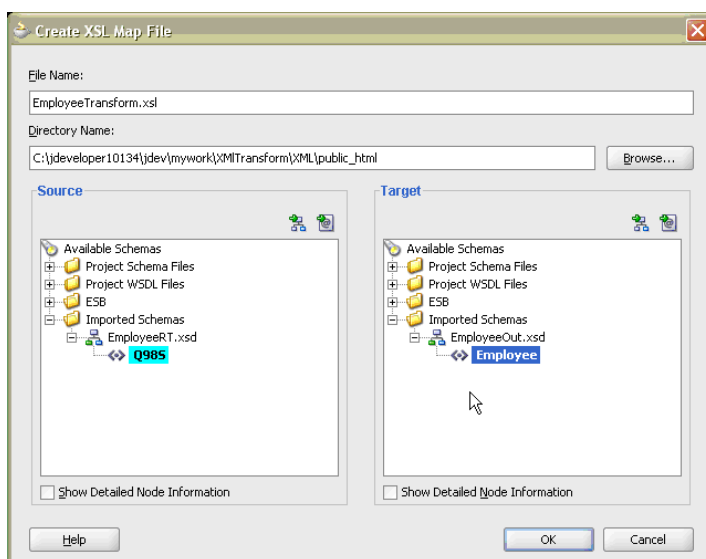
14. From the Import Schema File screen, check the Add to Project box. Click OK.

Figure 2–20 Import Schema File (Add to Project) screen

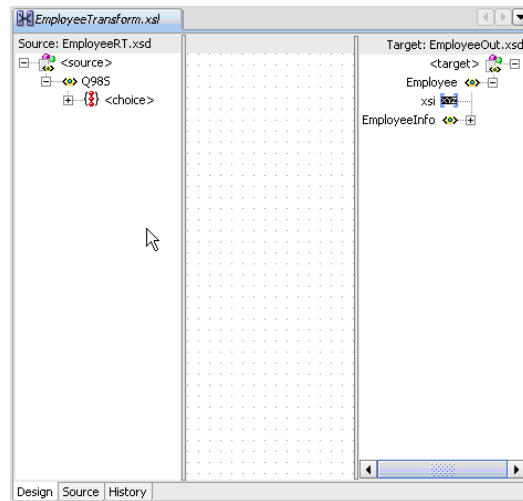
15. Repeat steps 11-14 for the Target schema.

If the target schema is already a part of the project, you can select it from the Project Schema Files under the Available Schemas in the Target frame.

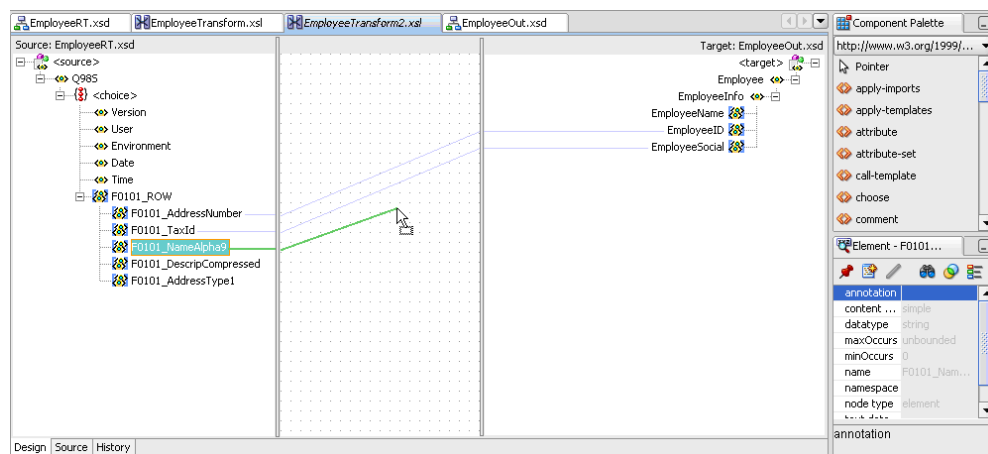
16. After the schemas are loaded, from the Create XSL Map File screen, open the schema nodes by selecting the + sign next to each schema. Click each of the nodes and then click OK.

Figure 2–21 Create XSL Map File (Nodes) screen

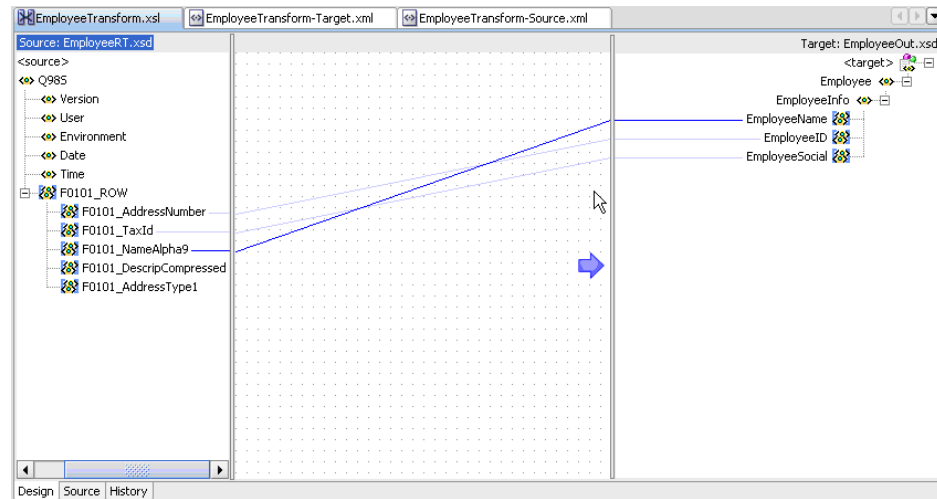
17. From the main JDeveloper screen, the .xsl mapping screen displays in the development frame. Right-click the Source and then select Expand All. Right-click the Target and select Expand All. This allows you to see all the detailed nodes.

Figure 2-22 JDeveloper (.xsl Mapping) screen

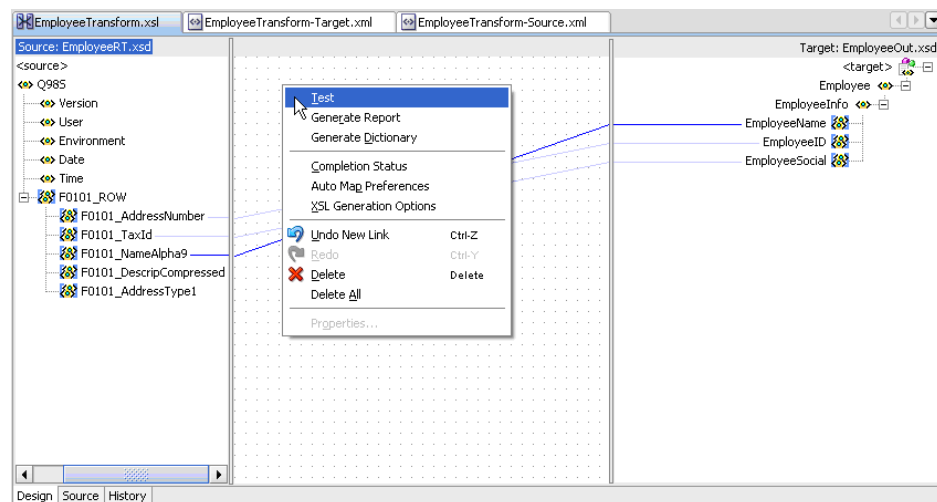
18. Left-click the detail elements from the Source schema and, while holding the button down, move the line over to the detail element from the Target schema. Repeat step 18 for all the detail elements that need to be mapped.

Figure 2-23 JDeveloper (.xsl Mapping, Detail) screen

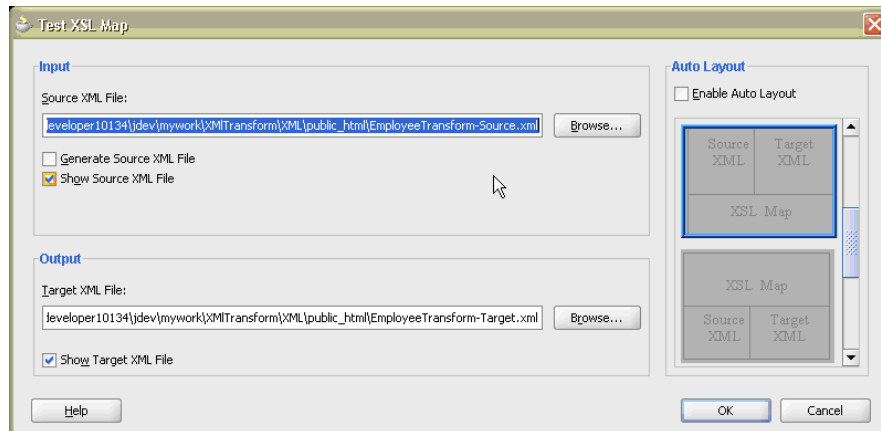
19. After the mapping is complete, it must look something similar to the following graphic. Make sure to save the .xsl.

Figure 2–24 JDeveloper (.xsl Mapping Complete) screen

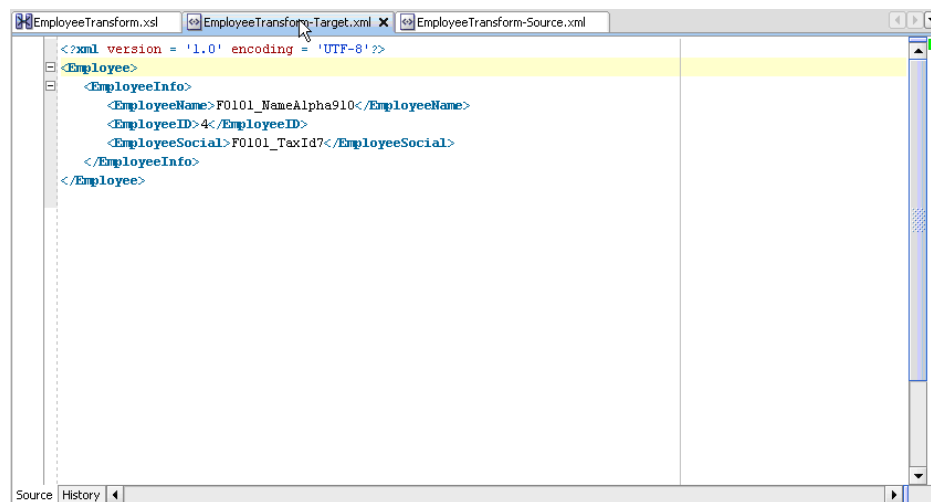
20. Right-click the mapping development frame and then select Test.

Figure 2–25 JDeveloper (Test) screen

21. From the Test XSL Map screen, accept the defaults and then click OK.

Figure 2–26 Test XSL Map screen

22. Once the Test is run, you see the Source and Target .xml files displayed in the main JDeveloper screen.

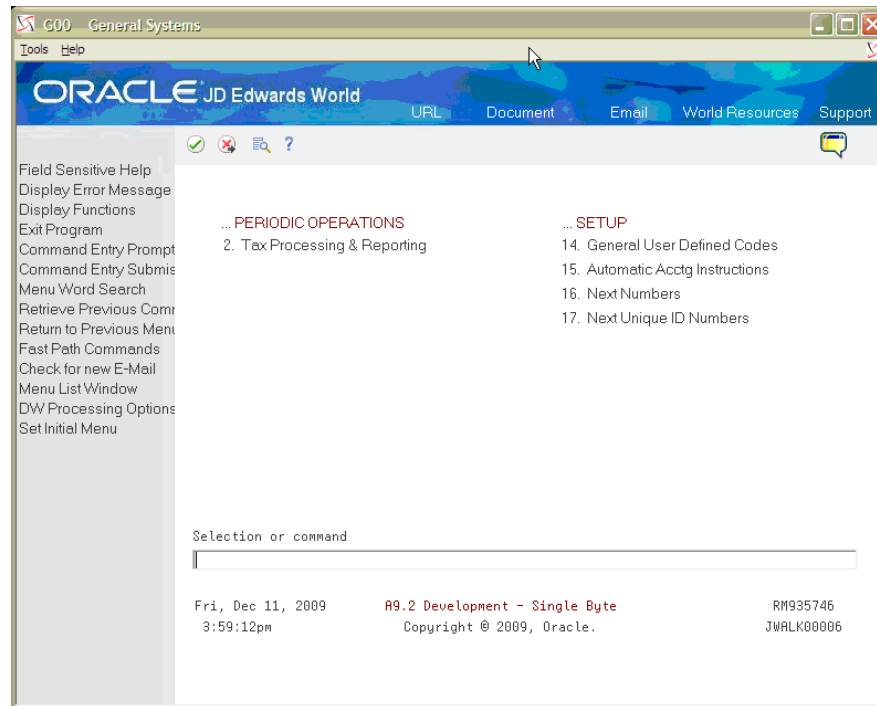
Figure 2–27 JDeveloper (Source and Target .xml) screen

23. Copy the .xsl file that was created to the IFS directory where the source EmployeeRT.xsd is located.

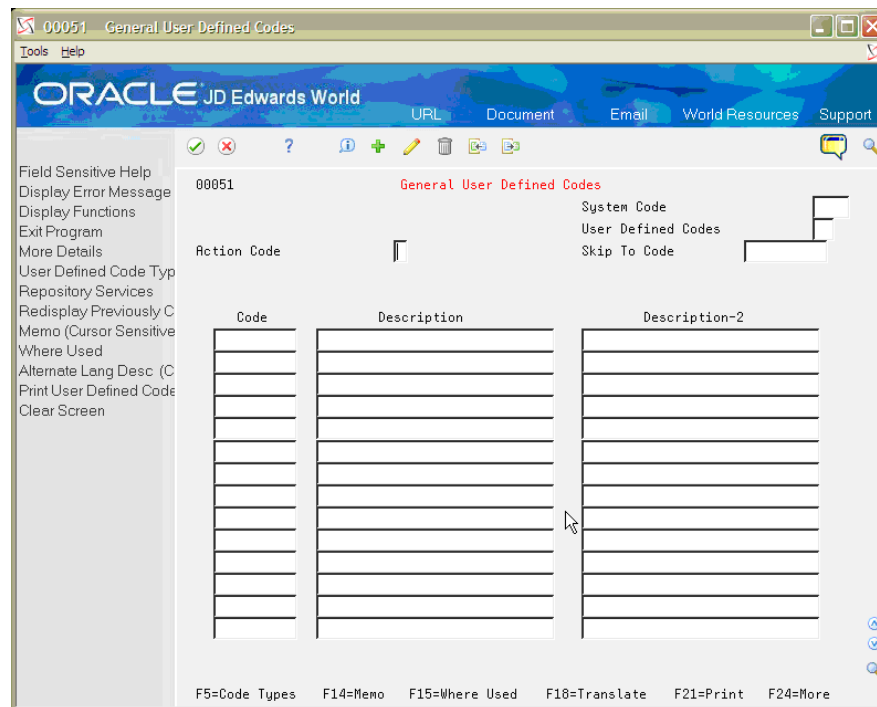
2.3 Event Type User Defined Code

An Event Type UDC value needs to be set up for the specific Real Time Event that is going to be processed.

1. Sign on to the JD Edwards World A9.3 Environment and select the General Systems menu (G00).

Figure 2–28 General Systems screen

2. Select Option 14 for General User Defined Codes.

Figure 2–29 General User Defined Codes screen

3. Inquire on System Code 98S, User Defined Code ET. Add a new Event Type User Defined Code record for the new event type. For the Sample Use Case, the Event Type entered is EMP1, Employee Real Time Event.

Field	Explanation	Sample Use Case Value
Code	Name of the Event Type.	EMP1
Description	The Description of the Event Type.	Employee Real Time Event

Figure 2–30 General User Defined Codes (New Event Type) screen

00051 General User Defined Codes

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Exit Program
More Details
User Defined Code Type
Repository Services
Redisplay Previously C
Memo (Cursor Sensitive
Where Used
Alternate Lang Desc (C
Print User Defined Code
Clear Screen

00051 General User Defined Codes

Action Code

System Code 98S
User Defined Codes ET
Skip To Code
Event Type

05 Character

Code	Description
CCNTB	Customer Contact Batch Extract
CSTAR	Customer RTE (Alt Address)
CSTER	Customer RTE (Email)
CSTHR	Customer RTE (Header)
CSTPN	Customer RTE (Phone)
CUST	Customer Real Time Event
CUSTB	Customer Batch Extract
EMP1	Employee Real Time Event
ITEM	Item Real Time Event
ITEMB	Item Master Batch Extract
RTE	Real Time Event

F5=Code Types F14=Memo F15=Where Used F18=Translate F21=Print F24=More

2.4 Code Changes to X00A1213

You need to make RPG code changes to the X00A1213 to handle the new Event Type created. This procedure helps you make the code changes.

1. Sign on to JD Edwards World A9.3 Environment and add the following code changes in a custom directory:

```

0129.00 D CUST_PI_RTE      C              'NTY_000005'
0130.00 D CUST_EI_RTE      C              'NTY_000006'
0131.00 D CUST_AI_RTE      C              'NTY_000007'
0132.00 D EMPL_AA_RTE      C              'EMP_RTE'  INSERT
0133.00 D*
0134.00 D @OV              S              1      DIM(15)
0135.00 D @NV              S              1      DIM(15)
0136.00 D*
0137.00 D KY0101           DS
0138.00 D KY0101EVT        5a
0265.00 C                  When          PSKY = CUST_EI_RTE
0266.00 C                  Exsr          SCustEmlAdd
0267.00 C                  When          PSKY = CUST_AI_RTE
0268.00 C                  Exsr          SCustAltAddAdd
0269.00 C                  When          PSKY = ITEM_RTE
0270.00 C                  Exsr          SItem
0270.01 C                  When          PSKY = EMPL_AA_RTE
0270.02 C                  Exsr          SEmployee
0271.00 C                  Other

```

```

0272.00 C          Move      *Blanks      ETEVDK
0273.00 C          Ends1
0274.00
0275.00 C          Endif
1854.00 C          Enddo
1855.00 C*
1856.00 C          Movea     @NV           ScrubedValue
1857.00 C*
1858.00 C          Ends
1859.00 *****
1860.00
1861.00 *      SUBROUTINE SEmployee - Build Employee notify message.
1862.00 *      -----
1863.00
1864.00 C      SEmployee      Begsr
1865.00 *      -----
1866.00 *
1867.00 *      Set event key equal to the transaction key. In this case the trans
1868.00 *      key will be equal to the Address Book ABAN8
1869.00 *
1870.00 C          Exsr      SCrtEvtSeq
1871.00
1872.00 C          Movel     TTTRKY          ETEVDK
1873.00 C          Clear
1874.00 C          Movel     EDEVT          KY0101EVT
1875.00 C          Movel     TTTRKY          KY0101AN8
1876.00 C          EVAL     RecCount = 0
1877.00 C          Eval     ChgTyp = *Blanks
1878.00 C*
1893.00 C/Exec Sql
1894.00 C+ Select Count(BDTCHT) Into :RecCount
1895.00 C+ From F00ACB
1896.00 C+ Where BDTANM = :TTTANM
1897.00 C+ And BDAFLE = 'F0101'
1898.00 C+ And BDTRKY = :TTTRKY
1899.00 C+ And BDTCHT = 'A'
1900.00 C/End-Exec
1901.00 C
1902.00 C          If      SqlCode = C_SqlOk
1903.00 C          And RecCount > 0
1904.00 C          Eval     KY0101ACTN = '1'
1905.00 C          Endif
1910.00 *
1911.00 C*          Movel(p)  KY0101          ETEVDK
1912.00 C          Movel(p)  KY0101          PSEVDK
1913.00 C          Exsr      SInsert
1914.00
1915.00 *      Call the Event Transfer Service program
1916.00
1917.00 C          Clear
1918.00 C          Command
1919.00 C          Move      *All'0'          PSEVSQA
1920.00 C          Move      PSNBR            PSEVSQA
1921.00 C
1922.00 C          EVAL     Command = 'SBMJOB CMD(CALL PGM(JX98S710)
' +
1923.00 C          'PARM(' + ' ' + PSEVSQA + ' '
+
1924.00 C          ' ' + ' ' + PSEVDK + ' ' +
1925.00 C          ' ' + ' ' + '1' + ' ' + ' ' +

```

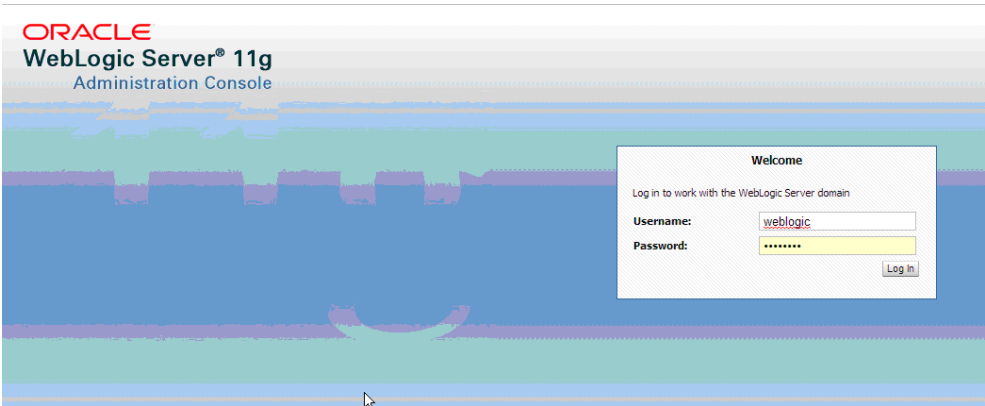
2. Once the changes are made, save the program and compile. Add the custom library list to your environment.

2.5 Creating JMS Resources

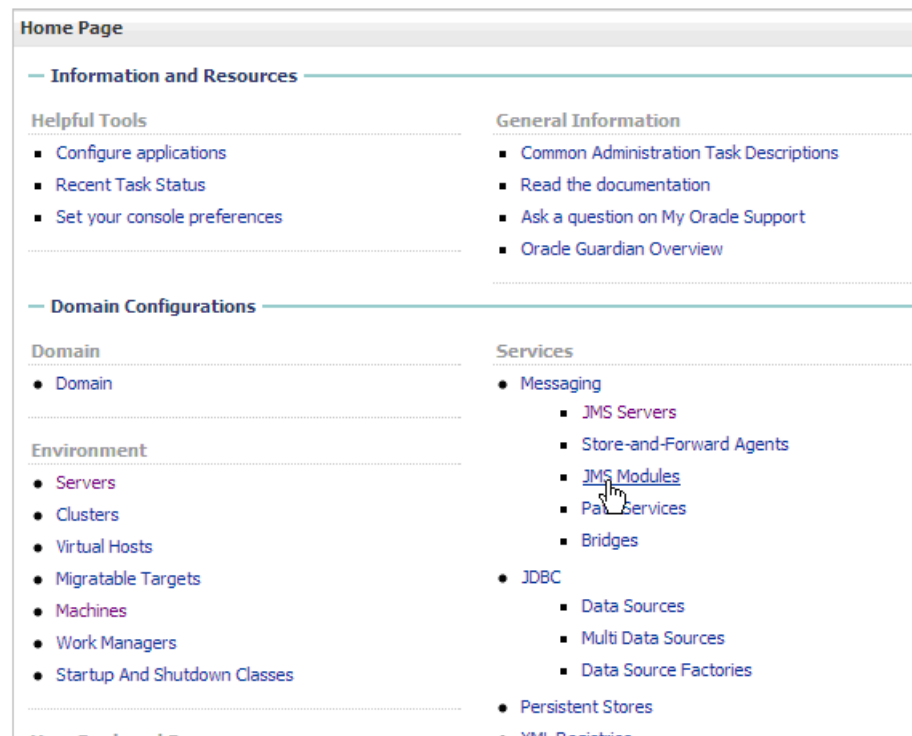
To receive the outbound notification JMS message from World, create a JMS Topic or Queue and a corresponding connection factory. For the Sample Use Case, a JMS Queue is created on the same Oracle WebLogic Application Server that the World Transaction Server is installed on.

1. Log on to the Weblogic Administration Console with the administrative log on.

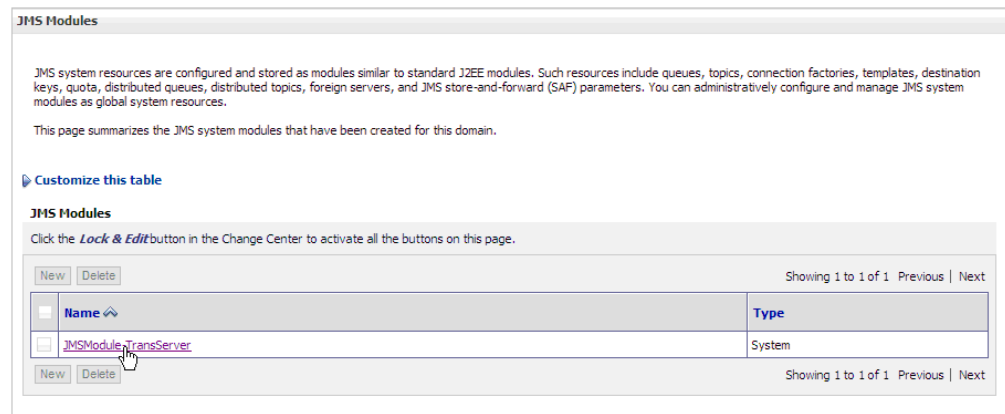
Figure 2–31 *Weblogic Administration Console screen*



2. From the Admin Console Home page, select the JMS Modules link under the Services -> Messaging heading.

Figure 2–32 Admin Console Home screen

- On the JMS Modules screen, select the JMS Module created for the Transaction Server or create a new one.

Figure 2–33 JMS Modules (Transaction Server) screen

2.5.1 Connection Factory

Use the following steps to create the Connection Factory:

- Employee Connection Factory
 - Name: EmployeeConnectionFactory
 - JNDI Name: jms/WorldConnectionFactory
- On the Settings for JMS Module screens, click Lock and Edit and then click New.

Figure 2–34 JMS Module (Lock and Edit) screen

- On the Create a New MS System Module Resource screen, select the Connection Factory radio button and then click Next.

Figure 2–35 Create a New JMS Module Resource screen

- On the Connection Factory screen, enter the connection factory name and JNDI name exactly as it is above.

Figure 2–36 Connection Factory Properties screen

Create a New JMS System Module Resource

Back Next Finish Cancel

Connection Factory Properties

The following properties will be used to identify your new connection factory. The current module is JMSModule-TransServer.

* Indicates required fields

What would you like to name your new connection factory?

* Name:

What JNDI Name would you like to use to look up your new connection factory?

JNDI Name:

Back Next Finish Cancel

- On the Create a New JMS System Module Resource Targeting screen, click Advanced Targeting.

Figure 2–37 Create a New JMS System Module Resource (Advanced Targeting) screen

Create a New JMS System Module Resource

Back Next Finish Advanced Targeting Cancel

The following properties will be used to target your new JMS system module resource

Use this page to view and accept the default targets where this JMS resource will be targeted. The default targets are based on the parent JMS system module targets. If you do not want to accept the default targets, then click **Advanced Targeting** to use the subdeployment mechanism for targeting this resource.

The following JMS module targets will be used as the default targets for your new JMS system module resource. If the module's targets are changed, this resource will also be retargeted appropriately.

Targets :

Servers
<input checked="" type="checkbox"/> WTSServer

Back Next Finish Advanced Targeting Cancel

- On the Create a New JMS System Module Resource Advanced Targeting screen, either click Create a New Subdeployment if a subdeployment is not already created or select the subdeployment from the drop down list if the subdeployment is already created.

Figure 2–38 Create New JMS System Module Resource (New Subdeployment) screen

Create a New JMS System Module Resource

Back Next Finish Cancel

The following properties will be used to target your new JMS system module resource

Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments: [Create a New Subdeployment](#)

What targets do you want to assign to this subdeployment?

Targets :

Back Next Finish Cancel

- If creating a new subdeployment, enter a name for the subdeployment (like JMSSubDeploy-TransServer) and then click OK.

Figure 2–39 Create a New Subdeployment screen

Create a New Subdeployment

OK Cancel

Subdeployment Properties

The following properties will be used to identify your new subdeployment.

Subdeployment Name: JMSSubDeploy-TransServ

OK Cancel

- After you select the subdeployment, select the JMS Server as the target and then click Finish.

Figure 2–40 Create a New JMS System Module Resource (JMS Server) screen

Create a New JMS System Module Resource

Back Next Finish Cancel

The following properties will be used to target your new JMS system module resource

Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAF agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments: JMSSubDeploy-TransServer Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets :

Servers

☐ WTSServer

JMS Servers

☒ JHSServer1

Back Next Finish Cancel

- On the Settings for JMS Module screen, select the link for the newly created Connection Factory.

Figure 2–41 Summary of Resources screen

Summary of Resources

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete Showing 1 to 5 of 5 Previous | Next

	Name	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	DataReloadTopic	Topic	jms/com/peoplesoft/pt/e1/server/enterprise/events/DataReloadTopic	JMSSubDeploy-TransServer	JMSServer1
<input type="checkbox"/>	DataReloadTopicConnectionFactory	Connection Factory	jms/com/peoplesoft/pt/e1/server/enterprise/events/DataReloadTopicConnectionFactory	JMSSubDeploy-TransServer	JMSServer1
<input type="checkbox"/>	EmployeeConnectionFactory	Connection Factory	jms/WorldConnectionFactory	JMSSubDeploy-TransServer	JMSServer1
<input type="checkbox"/>	ESBQueue00	Queue	jms/com/peoplesoft/pt/e1/server/enterprise/events/ESBQueue00	JMSSubDeploy-TransServer	JMSServer1
<input type="checkbox"/>	EventQueueConnectionFactory	Connection Factory	jms/com/peoplesoft/pt/e1/server/enterprise/events/QueueConnectionFactory	JMSSubDeploy-TransServer	JMSServer1

- On the Settings for Connection Factory screen, select the General tab. Ensure that the Default Targeting Enabled checkbox is unchecked. Click Save.

Figure 2-42 Settings for Connection Factory screen

Settings for DataReloadTopicConnectionFactory

Configuration Subdeployment Notes

General Default Delivery Client Transactions Flow Control Load Balance Security

Save

Use this page to define the general configuration parameters for this JMS connection factory, which includes various client connection, default delivery, load balancing, and security parameters.

Name: DataReloadTopicConnectionFactory The name of this JMS connection factory. More Info...

JNDI Name: jms/com/peoplesoft/pt/e1/server/enterprise/events/DataRe The global JNDI name used to look up a connection factory within a clustered JNDI namespace. More Info...

☐ Default Targeting Enabled Specifies whether this JMS resource defaults to the parent module's targeting or uses the subdeployment targeting mechanism. More Info...

Advanced

Save

10. On the Setting for Connection Factory screen, select the Transactions tab. Ensure that the XA Connection Factory Enabled checkbox is checked. Click Save.

Figure 2-43 Settings for Connection Factory (Transactions) screen

Settings for DataReloadTopicConnectionFactory

Configuration Subdeployment Notes

General Default Delivery Client Transactions Flow Control Load Balance Security

Save

Use this page to define the transaction configuration for this JMS connection factory. You can define a transaction time-out value, and also indicate whether an XA queue or XA topic connection factory is returned, which create sessions that are JTA user-transaction aware.

Transaction Timeout: 3600 The timeout value (in seconds) for all transactions on connections created with this connection factory. More Info...

☒ XA Connection Factory Enabled Indicates whether a XA queue or XA topic connection factory is returned, instead of a queue or topic connection factory. An XA connection factory can be used to create an XAConnection, which in turn may be used to create an XASession, which in turn may be used to obtain an XAResource for use inside a transaction manager. More Info...

Save

11. Once the connection factory is created, click Activate Changes in the Change Center screen.

Figure 2-44 Change Center screen

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

Activate Changes

Undo All Changes

Domain Structure

- WTSDomain
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Configure JMS system modules
- Configure subdeployments in JMS system

Home Log Out Preferences Record Help

Home > Summary of JMS Servers > JMS Modules > JMSModule-TransServer > JMS Modules > JMSModule-TransServer

Messages

Connection factory created successfully.

Settings for JMSModule-TransServer

Configuration Subdeployments Targets Security Notes

This page displays general information about a JMS system module and its resources. It also allows you to create, delete, and modify resources.

Name: JMSModule-TransServer

Descriptor File Name: jms/jmsmodule-transserver-jms.xml

This page summarizes the JMS resources that have been created for this JMS system module, in destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward.

Customize this table

Summary of Resources

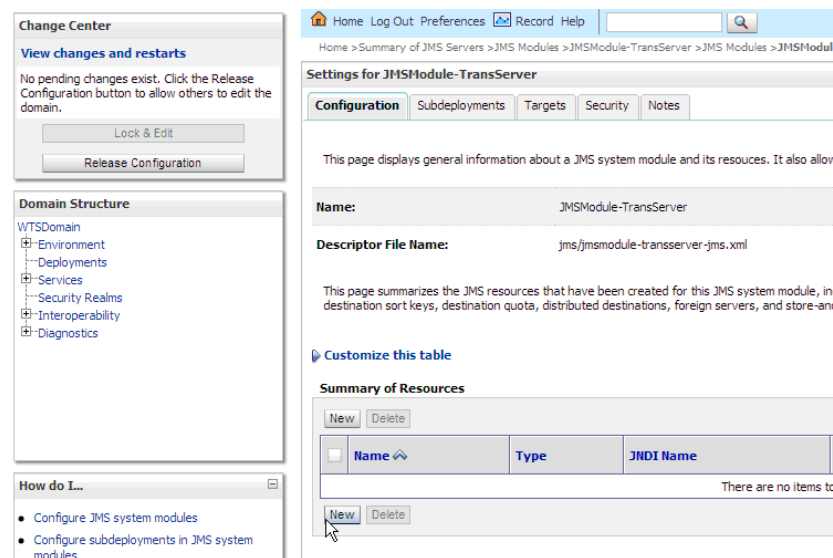
New	Delete	Name	Type	JNDI Name
-----	--------	------	------	-----------

2.5.2 JMS Queues

Use the steps below to create the following JMS Queue:

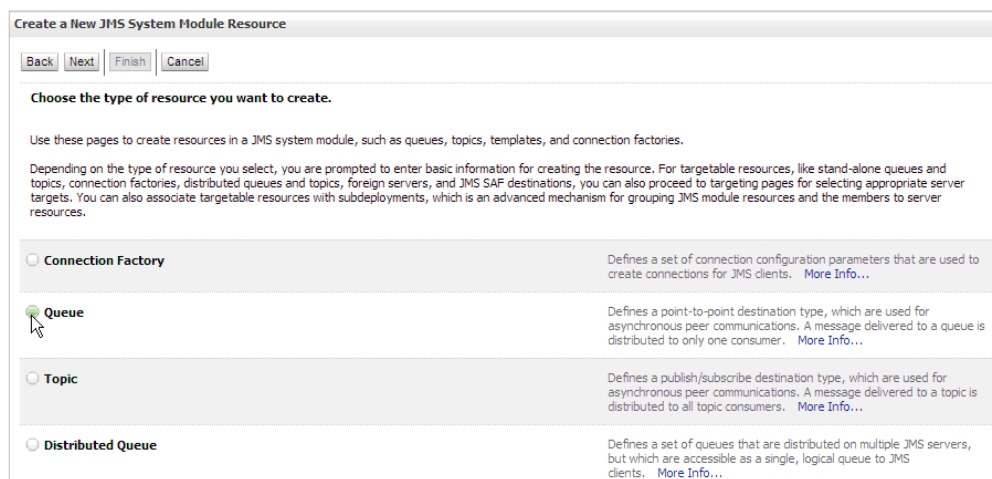
- Employee Queue
 - Name: EmployeeQueue
 -
 - JNDI Name: jms/World/Employee
1. On the Settings for JMS Modules screen, click Lock and Edit and then click New.

Figure 2–45 Settings for JMS Modules screen



2. On the Create a New JMS System Module Resource screen, select the Queue radio button and then click Next.

Figure 2–46 Create a New JMS System Module Resource (Queue Radio) screen



3. On the JMS Destination Properties screen, enter the queue name and JNDI name exactly as it is above.

Figure 2–47 JMS Destination Properties screen

Create a New JMS System Module Resource

Back Next Finish Cancel

JMS Destination Properties

The following properties will be used to identify your new Queue. The current module is JMSModule-TransServer.

* Indicates required fields

* Name: EmployeeQueue

JNDI Name: jms/World/Employee

Template: None

Back Next Finish Cancel

4. On the JMS Queue Targeting screen, select the same subdeployment used for the connection factories from the drop down list. Make sure the JMS Server created earlier is selected as the Target. Click Finish.

Figure 2–48 JMS Queue Targeting screen

Create a New JMS System Module Resource

Back Next Finish Cancel

The following properties will be used to target your new JMS system module resource

Use this page to select a subdeployment to assign this system module resource. A subdeployment is a mechanism by which JMS resources are grouped and targeted to a server instance, cluster, or SAP agent. If necessary, you can create a new subdeployment by clicking the **Create a New Subdeployment** button. You can also reconfigure subdeployment targets later by using the parent module's subdeployment management page.

Select the subdeployment you want to use. If you select (none), no targeting will occur.

Subdeployments: JMSSubDeploy-TransServer Create a New Subdeployment

What targets do you want to assign to this subdeployment?

Targets :

JMS Servers
JMServer1

Back Next Finish Cancel

5. Once all the JMS Queue is created, click Activate Changes in the Change Center screen.

Figure 2–49 Change Center (JMS Queue) screen

Change Center

[View changes and restarts](#)

Pending changes exist. They must be activated to take effect.

[Activate Changes](#)

[Undo All Changes](#)

Domain Structure

- WTSDomain
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Configure JMS system modules
- Configure subdeployments in JMS system

Settings for JMSModule-TransServer

[Configuration](#) [Subdeployments](#) [Targets](#) [Security](#) [Notes](#)

This page displays general information about a JMS system module and its resources. It also allows you to create, delete, and modify resources.

Name: JMSModule-TransServer

Descriptor File Name: jms/jmsmodule-transserver-jms.xml

This page summarizes the JMS resources that have been created for this JMS system module, in destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward.

[Customize this table](#)

Summary of Resources

[New](#) [Delete](#)

<input type="checkbox"/>	Name ↕	Type	JNDI Name
--------------------------	--------	------	-----------

Notification Setup

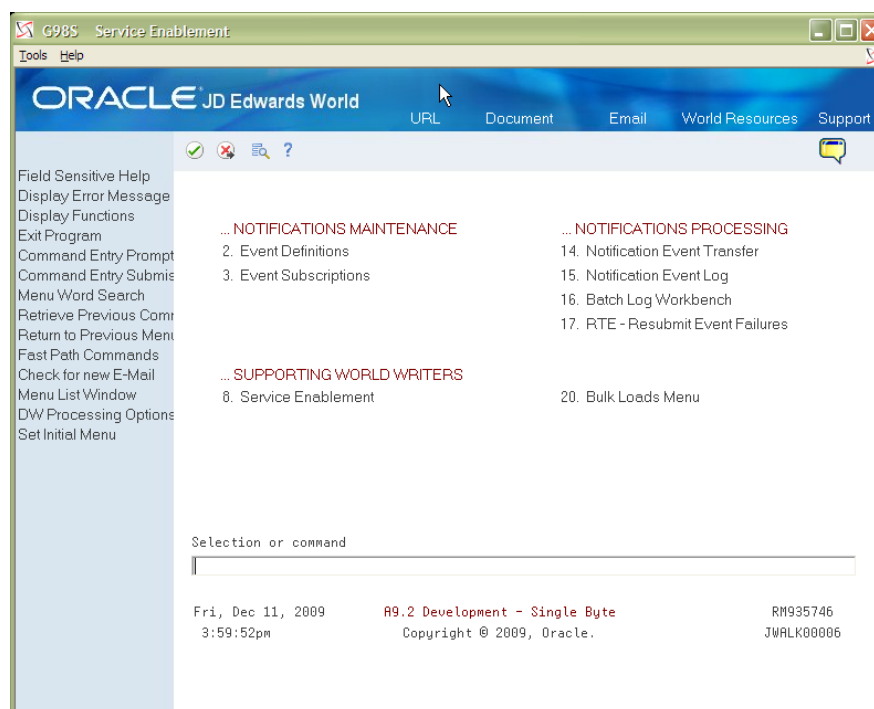
This chapter contains these topics:

- [Section 3.1, "Event Definition,"](#)
- [Section 3.2, "Event Subscription."](#)

3.1 Event Definition

1. Sign on to the JD Edwards World A9.3 Environment and select the Service Enablement menu (G98S).

Figure 3–1 Service Enablement screen



Select Event Definitions (2) from the menu and then press Enter.

From the Event Definitions screen, enter a 3 in the Options column on a blank line to add a new Event definition.

Figure 3–2 Event Definitions screen

98S701S Event Definitions

Tools Help

ORACLE JD Edwards World

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Field Sensitive Help
Display Error Message
Display Functions
Exit Program
Clear Screen

98S701S Event Definitions

Event Name

OP	Event Name	Description	Event Type	Active Status	User ID	Date Updated
	EMPLOYEE1	Emploo	EMP1	Y	RM935746	11/13/09
	NTV_000001	Customer Header	CSTHR	Y	AN6625618	08/13/09
	NTV_000002	Customer Phone	CSTPN	Y	AN6625618	08/13/09
	NTV_000003	Customer Email	CSTEA	Y	AN6625618	08/13/09
	NTV_000004	Customer alt. address	CSTAA	Y	AN6625618	08/13/09
3	NTV_000020	Item	ITEM	Y	AN6625618	08/13/09

Opt: 1=Memo 2=Update 3=Add/Copy F24=More

- From the Event Definition Maintenance screen, enter an Event Name, an Event Type that corresponds to an Approvals Rule (G00A). Also, add the World Writer Query Group, Version, and User ID. Click Enter.

Update the Event Activation status with a Y. Exit the Event Definition Maintenance and the Event Maintenance screen.

Field	Explanation	Sample Use Case Value
Event Name	The name of the event, for example JDEITEMOUT. Cannot be the same as existing names. Valid characters consist of 0 - 9, A - Z, blanks, period, and underscore. Leading blanks are not allowed.	EMPLOYEE1
Event Description	The description of an event. Cannot be blank.	Add Employee Event
Event Type	A value that represents the name of the event type, for example the value RTE denotes Real Time Event; the value ZFILE denotes Batch Upload Event. UDC Validation 98S/ET.	EMP1
Event Activation Status	Indicates whether an event is active. Y or N.	Y
WW Query Group	The World Writer Query Group that is used to create the XML payload. Must be a valid WW Query Group.	Q98S
WW Query Name	The World Writer Version that is used to create the XML payload. Must be a valid WW Version.	EMPLOYEEERT

Field	Explanation	Sample Use Case Value
WW Query User	The World Writer Version User that is used to create the XML payload. Must be a valid IBM Profile and WW Version User (Export Parameters defined).	Current user id

Figure 3–3 Event Definition Maintenance screen

98S701 Event Definition Maintenance

Tools Help

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Display Functions
Exit Program
Exit to Event Subscription
Audit Information
Exit to Memo
Clear Screen

98S701 Event Definition Maintenance

Action Code: C
Event Name: EMPLOYEE1
Description: Add Employee Event
Event Type: EMP1 Employee Real Time Event
Event Actv Status: Y
WW Query Group: 098S Service Enablement
WW Version: EMPLOYEEERT Employee Real Time Events
WW User ID: RM935746 Robert Morgan

F6=Event Subscriptions F14=Memo F24=More

3.2 Event Subscription

Sign on to the JD Edwards World A9.3 Environment and select the Service Enablement menu (G98S).

Navigation

From the Service Enablement menu, select Event Subscriptions (3) and then press Enter.

From the Event Subscriptions screen, enter a 3 in the option field to add a new subscription.

Figure 3–4 Event Subscriptions screen

Event Name	Description	Subscription Name	Description	Actv Sts
EMPLOYEE1	Add Employee Real Time E	EMP_SUB1	Employee Add Subscriptio	Y
NTV_000001	Customer RTE (Header)	TESTSUB	Test Subscription for ED	Y
NTV_000002	Customer RTE (Phone)	TESTSUB2	Test Subscription for ED	Y
NTV_000003	Customer RTE (Email)	TESTSUB3	Test Subscription for ED	Y
NTV_000004	Customer RTE (Alt Address)	TESTSUB	Test Subscription for ED	Y
NTV_000020	Item RTE	TESTSUB	Test Subscription for ED	Y
ROBTEST	rob test 1	ROBTEST1	Rob's Subscription	Y
ROBTEST	rob test 1	ROBTEST2	Rob's Subscription Topic	Y

- From the Event Subscription Maintenance screen, enter the Event Name of the event added in step 4 of the Event Definition procedure. Enter a Subscription Name and Description. The User ID 2 field is automatically generated by the program.

Update the Subscription Activation Status to Y and pick a Transportation Type Q for JMS Queue or T for JMS Topic.

Enter the Parameter Value which is the endpoint URL for either the JMS Topic or Queue and then press Enter.

Field	Explanation	Sample Use Case Value
Event Name	The name of the event the subscription is associated with, for example JDEITEMOUT. Must be a valid Event Name on F98S701.	EMPLOYEE1
Subscription Name	Cannot be the same as existing name for a Subscription. Valid characters consist of 0 - 9, A - Z, blanks, period, and underscore. Leading blanks are not allowed.	EMP_SUB1
Subscription Description	The description of an event. Cannot be blank.	Employee Add Subscription
Subscription Activation Status	Indicates whether a subscription is active or not. Y or N.	Y
Transport Type	The type of the transport driver that delivers events to the subscriber, either Topic or Queue. UDC Validation 98S/TT.	Q

Field	Explanation	Sample Use Case Value
Distribution Profile	The EDD distribution profile to be used for sending out email notices when an event subscription notification fails.	
Email Template	The EDD e-mail template to be used for sending out e-mail notices when an event subscription notification fails.	
Transport Parameter Name	Description of the event transport value.	Employee JMS Queue
Transport Parameter Value	Event Transport Value, Topic or Queue location (JNDI location)	jms/World/Employee

Figure 3–5 Event Subscription Maintenance screen

- From the Event Subscription Maint-Page 2, update the Application Server Type field with the type of application server the Transaction Server is running on, ORACLE.

Enter the Connection Factory from the application server. If the Transportation Type is JMS Queue, you need to enter the Initial Context Value and the Queue URL. Press Enter.

Field	Explanation	Sample Use Case Value
Event Name	The name of the event the subscription is associated with, for example JDEITEMOUT. Must be a valid Event Name on F98S701.	Protected Field

Field	Explanation	Sample Use Case Value
Subscription Name	Cannot be the same as existing names for a Subscription. Valid characters consist of 0 - 9, A - Z, blanks, period, and underscore. Leading blanks are not allowed.	Protected Field
Subscription Description	The description of an event. Cannot be blank.	Protected Field
User ID 2	Program generated value.	Protected Field
Application Server Type	The type of application server the Transaction Server is running on. Oracle or WebSphere. UDC Validation 98S/AT.	ORACLE
Connection Factory	The JNDI location of the Queue Connection Factory or Topic Connection Factory From the application server where the Queue or Topic is deployed.	jms/WorldConnectionFactory
Initial Context Factory	The name of the initial context factory object needed to create the JMS Queue object.	com.evermind.server.rmi.RMIInitialContextFactory
Queue URL	The URL for the application server where the JMS queue is deployed. To find the ORMI Port, see To find the ORMI and Request Runtime Ports for the Oracle Application Server (OAS)	For Local Server opmn:ormi://server.name:server_Request_Port:home For Remote Server ormi://server.name:server_ORMI_Port

Figure 3–6 Event Subscription Maintenance - Page 2 screen

98S7062 Event Subscription Maint-Page2

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Display Functions
Exit Program
Audit Information
Exit to Memo
Clear Screen

98S7062 Event Subscription Maint-Page2

Action Code

Event Name EMPLOYEE1 Add Employee Real Time Event

Subscription Name EMP_SUB1

Description Employee Add Subscription

User ID 2 WORLD00020

Appl Server Type ORACLE Oracle Application Server

Connection Factory jms/WorldConnectionFactory

Init Context Fact. com.evermind.server.rmi.RMIInitialContextFactory

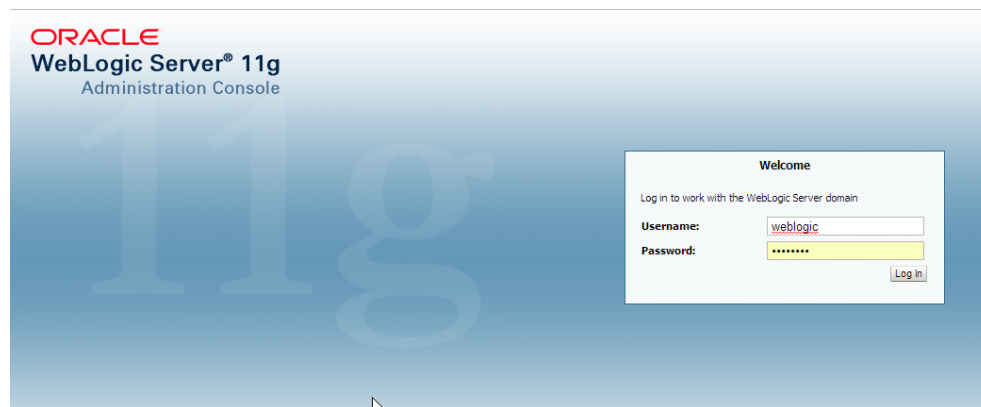
Queue URL ormi://omorga-pc1.peoplesoft.com:12402

F14=Memo F24=More

To find the Weblogic Application Server Listening Port

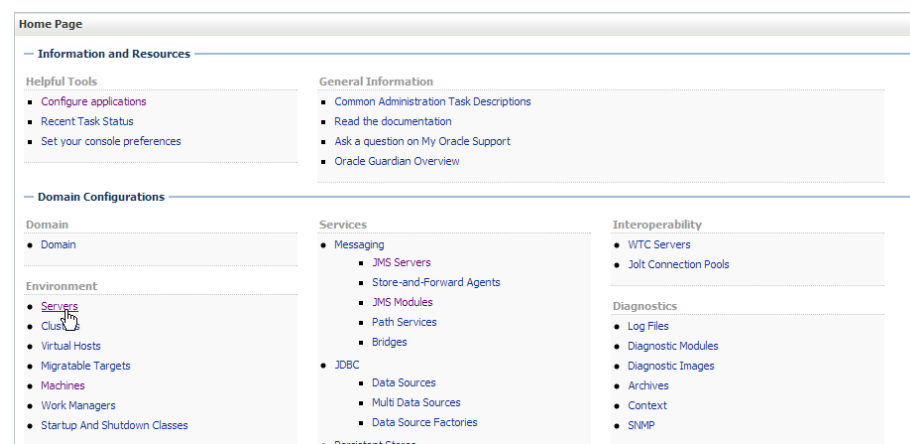
1. Log on to the Weblogic Administration Console OAS Enterprise Manager with the administrative log on.

Figure 3–7 Weblogic Administration Console OAS Enterprise Manager screen



2. From the Administration Console Home page, select Servers under the Environment heading.

Figure 3–8 Administration Console Home screen



3. On the Summary of Servers page, locate the Listen Port for the server you associated with the Employee JMS Queue. In the example above, the server set up for the Transaction Server is used. This is the value used for the Queue URL port setting for a Remote Server Instance (Transaction Server is on a different OAS than the JMS Queue).

Approvals for Notification

This chapter contains these topics:

- [Section 4.1, "Configure Approvals Constants,"](#)
- [Section 4.2, "Configure Program Calls,"](#)
- [Section 4.3, "Configure Approval Rule Sets."](#)

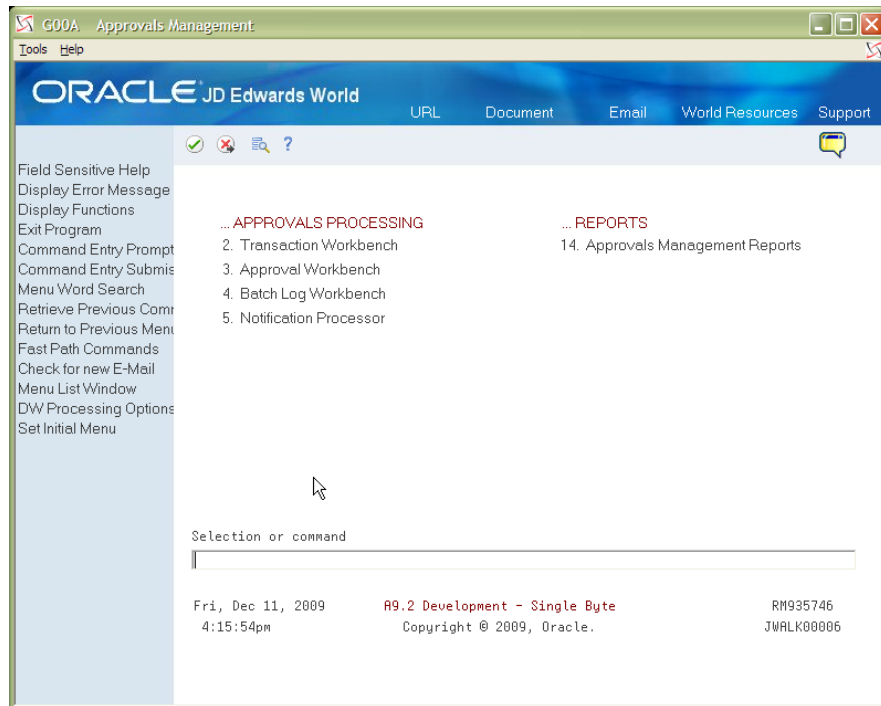
For Notification Real Time Events (RTEs) to function, you must first activate the RTEs in the Approvals Management system and subscribe to the JD Edwards World system to receive notification when a specific transaction occurs. See Overview to Approvals Management in the *JD Edwards World Technical Tools Guide* for more details. Complete the following tasks:

- Configure approvals constants
- Configure program calls
- Configure approval rule sets

4.1 Configure Approvals Constants

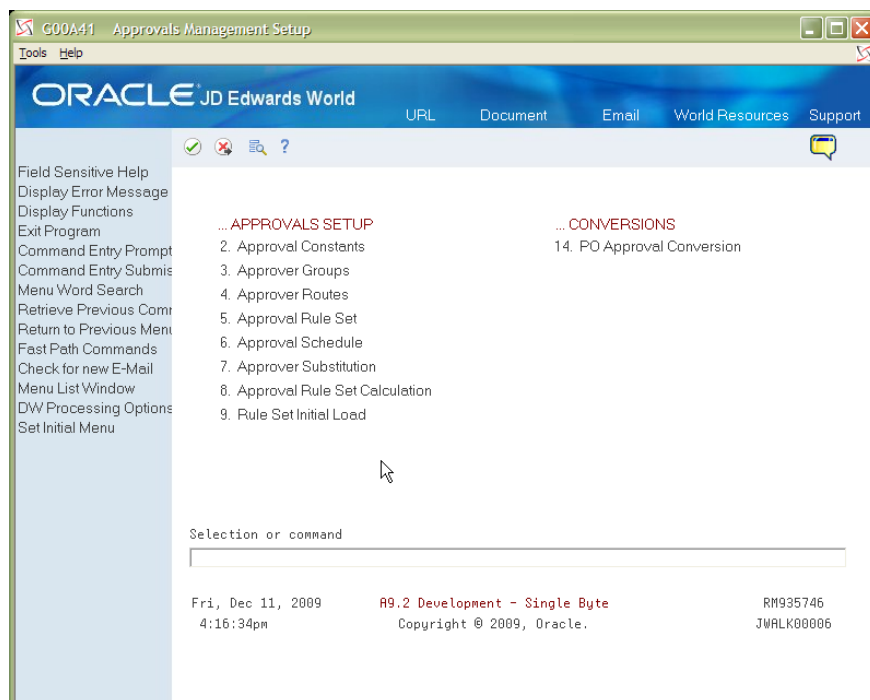
1. Sign on to the JD Edwards World A9.3 Environment and select the Approvals Management menu (G00A).

Figure 4–1 Approvals Management screen



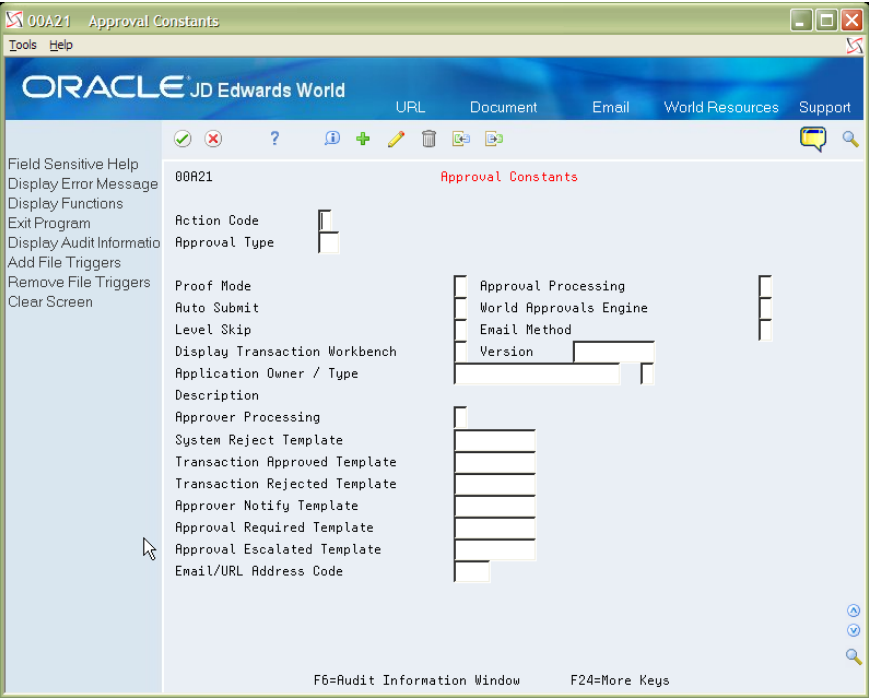
2. Select hidden selection 29 to access the Approvals Management Setup menu (G00A41).

Figure 4–2 Approvals Management Setup screen



3. Select option 2, Approvals Constants and then press F6 to proceed past the Warning screen.

Figure 4-3 Approval Constants screen



4. If not already added, add either Approval Type 01 or Address Book RTE. Set Proof Mode, Approval Processing, Auto Submit, and World Approvals Engine as follows:

Field	Explanation	Sample Use Case Value
Proof Mode	<p>Proof mode generates a transaction in the approvals management system whenever a record gets added, changed, or deleted. Real time event transactions must be submitted. Unlike other approval types, real time event approval types do not generate approval requests when submitted. If a rule is true for a real time event approval type the system executes the program assigned to the rule. Proof mode must be turned on to enable real time event processing.</p> <p>Real time event processing uses file triggers to drive the creation of real time event transactions. Use F9 to add the real time event file triggers to the necessary files. Use F10 to remove the file triggers. Real time event processing can be turned off by turning proof mode off as opposed to removing the real time event file triggers.</p>	Y
Approval Processing	Approval processing must be turned on for real time event approval types.	Y
World Approvals Engine	World Approvals Engine must be turned on for real time event approval types.	Y
Auto Submit	Transactions automatically submitted.	1

Figure 4–4 Approval Constants (Approval Type 01) screen

The screenshot shows the 'Approval Constants' screen in the Oracle JD Edwards World application. The window title is '00A21 Approval Constants'. The left sidebar contains a list of menu items: Field Sensitive Help, Display Error Message, Display Functions, Exit Program, Display Audit Information, Add File Triggers, Remove File Triggers, and Clear Screen. The main area displays the following information:

Approval Constants			
Action Code	1		
Approval Type	01 Address Book RTE		
Proof Mode	Y	Approval Processing	Y
Auto Submit	1	World Approvals Engine	Y

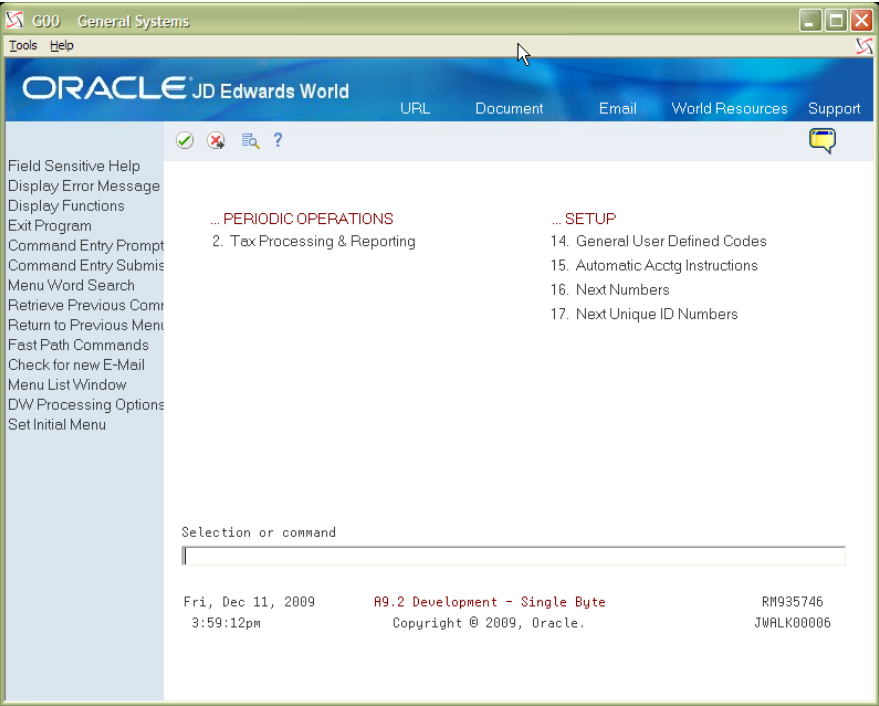
Below the table, it says 'File Triggers Added to Files'. At the bottom, there are keyboard shortcuts: F6=Audit Information Window and F24=More Keys.

4.2 Configure Program Calls

When programs are called to process real time event transactions, the real-time event main program knows what program to call and they must be set up using UDC table 00A/01. The program called must contain the following entry parameters:

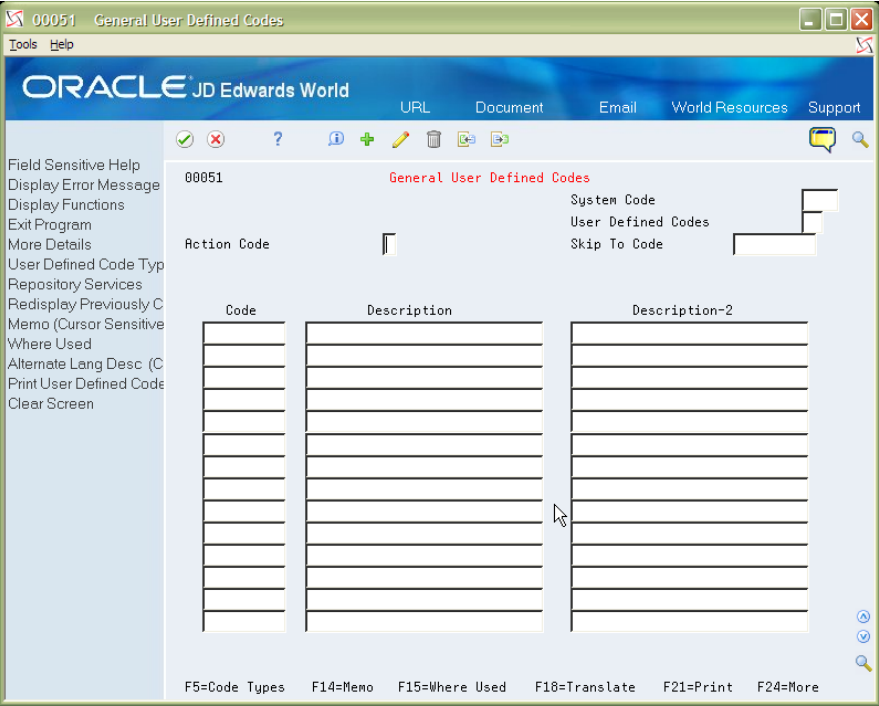
- Approvals Transaction Number - 15 Numeric
 - Code value from UDC 00A/01 - 10 Alphanumeric
 - Description value from UDC 00A/01 - 30 Alphanumeric
 - Description-2 value from UDC 00A/01 - 30 Alphanumeric
1. Sign on to the JD Edwards World A9.3 Environment and select the General Systems menu (G00).

Figure 4-5 General Systems screen



2. Select Option 14 for General User Defined Codes.

Figure 4-6 General User Defined Codes (Configure Program Calls) screen



3. Inquire on System Code 00A, User Defined Code 01. Add a record with the following fields for the real time event process to call.

Field	Explanation	Sample Use Case Value
Code	The code uniquely defines the program call in the UDC list. The code value gets passed to the called program as the second entry parameter.	EMP_RTE
Description	The Description value gets passed to the called program as the third entry parameter.	Employee RTE Program
Description-2	The Description value gets passed to the called program as the fourth entry parameter. This value corresponds to the Event Name set up in the Notification Event Definition.	EMPLOYEE1
Special Handling Code	The special handling code contains the name of the program to be called.	J00A1213

Figure 4–7 General User Defined Codes (System Code 00A)screen

00051 General User Defined Codes

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Exit Program
More Details
User Defined Code Type
Repository Services
Redisplay Previously C
Memo (Cursor Sensitive
Where Used
Alternate Lang Desc (C
Print User Defined Code
Clear Screen

00051 General User Defined Codes

System Code 00A
User Defined Codes 01
Skip To Code
Approvals RTE Programs

10 Character

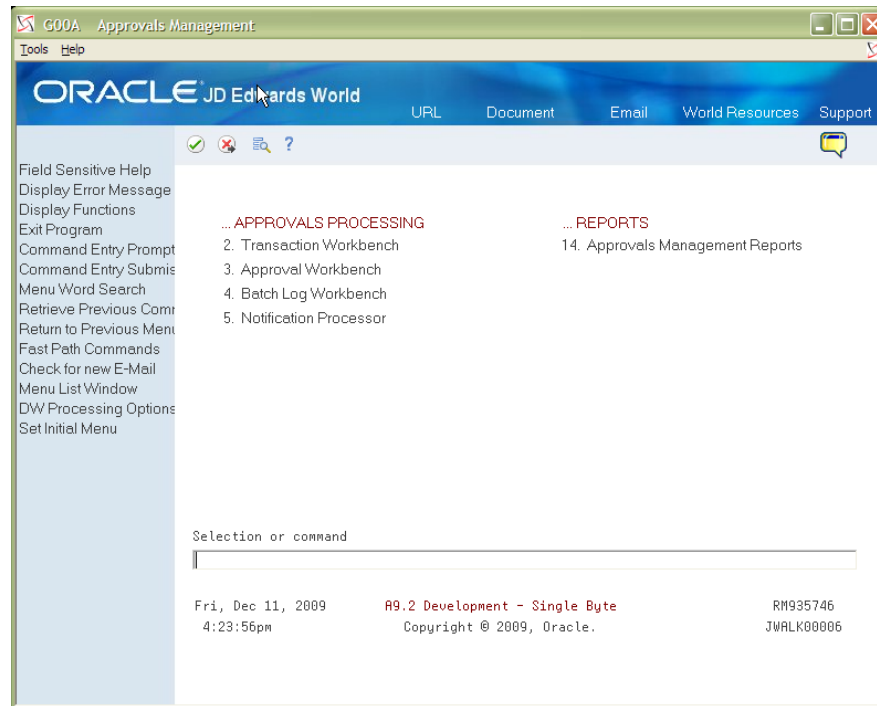
Code	Description	Description-2
EMP_RTE	Employee RTE Program	EMPLOYEE1
NTY_000001	Customer RTE (Header)	NTY_000001
NTY_000002	Customer RTE (Phone)	NTY_000002
NTY_000003	Customer RTE (Email)	NTY_000003
NTY_000004	Customer RTE (Alt Address)	NTY_000004
NTY_000005	Customer RTE (Phone - Add)	NTY_000002
NTY_000006	Customer RTE (Email - Add)	NTY_000003
NTY_000007	Customer RTE (Alt Address - Add)	NTY_000004
NTY_000020	Item RTE	NTY_000020

F5=Code Types F14=Memo F15=Where Used F18=Translate F21=Print F24=More

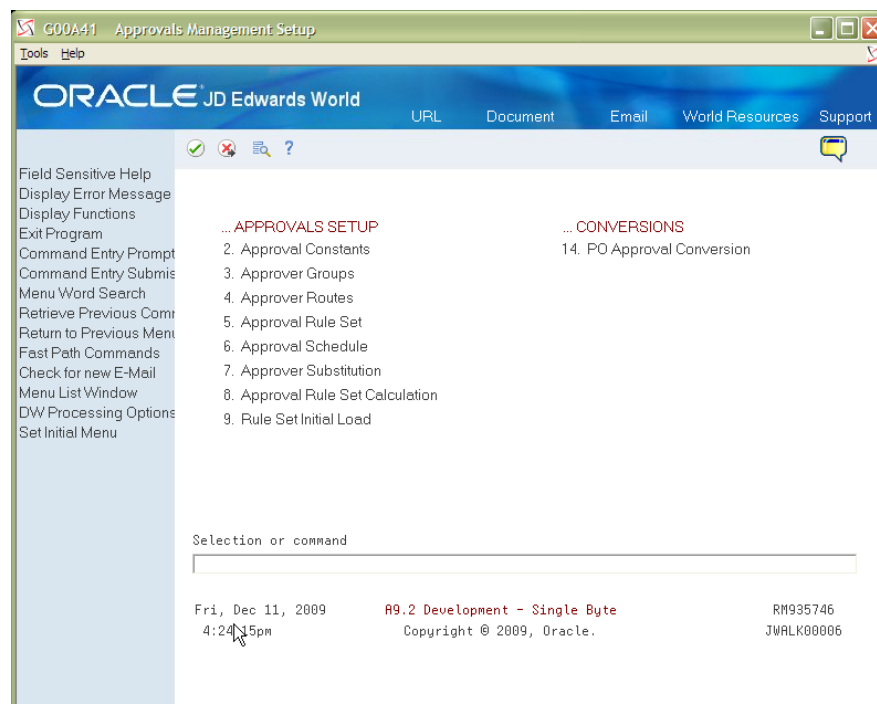
4.3 Configure Approval Rule Sets

Approval Rules are set up to determine when transaction data must be gathered and used to create a transaction. The Approval Rule Set application is a very flexible tool that allows for specifically telling the system when a transaction must be created. When used for Notifications, if an Approval Rule Sets criteria is matched, a transaction is created and the Notification program is called to process real time event transactions.

1. Sign on to the JD Edwards World A9.3 Environment and select the Approvals Management menu (G00A).

Figure 4–8 Approvals Management (Approvals Rule Sets) screen

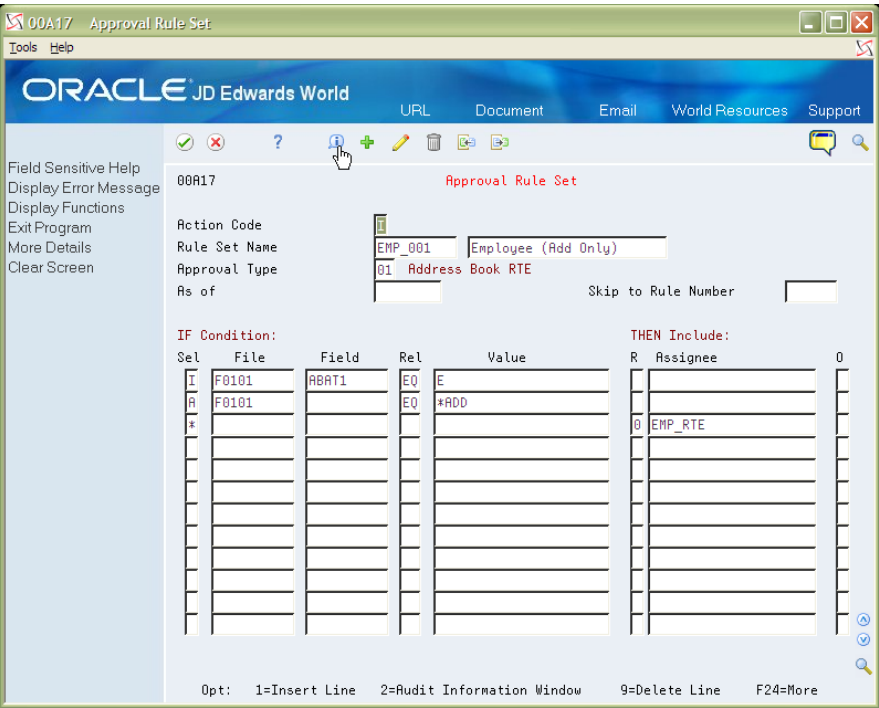
2. Choose hidden selection 29 and then press Enter to get to the Approvals Management Setup menu. Select the Approvals Rule Sets (5).

Figure 4–9 Approvals Management Setup (Approvals Rules Sets) screen

3. For the Sample Use Case, the Rule Set includes Address Book records added with a Search Type E. Enter the following values and then press Enter.

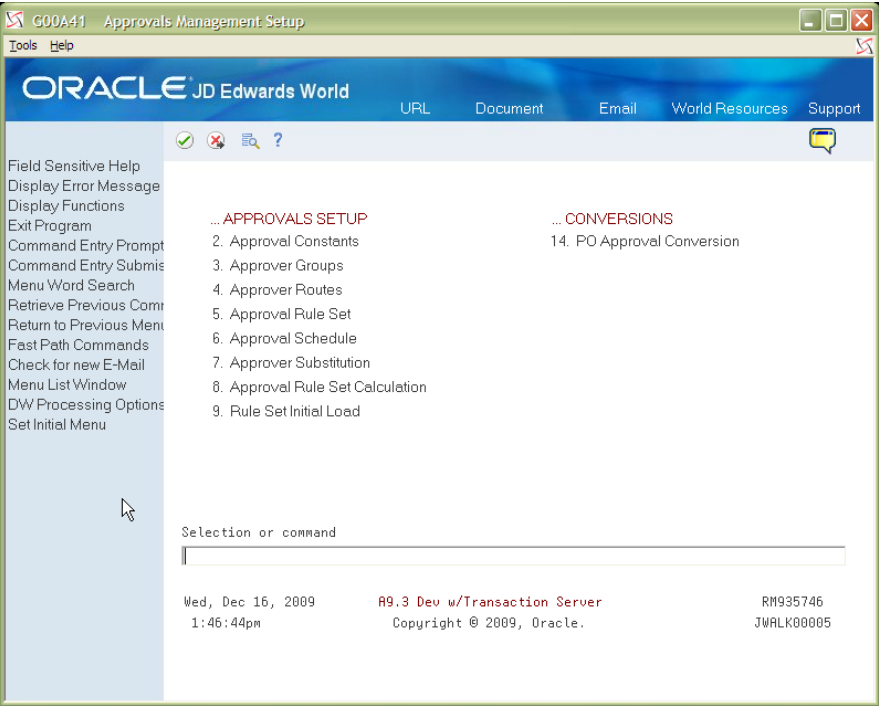
Field	Explanation	Sample Use Case Value
Action Code	A code that indicates the activity you want to perform	A
Rule Set Name	A 10-digit, free-form, user defined, alphanumeric field used to identify a rule set.	EMP_001
Description	A 30-digit, free-form, user defined description or remark.	Employee (Add Only)
Approval Type	A user defined code (00/AT) that indicates the type of approval request.	01
Sel	A code that determines whether compound data selection logic is based on an A = AND condition or an O = OR condition.	Line 1 = I Line 2 = A Line 3 = *
File	Used in the approval rule set definition to specify the file name.	Line 1 = F0101 Line 2 = F0101 Line 3 =
Field	Used in the approval rule set definition to specify the field name in a file.	Line 1 = ABAT1 Line 2 = Line 3 =
Rel	A code that indicates the relationship in the approval rule set definition. Valid values are: EQ Equal to LT Less than LE Less than or equal to GT Greater than GE Greater than or equal to NE Not equal to	Line 1 = EQ Line 2 = EQ Line 3 =
Value	A free-form, alphanumeric field used to store the approval rule value.	Line 1 = E Line 2 = *ADD Line 3 =
R	A code that determines whether an approver is required to approve an approval request. 0 = Used in real time event transactions to designate that the value entered into the Person/Group/Route field is a program call. Program calls must be setup in UDC.	Line 1 = Line 2 = Line 3 = 0
Assignee	This field holds the person, group, or route responsible for approving an approval request. For Notifications, the assignee is the UDC 00A/01 value that points to the program to be called.	Line 1 = Line 2 = Line 3 = EMP_RTE

Figure 4–10 Approval Rule Set screen



4. Once the Rule Set is set up, it must be added to the schedule and used when Employee records are added. Exit from the Rule Set application if not already done. Select Approvals Schedule (6) from the Approvals Setup menu (G00A41).

Figure 4–11 Approvals Management Setup (Approvals Rules Sets) screen



5. From the Approvals Schedule screen, inquire on Transaction Type 01. Press Enter.

Figure 4-12 Approval Schedule screen

[illegible]

6. Add a schedule record for the employee Rule Set. Enter a C in the Action Code field. Enter a number in the first available Sequence Number field (if no other Approval Rule Sets are scheduled, you can enter a 1 in the sequence).
Enter EMP_001 in the first available Rule Set Name field. Press Enter.

Figure 4–13 Approval Schedule (EMP_001) screen

The screenshot shows the "Approval Schedule" window in Oracle JD Edwards World. The title bar includes "00A20" and standard window controls. The menu bar has "Tools" and "Help". Below the menu bar is a blue header area with the "ORACLE JD Edwards World" logo and navigation links: "URL", "Document", "Email", "World Resources", and "Support".

A toolbar contains icons for help, error, search, add, edit, delete, print, and save. On the left side, there are menu options: "Field Sensitive Help", "Display Error Message", "Display Functions", "Exit Program", and "Clear Screen".

The main area displays the "Approval Schedule" for "00A20". It features input fields for "Action Code" and "Transaction Type" (set to "01 Address Book RTE"). Below these is a table:

Sequence Number	Rule Set Name	Rule Set Description	
1	EMP_001	Employee (Add Only)	0

At the bottom, a status bar provides instructions: "Opt: 1=Insert Line 2=Rule Set 3=Audit Information 9=Delete Line" and "F24=More". A mouse cursor is visible over the table.

Transformation Templates Setup

This chapter contains the topic:

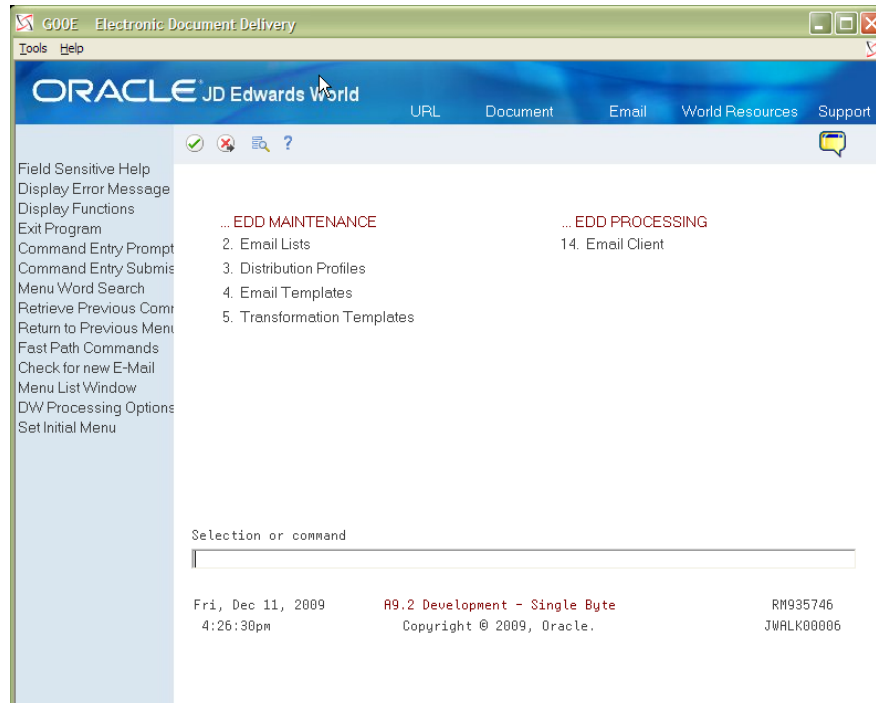
- [Section 5.1, "Setting Up Transformation Templates."](#)

5.1 Setting Up Transformation Templates

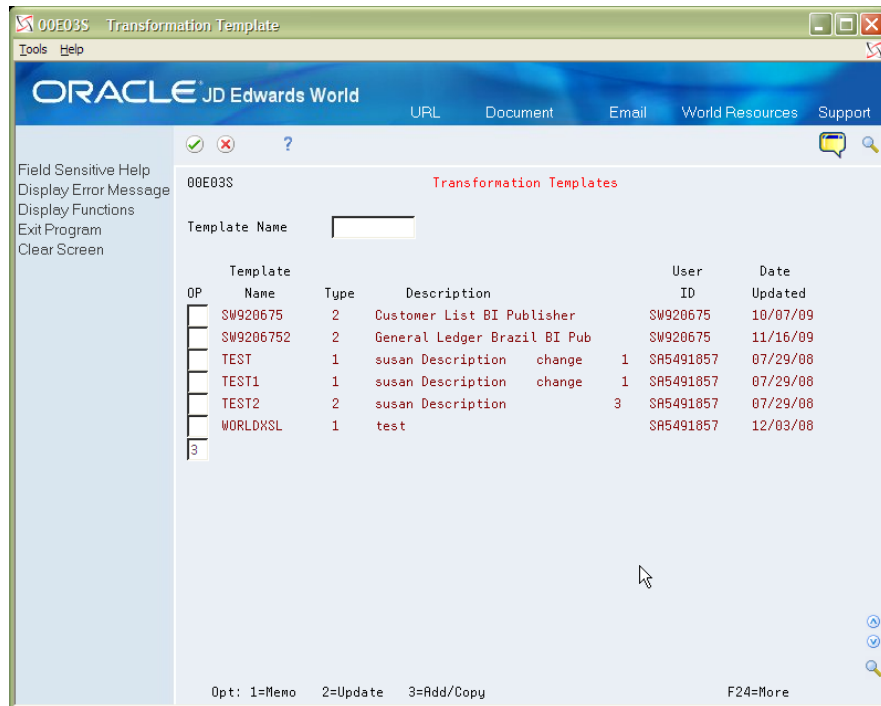
Transformation templates are required to transform application business messages (ABMs) via XSL transformation documents from the JD Edwards World format to the external XML format.

1. Sign on to the JD Edwards World A9.3 Environment and select Electronic Document Delivery menu (G00E).

Figure 5–1 Electronic Document Delivery screen

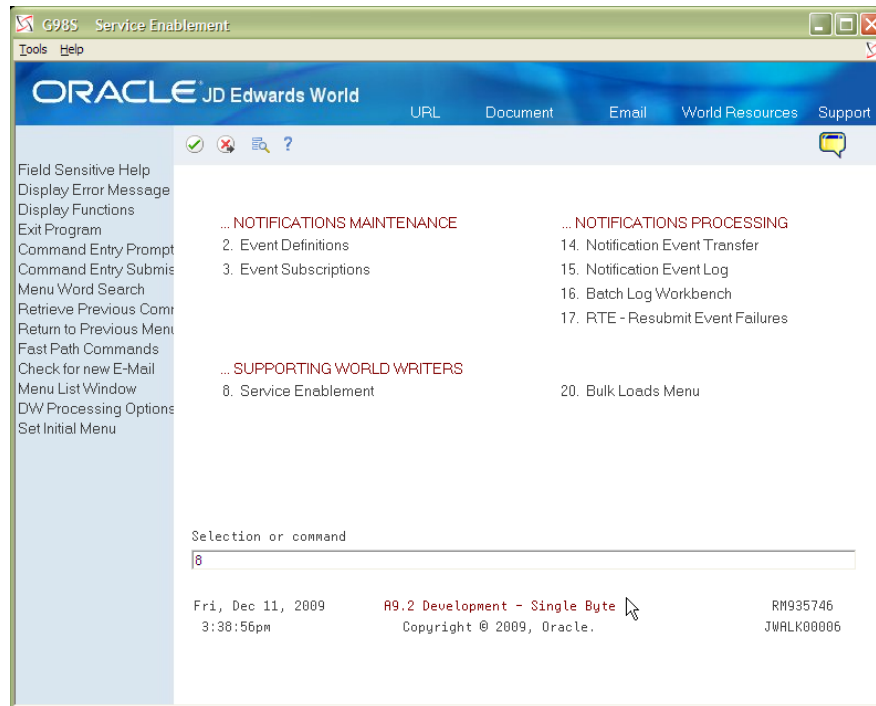


2. Select the Transformation Templates (5) option From the Electronic Document Delivery menu (G00E). Use an empty line to enter Option 3 to add a new template.

Figure 5–2 Transformation Template screen

- From the Transformation Template Maint. screen, enter the following fields for the template and then press Enter.

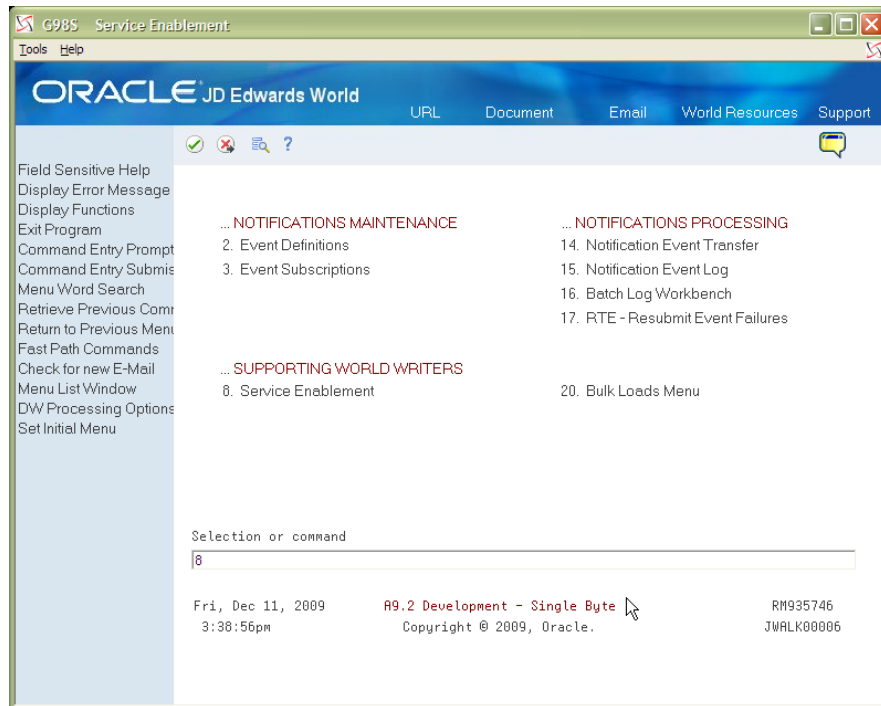
Field	Explanation	Sample Use Case Value
Template Name	User designated name for the template	EMPL_TEMPL
Template Type	Indicates the type of template, either XSL or BI Publisher.	1
Description	Template description	Employee Template
Template File	This is the Transformation Template File name. A Transformation Template File may be an XSL (Extensible Style sheet Language) file used to accomplish XSL transformations (changing an XML document in one format to another), or a template file created in Microsoft Word or Adobe Acrobat for use in formatting documents in BI Publisher.	EmployeeTransform.xml Note: Created in the XSL Transformation Setup step.
Template Path	The path From the IFS where the .XSL file is located.	/home/EmployeeRT
Output File	This is the transformation output file name. A transformation output file is the resulting file from some transformation process, such as an XSL transformation or a BI Publisher format information.	EmployeeRT_@DATE_@TIME.xml
Output Path	The path From the IFS where the output file is placed. Note: The output file is deleted after the message is sent.	/home/EmployeeRT

Figure 5-3 Service Enablement screen

Make sure that the template file is located in the IFS directory indicated in the Template Path. See [Section 2.2, "XSL Transformation Setup"](#) for details on creating an .xsl transformation template.

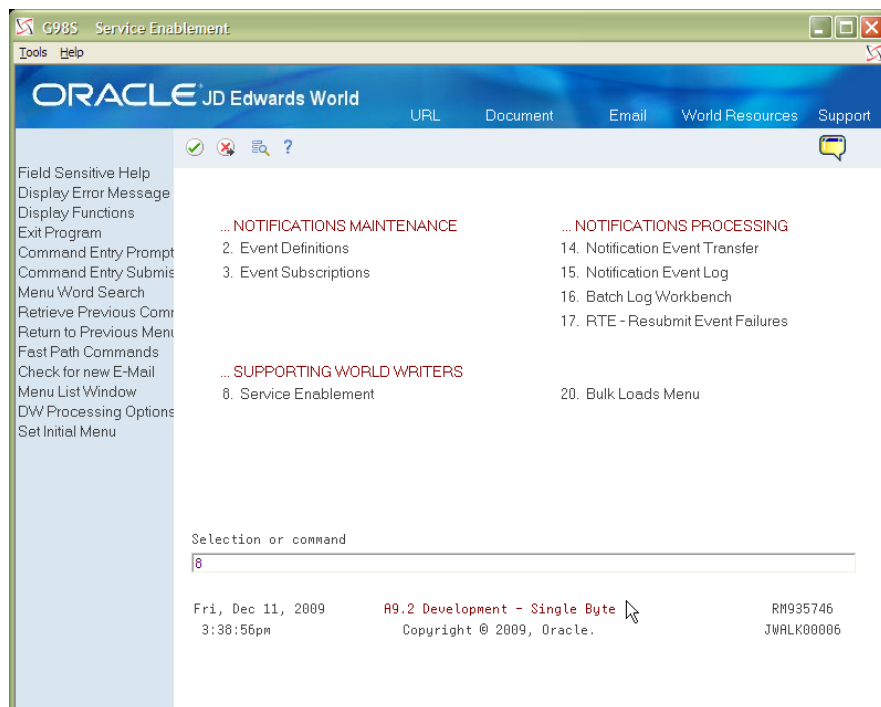
Exit from the Transformation Template application and access the Service Enablement menu (G98S). Select Supporting World Writers Service Enablement (8).

Figure 5–4 Service Enablement (World Writers) screen



4. From the Service Enablement World Writer screen, enter an 8 in the Option file next to the newly created EMPLOYEEERT World Writer version to go to the Database Export screen.

Figure 5–5 Service Enablement (Option 8) screen



5. From the Database Export Parameters screen, update the Transformation Template field with the value EMPL_TEMPL. Press Enter.

Figure 5–6 Database Export Parameters screen

The screenshot shows the 'Database Export Parameters' window of the 00DBDLP application. The window has a title bar with the application name and standard OS controls. Below the title bar is a menu bar with 'Functions', 'Tools', and 'Help'. The main area is divided into sections. The 'EXPORT' section contains fields for 'Import Export File' (set to 'EmployeeRT.xml') and 'IFS Path' (set to '/home/EmployeeRT/'). Below these are two checkboxes: 'Replace Records' (checked) and 'Header Detail Join Relationship' (unchecked). The 'TRANSFORMATION AND/OR DISTRIBUTION' section contains 'Enabled Y/N' (checked), 'Distribution Profile' (empty), 'Email Template' (empty), and 'Transformation Template.' (set to 'EMPL_TEMPL'). At the bottom, there are four function key shortcuts: 'F2=Long Names', 'F4=Search IFS Path', 'F3=Exit', and 'F6=Continue'. A mouse cursor is visible near the bottom center.

00DBDLP Database Export Parameters

Functions Tools Help

EXPORT

Import Export File EmployeeRT.xml

IFS Path /home/EmployeeRT/

Replace Records ☒ Header Detail Join Relationship ☐

Include Column Headings. ☐

TRANSFORMATION AND/OR DISTRIBUTION

Enabled Y/N ☒ Distribution Profile

Email Template Transformation Template. EMPL_TEMPL

F2=Long Names F4=Search IFS Path F3=Exit F6=Continue

Test the Sample Use Case

This chapter contains the topic:

- [Section 6.1, "Testing the Sample Use Case."](#)

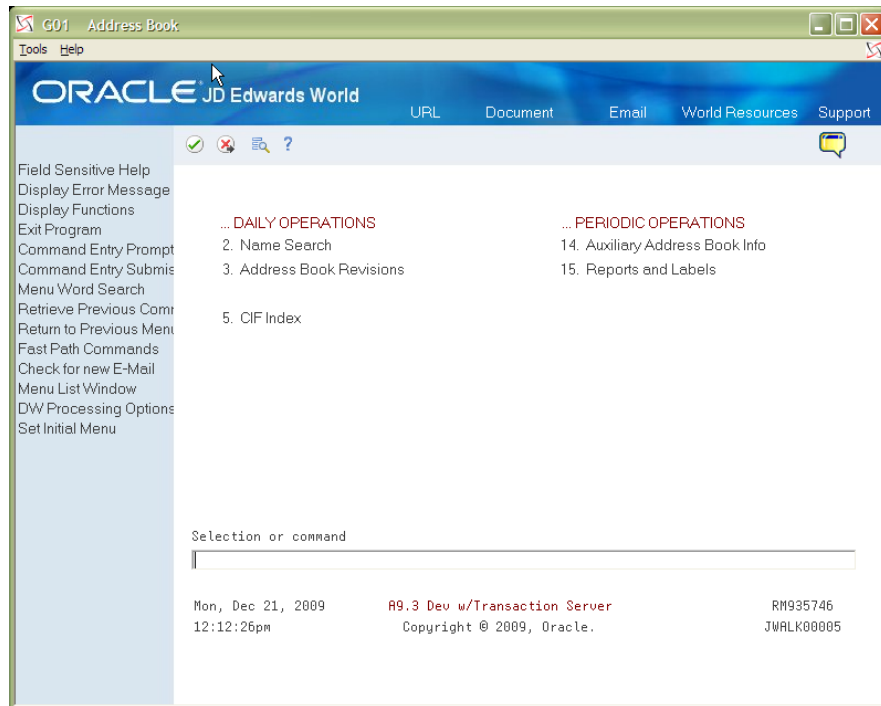
6.1 Testing the Sample Use Case

To get a clearer understanding of the how the process works, the steps for testing the Sample Use Case follow.

After an Address Book record is added with an Employee Search Type, E, the transaction is created using the Approvals System. A XML message with the transaction data is created and transformed into the outgoing XML message format. The XML message is picked up by the Transaction Server and sent as a JMS message to the JMS Queue defined in the Notification Subscription.

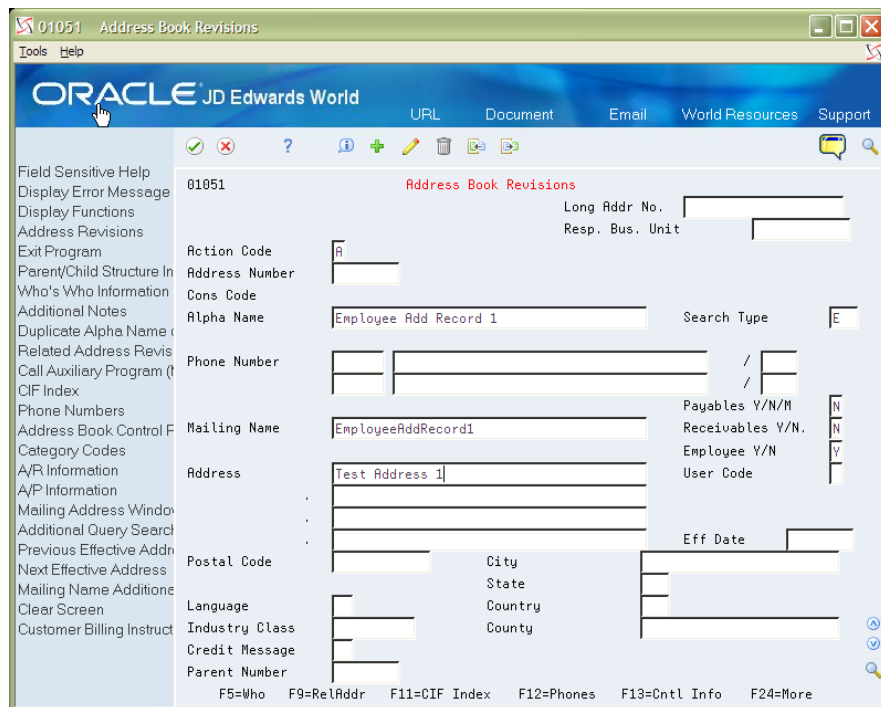
Note: Make sure the World Transaction Server is running. If changes were made to RPG programs, make sure that the library with the updated object is added to the environment.

1. Sign on to the JD Edwards World A9.3 Environment and select the Address Book menu (G01). Select Address Book Revisions (3).

Figure 6–1 Address Book screen

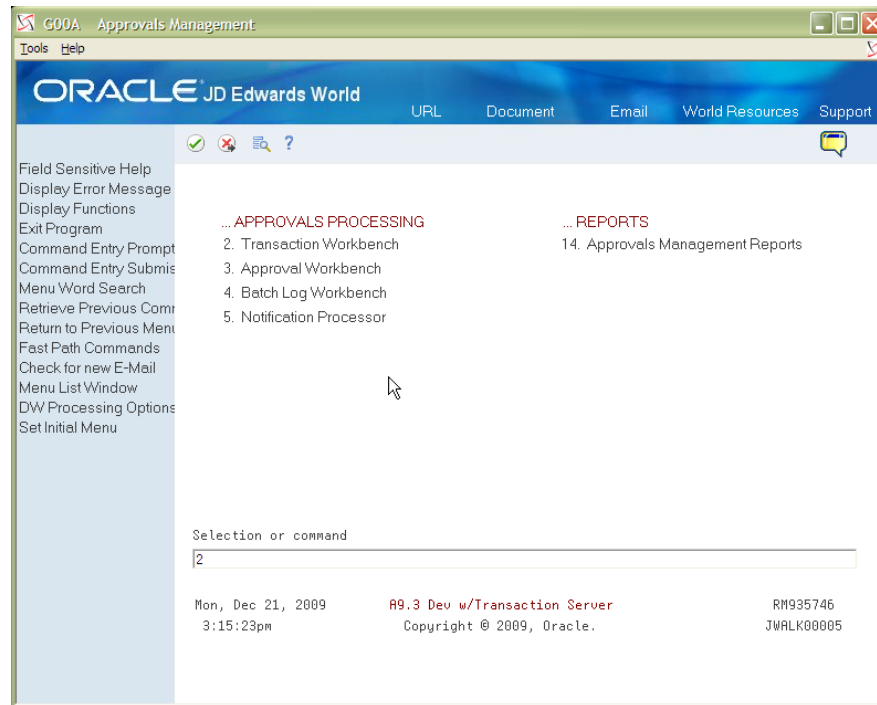
2. Add an Address Book record, making sure that there is an E in the Search Type field. Other fields can be filled in with test data.

Take note of the Address Book number assigned and exit from the applications.

Figure 6–2 Address Book Revisions screen

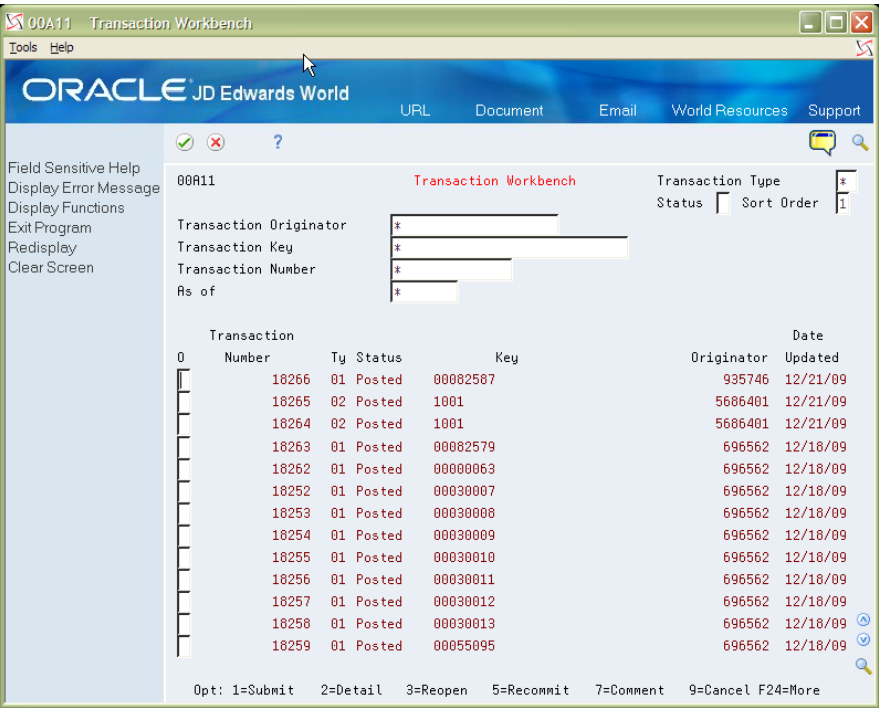
3. Upon exiting, the Approvals application picks up the employee transaction per the set up. To verify that an Approval's transaction was created, access the Approvals Management menu (G00A) and then select Transaction Workbench (2).

Figure 6–3 Approvals Management screen



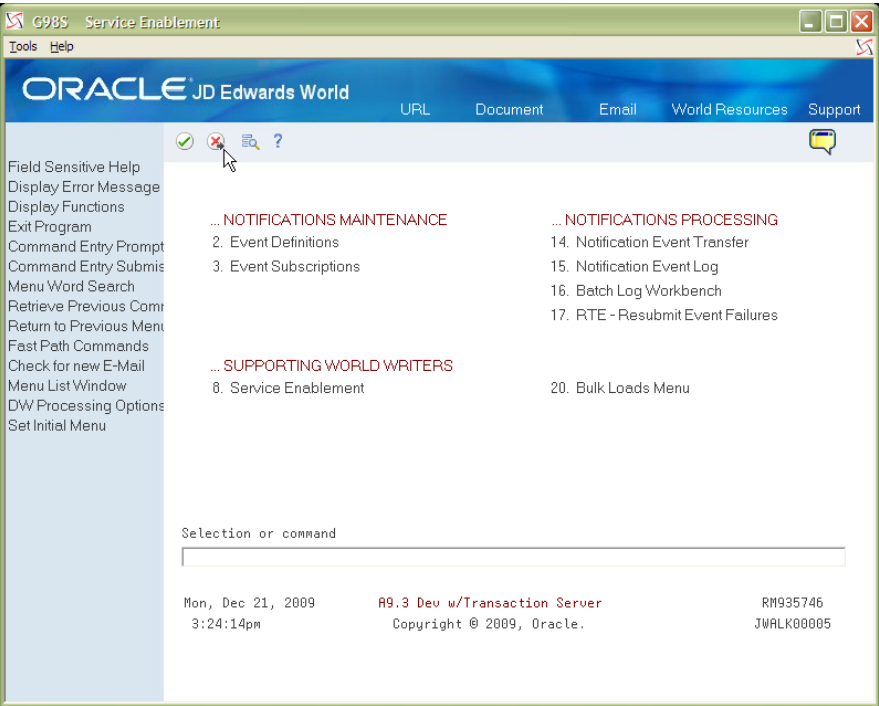
4. Blank out the Status header field and press Enter to view all the current transactions (or you can use the selection criteria to narrow down the search). The following graphic shows the transaction created is 18266, the Key is 00082587.

Figure 6–4 Transaction Workbench screen



5. After the transaction goes through the Approvals system, the XML is created and transformed (if needed). A transaction record is then created in the Notification system. To view the transaction, exit from the Approvals Transaction Workbench. Travel to the Service Enablement menu (G98S). Select Notification Event Transfer (14).

Figure 6–5 Service Enablement (View Transaction) screen



6. Press Enter to inquire from the most recent transactions.

For the test transaction, the Event Sequence Number is 1187.

The Event Status of 03, Event ready for transfer, tells the Transaction Server that the transaction is ready to be picked up by the Transaction Server.

Once the Transaction Server picks up the transaction, the status is changed to 04, Event Transferred, and then either to 05, Event Complete, or 06, Event in Error.

Figure 6–6 Notification Event Transfer screen

98S710 Notification Event Transfer

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Exit Program
Clear Screen

98S710 Notification Event Transfer

Event Name *
Event Sequence *
Date From * To *

Event Status *
Event Type *

0	Event	EV	Event	Event		Event
P	Sequence	ST	Status	Name	Description	Date
	1187	03	Event ready for	EMPLOYEE1	Add Employee Event	12/21/09
	1186	03	Event ready for	EMPLOYEE1	Add Employee Event	12/21/09
	1185	05	Event complete	EMPLOYEE1	Add Employee Event	12/17/09
	1184	05	Event complete	EMPLOYEE1	Add Employee Event	12/17/09
	1183	05	Event complete	EMPLOYEE1	Add Employee Event	12/17/09
	1182	05	Event complete	EMPLOYEE1	Add Employee Event	12/17/09
	1181	06	Event in error	EMPLOYEE1	Add Employee Event	12/16/09
	1180	06	Event in error	EMPLOYEE1	Add Employee Event	12/16/09
	1179	06	Event in error	EMPLOYEE1	Add Employee Event	12/16/09
	1118	05	Event complete	NTY_000004	Add Employee Event	11/04/09
	1117	05	Event complete	NTY_000001	Add Employee Event	11/04/09
	1106	05	Event complete	NTY_000004	Add Employee Event	10/20/09
	1105	05	Event complete	NTY_000001	Add Employee Event	10/20/09
	1099	05	Event complete	NTY_000004	Add Employee Event	10/20/09
	1098	05	Event complete	NTY_000001	Add Employee Event	10/20/09

Opt: 1=Detail 2=Event Log F24=More Keys

7. To see the details of the Event, enter a 1 in the Option field and then press Enter.

Figure 6–7 Event Transfer Table - Detail screen

98S710D Event Transfer Table - Detail

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Audit Information
Exit Program
Batch Log Workbench
XML Document
Event Log Workbench
Clear Screen

98S710D Event Transfer Table - Detail

Event Status 03
Event Type EMP1

Event Name EMPLOYEE1 Add Employee Event
Event Sequence 1187 Event Date 12/21/09 Time 15:30:29

WW Query Group Q98S
WW Version EMPLOYEEERT Employee Real Time Events
Query User ID RM935746 Robert Morgan

F5=Batch Log F6=View XML F8=Event Log F24=More Keys

8. To see the XML payload for the transaction, select the View XML function key (F6). The transformed XML displays.

Figure 6–8 View IFS File screen

00VIFS View IFS File

Tools Help

ORACLE JD Edwards World

URL Document Email World Resources Support

Field Sensitive Help
Display Error Message
Display Functions
Exit Program
Go to Top
Go to Bottom
Window Left
Window Right
Clear Screen

00VIFS View IFS File

Position to Line 000001 Position to Column 001

Line1.....2.....3.....4.....5.....6.....7

000001 <?xml version = '1.0' encoding = 'UTF-8'?> <EmployeeInfo>

000002 <EmployeeName>Employee Add Record 1</EmployeeName>

000003 <EmployeeID>82587</EmployeeID>

000004 <EmployeeSocial/>

000005 </EmployeeInfo>

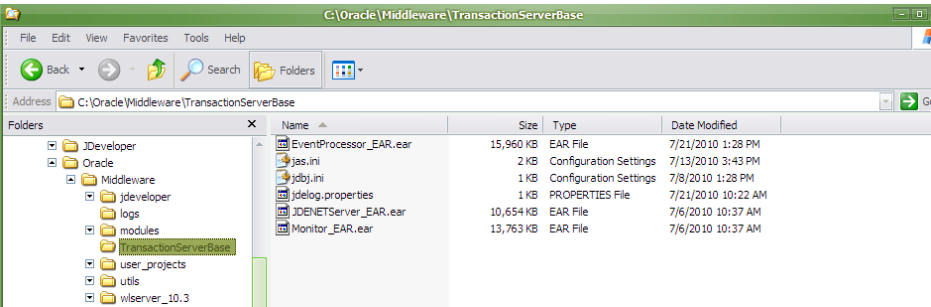
000006

F10=Top F11=Bottom F19=Window Left F20=Window Right F3=Exit

9. Once the transaction event is picked up by the Transaction Server the processing logs can be viewed on the WebLogic Server host machine. The logs can be found

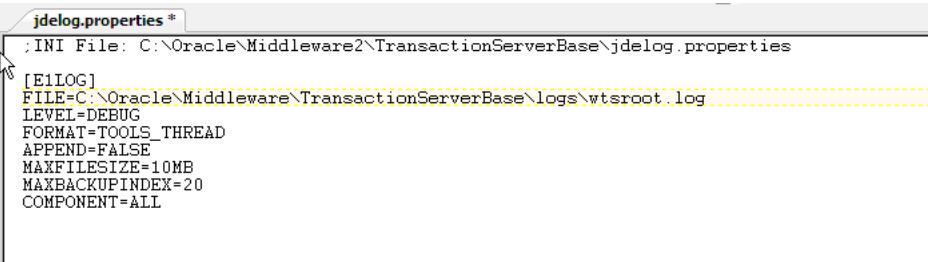
based on the settings in the jdelog.properties file in the install directory for the Transaction Server.

Figure 6–9 Transaction Server screen



10. The log files are defined by the FILE specification in the jdelog.properties file.

Figure 6–10 jdelog.properties screen



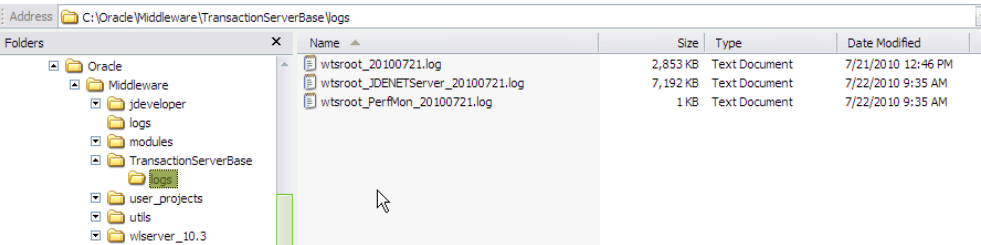
11. In the log directory, you see two to three different log files.

wtsroot_datestamp.log contains data from the main Transaction Server application.

wtsroot_JDENETServer_datestamp.log contains data from the JDENET Server application, which is not used for World Transaction Server

wtsroot_PerfMon_datestamp.log contains data from the Performance Monitor application, which is not used for World Transaction Server

Figure 6–11 Log Directory screen



The following graphic is a sample log.

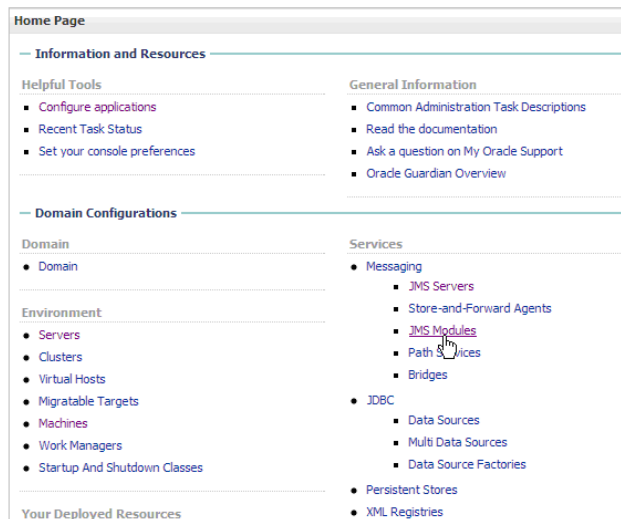
Figure 6–12 Sample Log

```

- [MANAGEMENT] Failed to create SCF Embedded Agent: jde.home not set.
- [BASE] Loading config from file C:\Oracle\Middleware2\TransactionServerBa
- [BASE] jas.ini load from C:\Oracle\Middleware2\TransactionServerBase\jas.
- [EVENTPROCESSOR] Looking for object java:comp/env/jms/com/peoplesoft/pt/e1/server/er
- [EVENTPROCESSOR] JNDI object java:comp/env/jms/com/peoplesoft/pt/e1/server/enterpri
- [EVENTPROCESSOR] Looking for object java:comp/env/jms/com/peoplesoft/pt/e1/server/er
- [EVENTPROCESSOR] JNDI object java:comp/env/jms/com/peoplesoft/pt/e1/server/enterpri
- [EVENTPROCESSOR] Trigger timer sending an event transfer trigger message
- [EVENTPROCESSOR] In TriggerTimerTask sendTrigger, message = ObjectMessage[null,com.
- [EVENTPROCESSOR] Starting event transfer agent trigger timer
- [EVENTPROCESSOR] Event transfer agent trigger timer started, interval = 10000
- [EVENTPROCESSOR] Preloading event caches
- [EVENTPROCESSOR] Starting loadSubscribers
- [EVENTPROCESSOR] In loadSubscribers, after connection = null
- [EVENTPROCESSOR] Starting getworldDefaultDBAccess
- [BASE] Loading config from file C:\Oracle\Middleware2\TransactionServerBa
- [JDBC] Bootstrap session user: SOAPROXY.
- [JDBC] Bootstrap session environment: A93TS.
- [JDBC] Bootstrap session role: JDED.
- [JDBC] Bootstrap session token: null.
- [EVENTPROCESSOR] getDefaultDBAccess using world
message[null,com.peoplesoft.pt.e1.server.enterprise.events.common.TriggerMessage@392cae]
- [EVENTPROCESSOR] Getting JDBC connection: jdbc:jded://JDED;translate binary =true;;
- [EVENTPROCESSOR] Creating world JDBC connection
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90706
message
message[null,com.peoplesoft.pt.e1.server.enterprise.events.common.TriggerMessage@2a3ceb]
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90711 WHERE EPUSER = 'WORLDQ00;
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90707 WHERE ENUSER = 'WORLDQ00;
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90707 WHERE SEUSER = 'WORLDQ00;
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90707 WHERE SNUSER = 'WORLDQ00;
- [EVENTPROCESSOR] Registering rte_monitoring_subscriber_info for Subscriber ID: WORL
- [EVENTPROCESSOR] rte_monitoring_subscriber_info MBean registered.
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90711 WHERE EPUSER = 'WORLDQ00;
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90707 WHERE ENUSER = 'WORLDQ00;
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90707 WHERE SEUSER = 'WORLDQ00;
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90707 WHERE SNUSER = 'WORLDQ00;
- [EVENTPROCESSOR] Registering rte_monitoring_subscriber_info for Subscriber ID: WORL
- [EVENTPROCESSOR] rte_monitoring_subscriber_info MBean registered.
- [EVENTPROCESSOR] Starting getworldDefaultDBAccess
- [EVENTPROCESSOR] getworldDefaultDBAccess using world
- [EVENTPROCESSOR] Getting JDBC connection: jdbc:jded://JDED;translate binary =true;;
- [EVENTPROCESSOR] Creating world JDBC connection
- [EVENTPROCESSOR] EXECUTING SQL QUERY: SELECT * FROM F90705
message
message[null,com.peoplesoft.pt.e1.server.enterprise.events.common.TriggerMessage@62d630]
- [EVENTPROCESSOR] Event caches preloaded
- [EVENTPROCESSOR] Starting AdaptorManager

```

12. In addition, you can monitor messages sent to the Employee Queue through the Weblogic Admin console. Login into the Admin Console and select the JMS Modules under the Messaging heading on the Home Page screen.

Figure 6–13 Admin Console (Home Page) screen

13. Select the JMS Module that the Employee Queue was set up under.

Figure 6–14 JMS Modules screen

JMS Modules

JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

This page summarizes the JMS system modules that have been created for this domain.

[Customize this table](#)

JMS Modules

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete Showing 1 to 1 of 1 Previous Next

Name	Type
JMSModule-TransServer	System

New Delete Showing 1 to 1 of 1 Previous Next

- On the Settings for JMS Modules screen, select the Employee Queue link.

Figure 6–15 Settings for JMS Module - Trans Server screen

Settings for JMSModule-TransServer

Configuration Subdeployments Targets Security Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: JMSModule-TransServer The name of this JMS system module. [More Info...](#)

Descriptor File Name: jms/jmsmodule-transserver-jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

[Customize this table](#)

Summary of Resources

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete Showing 1 to 6 of 6 Previous Next

Name	Type	JNDI Name	Subdeployment	Targets
DataReloadTopic	Topic	.jms.com/peoplesoft/pt/e1/server/enterprise/events/DataReloadTopic	JMSSubDeploy-TransServer	JMSServer1
DataReloadTopicConnectionFactory	Connection Factory	.jms.com/peoplesoft/pt/e1/server/enterprise/events/DataReloadTopicConnectionFactory	JMSSubDeploy-TransServer	JMSServer1
EmployeeConnectionFactory	Connection Factory	.jms/WorldConnectionFactory	JMSSubDeploy-TransServer	JMSServer1
EmployeeQueue	Queue	.jms/World/Employee	JMSSubDeploy-TransServer	JMSServer1
FSRQueue	Queue	.jms.com/peoplesoft/pt/e1/server/enterprise/events/FSRQueue	JMSSubDeploy-TransServer	JMSServer1

- On the Settings for Employee Queue screen, select the Monitoring tab. Select the checkbox beside the Employee Queue destination. Click Show Messages.

Figure 6–16 Settings for Employee screen

Settings for Employee

Configuration **Monitoring** Control Security Subdeployment Notes

A JMS destination identifies a queue (Point-To-Point) or a topic (Pub/Sub) that are targeted to a JMS server. This page summarizes the active JMS destinations that have been created for this JMS module.

[Customize this table](#)

Destinations (Filtered - More Columns Exist)

Show Messages Showing 1 to 1 of 1 Previous Next

Name	Messages Current	Messages Pending	Messages Total	Consumers Current	Consumers High	Consumers Total	Messages High
JMSModule-TransServerEmployee	3	0	2	0	0	0	3

Show Messages Showing 1 to 1 of 1 Previous Next

- On the Summary of JMS Messages screen, select one of the message links.

Figure 6–17 Summary of JMS Messages screen

Summary of JMS Messages

This page summarizes the available messages for a stand-alone queue, a distributed queue, or a topic durable subscriber. Use this page to view message details, create new messages, delete selected messages, move messages to another destination, export message contents in XML format to another file, import XML formatted message contents from another file, or drain all the messages from a destination.

Click on a message to view its contents.

Message Selector:

Apply

Customize this table

JMS Messages(Filtered - More Columns Exist)

NewDeleteMoveImportExport

Showing 1 to 3 of 3PreviousNext

ID	CorrId	Time Stamp	State String
ID: <910182.1279741675422.0>		Wed Jul 21 13:47:55 MDT 2010	visible
ID: <609769.1279832762453.0>		Thu Jul 22 15:06:02 MDT 2010	visible
ID: <609769.1279832995875.0>		Thu Jul 22 15:09:55 MDT 2010	visible

NewDeleteMoveImportExport

Showing 1 to 3 of 3PreviousNext

17. On the JMS Message Detail screen, the system displays the details of the message, including the XML data.

Figure 6–18 JMS Message Detail screen

JMS Message Detail

Message ID:

ID: <910182.1279741675422.0>

Type:

(No value specified)

Timestamp:

Wed Jul 21 13:47:55 MDT 2010

Priority:

4

Delivery Time:

(No value specified)

Delivery Mode:

Persistent

Correlation ID:

(No value specified)

Expiration:

(No value specified)

Redelivered:

false

Redelivery Limit:

-1

Properties:

key	value	type
JMSDeliveryCount	0	java.lang.Integer

Text:

<?xml version="1.0" encoding="UTF-8"?><Employee><EmployeeInfo><EmployeeName>Rob's Weblogic Test 17</EmployeeName><EmployeeID>83811</EmployeeID><EmployeeSocial /></EmployeeInfo></Employee>

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