
Oracle Application Adapter (WebLogic Server 10gr3) Release Notes

This chapter describes issues and workarounds for the following Oracle Application Adapters (WebLogic Server 10gr3):

- Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3)
- Oracle Application Adapter for SAP R/3 (WebLogic Server 10gr3)
- Oracle Application Adapter for Siebel (WebLogic Server 10gr3)
- Oracle Application Adapter for J.D. Edwards (WebLogic Server 10gr3)

This chapter includes the following topics:

- [Section 6.1, "Oracle Application Adapters: General Issues and Workarounds"](#)
- [Section 6.2, "Oracle Application Adapter for PeopleSoft: Issues and Workarounds"](#)
- [Section 6.3, "Oracle Application Adapter for SAP R/3: Issues and Workarounds"](#)
- [Section 6.4, "Oracle Application Adapter for Siebel: Issues and Workarounds"](#)
- [Section 6.5, "Oracle Application Adapter for J.D. Edwards: Issues and Workarounds"](#)

6.1 Oracle Application Adapters: General Issues and Workarounds

The following topics discuss general issues that pertain to Oracle Application Adapters, Oracle Adapter J2CA, and Oracle Adapter Business Services Engine (BSE):

[Section 6.1.1, "Namespace Requirements"](#)

[Section 6.1.2, "File Repository Usage"](#)

[Section 6.1.3, "Testing Outbound OSB Business and Proxy Services"](#)

[Section 6.1.4, "Using Business Services Engine for Inbound Processing"](#)

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[Section 6.1.16, "BSE Web Services Browser Pages Do Not Support DBCS Input"](#)

[Section 6.1.17, "Adapter Language Certification"](#)

[Section 6.1.18, "File Channel"](#)

[Section 6.1.19, "JDK Version Support for Application Explorer"](#)

[Section 6.1.20, "Unsupported Adapter Functionality"](#)

6.1.1 Namespace Requirements

The purpose of an XML namespace is to allow the deployment of XML vocabularies (where element and attribute names are defined) in a global environment and to reduce the risk of name collisions in a given document when vocabularies are combined. Qualified namespaces are used for stricter schema validation. In documents conforming to this specification, element and attribute names appear as qualified names. Syntactically, they are either prefixed names or unprefixed names. An attribute-based declaration syntax is provided to bind prefixes to namespace names and to bind a default namespace that applies to unprefixed element names. These declarations are scoped by the elements on which they appear so that different bindings may apply in different parts of a document. Processors conforming to this specification must recognize and act on these declarations and prefixes.

In the 10.3.1.0 release, the recommendations for Oracle Service Bus (OSB) Business and Proxy services based on W3C, is to perform stricter name space validations. As a result, Application Explorer generates Web services for the backend with the namespace marked as "Qualified". This means that during testing or usage of this service by OSB Business and Proxy services, the request XML document that is being used should adhere to the schema and WSDL document. Once again, it is important to remember that the namespaces are qualified. To further understand this point, the difference is illustrated with the following example:

1. Input XML for OSB Business and Proxy services, based on unqualified namespaces:

```
<?xml version="1.0" encoding="UTF-8"?>
<CompanyCode.GetDetail>
  <COMPANYCODEID>1000</COMPANYCODEID>
</CompanyCode.GetDetail>
```

2. Input XML for OSB Business and Proxy services, based on qualified namespaces:

```
<?xml version="1.0" encoding="UTF-8"?>
<bapi:CompanyCode.GetDetail xmlns:bapi="urn:sap-com:document:sap:business"
  CompanyCodeId="1000">
</bapi:CompanyCode.GetDetail>
```

Namespace usage with the Oracle Application Adapters is tracked with internal bug number: **8446166**. The following sections describes certain limitations with WSDL definitions that are generated by Oracle Application Adapters, and provide workarounds where applicable.

Qualified/Unqualified Options

The *qualified* and *unqualified* options are not enforced by the Oracle Application Adapter when WSDL definition are generated. For example:

1. Export a WSDL with the *qualified* option specified.
2. Create a Web service based on this WSDL.
3. Send XML data that contains unqualified elements to this Web service.

A correct response document is received.

Namespaces

Namespaces that are defined in the generated WSDL definition are not enforced by the Oracle Adapter Application Adapter. For example:

1. Create a Web service based on a generated WSDL.
2. Send XML data where all namespaces have been removed to this Web service.

A correct response document is received.

Unchecked Data

The Oracle Application Adapter does not check to see if XML data conforms to the generated WSDL definition. For demonstration purposes only, the following example uses SAP R/3:

1. Create a Web service for the *RFC_SYSTEM_INFO* function module.
2. Invoke this Web service (*RFC_SYSTEM_INFO*) with XML data pertaining to *BAPI_COMPANYCODE_GETLIST*.

A response document is received with data for *BAPI_COMPANYCODE_GETLIST*.

This behavior should be taken into consideration when designing an application using Oracle Application Adapters. As a best practice, always validate the XML data that is received according to the WSDL definition before a Web service is invoked. Otherwise, all functions can be exposed on a system (for example, SAP R/3) if only one function is called. In this example, only the *RFC_SYSTEM_INFO* function module was called, but an end-user could have invoked any function on SAP R/3 using this function. Only a valid XML document that is recognized by the Oracle Application Adapter for a given function is required.

6.1.2 File Repository Usage

Do not use a File repository in development, testing, and production environments. Instead, only use a database repository (for example, Oracle).

6.1.3 Testing Outbound OSB Business and Proxy Services

The Oracle Service Bus (OSB) console allows you to test deployed OSB Business and Proxy services. Once a service is deployed, you can manage, monitor, and run an end-to-end scenario in the console.

When testing outbound OSB Business and Proxy services from the OSB console, the test console generates sample XML envelopes. Make sure the data that is generated by the test console is modified according to the individual adapter and namespace requirement for that service.

6.1.4 Using Business Services Engine for Inbound Processing

Using Business Services Engine (BSE) for inbound processing is not supported. BSE only supports services.

6.1.5 Using Business Services Engine with a File Repository

If you are using Business Services Engine (BSE) on IBM-AIX platforms, do not use the File repository since there are limitations present. Use a database repository instead.

6.1.6 Synchronous Events

Synchronous event handling is not supported for the Oracle Application Adapter for Siebel, Oracle Application Adapter PeopleSoft and Oracle Application Adapter J.D. Edwards.

6.1.7 Ports Option for Inbound Processing

The ports option for inbound processing is not supported for J2CA events. Only the no-ports option is supported.

6.1.8 Supported Custom Objects

iWay will do its best effort to support the custom objects of the EIS. However, iWay cannot guarantee the support for all custom objects at the customer environment. Support to the custom object will be considered on a case by case option. Custom objects could fall under any of the following category:

- **SAP**
BAPIs, RFCs, and ALE/IDOCs
- **Siebel**
Business Objects, Business Services, and Integration Objects
- **PeopleSoft**
Component Interfaces and Messages
- **J.D. Edwards**
Business Functions and Transaction Types

It is recommended that customers who wish to troubleshoot an issue with the custom objects of an EIS, provide the following to iWay:

1. Data and definition of custom objects.
2. Request and response XML documents for the custom objects.
3. Reproduction steps for the custom object.

6.1.9 Adapter Certification

The Oracle Application Adapters are certified with 10.3.1.0 Oracle Service Bus (OSB) Business and Proxy services only. Any other method of invoking the adapters is not certified and is not supported as a result. This includes invoking the adapters through a JAVA CCI program.

6.1.10 Adapter Compatibility

You cannot have multiple versions of the client library files in the same `lib` directory. Therefore, you cannot have one instance of the adapter configured to connect to different EIS versions at the same time by using different versions of the client library files.

6.1.11 Unsupported Configuration

Installing the Oracle Application Adapters and iWay 55 (iWay Service Manager and the iWay adapters) on the same machine is currently not a supported configuration. As a workaround, use a separate machine for each version.

6.1.12 Encoding Support

The Oracle Application Adapters support only UTF-8 encoding.

6.1.13 New J2CA Targets

When using a J2CA implementation, you must redeploy J2CA or restart Oracle WebLogic Server to refresh the repository to recognize the new target and channel in the J2CA Test Servlet, and OSB after it is created in Oracle Adapter Application Explorer (Application Explorer). The default URL for the J2CA Test Servlet is:

```
http://hostname:port/iwafjca
```

This applies to J2CA targets only, not BSE targets. This also applies when a target or a channel parameter is modified using Application Explorer.

6.1.14 Invoking a Run-Time Message When BSE Is Unavailable

When invoking a run-time message while BSE is unavailable, a "Whitespace required" exception error occurs.

The error message "unable to connect to URL `http://host:port/ibse...`" appears.

6.1.15 Invoking Outbound OSB Business and Proxy Services at Run Time Using BSE

When invoking an outbound OSB Business and Proxy service at run time using BSE, a "Not able to find SoapRouter" message appears.

Workaround: Add the following element in the respective XML file:

```
<property name "optSoapShortcut">false</property>
```

6.1.16 BSE Web Services Browser Pages Do Not Support DBCS Input

When using a BSE configuration, the browser-based test tools add encodings to the content being sent. The BSE test tool causes characters to become garbled due to these added encodings. Therefore, you cannot perform a test using input that contains Japanese characters. A possible workaround is to use a tool that can send pure SOAP requests.

6.1.17 Adapter Language Certification

iWay Adapters are certified with the English language. However, on specific release levels, some iWay Adapters are also certified with the Japanese language. If you have

encountered issues with other languages, please contact iWay Customer Support for a workaround.

6.1.18 File Channel

The File channel for events is not supported in production environments for the Oracle Application Adapter for PeopleSoft, Oracle Application Adapter for J.D. Edwards, and Oracle Application Adapter for Siebel. The File channel is available only for testing purposes in a non-network environment. As a best practice, it is not recommended to use the File channel.

6.1.19 JDK Version Support for Application Explorer

Application Explorer only supports JDK version 1.6.x. Application Explorer will generate a `java.lang.UnsupportedClassVersionError` exception if the Java version that is being used is not JDK version 1.6.x. As a workaround, verify that you have the the correct Java version installed when using Application Explorer. For example, your PATH environment variable should be configured as follows:

```
PATH=E:\wls_home\jdk160_05\bin;%PATH%
```

In this example, *wls_home* is the location where Oracle WebLogic Server is installed.

When JDK version 1.4.2_x is used, the following error is generated:

```
-----
starting java
-----
Exception in thread "main" java.lang.UnsupportedClassVersionError:
com/ibi/bse/gui/BseFlashScreen (Unsupported major.minor version 50.0)
    at java.lang.ClassLoader.defineClass0(Native Method)
    at java.lang.ClassLoader.defineClass(Unknown Source)
    at java.security.SecureClassLoader.defineClass(Unknown Source)
    at java.net.URLClassLoader.defineClass(Unknown Source)
    at java.net.URLClassLoader.access$100(Unknown Source)
    at java.net.URLClassLoader$1.run(Unknown Source)
    at java.security.AccessController.doPrivileged(Native Method)
    at java.net.URLClassLoader.findClass(Unknown Source)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at sun.misc.Launcher$AppClassLoader.loadClass(Unknown Source)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at java.lang.ClassLoader.loadClassInternal(Unknown Source)
```

When JDK version 1.5.0_x is used, the following error is generated:

```
-----
starting java
-----
Exception in thread "main" java.lang.UnsupportedClassVersionError: Bad
version number in .class file
    at java.lang.ClassLoader.defineClass1(Native Method)
    at java.lang.ClassLoader.defineClass(Unknown Source)
    at java.security.SecureClassLoader.defineClass(Unknown Source)
    at java.net.URLClassLoader.defineClass(Unknown Source)
    at java.net.URLClassLoader.access$100(Unknown Source)
    at java.net.URLClassLoader$1.run(Unknown Source)
    at java.security.AccessController.doPrivileged(Native Method)
    at java.net.URLClassLoader.findClass(Unknown Source)
    at java.lang.ClassLoader.loadClass(Unknown Source)
    at sun.misc.Launcher$AppClassLoader.loadClass(Unknown Source)
```

```
at java.lang.ClassLoader.loadClass(Unknown Source)
at java.lang.ClassLoader.loadClassInternal(Unknown Source)
```

6.1.20 Unsupported Adapter Functionality

The Oracle Application Adapter for SAP R/3, Oracle Application Adapter for PeopleSoft, Oracle Application Adapter for Siebel, and Oracle Application Adapter for J.D. Edwards OneWorld does not support functionality such as Transaction, XA, and two-phase commit.

6.2 Oracle Application Adapter for PeopleSoft: Issues and Workarounds

The following topics discuss issues that pertain to Oracle Application Adapter for PeopleSoft:

- [Section 6.2.1, "PeopleSoft Versions and PeopleTools Release Levels Supported"](#)
- [Section 6.2.2, "PeopleSoft LDAP Authentication Incompatible"](#)
- [Section 6.2.3, "Automatic Reconnect to PeopleSoft"](#)
- [Section 6.2.4, "HTTPS Protocol"](#)
- [Section 6.2.5, "PeopleSoft Messages"](#)
- [Section 6.2.6, "Limitation with Level 2 Scrolls"](#)
- [Section 6.2.7, "Limitation with Level 3 Scrolls"](#)
- [Section 6.2.8, "Limitation with Effective Dated Scrolls"](#)
- [Section 6.2.9, "Limitation When Inserting a Second Row for Level 1, 2, or 3 Scrolls"](#)
- [Section 6.2.10, "Limitation when Creating a Schema for Multilevel Component Interfaces"](#)
- [Section 6.2.11, "PeopleTools Date Format"](#)
- [Section 6.2.12, "Generating Java APIs"](#)
- [Section 6.2.13, "Differences Between Component Interface Functionality and Adapter Functionality"](#)
- [Section 6.2.14, "Missing Field Errors When Using a Component Interface"](#)
- [Section 6.2.15, "Support for Related Display Fields"](#)
- [Section 6.2.16, "Differences Between Component Interface Functionality and Adapter Functionality"](#)
- [Section 6.2.17, "Multiple Effective Dated Scrolls"](#)
- [Section 6.2.18, "Debug Message"](#)
- [Section 6.2.19, "LOCATION Component Interface"](#)
- [Section 6.2.20, "Component Interface Names"](#)
- [Section 6.2.21, "Component Interface Java API Compilation Errors \(People Tools 8.46\)"](#)

6.2.1 PeopleSoft Versions and PeopleTools Release Levels Supported

The following table indicates which combinations of adapter platforms and PeopleSoft platforms are supported, and for each combination, which PeopleSoft release and PeopleSoft Tools release is supported.

Adapter Platform	PeopleSoft Platform	PeopleSoft Release	PeopleTools Release Level
Windows	Windows	8.1	8.16.03 - 8.22
Windows	Windows	8.4	8.40.05 - 8.49
Windows	Solaris	8.1	8.16.03 - 8.22
Windows	Solaris	8.4	8.40.05 - 8.49
Windows	AIX	8.1	8.16.03 - 8.22
Windows	AIX	8.4	8.40.05 - 8.49

6.2.2 PeopleSoft LDAP Authentication Incompatible

Explanation

PeopleSoft LDAP authentication relies on sign-on PeopleCode. However, the authentication services that PeopleSoft provides with component interfaces do not invoke sign-on PeopleCode, so you cannot use PeopleSoft LDAP authentication with Oracle Application Adapter for PeopleSoft.

Workaround

None.

6.2.3 Automatic Reconnect to PeopleSoft

Explanation

Oracle Application Adapter for PeopleSoft does not automatically reconnect when a connection to PeopleSoft becomes unavailable.

Workaround

None.

6.2.4 HTTPS Protocol

Explanation

Oracle Application Adapter for PeopleSoft does not support the HTTPS protocol for events.

Workaround

None.

6.2.5 PeopleSoft Messages

Explanation

Oracle Application Adapter for PeopleSoft uses messages only for events and not for services.

Workaround

None.

6.2.6 Limitation with Level 2 Scrolls

Explanation

PeopleSoft has acknowledged a limitation with component interfaces that contain level 2 scrolls. If you try to insert a new row on a level 2 scroll, then a Null Pointer Exception error occurs.

If you receive this error, then you must upgrade your PeopleSoft release level.

This limitation is fixed in PeopleTools Version 8.16.08, and PeopleTools Version 8.17.02 in the 8.1x code line. It is tracked by PeopleSoft Incident T-MZYGAR-2C5YS.

In the 8.4x code line, this limitation is tracked by PeopleSoft Incident T-TCHURY-YZ9FR and is fixed in PeopleSoft 8.41.

Workaround

None.

6.2.7 Limitation with Level 3 Scrolls

Explanation

PeopleSoft has acknowledged a limitation with component interfaces that contain level 3 scrolls. If you try to insert a new row on a level 3 scroll, then a Null Pointer Exception error occurs.

If you receive this error, then you must upgrade your PeopleSoft release level.

This limitation is fixed in PeopleTools Version 8.18 and is tracked by PeopleSoft Incident T-MZYGAR-D2529. However, this is still a limitation in PeopleSoft 8.41 and 8.42 (PeopleSoft Incident T-MZYGAR-3F72X). PeopleSoft has reported that this will be fixed in 8.43 (PeopleSoft incident report, 562734000).

Workaround

None.

6.2.8 Limitation with Effective Dated Scrolls

Explanation

PeopleSoft has acknowledged that there is a limitation with effective dating and multiple transactions. If you want to insert multiple effective dated rows for the same primary keys, then you must use two separate transactions. This limitation is tracked by PeopleSoft Incident T-ACESAR-BS362.

Workaround

None.

6.2.9 Limitation When Inserting a Second Row for Level 1, 2, or 3 Scrolls

Explanation

If you are trying to insert a level 1, 2, or 3 scroll and the following conditions exist:

- There is exactly one row for the level 1, 2, or 3 scroll.
- There are required field names that end in a numeric value.

An error message appears, in the following format:

```
This is an invalid property {ADDRESS_1} (91,15)
```

This example was created using the VNDR_ID Component Interface from the Financials application. Note that the actual property name is ADDRESS1.

Workaround

As a workaround, perform the following steps:

1. In the PeopleSoft Application Designer, open the component interface with which you are working.
2. Select the property that ends in a numeric value.
3. Right-click and select Edit Name from the context menu.
4. Change the name of the property.
You can select a name that does not end in a number (for example, ADDRESSA), or you can add an underscore (for example, ADDRESS_1).
5. Save the component interface.
6. Regenerate the Java APIs for the component interface.
7. Use the revised property name in your XML transaction.

6.2.10 Limitation when Creating a Schema for Multilevel Component Interfaces

Explanation

In later releases of the 8.1x series, if you try to create a schema for a multilevel component interface, then the following error occurs:

Index: -1, Size: 0

This is a result of a change in the back-end PeopleSoft interface in later versions of the 8.1 series.

Workaround

Use the `iwpsci84.jar` file and delete the `iwpsci81.jar` file from the `wls_home\erp-adapters\lib` directory.

See Also:

- *Oracle Application Adapters (WebLogic Server 10gr3) Installation Guide*
- *Oracle Application Adapter for PeopleSoft (WebLogic Server 10gr3) User's Guide*

6.2.11 PeopleTools Date Format

Explanation

The YYYY-MM-DD date format does not work for a component interface key.

PeopleSoft has acknowledged this limitation for most releases of PeopleTools and has addressed it in the newest releases. For more information, refer to PeopleSoft Resolution ID 200730918.

Workaround

Use the MM/DD/YYYY format. Alternatively, you can write a PeopleSoft method that takes a date format of YYYY-MM-DD, changes the date to a string, reformats it to DD/MM/YYYY, and passes it to the component interface date.

6.2.12 Generating Java APIs

Explanation

It is possible to create component interfaces within PeopleSoft that are internally inconsistent. Inconsistencies in component interface templates delivered by PeopleSoft have been observed. Indicators of this problem include errors when generating the Java APIs in the PeopleSoft Application Designer.

If you encounter errors while generating the Java APIs, then the component interface is likely to malfunction and can possibly corrupt your database. The correct operation of component interfaces when errors appear during API generation cannot be guaranteed. In addition, it is strongly recommended that the source of the errors is fixed before continuing.

Workaround

Fix the component interface using PeopleTools.

6.2.13 Differences Between Component Interface Functionality and Adapter Functionality

Explanation

Differences between component interfaces and standard application functionality relating to panel processing have been observed. Among the possible symptoms of these differences are messages such as, "First Operand of . is NULL." Oracle Application Adapter for PeopleSoft should replicate the functionality of a PeopleSoft Component Interface, but only when the component interface is run through the PeopleSoft application server in three-tier mode.

If you notice differences between expected component interface functionality and adapter functionality, then you must verify that the differences are real by running the component interface with the PeopleTools Component Interface test tool in three-tier mode.

Workaround

Test the component interface using the PeopleTools Component Interface testing tool in three-tier mode only.

6.2.14 Missing Field Errors When Using a Component Interface

Explanation

When using a component interface, it is difficult to determine which of the required fields are missing when you receive a PeopleSoft error message that states, "The highlighted field is required." PeopleSoft has acknowledged this limitation.

Workaround

You can edit the message in the PeopleSoft message catalog to pass a variable for the field name. For more information, refer to PeopleSoft Resolution 200731449.

6.2.15 Support for Related Display Fields

Explanation

Related display fields are not supported by component interfaces. PeopleSoft has acknowledged this limitation.

Workaround

For more information, refer to PeopleSoft Resolution 200731974, which offers several workarounds.

6.2.16 Differences Between Component Interface Functionality and Adapter Functionality

Explanation

PeopleSoft has acknowledged problems in the component interface back-end processor which will cause the adapter to act differently than the component interface test tool in three-tier mode for certain component interfaces.

PeopleSoft Case 1965239 describes a problem with the CI_JOB_DATA_HIRE Component Interface in HR 8.1x. In this situation, the NAME field is not populated by PeopleCode correctly. The workaround is to manually populate the NAME field through the XML.

PeopleSoft Resolution ID 200728981 describes a problem with the JOBCODE Component Interface which does not allow the REG_TEMP field to be changed to empty. As a workaround, customers must upgrade to a later release of PeopleTools.

Workaround

The workaround is dependent on the component interface.

6.2.17 Multiple Effective Dated Scrolls

Explanation

A failure occurs when inserting multiple effective dated rows.

Workaround

If you want to insert multiple effective dated rows for the same primary keys, then you must use two separate transactions. This limitation is tracked by PeopleSoft Incident T-ACESAR-BS362.

6.2.18 Debug Message

Explanation

For certain releases of PeopleTools 8.4x, you may receive the following message in your debug window:

```
PSProperties not yet initialized!
```

This is a PeopleSoft warning message you can ignore.

Workaround

None.

6.2.19 LOCATION Component Interface

Explanation

When you attempt to access the LOCATION Component Interface using the Human Resources application, release 8.80.000, a failure occurs during runtime and the following message is displayed:

```
Component Interface Not Found
```

This is due to a problem in the way the PeopleSoft application has been delivered and is not related to the PeopleTools release.

Workaround

Perform the following steps:

1. Open the component interface in the PeopleTools Application Designer.
2. Make a small change to the component interface.
3. Undo the change.
4. Save the component interface.

This procedure resets certain internal PeopleSoft data structures, which enables Oracle Application Adapter for PeopleSoft to find the component interface. This has been observed in the LOCATION Component Interface running on the Human Resource applications release 8.8.000 on several different releases of PeopleTools, but it may occur in other component interfaces as well.

6.2.20 Component Interface Names

Explanation

Although PeopleSoft permits component interface names that begin with certain special characters (such as an underscore), Application Explorer does not recognize such names.

Workaround

Begin component interface names with the letters A-Z or the integers 0-9.

6.2.21 Component Interface Java API Compilation Errors (People Tools 8.46)

Explanation

When you compile all Java APIs for the component interfaces using People Tools 8.46, you may encounter compilation errors with some of the component interfaces.

Workaround

You can manually correct the Java source code of the failing component interfaces. Alternatively, if the failing component interfaces are not going to be used, then remove them from the API build process and do not include them in the build.

6.3 Oracle Application Adapter for SAP R/3: Issues and Workarounds

The following topics discuss issues that pertain to Oracle Application Adapter for SAP R/3.

- [Section 6.3.1, "Supported Versions and Platforms"](#)
- [Section 6.3.2, "Date and Time Field Mapping"](#)
- [Section 6.3.3, "Intermediate Documents \(IDocs\) During Inbound Processing"](#)
- [Section 6.3.4, "MSVC 7.0 Run-Time Component DLLs"](#)
- [Section 6.3.5, "SAP IDoc Data with Japanese DBCS Characters Overflows and Truncates Characters"](#)
- [Section 6.3.6, "No Values Set for Code and Details in Binding Fault"](#)
- [Section 6.3.7, "SAP R/3 Adapter Exceptions"](#)

- [Section 6.3.8, "Inconsistent Behavior With Multiple Channels"](#)

6.3.1 Supported Versions and Platforms

The following SAP R/3 platforms are supported by Oracle Application Adapter for SAP R/3:

- SAP R/3 Enterprise 47x100
- SAP R/3 Enterprise 47x200
- mySAP ERP Central Component (ECC) 5.0, deployed on SAP NetWeaver 2004
- mySAP ERP Central Component (ECC) 6.0, deployed on SAP NetWeaver 2004s
- SAP Java Connector (SAP JCo) Version 2.18

For the current release status of the SAP Java Connector, refer to SAP Note #549268 in the SAP Service Marketplace.

Note: Release versions may vary by product component. In addition, SAP functions may vary by SAP product version and support package.

6.3.2 Date and Time Field Mapping

Many remotely callable functions have a field that has a DATE format. The adapter's DATE field object is equivalent to the ABAP DATE object as an 8 byte string with the format YYMMDD. In the SAP GUI, other profiles may be executed that transform the data display in the SAP GUI environment. However, the data is always stored in the DATE object format. For ease of use, the SAP Java Connector (JCo) converts data for DATE objects that also have the format YYYY-MM-DD to YYYYMMDD. A field must have format DATE (ABAP type D) to enable these transformations. RFC and BAPI functions employ fields with type D objects. All data for IDOCs is type C (Character) by definition of the EDI_DD40 structure in the ABAP dictionary. Therefore, IDOCs only accept the YYYYMMDD format as no conversions are performed on the field.

The adapter's TIME field object is equivalent to the ABAP TIME object as a 6 byte string with the format HHMMSS. In the SAP GUI, other profiles may be executed that transform the time display in the SAP GUI environment. However, the data is always stored in the TIME object format. For ease of use, the SAP Java Connector (JCo) converts data for TIME objects that also have the format HH:MM:SS to HHMMSS. A field must have format TIME (ABAP type T) to enable these transformations. RFC and BAPI functions employ fields with type T objects. All data for IDOCs is type C (Character) by definition of the EDI_DD40 structure in the ABAP dictionary. Therefore, IDOCs will only accept HHMMSS as no conversions are performed on the field.

6.3.3 Intermediate Documents (IDocs) During Inbound Processing

Explanation

When using collected IDocs during inbound processing (service mode) where one XML file contains multiple IDocs, if a unique sequence number is not provided, SAP R/3 will correctly identify each header as a new IDoc. However, since SAP R/3 cannot determine a correct sequence, data from the first IDoc is taken and added (duplicated) to each subsequent IDoc. Any data segments that may follow are ignored.

You must provide a unique sequence number when passing collected IDocs to SAP R/3, so SAP R/3 can correctly interpret them as a sequence and determine the order of processing.

6.3.4 MSVC 7.0 Run-Time Component DLLs

Explanation

You do not have the MSVC 7.0 (MS Visual Studio 2003) run-time component DLLs with the following components:

- SAPJCO 2.1.6
- RFC Library 6.40

Refer to SAP Note #684106 in the SAP Service Marketplace.

Workaround

You must download and install the file `msd11s.zip` with `sapjco216`, and then execute `R3DLLINS.EXE`.

See SAP note 684106 to obtain the attachment `R3DLLINST.SAR` and unpack it with the `SAPCAR.EXE` shipped with the SAP 6.40 RFC Library. The command sequence is:

```
"SAPCAR -xvf R3DLLINST.SAR. "
```

This installation is necessary only on Windows 32 systems.

6.3.5 SAP IDoc Data with Japanese DBCS Characters Overflows and Truncates Characters

Explanation

SAP IDoc data with Japanese DBCS characters overflows and truncates characters in all BSE and J2CA events and services.

Workaround

This will be fixed in a future release.

6.3.6 No Values Set for Code and Details in Binding Fault

Explanation

If you use the wrong request XML to invoke a SAP outbound process in the OSB console, then the instance will be faulted and a binding fault will be thrown. Logon to the OSB console, select the faulted instance, and click **Audit**. No values are set for Code and Details in the binding fault.

Workaround

None.

6.3.7 SAP R/3 Adapter Exceptions

Explanation

During outbound processing, the following type of exception from the OSB Business and Proxy services layer may occur in certain situations:

```
failed due to: Error in processing the input document.; nested exception is:
javax.resource.ResourceException: Error in processing the input document.
```

At the same time, the JCA log file that is generated by the adapter shows the exact error message. For example, if you use the GetDetail method for the CompanyCode SAP BAPI in your outbound processing, the following error message is shown in the JCA log file:

```
MySAP response error: BapiError: Company code 1010 does not exist
```

Workaround

Perform the following steps:

1. Start
2. Expand the SAP adapter node to view the available targets.
3. Right-click an available SAP target node and select **Edit**.
The Application Server dialog box displays the target connection information.
4. Click the **Advanced** tab.
5. From the Error Handling drop-down list select **Creates Error Document**.
6. Click the **User** tab.
7. In the Password field, type a valid password for the SAP R/3 application.
8. Click **OK**.
9. Restart

OSB Business and Proxy services generate an error message in the response XML document. For example, if you use the GetDetail method for the CompanyCode SAP BAPI in your outbound processing, the following error message is shown in the XML response:

```
<companycode_get_detail_
oct24ProcessResponseurn:sap-com:document:sap:business.responsehttp://xmlns.orac
le.com/companycode_get_detail_oct24>
<COMPANYCODE_ADDRESS> </COMPANYCODE_ADDRESS>
<COMPANYCODE_DETAIL> </COMPANYCODE_DETAIL>
<RETURN>
<TYPE>E</TYPE>
<CODE>FN020</CODE>
<MESSAGE>Company code 1010 does not exist</MESSAGE>
<LOG_MSG_NO>000000</LOG_MSG_NO>
<MESSAGE_V1>1010</MESSAGE_V1>
</RETURN>
</companycode_get_detail_oct24ProcessResponse>
```

6.3.8 Inconsistent Behavior With Multiple Channels

When different channels are created using the same ProgramID, inconsistent behavior results. If JCO.Server is registered for every channel, then SAP R/3 should load balance across different registered JCO servers. For example:

```
PROGRAMID1--->Channel1--->DEBMAS01--->Proxy1
PROGRAMID1--->Channel1--->DEBMAS01--->Proxy2
PROGRAMID1--->Channel2--->DEBMAS01--->Proxy3
```


6.4 Oracle Application Adapter for Siebel: Issues and Workarounds

The following topics discuss issues that pertain to Oracle Application Adapter for Siebel.

- [Section 6.4.1, "Siebel Versions and APIs Supported"](#)
- [Section 6.4.3, "Automatic Reconnect to Siebel"](#)
- [Section 6.4.4, "Updating or Deleting Siebel Records Using Oracle Application Adapter for Siebel"](#)
- [Section 6.4.5, "Adapter Exception Error If Siebel Request Document Contains Japanese Characters"](#)
- [Section 6.4.6, "HTTPS Protocol"](#)
- [Section 6.4.7, "Multi-Value Groups"](#)
- [Section 6.4.8, "Connection Pooling"](#)

6.4.1 Siebel Versions and APIs Supported

The following table indicates which combinations of adapter platforms and Siebel platforms are supported, and for each combination, which Siebel release and Siebel APIs are supported.

Adapter Platform	Siebel Platform	Siebel Release	API
Windows	Windows	6.0.1 - 6.2	COM
Windows	Windows	6.3 - 8.0	Java Data Bean
Windows	Solaris	6.0.1 - 8.0	Java Data Bean
Windows	AIX	6.3 - 8.0	Java Data Bean

6.4.2 Additional Configuration in the Siebel Environment

Some out-of-the-box Siebel business services may require additional setup steps in the Siebel environment before they can be run successfully. For example:

- When using a business service such as EAI XML Converter, before generating the XSD for the integration object, you should use Siebel tools to remove the 'xml container element' tag in the integration components you plan to use.
- When building a solution with the EAI dispatch service business service, you may need to set up a named subsystem to handle HTTP requests.

6.4.3 Automatic Reconnect to Siebel

Explanation

When connecting to Siebel using the Java Data Bean Interface, you cannot reconnect after initial connection loss. This might occur when Application Explorer experiences a brief loss of network connection or if the Siebel Server or Gateway Service is restarted while Application Explorer is logged into the Siebel application.

Workaround

To log in successfully to the Siebel application, restart your application server and Application Explorer. This is a known Siebel API issue. Refer to Siebel Alert 984 for more information.

6.4.4 Updating or Deleting Siebel Records Using Oracle Application Adapter for Siebel

Explanation

If you are logged in as a Siebel user that does not belong to the team that owns the record being updated or deleted, then you cannot perform the action. By default, the adapter is set to 'My' view. However, in Siebel Access Control there are other views, such as 'All' view and 'Organization' view. Therefore, even if the user does not belong to the team and the record is not visible in 'My' view, the user may be able to update or delete the record through another view in the Siebel front end. This is not possible through the adapter. The adapter requires that the user is part of the team of the record being updated or deleted.

Workaround

There are two possible workarounds:

- Log in through the Siebel adapter as a user that is already part of the team that owns the record you need to update or delete.
- Add the user to the team that owns the record you need to update or delete.

6.4.5 Adapter Exception Error If Siebel Request Document Contains Japanese Characters

Explanation

An adapter exception error is returned if the Siebel request document contains Japanese characters in J2CA. The same request works in BSE.

Workaround

This will be fixed in a future release.

6.4.6 HTTPS Protocol

Explanation

Oracle Application Adapter for Siebel does not support the HTTPS protocol for services and events.

Workaround

None.

6.4.7 Multi-Value Groups

Explanation

Oracle Application Adapter for Siebel does not support Multi-Value Groups (MVG) with join specifications.

Workaround

None.

6.4.8 Connection Pooling

Explanation

Oracle Application Adapter for Siebel does not support the connection pooling facility.

Workaround

None.

6.5 Oracle Application Adapter for J.D. Edwards: Issues and Workarounds

The following topic discusses issues that pertain to Oracle Application Adapter for J.D. Edwards .

- [Section 6.5.1, "J.D. Edwards Platforms, Products, and Releases Supported"](#)
- [Section 6.5.2, "J.D. Edwards Unit Of Work \(UOW\)"](#)

6.5.1 J.D. Edwards Platforms, Products, and Releases Supported

The following table indicates which combinations of adapter platforms and J.D. Edwards platforms are supported, and for each combination, which J.D. Edwards products and releases are supported.

Adapter Platform	J.D. Edwards Platform	J.D. Edwards Product and Release
Windows, AS400, HP 9000/B, Sun or IBM RS/6000	Windows, AS400, HP 9000/B, Sun or IBM RS/6000	<ul style="list-style-type: none"> ■ XE (B7333) from SP19 to SP23 ■ ERP 8.0 (B7334) ■ EnterpriseOne B9 (8.9) ■ EnterpriseOne 8.10 (Tools Release 8.93 and 8.94) ■ EnterpriseOne 8.11 (SP1) ■ EnterpriseOne 8.12 (Tools Release 8.96 2.0)

6.5.2 J.D. Edwards Unit Of Work (UOW)

The following section provides information on the J.D. Edwards Unit of Work (UOW).

1. iWay recommends the customer to generate individual business functions of J.D. Edwards and then group them together.
2. Generating the individual business functions and grouping them together is completely based on the experience and knowledge related to the business functions of J.D. Edwards. There is no documentation on generating the UOW.
3. To create the XML Schema Document (XSD) files that can be used for UOW, perform the following steps:
 - a. Trigger the appropriate event from the J.D. Edwards GUI and generate an XML output file based on the event.
 - b. Using the XML file, create an XSD file using an XML editor, such as XMLSPY.
 - c. When creating the XSD, make sure that the XSD satisfies the SOA 10.3.1.0 namespace requirements. Manually add the namespace, target namespace, and other items that are required for SOA 10.3.1.0.
4. Once generated, copy the XSD files for the UOW into the repository folder. This repository folder is automatically configured on your file system when a J.D. Edwards target is created using Application Explorer.

