

BEA WebLogic Adapter for SAP[®]

User Guide

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BEA WebLogic Adapter for SAP User Guide

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About This Document

The BEA WebLogic Adapter for SAP is organized as follows:

- Chapter 1, "Introducing the BEA WebLogic Adapter for SAP," introduces the BEA WebLogic Adapter for SAP and describes SAP business objects and WebLogic Integration.
- Chapter 2, "Creating Schemas for SAP Business Objects," describes how to use the BEA Application Explorer to generate schemas for your SAP business objects.
- Chapter 3, "Configuring the BEA WebLogic Adapter for SAP," describes how to configure the event adapter and service adapter.
- Chapter 4, "The BEA WebLogic Adapter for SAP and IDocs," describes how to configure and test SAP to send IDocs to the event adapter.
- Chapter 5, "Sending SAP Events Using ABAP Programs," describes how to send events programmatically using the BEA WebLogic Adapter for SAP.
- Appendix A, "Sample Files," provides sample request and response documents sent between SAP and the BEA WebLogic Adapter for SAP.

What You Need to Know

This document is written for system integrators who develop client interfaces between SAP and other applications. It describes how to use the BEA WebLogic Adapter for SAP in order to integrate SAP IDocs, RFCs, and BAPIs with WebLogic Integration. It is assumed that readers know Web technologies and have a general understanding of Microsoft Windows and UNIX systems as well as the WebLogic Integration and WebLogic Server infrastructure.

Related Information

The following documents provide additional information for the associated software components:

- BEA WebLogic Adapter for SAP Installation and Configuration Guide
- BEA WebLogic Adapter for SAP Release Notes
- BEA Application Explorer Installation and Configuration Guide
- BEA WebLogic Server installation and user documentation, which is available at the following URL:

http://edocs.bea.com/more_wls.html

BEA WebLogic Integration installation and user documentation, which is available at the following URL:

http://edocs.bea.com/more_wli.html

Contact Us!

Your feedback on the BEA WebLogic Adapter for SAP documentation is important to us. Send us e-mail at 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 SAP documentation.

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

If you have any questions about this version of BEA WebLogic Adapter for SAP, or if you have problems using the BEA WebLogic Adapter for SAP, contact BEA Customer Support through BEA WebSupport at www.bea.com. You can also contact Customer Support by using the contact information provided on the Customer Support Card that 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

Documentation Conventions

The following documentation conventions are used throughout this document.

Convention	Item
boldface text	Indicates terms defined in the glossary.
Ctrl+Tab	Indicates that you must press two or more keys simultaneously.
italics	Indicates emphasis or book titles.
monospace text	Indicates code samples, commands and their options, data structures and their members, data types, directories, and file names and their extensions. Monospace text also indicates text that you must enter from the keyboard. <i>Examples</i> : #include <iostream.h> void main () the pointer psz</iostream.h>
	chmod u+w *
	\tux\data\ap
	.doc
	tux.doc
	BITMAP
	float
monospace	Identifies significant words in code.
boldface	Example:
LEAL	void commit ()
monospace	Identifies variables in code.
italic	Example:
LEXL	String expr
UPPERCASE TEXT	Indicates device names, environment variables, and logical operators. <i>Examples</i> : LPT1 SIGNON OR

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Convention	Item
{ }	Indicates a set of choices in a syntax line. The braces themselves should never be typed.
[]	Indicates optional items in a syntax line. The brackets themselves should never be typed.
	Example:
	<pre>buildobjclient [-v] [-o name] [-f file-list] [-1 file-list]</pre>
	Separates mutually exclusive choices in a syntax line. The symbol itself should never be typed.
	Indicates one of the following in a command line:
	• That an argument can be repeated several times in a command line
	 That the statement omits additional optional arguments
	• That you can enter additional parameters, values, or other information
	The ellipsis itself should never be typed.
	Example:
	<pre>buildobjclient [-v] [-o name] [-f file-list] [-1 file-list]</pre>
	Indicates the omission of items from a code example or from a syntax line. The vertical ellipsis itself should never be typed.

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1 Introducing the BEA WebLogic Adapter for SAP

This section introduces the BEA WebLogic Adapter for SAP and describes SAP business objects and WebLogic Integration. It includes the following topics:

- WebLogic Integration
- How the BEA WebLogic Adapter for SAP Works

You can use the BEA WebLogic Adapter for SAP to mine your existing SAP business procedures and applications for reuse with other applications and to participate in distributed e-business processes. High-speed, low-impact access to SAP exposes the critical business logic, and the data contained within, for reuse. This is the key to building a successful e-business or integrated enterprise.

The BEA WebLogic Adapter for SAP is designed specifically to provide simple, standard access to business objects such as SAP Remote Function Call (RFC) modules, BAPIs (Business Application Programming Interfaces), and IDocs (Intermediate Documents), which are used to support existing business processes. These business objects are available to the service adapter as requests of SAP, and are available to the event adapter when SAP invokes its remote requests. They work in the following way:

- Remote Function Call (RFC) modules are sessions established from the calling application to the SAP system. A user ID is logged on and then a call is issued, triggering processing inside the call. When the call is processed it usually returns information, such as a return code and application data. The calling application waits for processing to complete, then receives the data. It continues processing, taking the result into account. It can even issue multiple RFCs during one session.
- Business Application Programming Interfaces (BAPIs) are interfaces within the business framework, which are used to link SAP components to one another or to third-party components. BAPIs are called synchronously and return information. For BAPIs, the client needs to do the appropriate error handling.
- Intermediate Documents (IDocs) are documents that are processed asynchronously– that is, no information is returned to the client. As soon as one asynchronous method is involved, the overall communication flow is asynchronous. As a result, the sender should not be on standby awaiting an answer.

The BEA WebLogic Adapter for SAP quickly and easily integrates your SAP IDocs, RFCs, and BAPIs via WebLogic Integration workflows. The adapter and WebLogic Integration provide all the functionality you need to integrate your mission critical SAP system with other enterprise applications. Adapter benefits include:

- Eliminating the need for custom coding.
- Running SAP IDocs, BAPIs, and RFCs both synchronously and asynchronously from WebLogic Integration.
- Allowing SAP to initiate bidirectional business process management workflows using the event adapter.
- Creating application views directly from SAP metadata using BEA Application Explorer.

- As a JCA and JMS-based service and event adapter, ensuring reusability from the entire WebLogic Server platform.
- Integrating SAP events and services with WebLogic Integration.

WebLogic Integration

WebLogic Integration is a single solution that delivers application server, application integration, business process management, and B2B integration for the enterprise. With its comprehensive business process management capabilities, WebLogic Integration provides a powerful J2EE, EJB, and XML-based business process engine that enables customers to design, execute, and optimize enterprise-wide business processes involving systems, applications, and human decision makers.

These enterprise-wide solutions require integration with both external and internal systems in order for projects to be successful. Some of these systems are packaged applications in which organizations have made a substantial investment of time and money. To justify the investments, these systems must be accessible from WebLogic Integration. While some user organizations attempt to manually integrate JCA-based connections to the packaged applications, and even achieve limited success in these efforts, most organizations take the recommendations of industry analysts in seeking out vendor-supplied application adapters.

SAP R/3 is probably the most widely used packaged application that must be accessible from WebLogic Integration for companies to successfully complete their integration projects. The BEA WebLogic Adapter for SAP allows an organization to fully integrate its SAP R/3, mySAP.com, SAP Markets, or SAP Portals application systems with virtually any other legacy system, DBMS, EDI, B2B, ERP, CRM, or SCM application on any platform.

How the BEA WebLogic Adapter for SAP Works

The paradigm that the BEA WebLogic Adapter for SAP uses includes application views, event adapters, and services adapters. An application view is a standard self-describing interface to an application. The BEA WebLogic Adapter for SAP services are exposed in WebLogic Integration Studio using design elements, or plug-ins, known as nodes. These include Task nodes, which specify the operations to be performed by a BEA WebLogic Adapter for SAP, and Event nodes, which set the business processes that occur when a specific event is "pushed" from the adapter.

For outbound processing, the BEA WebLogic Adapter for SAP is invoked from the Action node and will, in turn, perform a transaction against SAP using the IFR XML, BAPI, RFC, or IDoc interfaces. For inbound processing, the adapter converts the specific SAP event into an XML document that triggers the start of a business process.

The BEA WebLogic Adapter for SAP interfaces are exposed as application views, providing the XSD XML schemas for event, request, and response document schemas that are imported into the WebLogic Integration repository. Once WebLogic Integration Knows of these documents, they can be used in WebLogic Integration Studio and other WebLogic Integration tools. In addition, since application views are supported by the WebLogic Server strategy, the same BEA WebLogic Adapter for SAP can be leveraged by other WebLogic Server JCA-based applications to increase ROI.

The BEA WebLogic Adapter for SAP enables users to execute SAP IFR XML, IDocs, BAPI calls, and custom RFCs from WebLogic Integration as application views. To do this, the user creates the event, request, and response XML document schemas using BEA Application Explorer, which is implemented as a stand-alone Java Swing GUI. This GUI exposes all the components of your SAP system and enables you to select the ones for which you want to create an application view. By connecting the BEA Application Explorer to your SAP system, you can ensure that all the necessary communication and security information is gathered using SAP calls, and then stored in a WebLogic Integration Connection Factory database, to be used at execution time by the BEA WebLogic Adapter for SAP. This allows the application views to separate the business logic—contained in the XML event, request, and response documentsfrom the physical connection data, which is stored in the WebLogic Integration repository. This shields users from the details of executing SAP IFR XML, IDoc, BAPIs, and RFCs.

The deployed application view from BEA WebLogic Adapter for SAP has the following features:

- Support for Remote Function Calls (RFC), Business Application Programming Interfaces (BAPI), and Intermediate Documents (IDoc) interfaces to SAP. RFCs and BAPIs are called synchronously by the adapter and always return data (either technical error information or a well-formed response document). IDocs are processed asynchronously.
- Consistent data representation—a standard XML representation of event and service request/response documents for SAP. The developer is freed from the specific details of the SAP interface (BAPI, RFC, IDoc, IFR XML) and the specific configuration details of the target SAP system.
- XML validation. The schemas used by WebLogic Integration are validated against SAP Business Object Repository (BOR) to ensure that each message conforms to the correct configuration of the target SAP system. Since the schemas are built dynamically from the target SAP system, this all but eliminates the possibility of errors in formatting or executing SAP requests.
- Adheres to SAP ABAP serialization rules and SAP Interface Repository standards published by SAP AG.

Besides being able to run SAP IFR XML, IDocs, BAPIs, and RFCs from WebLogic Integration, the adapter can also receive RFCs and IDocs directly from SAP and make them available to WebLogic Integration. The SAP system can be configured to send an IDoc or RFC out to a logical system when a certain event occurs. The output sent by SAP can be in any of these forms:

- An RFC request—for example, RFC_CUSTOMER_GET.
- A BAPI request—for example, BAPI_COMPANYCODE_GETLIST.
- An IDoc as an XML document—for example, DEBMAS01.
- An IDoc in raw data form.

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2 Creating Schemas for SAP Business Objects

This section describes how to use the BEA Application Explorer to generate schemas that describe your SAP business objects. It contains the following topics:

- Overview
- Generating Schemas Using the BEA Application Explorer

Overview

The BEA WebLogic Adapter for SAP, in order to interact with your SAP business objects, requires schemas describing those objects. You can generate the schemas using the BEA Application Explorer:

- 1. Specify the directory in which you want the schemas to reside.
- 2. Browse your SAP system to identify the business object for which you want to create a schema.
- 3. Generate the schema.

You can create an event schema describing the data that the SAP system sends to the event adapter, or a pair of request and response schemas for service calls from the service adapter to SAP. **Note:** It is important to understand that the connection information and the event, request, and response schema information that you enter and that is created by the BEA Application Explorer, directly affects the connections, events, and services available to the BEA WebLogic Adapter for SAP.

Service adapter requests are Remote Procedure Calls (RPCs) sent by the service adapter to SAP for execution. The request runs a process through the application system connection. The request specifies input parameters that are described by its request schema. For each adapter, the BEA Application Explorer displays summary information and request details. The service request expects a response, called a service adapter response.

Service adapter responses are answer sets returned from the application system connection in response to a service request. SAP uses service responses to return results to the service adapter. A service response is described by its service response schema.

Events are requests arriving from SAP that are triggered by SAP activity. For example, a call center worker may enter a purchase order or update a customer record through a GUI screen connected directly to SAP. This SAP event may trigger a process that makes a remote call to the BEA WebLogic Adapter for SAP, which arrives at the event adapter.

Business Objects are the available SAP RFC modules, BAPI methods, and IDocs that appear in the BEA Application Explorer when you connect to the SAP system.

For comprehensive information about the BEA Application Explorer, see the BEA Application Explorer *Installation & Configuration Guide*.

Generating Schemas Using the BEA Application Explorer

To generate schemas for an SAP business object using the BEA Application Explorer:

- 1. Open the BEA Application Explorer:
 - From the Windows Start menu, navigate to the Programs menu and choose the command for the BEA Application Explorer.
 - On other platforms, run the startup script beabse.sh or Java command java com.ibi.common.ui.StartPanel.



Figure 2-1 BEA Application Explorer Initial Window

2. From the File menu, choose Session to change the default session path.

The session path is where the schemas you are created will be stored.

Ge BEA Application Explorer	_ 🗆 ×
File View Help	
Exit R	
Applications SAP Siebel File	
Session Path: D:\bea\bse\sessions\default	

Figure 2-2 BEA Application Explorer Window - Selecting Session from File

3. Enter a session path. You may want to specify one that corresponds to your project or logical grouping of services and events.



Enter Session Path	×
Please enter the directory path for this session	
D:\bea\bse\sessions\fi_dev	
OK Cancel	

4. Right-click SAP and choose New Connection to create a new connection, or Existing Connection and the specific connection for an existing connection.

If you specified an existing connection, skip ahead to step 8; otherwise, continue with step 5.

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5. Enter a descriptive name for this connection and click OK.

Figure 2-5 Enter New Connection Name Input Window



6. Enter the appropriate connection information in the System and the User tabs.

7. Click OK when completed.

Figure 2-6 SAP Logon Window - System Tab

Sap Logon	×
System User	
Application Server	
System Number	
,	
OK Cancel	

Figure 2-7 SAP Logon Window - User Tab

Sap Logon	×		
System User			
Client			
User			
Password			
Language	EN		
OK Cancel			

- 8. Select a type of business object, browse its objects, and select the object for which you wish to create a schema. Note that:
 - BAPIs are listed under Application Components.
 - RFCs are listed under Remote Function Modules.
 - IDocs are listed under IDOC Repository.



SEA Application Explorer	_ 🗆 🗵
<u>File View H</u> elp	
54 X 🔂 🖺 🕐	
G Applications	
💡 🖽 SAP	
💡 📴 SAPIDES	
👁 📑 Application Components	
Remote Function Modules	
IDOC Repository	
Siebel	
TI File	
Session Path: D:\bea\bse\sessions\fi_dev	

In this example, navigate through Application Components into Financial Accounting, Company and select the BAPI named BAPI_COMPANY_GETDETAIL.

9. Right-click the desired business object to create the service schema or event schema.

Figure 2-9 BEA Application Explorer - Selecting a BAPI and Choosing Creating Service Schema

BEA Application Explorer		×
<u>File View H</u> elp		
5 X 2 2		
 ♥ ➡ Financial Accounting ♥ ∰ CompanyCode ♥ ∰ Company ♥ ∰ Company ➡ COMPANYID ♥ ➡ BAPL COMPANY GETDETAIL 	Business API (BAPI)	
GOMPANYID	Create Service Schemas	
COMPANY_DETAIL	Create Event Schema	
RETURN RETURN PAPI_COMPANY_GETLIST BAPI_COMPANY_GETLIST BAPI_COMPANY_EXISTENCE DESCRIPTION AGENTS COMPANYCODE COMPANYCODE CONSOLIDATIONUNIT CONSOLIDATIONAREA FunctionalArea Debtor Creditor ConeralLedgerAccount ConeralLedger Accounting	Description Company Details Parameter Count 2	
Consolidation	■ Dialog Static	
Session Path: D:/bea/bse/sessions/fi_dev		

After the schemas are created, the right pane displays the different schemas when you select the appropriate tabs.



Figure 2-10 BEA Application Explorer - Displaying the BAPI's Schemas

The following is a sample directory structure generated for the SAP connection named SAPIDES under the session named fi_dev.





The generated metadata includes a manifest file (manifest.xml), the service request schema (service_BAPI_COMPANY_GETDETAIL.xsd), the response schema (service_BAPI_COMPANY_GETDETAIL_response.xsd), and the event schema (event_BAPI_COMPANY_GETDETAIL.xsd).

The following is a sample of the generated manifest.xml file.

Figure 2-12 Manifest.xml File

The BEA WebLogic Adapter for SAP uses the manifest.xml file and accompanying schema(s) to connect to and define the interaction with the application system from an application view. The location of this repository is pointed to in configuration of the adapter during application view creation, as described in Chapter 3, "Configuring the BEA WebLogic Adapter for SAP." During creation of a service or an event, this manifest and the accompanying schemas define the interaction with the EIS.

The following is a sample request schema generated for an SAP BAPI.

Figure 2-13 Sample Request Schema

```
<xsd:schema targetNamespace="urn:sap-com:document:sap:business"</pre>
  <xsd:element name="Company.GETDETAIL">
    <xsd:complexType>
      <xsd:all>
        <xsd:element name="COMPANYID" minOccurs="1">
          xsd:simpleType>
            <xsd:restriction base="xsd:string">
              <xsd:maxLength value="6"/>
            </msd:restriction>
          </xsd:simpleType>
        </r></xsd:element>
      </msd:all>
      <xsd:attribute name="COMPANYID">
       xsd:simpleType>
          (xsd:restriction base="xsd:string")
            <xsd:maxLength value="6"/>
          </restriction>
       </xsd:simpleType>
      </ sd:attribute>
   </xsd:complexType>
  </ xsd:element>
</xsd:schema>
```

3 Configuring the BEA WebLogic Adapter for SAP

This section describes how to create, configure, and test event adapter application views and service adapter application views. It includes the following topics:

- Creating an Application View Folder
- Event Adapter Application Views
- Service Adapter Application Views

Creating an Application View Folder

Application views reside within WebLogic Integration. WebLogic Integration provides you with a root folder in which you can store all of your application views. If you wish, you can create additional folders to organize related application views into groups.

To create an application view folder:

1. Open the Application View Console, which is found at the following location:

http://host:port/wlai

Here, *host* is the TCP/IP address or DNS name where WebLogic Integration Server is installed, and *port* is the socket on which the server is listening. The default port at the time of installation is 7001.

- 2. If prompted, enter a user name and password.
 - **Note:** If the user name is not system, it must be included in the adapter group. For more information on adding the administrative server user name to the adapter group, see the *BEA WebLogic Adapter for SAP Installation and Configuration Guide.*
- 3. Click Login.

The WebLogic Integration Application View Console opens.

Figure 3-1 WebLogic Integration Application View Console Window

WebLogic Integra	ble	be a	
Server Configuration W	ebLogic Console		Glossary Logout
Folder: Root 🖻) 💣		
Name	Status	Action	
Add Applicat	ion View		

4. Double-click the new folder icon. The Add Folder window opens.

Figure 3-2 Application View Console Window

🖉 Application View Console - Microsoft Internet Explorer	_ 🗆 🗵
i be a	
Add Folder	
New Folder SAP	
Save Cancel	

5. Enter a name for the folder and click Save.

You have finished creating the application view folder. To create a service adapter application view, see "Configuring a Service Adapter Application View" on page 3-4. To create an event adapter application view, see "Event Adapter Application Views" on page 3.

Event Adapter Application Views

Event adapters allow WebLogic Integration to receive incoming events and associated documents. The following topics describe how to configure an event adapter for SAP.

Creating the Event Adapter Application View

To create an event adapter application view:

1. Open the Application View Console, which is found at the following location:

http://host:port/wlai

Here, *host* is the TCP/IP address or DNS name where WebLogic Integration Server is installed, and *port* is the socket on which the server is listening. The default port at the time of installation is 7001.

2. Select the desired Application View folder.

Figure 3-3 Application View Folder Window

Appli	cation	View	Console -	Microso	oft Interr	net Exp	orer			_	
<u> </u>	<u>E</u> dit	⊻iew	F <u>a</u> vorites	<u>T</u> ools	<u>H</u> elp						1
Address	🔊 h	ttp://bo	osrep1:7001/	/wlai/inde	ex.jsp					•	¢Go
Applic	atior	ı Viev	v Consol	e						be) _ a_
Folde	e r: Ro	ot	e 💣						Glos	sary Lo	
Name				Statu	s		A	ction			
SA SA	P										
A	∖dd Aţ	oplica	tion View								
											-
(- 👘 I	Local intr	anet	

- 3. Click Add Application View in the Application View Console. The Define New Application View window opens.
- 4. Enter a name and description for the application view.

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5. Select BEA_SAP_1_0 from the Associated Adapter list.

Figure 3-4 Define New Application View Window



6. Click OK. The Configure Connection Parameters window opens.

The Configure Connection Parameters window enables you to enter the information required to communicate with the EIS system.

For SAP, the required communication and schema information was created in the BEA Application Explorer. The location of the base session repository appears on this screen to access this information.

7. Enter the base directory holding your SAP connection and schema information.

Figure 3-5 Configure Connection Parameters Window

Configure Connection	Parameters - Microsoft Internet Explorer 📃 🗖 🗙					
∫ <u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> v	rorites <u>I</u> ools <u>H</u> elp					
Address 🙆 http://bosrep1:7001/BEA_SAP_1_0_Web/display.jsp?content=confconn 💽 🄗 Go						
Configure Connection	n Parameters					
	Application View Console WebLogic Console Glossary Logout					
Configure Connection Administration	On this page, you supply parameters to connect to your EIS					
Add Service Add Event Deploy Application View	The BEA Application Explorer generates schema information for a session stored at a location that must be known to the general adapter. Enter this session location here. A session can support multiple connections.					
	Example: If a session was stored at location c:/sess for the test SAP connection, enter session path <i>c:\sess</i> and connection name <i>test</i> .					
	Session D:\bea\bse\sessions\default Connection name* Connect to EIS					
🛃 Done	🗾 🔤 Local intranet					

After adding an application view, the Application View Administration window opens.

Figure 3-6 Application View Administration Window

🖉 Application View Administration for SapEvent - Microsoft Internet Explorer 📃 🗖 🗙					
Eile Edit View Favo	orites <u>T</u> ools <u>H</u> elp	Links »			
Application View Administration for SapEvent					
Configure Connection Administration	Application View Console WebLogic C This page allows you to add e	onsole Glo events and/or services to an application view.			
Add Service Add Event	Description:	No description available for SapEvent. <u>Edit</u>			
Deploy Application View	Connection Criteria Connection Name: Additional Log Category: Log Level: Root Log Category: Session Path: Message Bundle Base: Log Configuration File: Reconfigure connection param Events	IDES46 SapEvent WARN BEA_SAP_1_0 J:\Program Files\BEA Systems\BEA Application Explorer\sessions\default BEA_SAP_1_0 BEA_SAP_1_0 BEA_SAP_1_0.xml			
	Services				
Save 💡					

This window is also available at any time while the application is not deployed, and if deployed can be accessed by "undeploying" the application.

Creating an SAP Remote Destination

To enable your SAP system to issue remote function calls (RFCs) or BAPIs to the SAP event adapter, you must define an RFC destination on the SAP system. This process is also required when you want an SAP system to send IDocs to the SAP event adapter. You start with the SAP GUI product. The first step is the creation of an RFC destination.

The RFC destination is a symbolic name specifying the target system for an RFC. The RFC destination must be configured to connect to the SAP event adapter. Create an RFC destination called BEASAPDEST.

- 1. Start the SAPGUI and log on to the SAP System.
- 2. Choose Tools \rightarrow Administration \rightarrow Administration \rightarrow Network \rightarrow RFC destinations.
- 3. Execute transaction /nsm59 into the transaction field (Transaction SM59).
- 4. Right-click TCP/IP connections and select Create.
| Figure 3-7 | RFC Destinations | Windows |
|------------|-------------------------|---------|
|------------|-------------------------|---------|

⊡ <u>R</u> FC <u>E</u> dit <u>G</u> oto S <u>v</u> stem <u>H</u> elp	
🕑 🚺 🖉 🔛 🖉 🚱 🗎	
Display and maintain RFC destinations	
Create Change Delete Find	
RFC destinations	
└──Œ Connections via ABAP/4 driver	
	🕨 146 (1) (800) 🛅 esdsun2 OVR 🏑

⊡ ⊡ ⊠ SAP	
	2
RFC Destination	
Test connection	
RFC destination BEAEVENTDEST	
Technical settings	
Connection type T New entry Trac	e
Description	
RFC Destination for BEA Event Adapter for SAP on IDES	
Logon	
Language	
Client	
User Current user	
Password Canada Is still blank Dencrypted password (2.0)	
▶ 46 (1) (800) 📧 esdsun2	OVR

Figure 3-8 RFC Destination for BEA Event Adapter for SAP Window

- In field RFC destination, enter a name, for example, BEAEVENTDEST.
 Note: This is case sensitive.
- 6. Enter T in the field Connection type (destination type TCP/IP).
- 7. Enter comments in the Description section.
- 8. Click Change on the toolbar or choose Save from the Destination menu.

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The following window opens.

	Figure 3-9	RFC Destination	BEAEVENTDEST	Window
--	------------	------------------------	--------------	--------

년 De	tination <u>Sy</u> stem information <u>T</u> est System <u>H</u> elp SAP	
0		
RF	Destination BEAEVENTDEST	
Test	connection	
RF	destination BEAEVENTDEST	•
Tec C Ad	nical settings nnection type T TCP/IP connection vation Type Start Registration Trace	
S	Application server Explicit host Front-end workstation	
	Application server Program	•
0	estination BEAEVENTDEST saved 🛛 🕑 146 (1) (800) 🖻 esdsun2 OVR 🖉	

- 9. Click Registration as Activation Type.
- 10. In field Registration Program ID field, type BEAID.

11. Click Change on the toolbar or choose Save from the Destination menu.

Figure 3-10 Destination Menu Window

<u>D</u> e	estination <u>S</u>	}ystem inform	ation <u>T</u> est	System	<u>H</u> elp		SAP	
Ø			ē (🛛	C 🙆	😒 🖴	日日 (1)		
RF	C Destin	ation BE	AEVENT	DEST				
Tes	t connection							
RF	C destinatior	n B	EAEVENTDES	ïΤ				
Teo	chnical setting	gs De T	TCP/IP conno	ection				
A	ctivation Type	•	Start]	Regis	tration	🗌 Trad	e -
F	Registration							
	Program ID	BEAID						
0	Destination B	EAEVENTDE	ST saved		D	146 (1) (800)	esdsun2 🕨	

•

•

12. From the Destination Menu, choose Gateway options.

2										ALC: NO
 	ation <u>S</u> yste	em inform:	ation	<u>T</u> est	System	<u>H</u> elp			SAP	
C Oth	er destin <u>a</u> tio	on	1	4 📙	I 😋 🙆	😣 📮	的協	8 VII		
R Cha	ange	Ctrl+S	AE	/ENT	DEST					
Cr <u>e</u>	ate									
)y -+-	01.34.50								
Gat	ete	sniπ+F2 «								
	C options	° R	AEVE	INTDES	3T					
MQ	3 options									
	C options									
Exit	:	Shift+F3	ICP/I	P conn	ection					
Activat	tion Type	(S	tart]	Regis	stration	7	🗌 Tr	ace
		Ì			~			_		
Regi	stration									
Pro	gram ID	BEAID								

Figure 3-11 Gateway Options Window

- 13. Enter the host name of the machine in field Gateway host.
- 14. Enter sapgw and the SAP system number in field Gateway service, for example, sapgw00.

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 \triangleright

15. Click OK.

Figure 3-12 Gateway Host and Service Window

G	RFC Destination BEA	EVENTDEST	\boxtimes
	RFC destination	BEAEVENTDEST	
	Туре	T TCP/IP connection	
	Gateway host	esdsun2	
	Gateway service	sapgw00	
		O.K. Delete	

Configuring the Event Adapter Application View

The event adapter application view contains all events that are expected to arrive at this instance of the event adapter. As such, many services may be added to the application view. For all events that should be handled by this adapter, add a service for each.

To configure the event adapter application view:

- 1. If it is not already open, open the application view to be modified. For more information, see "Editing an Application View" in "Defining an Application View" in *Using Application Integration*:
 - For WebLogic Integration 7.0, see http://edocs.bea.com/wli/docs70/aiuser/2usrdef.htm
 - For WebLogic Integration 2.1, see http://edocs.bea.com/wlintegration/v2_1sp/aiuser/2usrdef.htm
- 2. If the application view is deployed, you must undeploy it before adding the service. See "Optional Step: Undeploying an Application View" in "Defining an Application View" at the URL referenced in the previous step.
- 3-14 BEA WebLogic Adapter for SAP User Guide

- 3. In the left pane, click Administration from the Configure Connection list. The Application View Console Administration window opens.
- 4. Click Add Event. The following window opens.

Figure 3-13 Application View Console Administration Window

Application View Admi	inistration for SAP.SAPEvent - Micr	osoft Internet Explorer	
<u>File E</u> dit ⊻iew F <u>a</u> vi	orites <u>T</u> ools <u>H</u> elp		1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 - 1980 -
Address 🛃 http://bosrep1	:7001/BEA_SAP_1_0_Web/display.jsp?c	content=appvwadmin&qualitiedAppViewName=SAP.SAPEvent	💌 🔗 Go
Application View Adm	ninistration for SAP.SAPEvent		<u>(bea</u>
Configure Connection	Application view Console ViebLogic C	onsole	Glossary Logout
Administration	This page allows you to add e	events and/or services to an application view.	
Add Service Add Event	Description:	BEA Adapter for SAP - Event Edit	
Deploy Application View	Connection Criteria bseeis: Additional Log Category: Root Log Category: bselocation: Message Bundle Base: Log Configuration File: Reconfigure connection param	SAPIDES SAPEvent BEA_SAP_1_0 D:\bea\bse\sessions\default BEA_SAP_1_0 BEA_SAP_1_0 BEA_SAP_1_0.xml neters for SAPEvent	Add
	Services		Add
	<u>.</u>	Seve 🦞	
Done			📃 🔤 Local intranet 🅢

The values that appear in the window are based on the connection information originally used in the Application Explorer. You are free to change these design time values for your particular run-time behavior.

The settings on this window correspond to the TCP connectivity that the adapter creates with SAP to receive SAP events in BAPI, RFC, or IDoc format.

- gwhost: Host name of the machine running SAP gateway server.
- gwserv: SAP gateway server.
- progid: RFC program ID created previously (for example, BEAID).
- sapclient: SAP Client.
- sapuser: Associated SAP user name.
- sappasswd: Associated SAP user's password.
- saplang: Your desired SAP language, for example, EN for English.
- sapashost: Host name of the machine running SAP application server.
- sapsysnr: SAP system number.
- active: A flag indicating whether this event adapter should be active.

The schema drop-down list box corresponds to the manifest generated for you during your BEA Application Explorer session. All event schemas created during the session should be listed.

5. Select Add and then, Continue, from the Application View Administration window.

Figure 3-14 Application View Administration Window

Application View Admini	istration for SAP.SAPService - Mic	crosoft Internet Explorer	
∫ <u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vori	tes <u>T</u> ools <u>H</u> elp		
Address 🛃 http://bosrep1:7	'001/BEA_SAP_1_0_Web/display.jsp?c	ontent=appvwadmin&qualifiedAppViewName=SAP.SAPService	💌 🤗 Go
Application View Admi	nistration for SAP.SAPService		bea
Configure Connection 7 Administration	philoation view console — weblogic of This page allows you to add e	avents and/or services to an application view.	Gibssary Loguur
Add Service Add Event	Description:	BEA Adapter for SAP - Service Edit	
Deploy Application View	Connection Criteria bseeis: Additional Log Category: Root Log Category: bselocation: Message Bundle Base: Log Configuration File: Reconfigure connection param Events	SAPIDES SAPService BEA_SAP_1_0 D:\bea\bse\sessions\default BEA_SAP_1_0 BEA_SAP_1_0.xml neters for SAPService	Add
		Save 9	
			_
🙋 Done			📃 💭 Local intranet

6. Select Continue to display the Deploy Application View window.



Figure 3-15 Deploy Application View Window

7. If required, update the settings, and click Deploy to save and deploy the event adapter.

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In the WebLogic Server log or command console, you should see the following entries as the event adapter starts up.

🖸 WebLogic -start - startweblogic	
	-
DEBUG 21 Jul 2002 02:37:19,472 BEA_SAP_1_0 - SAPSYS: Protocol SAP	
DEBUG 21 Jul 2002 02:37:19,582 BEA_SAP_1_0 - SAPSYS: retry = [default] 600	
DEBUG 21 Jul 2002 02:37:19,582 BEA_SAP_1_0 - SAPSYS: precedence = [dict] 2	1.00
DEBUG 21 Jul 2002 02:37:19,582 BEA_SAP_1_0 - SAPSYS: encoding = [dict] ISO-8859-1	
DEBUG 21 Jul 2002 02:37:19,582 BEA_SAP_1_0 - SAPSYS: sappasswd = [dict] JULY4	
DEBUG 21 Jul 2002 02:37:19,582 BEA_SAP_1_0 - SAPSYS: gwhost = [dict] esdsun2	
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: sapclient = [dict] 800	
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: duration = [default] 86400	
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: agent = [dict] COPY	1.00
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: sapsysnr = [dict] 00	
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: gwserv = [dict] sapgw00	1.00
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: saplang = [dict] EN	
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: count = [dict] 1	
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: sapuser = [dict] IBI	1.00
DEBUG 21 Jul 2002 02:37:19,592 BEA_SAP_1_0 - SAPSYS: timeout = [default] 2	
INFO 21 Jul 2002 02:37:19,602 BEA_SAP_1_0.EventGenerator - event generator com.ibi.beajca.	ev
DEBUG 21 Ju] 2002 02:37:19,622 BEA_SAP_1_0 - SAPSYS: sapashost = [dict] esdsun2	1.00
DEBUG 21 Jul 2002 02:37:19,983 BEA_SAP_1_0 - SAPSYS: progid = [dict] BEAID	
DEBUG 21 Jul 2002 02:37:20,003 BEA_SAP_1_0 - Starting up with interval 60 seconds	
DEBUG 21 Jul 2002 02:37:22,666 BEA_SAP_1_0.DesignTime 95YFvAHzvvpNK7Xp4rE41fKEkYJK2Cl81NVr2D	Yn
232679519:system[platform=Windows, browser=MS Internet Explorer, version=5.5] - controller >	>
template=adapter&qualifiedAppViewName=SAP.SAPEvent	
	-
	F //

Figure 3-16 WebLogic Server Log Window

There should be two created and deployed application views now visible, one for the service adapter and one for the event adapter.

	r console - r	1101030	it internet Exploi	er	_ []]
<u>F</u> ile <u>E</u> dit ⊻iew	Favorites	∐ools	Help		15
Address 🛃 http://b	osrep1:7001/	wlai/displ	lay.jsp?content=NSI	Hierarchy&qualifiedNam 💌	∂Go
Application Vie	w Consol	e		<u>í</u> b	ea Ba
				Glossary	Logout
Folder: Root -:	> SAP 🖪				
Name			Status	Action	
Name SAPAdapter			Status Deployed	Action	r.
Name D SAPAdapter SAPEvent			Status Deployed Deployed	Action	1
Name SAPAdapter SAPEvent Add Applice	ation View		Status Deployed Deployed	Action	1

Figure 3-17 Application View Console Window

At this point, you can test your service adapter as described in "Testing the Event Adapter in the Application View Console" on page 3-21 and "Testing the Event Adapter in Studio" on page 3-26.

Testing the Event Adapter in the Application View Console

After you create and deploy an event adapter application view as described in "Creating the Event Adapter Application View" on page 3-4 and "Configuring the Event Adapter Application View" on page 3-14, you can test its events.

After deployment, the Summary for Application View window opens.

1. Click Test for the service configured in the service adapter.

Figure 3-18 Summary for Application View Window



You manually invoke the request from SAP to the SAPEvent event adapter.

2. From the test screen, enter a suitable wait time (in milliseconds, for example, 30,000 or 30 seconds) to enable you to navigate to SAP GUI and invoke the remote function call.

Figure 3-19 Test Event Window

🥭 Test	t Eve	nt: SAP	Event - Mie	crosoft	Internet	Explorer					_ 🗆 ×
Eile	Edit	⊻iew	F <u>a</u> vorites	Tools	Help						-
Addres	s 遵	http://b	osrep1:7001/	/IWAYS(FTWARE	_IWAY_1_0_V	/eb/display.jsp′	?content=te	stevent&test	Type=ev 🔻	∂Go
Test E	ivent	: Sape	vent							6 b	ea î
			Applic	ation ∀ie	w Consol	e WebLogic	Console			Glossary	Logout
Summ	ary		This invo	page king a	allows ; service	you to test a, or by ma	an event. nually crea	You ma iting the	y create event.	the even	nt by
			If y the Opt EIS ada	ou wa Servi tionally provio apter u	nt to u ce optio , you c des (for sed to	se a servic on below, a an create example a insert a ne	e invocatio nd select t the event r n interactiv w row to c	n to cre he servi manually /e SQL t reate ar	ate an ev ce to invi using an ool for th insert ev	vent, sele oke. y tools y e DBMS vent).	our
			Hov	w do y	ou wan	t to create	the event	?			
			Eith or f cre	ner the this ad ate yo	ere are apter d ur ever	no services loesnt supp nt manually	for this ap ort service	plicatior testing	n view, . You will	need to	
			Hov Tim	v long ie (in r	should nilliseco	we wait to inds): 300	receive th	e event	?		
			Tes	st							-
😂 Don	e								😓 Loc	cal intranet	1

In the SAP Server, the transaction /nSE37 displays the following screen where you can send RFCs to any logical system; in this case to the BEA WebLogic Adapter for SAP with an SAP event adapter configured for Program ID BEAID.

From SAP GUI:

- 1. Execute transaction /nSE37.
- 2. Select a function module, for example, RFC_CUSTOMER_GET.

Figure 3-20 Function Builder: Initial Window

区 Eunction module Edit Goto Utilities Environment System Help	SAP
🖉 🔲 🖉 🖓 🔛 🛗 🛗 🛗 🖓 🖓 🔛 🔤	
Function Builder: Initial Screen	
🖓 🔭 🖼 📋 🗊 🕼 😥 Reassign	
🗞 Display 🦉 Change 🗋 Create	

- 3. Choose single test (PF8).
- 4. Enter RFC target system, for example, BEAEVENTDEST.
- 5. Enter input data for the particular RFC module; for example, Auto* in NAME1.

6. Execute (PF8).

Figure 3-21 Test Function Module: Initial Window

E Eunction modules Edit Goto Utiliti	es System Help					
🕑 🛛 🖉						
Test Function Module: Initial Screen						
🕒 🕒 Debugging 🔮 Test data dire	ctory					
Test for function group RFCX Function module RFC_ Upper/lower case	CUSTOMER_GET					
RFC target sys: BEAE	VENTDEST					
Import parameters	Value					
KUNNR NAME1	Auto*					
Tables	Value					
CUSTOMER_T	🚹 0 Entries					
	• •					
	D 146 (1) (800) 🖪 esdsun2 OVR //					

7. A results screen appears with an RFC XML document sent to the BEA WebLogic Adapter for SAP.

Figure 3-22 Test Result for ListCustomer Window

🛃 Test Result fo	ListCustomer - Microsoft Internet Explorer	. 🗆 🗡
<u>Eile E</u> dit ⊻ie	v Fgvorites Iools <u>H</u> elp	1
Address 🛃 http:/	/bosrep1:7001/BEA_SAP_1_0_Web/display.jsp?content=testrslt&testType=event&eventN 💌	∂Go
Test Result for	ListCustomer	a
	Application View Console WebLogic Console Glossary Lo	ogout
Summary	This page shows the results from testing a event.	
	Generated event of type ListCustomer on application vie SAP.SAPEvent	~
	<pre><?xml version="1.0"?> <!DOCTYPE doc:RFC_CUSTOMER_GET> <doc:rfc_customer_get xmlns:doc="urn:sap- com:document:sap:business:rfc"></doc:rfc_customer_get></pre>	
et Done	Execution time: 4566 (ms)	
Done	gg Local Intranet	14

You can now write custom code to exploit the adapter or create a process flow in Studio. For more information, see "Using Application Views in the Studio" in *Using Application Integration*:

- For WebLogic Integration 7.0, see http://edocs.bea.com/wli/docs70/aiuser/3usruse.htm
- For WebLogic Integration 2.1, see http://edocs.bea.com/wlintegration/v2_1sp/aiuser/3usruse.htm

Testing the Event Adapter in Studio

After you create and deploy an event adapter application view as described in "Creating the Event Adapter Application View" on page 3-4 and "Configuring the Event Adapter Application View" on page 3-14, you can test its events.

A completed event adapter can be tested using the WebLogic Integration Studio.

1. Create a new template.



Figure 3-23 New Template Window

From the Start Properties form:

- 2. Choose Event \rightarrow AI Start and select the SAP event adapter.
- 3. Create a <new> Event Document Variable and type a name. This variable enables you to monitor the values passed into the workflow.
- 4. After the workflow configuration is complete, save the template.

After you save the template, you may monitor the running instances (right-click the template and select Instances).

itart Properties	x
Description	
Start	
C Timed C Manual C Called	C Event Al Start
Root SAP B-SAPAdapter SAPAdapter SAPEvent RFC_CUSTOMER	Name: RFC_CUSTOMER_GET Description: Condition:
	Event Document Variable: RFC Refresh Tree View Definition
Start Organization ORG1	
Variables Actions Next Notes	
Variable Expre	Add Update Delete
	OK Cancel Help

Figure 3-24 Start Properties Form Window

Service Adapter Application Views

This section describes how to create, configure, and test a service adapter application view. Service adapters allow WebLogic Integration to request information from SAP.

Creating a Service Adapter Application View

To create a service adapter application view:

- Log on to the Application View Console at //appserver-host:port/wlai. Here, appserver-host is the IP address or host name on which the WebLogic Integration Server is installed, and port is the socket on which the server is listening. The port, if not changed during installation, defaults to 7001.
- 2. If prompted, enter a user name and password.
 - **Note:** If the user name is not system, it must be included in the adapter group. For more information on adding the administrative server user name to the adapter group, see the *BEA WebLogic Adapter for SAP Installation and Configuration Guide.*
- 3. Click Login.

The WebLogic Integration Application View Console opens.

- 4. Select the desired application view folder.
- 5. Click Add Application View.

The Define New Application View window opens.

6. Enter a name and description for the application view.

7. Select BEA_SAP_1_0 from the Associated Adapter list.

Figure 3-25 Define New Application View Window

Application V	iew Console - Micro	soft Internet Explorer	Sharing 🕶	_ 🗆 ×
<u>E</u> ile <u>E</u> dit ⊻i	ew F <u>a</u> vorites <u>T</u> ool	s <u>H</u> elp		1
🛛 A <u>d</u> dress 🙋 http	://bosrep1:7001/wlai/d	lisplay.jsp?content=defapp	vw&namespa 💌	∂Go
Define New	Application View	ı	Glossary	Pa Logout
This page allo	ws you to define	a new application	view	
Folder:	SAP			
Application View Name:*	SAPEvent			
Description:	BEA Adapter 1	for SAP		A.
Associated Adapter:	BEA_SAP_1_0		_	
OK Cancel	BEA WebLogic A	Adapter for Power Ente S Adapter Built with AD	erprise 3.0)K	-
🤌 Done			Local intranet	

8. Click OK. The Configure Connection Parameters window opens.

The Configure Connection Parameters window enables you to specify parameters for connecting to the BEA WebLogic Adapter for SAP and creating a schema repository.

Figure 3-2	6 Configur	e Connection	Parameters	Window
	· · · · · · · · · · · · · · · · · · ·			

Configure Connection	n Parameters - Microsoft Internet Explorer	×
∫ <u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> v	vorites <u>I</u> ools <u>H</u> elp	i.
Address 🛃 http://bosrep	1:7001/BEA_SAP_1_0_Web/display.jsp?content=confconn&qualifiedAppViewName=SAP.SAPService 💽 🔗 Go	>
Configure Connection	n Parameters	^
	Application View Console WebLogic Console Glossary Logout	
Configure Connection Administration	On this page, you supply parameters to connect to your EIS	
Add Service Add Event Deploy Application View	The BSE Tool generates information stored at a location that must be known to the general adapter. Enter that location here.	
	BSE Location* D:\bea\bse\sessions\default	
	BSE EIS* SAPIDES	
	Connect to EIS	
		-
🥙 Done	En Local intranet	1

The BSE Location represents the location of the connection session information to the particular type of EIS system, in this case, SAP.

The BSE EIS represents the particular SAP connection to which you want to connect.

You can now configure services and events as described in "Configuring the Service Adapter Application View" on page 3-32 and "Configuring the Event Adapter Application View" on page 3-14.

Configuring the Service Adapter Application View

To configure the service adapter application view:

- 1. If it is not already open, open the application view to be modified. For more information, see "Editing an Application View" in "Defining an Application View" in *Using Application Integration*:
 - For WebLogic Integration 7.0, see http://edocs.bea.com/wli/docs70/aiuser/2usrdef.htm
 - For WebLogic Integration 2.1, see http://edocs.bea.com/wlintegration/v2_1sp/aiuser/2usrdef.htm
- 2. If the application view is deployed, you must undeploy it before adding the service. See "Optional Step: Undeploying an Application View" in "Defining an Application View" at the URL referenced in the previous step.

3. In the left pane, click Administration from the Configure Connection list. The Application View Console Administration window opens.

Figure 3-27 Application View Console Administration Window

Application View Administration for SAP.SAPService - Microsoft Internet Explorer						
<u>File E</u> dit ⊻iew F <u>a</u> ve	orites <u>T</u> ools <u>H</u> elp		1 Alexandre and a second s			
Address 🛃 http://bosrep1	Address 🙋 http://bosrep1:7001/BEA_SAP_1_0_Web/display.jsp?content=appvwadmin&qualifiedAppViewName=SAP.SAPService 🔽 🔗 Go					
Application View Administration for SAP.SAPService						
	Application View Console VVebLogic C	Console	Glossary Logout			
Configure Connection	This page allows you to add e	events and/or services to an application view.				
Administration						
Add Service	Description:	BEA Adapter for SAP - Service Edit				
Add Event		•				
Deproy Application view	bseeis: Additional Log Category: Root Log Category:	SAPIDES SAPService BEA_SAP_1_0				
	bselocation: Message Bundle Base: Log Configuration File:	D:\bea\bse\sessions\default BEA_SAP_1_0 BEA_SAP_1_0.xml				
	Reconfigure connection paran	neters for SAPService				
	Events		Add			
	Services		Add			
		Save 🦻				
🛃 Done			Local intranet			

1. Click Add Service.

Figure 3-28 Add Service Window

Add Service - Microsoft Internet Explorer				_ 8 ×
Eile Edit View Favorites Iools Help				1
⇐ Back • ⇒ - 🛛 👔 🚮 😡 Search 🐨 Favorites 🔇	🕉 History 🛛 🖓 - 🎒	e 🗐 🖻 🕑		
Address Addres				▼ 🔗 Go 🛛 Links ≫
Add Service				(be a
Application View Console WebLogic C	Console			Glossary Logout
Configure Connection On this page, you add s	services to yo	ur application	view.	
Administration				
Add Event Unique Service Name:*				
Deploy Application View SAPIFRService				
SAP IDBC IER agent*	FB			
JDBC Properties				
SAP JDBC Trace			1	
SAP JDBC Trace to File				
SAP Host*	ISDHP			
SAP System Number*	03			
SAP Client*	800			
SAP User Id*	omni			
SAP Password		lek .		
SAP Language*	EN			
settings			1	
Logging on/off				
Trace on/off				
deepdebug				
Done		Inco	1	Local intranet

The BEA WebLogic Adapter for SAP is based on a JDBC interface, so the properties of this connection are based on this framework.

2. Enter the properties as:

traceOn	Can be turned on to increase the messages logged.
traceToFile	Leaving false will send messages only to the console.
hostName	Host of the SAP system.

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systemNumber	SAP System Number.
clientNumber	SAP Client.
language	EN for English.
user	SAP User ID.
password	Associated SAP user's password.

3. Click Add. The Deploy Application View window opens.

Figure 3-29 Deploy Application View Window

🖉 Deploy Application Vie	w SapService to Server - Microsoft Internet Explorer			
<u>File E</u> dit <u>V</u> iew F <u>a</u> vo	rites <u>T</u> ools <u>H</u> elp	Links »		
Deploy Application Vi	ew SapService to Server	6 be a		
	Application View Console WebLogic Console	Glossary Logout		
Configure Connection Administration	On this page you deploy your application view to the application server.			
Add Service Add Event	Required Service Parameters			
Deploy Application View	Enable asynchronous service invocation? 💡	▼		
	Connection Pool Parameters			
	Use these parameters to configure the connection pool used by this application view			
	Minimum Pool Size*	1		
	Maximum Pool Size*	10		
	Target Fraction of Maximum Pool Size*	0.7		
	Allow Pool to Shrink?	v		
	Log Configuration			
	Set the log verbosity level for this application view.			
	Log warnings, errors, and audit messages			
	Configure Security			
	Restrict Access to SapService using J2EE Security			
	Deploy 💡 🗹 Deploy persistently? 💡 Save 🢡	-		

4. If required, update the settings, and click Deploy. The Summary for Application View window opens.

At this point, you can test your service adapter as described in "Testing the Service Adapter."

Testing the Service Adapter

After you create and deploy an application view as described in "Creating a Service Adapter Application View" on page 3-29 and "Configuring the Service Adapter Application View" on page 3-32, you can test its services.

1. In the Summary for Application View window, click Test for the service configured in the service adapter.

Summary for Applicat	ion View SAP.SA	PService - Microsoft Internet I	xplorer		Sharing 🗸 🔔 🗖 🗙
<u>File Edit View Fav</u>	vorites <u>T</u> ools <u>H</u> e	elp			
Address 🛃 http://bosrep	1:7001/wlai/display.	jsp?content=appvwsum&template=a	dapter&qualifiedAppViewName=SAP.SA	PService	▼ 🔗 Go
Summary for Applica	ntion View SAP.	SAPService			(be a 1
	Application View C	Console WebLogic Console			Glossary Logout
Summary	This page sho	ows the events and servic	es defined for the SAP.SAP	Service Application	View.
	Name: Description: Status: Available Ad	SAPService BEA Adapter for SAP Deployed ctions: Security Deploy Events	and Services	Undeploy	
	Events Services ListCustom	ier	Test View	v Summary View Request	:Schema View Response Schema
Ø]					📃 📓 Local intranet 💋

Figure 3-30 Summary for Application View Window

3-36 BEA WebLogic Adapter for SAP User Guide

The Test Service window opens.

2. Enter a sample BEA WebLogic Adapter for SAP Request, for example, RFC_CUSTOMER_GET:

```
<doc:RFC_CUSTOMER_GET
xmlns:doc="urn:sap-com:document:sap:business:rfc">
<KUNNR></KUNNR>
<NAME1>Auto*</NAME1>
</doc:RFC_CUSTOMER_GET>
```

Figure 3-31 Test Service Window



3. Click Test to send the request through the SAP service adapter to the SAP EIS system.

The response document should look similar to the following.

Figure 3-32	Test Results	Window
-------------	--------------	--------

👌 Test Result for ListCustomer - Microsoft Internet Explorer	
Elle Edit View Favorites Iools Help	100 C
Address 🐌 http://bosrep1:7001/BEA_SAP_1_0_Web/display.jsp	▼ 🖗 Go
Summany This page shows the results from testing a service.	-
Input to service ListCustomer on application view SAP.SAPService	
<pre><doc:rfc_customer_get xmlns:doc="urn:sap-
com:document:sap:business:rfc"></doc:rfc_customer_get></pre>	
<pre></pre>	
<telfx>089/93530</telfx> ▼ P Done	■ al intranet

The full response document follows.

Listing 3-1 Full Response Document from ListCustomer

```
<doc:RFC_CUSTOMER_GET.Response</pre>
xmlns:doc="urn:sap-com:document:sap:business:rfc">
   <CUSTOMER_T>
      <item>
         <KUNNR>000000110</KUNNR>
         <ANRED>Firma</ANRED>
         <NAME1>Auto Klement</NAME1>
         <PFACH/>
         <STRAS>Bert-Brecht-Allee 29</STRAS>
         <PSTLZ>81737</PSTLZ>
         <ORT01>Mnnchen</ORT01>
         <TELF1>089/93534</TELF1>
         <TELFX>089/93530</TELFX>
      </item>
      <item>
         <KUNNR>000001012</KUNNR>
         <ANRED>Firma</ANRED>
         <NAME1>Autohaus Franzl GmbH</NAME1>
         <PFACH/>
         <STRAS>Schwarzhauptstrasse 51</STRAS>
         <PSTLZ>80939</PSTLZ>
         <ORT01>Muenchen</ORT01>
         <TELF1>089/3546721</TELF1>
         <TELFX>089/3546722</TELFX>
      </item>
   </CUSTOMER T>
</doc:RFC_CUSTOMER_GET.Response>
```

You can now write custom code to exploit the adapter or create a process flow in Studio. For more information, see "Using Application Views in the Studio" in *Using Application Integration*:

- For WebLogic Integration 7.0, see http://edocs.bea.com/wli/docs70/aiuser/3usruse.htm
- For WebLogic Integration 2.1, see http://edocs.bea.com/wlintegration/v2_1sp/aiuser/3usruse.htm

4 The BEA WebLogic Adapter for SAP and IDocs

The BEA WebLogic Adapter for SAP's event adapter receives IDocs from SAP using the RFCs INBOUND_IDOC_PROCESS or IDOC_INBOUND_ASYNCHRONOUS. This section describes how to configure and test your SAP system to send IDocs to an event adapter; for additional information, see your SAP documentation. This section includes the following topics:

- Defining a Logical Port
- Creating a Logical System
- Creating a Partner Profile
- Creating a Distribution Model for the Partner and Message Type
- Manually Sending an IDoc

Defining a Logical Port

The lower level networking requires that a system port number be associated with the RFC destination. The logical port identifies the port to which messages are sent. The logical port can only be used if an RFC destination was previously created.

- 1. In the SAP Main window, choose Tools→Business Communications→IDOCs Basis→IDOC→Port Definition, or execute transaction WE21.
- 2. Select the Transactional RFC tree item and click Create.
- 3. Select generate port name.

The system generates the port name.

- 4. Enter the IDoc version you want to send through this port.
- 5. Click the destination you created, for example, BEASAPDEST.

6. Save the session, making note of the system-generated RFC Port.

Figure 4-1 SAP Main Window / Creating a tRFC port

🕞 Port Edit Go	nto System Heln			SAP		
		😋 😧 😡 I 🖴 🖽	🖧 (2000)			
Creating a t	Creating a tRFC port					
0 10 1	H 🕂 🕄 🖪 🕾					
Ports A000000040	Description Destination for IDOC's (Port Description	A000000040 Destination for IDOC's on B	EA Adapter for S/		
IBI_FRANCE ID3BCTRSTY IDES_MSC20 MO9B UH1B UO4B UO5B UR8B US6B US6B US7B US8B XXX_XXX	edanp64 IBI_France BC tRFC Listener on 'tru ibimvsx edahp2 axp003 axp025 edarisc64 unxsol26 unxsol64 edasol28 xxxx	Version O IDoc rec.types S IDoc record type RFC destination	AP Release 3.0/3.1 s SAP Release 4.x BEAEVENTDEST			
File CPI-C Internet ABAP-PI XML	- - - -	< >				
Solution Data saved Data save						

Creating a Logical System

One type of partner is a logical system. A logical system manages one or more RFC destinations. To create a logical system called BEALOG:

- 1. In the SAP Main screen, choose Tools→AcceleratedSAP→Customizing→Project Management (transaction SPRO_ADMIN), or else execute transaction SPRO.
- 2. Select SAP Reference IMG.
3. Expand the following nodes: Basis Components→Application Link Enabling (ALE)→Sending and Receiving Systems→Logical Systems→Define Logical System. Click the green hook beside Define Logical System.

Figure 4-2 SAP Main Window / Display Structure

P Implementation guide Edit Goto Additional information Utilities System Help	SAP
🖉 🔤 🖉 🖓 🔛 🕲 🖓 🔛 🖞 🖓 🖄 🖄 🖄 🗐 🚱 🚱	
Display structure	
Existing BC Sets & BC Sets for activity Change log Where else used	
Production Planning for Process Industries	
D By Project System	•
Personnel Management Personnel Time Management	
D By Payroll	
By Training and Event Management	
D By Basis Services	
D 📴 Basis Reporting	
D By SAP Query	
D By Frontend Services	
Documentation Tools	
D 📴 Business Management	
Application Link Enabling (ALE) Sending and Receiving Systems	
General and recoming dysterns Sector and Authorizations	
🗸 🛃 Logical Systems	
Control Control Control	
IMG - Activity IMG - Activity Logical System Names in Application Tables	
Systems in Network	
Modelling and Implementing Business Processes	▲ ▼
D Late Sector Monitoring	
D 146 (1	i) (800) 🛅 esdsun2 INS 🥢

4. Select New Entries.

5. Enter a meaningful name for your partner and provide a short description (for example, BEALOG).

Figure 4-3	SAP Main	Window	/ New	Entries:	Overview	of Added I	Entries
------------	----------	--------	-------	-----------------	----------	------------	---------

Table view	Edit Goto Selection criteria Utilities System
©	
New Entr	ies: Overview of Added Entries
12 🗟 🗟	B B
Log.System	Name
BEALOG	BEA Adapter for SAP Logical System
	Entry 1 of 1
🞯 Only one e	ntry chosen 🖀 🏷 146 (1) (800) 🖷 esdsun2 INS 🦯

6. Save the session.

Creating a Partner Profile

To create a partner profile:

- 1. In the SAP Main screen, choose Tools→Business Communication→IDOC Basis→IDOC→Partner profile, or else execute transaction wE20.
- 2. Select Partner type LS (Logical system) and select Create (F5).
- 3. Enter Type as USER and enter Agent as OMNI (this is the user ID of the SAP system).
- 4. Select Create outbound parameter below the outbound parameter table control.
- 5. Partn.type is LS, Message Type is DEBMAS (this is the IDoc document type), and leave Partn.funct blank.
- 6. Select the Outbound options tab.
- 7. Select Transfer IDOCs Immed.
- 8. Enter message type of the IDoc (for example, DEBMAS).
- 9. Enter receiver port for example (A00000040 from the previous example screens).

10. Save the session.

Figure 4-4 SAP Window / Partner Profiles: Outbound Parameters

Outbound parameters	dit <u>G</u> oto S <u>y</u> stem <u>H</u> elp	
8	💼 🔄 🕒 I 😋 🚱 I 🖴 (😂 🚽 🕲 I 🖪 🕱 I ଓ ଓ ଓ ଓ ଅଧି
Partner profiles:	utbound parameters	
9		
Partn.number	EALOG BEA Adapter for SA	P Logical System
Partn.type	S Logical system	
Partn.funct.		
💆 Message type	EBMAS	Customer master data distribution
Message code		
Message function	🔲 Test	
Receiver port PacketSize Output mode	.000000040 🕑 Transactional RFC	Destination for IDOC's on BEA Output mode 2
 Collect IDocs 		
IDoc type		
Basic type	DEBMAS01	Customer master
Extension		
View		
Syntax check Seg. release in IDoc type		
🎯 Data saved		D 146 (1) (800) 🛅 esdsun2 INS 🖉

11. Exit the session. The SAP Partner Profiles summary window opens, displaying information for the logical system that you just created.

[⊡ 	rtners <u>E</u> dit <u>G</u> oto	<u>U</u> tilities S <u>y</u> stem	<u>H</u> elp		
0		1 d 📙	😋 🙆 🚷 I 🗎	日間(約)	1. L. L. I. 🛛 🖉 🖪 🖉 🔛
Par	tner profiles				
	9200	' da 🗸 🕄	F		
Partn	er	Description	Partn.number	BEALOG	BEA Adapter for SAP Logical System
	MU9B NJW_IDOC	NJW_IDOC_TE	Partn.type	LS	Logical system
	NON_SAP OMOCLNT800 PFS ID M	General Externa	Post proces	ssing: permitted	lagent Classification h
		Logical System	Түр	US 🕞	🚯 User
	SALES	Sales system (Agent	IBI	Joseph Rudich
	SUB_CC1 SUPPLY188	SUB_CC1	Lang.	EN	English
	T30MAND091 T90CLNT090	IDES ALE Centi			
	UH1B	edahp2			
	UO5B	axp003	Outbound parmt	rs.	
	UR8B	edarisc64	Partn.funct.	Message type	Message va MessageFu Test 🛄
	US7B	unxsol64		DEBMAS	
	US8B	edasol28			
	WMS				
	REALOG	XXX_XXX BEA Adapter for			
	Partner type US	User (first 10 ch			
					▲ ▼
					D 146 (1) (800) 🖭 esdsun2 INS 🦯

Figure 4-5 SAP Window / Partner Profiles Summary

Creating a Distribution Model for the Partner and Message Type

To create a distribution model called BEAMOD:

- 1. In the SAP Main screen, choose Tools→AcceleratedSAP→Customizing→Project Management, or else execute transaction BD64.
- 2. Select Create model view. (You may need to switch processing mode to edit, within Distribution Model/Switch Processing).
- 3. Enter a short text string and a technical name for your new model view.
- 4. Select your new model view in the tree Distribution Model and select Add message type.

Figure 4-6 SAP Window / Distribution Model Changed

C Distribution acceded - Edite Actor Fundamenter - Acctor	
Distribution model Edit Goto Environment System	Help Card
	日田時(約45.45 MB) 💦 🖉
Distribution Model Changed	
🎾 🛅 🕄 🛃 📑 🍞 Filter model display 🗋 Creat	e model view
Distribution Model	Pagestation (Apple Income
Distribution Model	Description/ technical name
D 2/G Testing SAP Event Adapter for BEA 2 2/3	JUDYMOD
Display Model View 2	IWAYMOD2
Signal Stress	IWAYMOD1
▷ 2/G axp003/usr/edaport/R729999E	0048
Variation in the second sec	10058
▷ 2/G edahp2/u2/e/R7299998	UH1B
D 23 edahp64 //port1/e/R7299998	H61B
D 2/G edarisc64/prog/edaport/R72999	UR8B
▷ 2/G edasol28/port1/e/R729999B	US8B
D 23 ibimvsx /pgm/edaport/R7299998	MO9B
▷ 2G unxsol26/port1/e/R729999B	US6B
D 2/3 unxsol64/port1/e/R729999B	US7B
▶ 2%3,000(_)000	XXX_XXX
S BEA Event Adapter for SAP Model View	BEAMOD
	🕨 146 (1) (800) 🖻 esdsun2 INS 🦯

In the dialog box, you can view:

- Sender: for example, I46_CLI800, which points to the SAP system that will SEND the IDoc (in this case, an SAP 4.6B system).
- Receiver: Logical system. For example, BEALOG.
- Message type: Type of IDoc. For example, DEBMAS.

Figure 4-7 SAP Window / Add Message Type

🖙 Add Message Type		
Model view	BEAMOD	
Sender	146_CL1800	
Receiver	BEALOG	
Message type	DEBMAS01	đ
V X		

The following screen shows the new model view that can be used to send message type DEBMAS from the I46_CLI800 SAP system to the BEALOG logical system.

Figure 4-8 SAP Window / Distribution Model Changed (New Model View)

Distribution model Edit Goto Environment System	
🖉 💭 🖓 📙 🖓 🚱	
Distribution Model Changed	
🞾 🛅 🕄 🛐 👫 🍞 Filter model display 🗋 Creat	e model view 🛛 🖸 Add BAPI 🗋 🖸 Add message type
Distribution Model	Description/ technical name
Image: Construction of the second s	U05B UH1B
▷ 2 dahp64/port1/e/R729999B ▷ 2 darisc64/prog/edaport/R72999	H61B UR8B
D 22 edasol28/port1/e/R729999B D 22 ibimvsx/pgm/edaport/R729999B	US8B MO9B
 ▷ 💥 unxsol26/port1/e/R7299998 ▷ 💥 unxsol64/port1/e/R7299998 ▷ 🕅 unxsol64/port1/e/R7299998 	US6B US7B
BEA Event Adapter for SAP Model View	BEAMOD
SAP R/3 46C esdsun2	146_CLI800
	Customer master data distribution
No filter set	
	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

You are now ready to test the connection to the WebLogic Server, as described in "Manually Sending an IDoc" on page 4-14.

Manually Sending an IDoc

In the SAP Server, the transaction BD12 brings you to the following screen where you can send IDocs to any logical system, in this example to WebLogic Integration with an SAP event adapter (RFC listener) for program ID BEAID.

- 1. Add an SAP event adapter to WebLogic Integration.
- 2. Use the BEA Application Explorer to create appropriate schemas.
- 3. Enter the IDoc message type DEBMAS in the Output type field.
- 4. Enter the logical system (for example, BEALOG).
- 5. Click Run (transfer data).

6. The event adapter receives the IDoc in XML format. No response is expected from WebLogic Integration.

)	
L C C C 🚷 🗒 📮 🕅 🖓 I S C C	8 M 😪
62 to	1
to	-
DEBMAS	
BEALOG	
@	
20	
▶ 146 (1	I) (800) 📧 esdsun2 INS 🏑
	Image: Control of the second seco

Figure 4-9 SAP Window / Send Customers



Figure 4-10 SAP Window / Master IDocs Set Up for Message Type DEBMAS

5 Sending SAP Events Using ABAP Programs

Once the BEA WebLogic Adapter for SAP's event adapter and the RFC destination are configured, you can write ABAP code to execute calls at your new destination (that is, the event adapter).

This section describes how to send RFC or BAPIs to the event adapter. It includes the following topic:

Writing an RFC Module

Writing an RFC Module

The following is sample code that makes use of the user-defined RFC module Z_EVENT_DISPATCH.

Listing 5-1 Sample Code With User-Defined RFC

```
FUNCTION Z_01_EVENT_DISPATCH.
CALL FUNCTION 'Z_EVENT_DISPATCH'
DESTINATION 'BEADEST'
EXPORTING
EVENT = EVENT
RECTYPE = RECTYPE
OBJTYPE = OBJTYPE
OBJKEY = OBJTYPE
OBJKEY = OBJKEY
TABLES
EVENT_CONTAINER = EVENT_CONTAINER.
ENDFUNCTION.
```

A Sample Files

This section provides sample request and response documents sent between SAP and the BEA WebLogic Adapter for SAP. It includes the following samples:

- Sample RFC Request Document
- Sample RFC Response Document
- Sample IDoc XML for Message Type DEBMAS

Sample RFC Request Document

Listing A-2 Sample RFC Request Document

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```
<RFCDATA2></RFCDATA2>
</TEST_IN>
<DESTINATIONS>
</DESTINATIONS>
<LOG>
</LOG>
</doc:RFC_WALK_THRU_TEST>
```

Sample RFC Response Document

Listing A-3 Sample RFC Response Document

```
<?xml version="1.0" ?>
<doc:RFC_WALK_THRU_TEST.Response</pre>
xmlns:doc="urn:sapcom:document:sap:business:rfc">
   <TEST_OUT>
      <RFCFLOAT>0.0</RFCFLOAT>
      <RFCCHAR1></RFCCHAR1>
      <RFCINT2>0</RFCINT2>
      <RFCINT1>0</RFCINT1>
      <RFCCHAR4></RFCCHAR4>
      <RFCINT4>10</RFCINT4>
      <RFCHEX3>000000</RFCHEX3>
      <RFCCHAR2></RFCCHAR2>
      <RFCTIME>10:09:32</RFCTIME>
      <RFCDATE>2001-09-05</RFCDATE>
      <RFCDATA1>Hello World</RFCDATA1>
      <RFCDATA2></RFCDATA2>
   </TEST OUT>
   <DESTINATIONS>
   </DESTINATIONS>
   <LOG>
   </LOG>
</doc:RFC_WALK_THRU_TEST.Response>
```

Sample IDoc XML for Message Type DEBMAS

Listing A-4 Sample IDoc XML for Message Type DEBMAS

```
<?xml version="1.0" ?>
<DEBMAS01>
   <IDOC BEGIN="1">
      <EDI DC40 SEGMENT="1">
         <TABNAM>EDI_DC40</TABNAM>
         <MANDT>800</MANDT>
<DOCNUM>000000000236015</DOCNUM>
         <DOCREL>46C</DOCREL>
         <STATUS>30</STATUS>
         <DIRECT>1</DIRECT>
         <OUTMOD>2</OUTMOD>
         <EXPRSS></EXPRSS>
         <TEST></TEST>
         <IDOCTYP>DEBMAS01</IDOCTYP>
         <CIMTYP></CIMTYP>
         <MESTYP>DEBMAS</MESTYP>
         <MESCOD></MESCOD>
         <MESFCT></MESFCT>
         <STD></STD>
         <STDVRS></STDVRS>
         <STDMES></STDMES>
         <SNDPOR>SAPI46</SNDPOR>
         <SNDPRT>LS</SNDPRT>
         <SNDPFC></SNDPFC>
         <SNDPRN>I46 CLI800</SNDPRN>
         <SNDSAD></SNDSAD>
         <SNDLAD></SNDLAD>
         <RCVPOR>A00000018</RCVPOR>
         <RCVPRT>LS</RCVPRT>
         <RCVPFC></RCVPFC>
         <RCVPRN>SAMP</RCVPRN>
         <RCVSAD></RCVSAD>
         <RCVLAD></RCVLAD>
         <CREDAT>2001-09-04</CREDAT>
         <CRETIM>16:44:52</CRETIM>
         <REFINT></REFINT>
         <REFGRP></REFGRP>
         <REFMES></REFMES>
```

<ARCKEY></ARCKEY> <SERIAL>20010904164452</SERIAL> </EDI DC40> <E1KNA1M SEGMENT="1"> <MSGFN>005</MSGFN> <KUNNR>00000001</KUNNR> <ANRED></ANRED> <AUFSD></AUFSD> <BAHNE></BAHNE> <BAHNS></BAHNS> <BBBNR>000000</BBBNR> <BBSNR>00000</BBSNR> <BEGRU></BEGRU> <BRSCH></BRSCH> <BUBKZ>0</BUBKZ> <DATLT></DATLT> <FAKSD></FAKSD> <FISKN></FISKN> <KNRZA></KNRZA> <KONZS></KONZS> <KTOKD>0001</KTOKD> <KUKLA></KUKLA> <LAND1>US</LAND1> <LIFNR></LIFNR> <LIFSD></LIFSD> <LOCCO></LOCCO> <LOEVM></LOEVM> <NAME1>Apple Corp</NAME1> <NAME2></NAME2> <NAME3></NAME3> <NAME4></NAME4> <NIELS></NIELS> <ORT01>Floral Park</ORT01> <ORT02></ORT02> <PFACH></PFACH> <PSTL2></PSTL2> <PSTLZ>10010</PSTLZ> <REGIO>NY</REGIO> <COUNC></COUNC> <CITYC></CITYC> <RPMKR></RPMKR> <SORTL>APPLE</SORTL> <SPERR></SPERR> <SPRAS>E</SPRAS> <STCD1></STCD1> <STCD2></STCD2> <STKZA></STKZA> <STKZU></STKZU> <STRAS>123 Main street</STRAS>

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<txlw2></txlw2>
<ccc01></ccc01>
<ccc02></ccc02>
<ccc03></ccc03>
<ccc04></ccc04>
<cassd></cassd>
<kdkg1></kdkg1>
<kdkg2></kdkg2>
<kdkg3></kdkg3>
<kdkg4></kdkg4>
<kdkg5></kdkg5>
<nodel></nodel>
<xsub2></xsub2>
<werks></werks>
<e1knvvm segment="1"></e1knvvm>
<msgfn>005</msgfn>
<vkorg>0001</vkorg>
<vtweg>01</vtweg>
<spart>01</spart>
<begru></begru>
<loevm></loevm>
<versg></versg>
<aufsd></aufsd>
<kalks>1</kalks>
<kdgrp></kdgrp>
<bzirk></bzirk>
<konda></konda>
<pltyp></pltyp>
<awahr>100</awahr>
<inco1></inco1>
<inco2></inco2>
<lifsd></lifsd>
<autlf></autlf>
<antlf>9</antlf>
<kztlf></kztlf>
<kzazu>X</kzazu>
<chspl></chspl>
<lprio>00</lprio>
<eikto></eikto>
<vsbed>01</vsbed>
<faksd></faksd>
<mrnkz></mrnkz>
<perfk></perfk>
<perrl></perrl>
<waers>EUR</waers>
<ktgrd></ktgrd>
<zterm></zterm>
<vwerk></vwerk>
<vkgrp></vkgrp>

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