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Contents

Release Notes .................................................................................................................. 1

New Features.................................................................................................................. 2
Release 5.5 ..................................................................................................................... 2
Release 5.4 ..................................................................................................................... 3
Release 5.3 ..................................................................................................................... 4
Release 5.2 ..................................................................................................................... 5
Release 5.1 ..................................................................................................................... 6

Changes in Functionality ................................................................................................. 10
Release 5.5 ..................................................................................................................... 10
Release 5.4 ..................................................................................................................... 10
Release 5.3 ..................................................................................................................... 10
Release 5.2 ..................................................................................................................... 11
Release 5.1 ..................................................................................................................... 11

Deprecated Features ....................................................................................................... 14
Release 5.5 ..................................................................................................................... 14
Release 5.4 ..................................................................................................................... 14
Release 5.3 ..................................................................................................................... 14
Release 5.2 ..................................................................................................................... 14
Release 5.1 ..................................................................................................................... 14

Migration and Compatibility ............................................................................................. 15

Closed Issues .................................................................................................................. 16

Known Issues .................................................................................................................. 28
Release Notes

Check the TIBCO Product Support web site at https://support.tibco.com for product information that was not available at release time. Entry to this site requires a username and password. If you do not have a username, you can request one. You must have a valid maintenance or support contract to use this site.

Topics

- New Features, page 2
- Changes in Functionality, page 10
- Deprecated Features, page 14
- Migration and Compatibility, page 15
- Closed Issues, page 16
- Known Issues, page 28
New Features

This section lists features added since the last major (5.0) release of this product.

Release 5.5

The following are new features in this release.

- **Support for Notification Service**
  TIBCO Adapter for CORBA publication and subscription services support Orbix 6.3 for C++ with Notification Service. The structured events, filter, Quality of Service, and sharing subscription capabilities of Notification Service are supported.

- **Support for Loading Multiple IDL Files**
  You can load multiple IDL files from which the schema is to be generated at design time.

- **Added Platform Support**
  — Microsoft Windows 2003
  — Microsoft Windows Vista
  — HP-UX 11i V3 on Itanium

- **Added ORB Support**
  Support for Visibroker 7 have been added for the following platforms:
  — Microsoft Windows 2003
  — Microsoft Windows XP
  — HP-UX 11i V2 on Itanium
  — Solaris 8, 9, and 10
  — Red Hat Enterprise Linux 4.x
Support for Orbix 6.3 has been added for the following platforms:
  — Microsoft Windows 2003
  — Microsoft Windows XP
  — Microsoft Windows Vista
  — HP-UX 11i V2, V3 on Itanium
  — Solaris 8, 9, and 10
  — AIX 5.2 and 5.3

- **Added Log Messages into the Debug Mode**
  The adapter adds more log messages into the debug mode for tracing the process of the operations.

- **Global Variable Enhancement**
  The following two fields, Number of ActiveEnterprise threads per session and Number of ORB threads per session, can now be configured as global variables.

**Release 5.4**

The following are new features in this release.

- **Added Platform Support** The Red Hat Enterprise Linux 3.0 and 4.0 and HP Itanium platforms are now supported.

- **Added ORB Support**
  Support for the IONA ORBacus 4.3.1 ORB has been added for the following platforms:
  — Microsoft Windows
  — Solaris
  — HP-UX
  — HP-Itanium

  Support for the ACE ORB (TAO) 1.5 has been added for the following platforms:
  — Microsoft Windows
  — Solaris
  — HP-UX
Support for the OCI ACE ORB (TAO) 1.3a_p12 has been added for the following platforms:

- Microsoft Windows
- Solaris
- HP-UX

Release 5.3

**Enhanced GUI to Support Factory Pattern for Communication from TIBCO ActiveEnterprise to CORBA**

The adapter palette now provides an option to select interfaces as a factory interface for communication from TIBCO ActiveEnterprise to CORBA. The `CA_IOR` field is added automatically to all methods in the schema for those interfaces that have been marked as factory interfaces.

When this option is selected, the adapter does not display an invalid object name error even if a cosname component is not configured for the service. If the `CA_IOR` field is empty or invalid, the adapter displays an error message stating that and tries to connect using the Naming Service or IOR file.

**Added ORB Support**

Support for the Borland VisiBroker 6.5 ORB for C++ has been added for the following platforms:

- Microsoft Windows 2000/XP
- Solaris 8
- Solaris 9

Support for the ORBacus 4.3 ORB for C++ has been added for the following platforms:

- Microsoft Windows
- Solaris 8
- Solaris 9
- HP-UX 11.0
- HP-UX 11i

**Support for Complex Types in Any**

The adapter supports complex data types such as sequences, arrays, structures, unions, enums, and exceptions, in addition to basic (scalar or primitive) data types in TIBCO Any, for communication from TIBCO
ActiveEnterprise to CORBA, and vice-versa in CORBA Any, for the following ORBs also:

- Borland VisiBroker 6.5 for C++
- IONA ORBacus 4.3 for C++

**Increased Interoperability with CORBA ORBs**

The following:

- TIBCO Adapter for CORBA, for IONA ORBacus 4.1.2 for C++
- TIBCO Adapter for CORBA, for IONA ORBacus 4.3 for C++
- TIBCO Adapter for CORBA, for Borland VisiBroker 6.5 for C++ (on Microsoft Windows and Solaris 8 and 9 only)
- TIBCO Adapter for CORBA, for IONA Orbix 6.2 for C++ (on AIX 5.1 and 5.2 and Microsoft Windows only)

have been tested for interoperability (at the IIOP level) with applications based on the following C++ ORBs:

- TIBCO Adapter for CORBA, for Borland VisiBroker 6.5 for C++ (on Microsoft Windows and Solaris 8 and 9 only)
- TIBCO Adapter for CORBA, for IONA ORBacus 4.3 for C++

The following:

- TIBCO Adapter for CORBA, for Borland VisiBroker 6.5 for C++ (on Microsoft Windows and Solaris 8 and 9 only)

have been tested for interoperability (at the IIOP level) with applications based on the following Java ORBs:

- Borland VisiBroker 6.5 for Java

For the interoperating combinations that are supported, see Table 17, Adapter and ORB Interoperability Matrix in the *TIBCO Adapter for CORBA User’s Guide.*

**Release 5.2**

**Added Platform Support**

Support for IBM AIX 5.1 and IBM AIX 5.2 has been added (only for IONA Orbix 6.2 for C++).

TIBCO Adapter for CORBA, for IONA Orbix 6.2 for C++ is supported on AIX 5.1 and 5.2 with Visual Age C++ 5.0.

**Added ORB Support**
Support for IONA Orbix 6.2 on Microsoft Windows, IBM AIX 5.1 and IBM AIX 5.2 has been added.

- **Increased Interoperability with CORBA ORBs**

  The following:
  
  - TIBCO Adapter for CORBA, for IONA ORBacus 4.1.2 for C++
  - TIBCO Adapter for CORBA, for Borland VisiBroker 5.2.1 for C++
  - TIBCO Adapter for CORBA, for IONA Orbix 6.2 for C++ (on AIX 5.1 and 5.2 and Microsoft Windows only)

  have been tested for interoperability (at the IIOP level) with applications based on the following ORB:
  
  - IONA Orbix 6.2 for C++ (on AIX and Microsoft Windows only)

  The following:
  
  - TIBCO Adapter for CORBA, for Borland VisiBroker 5.2.1 for C++

  has been tested for interoperability (at the IIOP level) with applications based on the following ORB:
  
  - Borland VisiBroker 5.2.1 for Java

  For the interoperating combinations that are supported, see Table 17, Adapter and ORB Interoperability Matrix in the *TIBCO Adapter for CORBA User’s Guide*.

- **Support for Complex Types in Any**

  The adapter now supports complex data types, such as sequences, arrays, structures, unions, enums, and exceptions, in addition to basic (scalar or primitive) data types in TIBCO Any, for communication from TIBCO ActiveEnterprise to CORBA, and vice-versa in CORBA Any.

  Currently, this feature is supported only for the following ORBs:
  
  - IONA ORBacus 4.1.2 for C++
  - IONA Orbix 6.2 for C++
  - Borland VisiBroker 5.2.1 for C++

**Release 5.1**

- **Support for Additional Orbs**
The adapter supports the following ORBs:

— IONA ORBacus 4.1.2 for C++
— IONA Orbix 3.3.6 for C++
— Borland VisiBroker 4.5 for C++
— Borland VisiBroker 5.2.1 for C++

The adapter can only use the following CORBA Services provided by the respective ORB for which it is installed: Interface Repository, Naming Service, and Event Service.

**Increased Interoperability with CORBA ORBs**

The adapter interoperates with CORBA 2.3, 2.4, 2.5, and 2.6 compliant ORBs. It has been tested for interoperability with the following ORBs:

— IONA ORBacus 4.0.5 for C++ and Java
— IONA ORBacus 4.1.1 for C++ and Java
— IONA ORBacus 4.1.2 for C++ and Java
— Borland VisiBroker 4.5 for C++
— Borland VisiBroker 5.2.1 for C++
— IONA Orbix 3.3.6 for C++

The adapter is tested for interoperability only on the following platforms:

— Microsoft Windows NT 4.0 (Workstation or Server) with Service Pack 6a.
— Microsoft Windows 2000 (Professional, Server or Advanced Server) with Service Pack 3.
— Microsoft Windows XP (Professional) with Service Pack 1a.
— Solaris 9, 8, or 7 with the latest patches from http://sunsolve.sun.com.
— HP-UX 11 or 11i with the latest patches from http://www1.itrc.hp.com/.

The adapter does not support Portable Interceptors, CORBA Messaging, CORBA Notification Service, and CORBA Fault Tolerance features.

The adapter does not interoperate with the following ORBs:

— Borland VisiBroker 4.0 for C++ and Java
— IONA Orbix 3.0.1 for C++
— OmniORB (all versions).

**Added Platform Support**
This release of the adapter supports Solaris 9 and Microsoft Windows XP Professional.

- **Easy-to-use GUI**
  The adapter now provides an easy-to-use intuitive GUI for configuring the adapter through TIBCO Designer.

- **Support for TIBCO BusinessWorks 5.1**
  The adapter can be used in a TIBCO BusinessWorks 5.1 process.

- **TIBCO BusinessWorks Examples**
  TIBCO BusinessWorks examples are provided as part of the adapter installation to demonstrate common business scenarios.

- **TIBCO Administrator 5.1.2 Compliance**
  The adapter supports TIBCO Administrator 5.1.2.

- **Support for Internationalization**
  The adapter provides support for many encodings. For more information on supported encodings, see the *TIBCO Adapter for CORBA User’s Guide*.

- **Support for the XML Wire Format**
  The adapter supports the XML wire format for the JMS transport.

- **Support for the JMS transport**
  In previous releases, an adapter service could use only the TIBCO Rendezvous transport. In this release, the JMS (Java Messaging Service) transport is also available. An adapter service that uses the JMS transport can communicate only with the TIBCO Enterprise for JMS server.

- **Support for Multi-file Format Projects**
  TIBCO Designer 5.x now allows you to save adapter projects in multi-file format at design-time. This format is useful if multiple adapter configuration are defined in the same project and worked on by several developers. The adapter configuration files can be managed by a version control system.

- **Standard Connection Management**
  All adapters now use the same mechanism to handle connection loss to the vendor application.

- **Standard Error Management**
  All adapters now use the same mechanism to report errors. Error messages provide more detail, are contextual and can be applied uniformly across adapters. Low-level exception messages like system and TIBCO Rendezvous messages now have appropriate adapter-level information. The error
messages descriptions and resolutions are documented in the adapter’s User’s Guide.

- **New Installer**
  
  The new installer program has three modes available for installation: GUI, console, and silent. The GUI mode presents panels that allow you to make choices about product selection, product location, and so on. Console mode allows you to make installation choices from the command line. Silent mode either installs using the default settings or uses a response file that was saved during an earlier installation.

- **TIBCO Hawk Microagents**
  
  In addition to the standard microagent that are available with any TIBCO ActiveEnterprise-compliant adapter, the adapter provides its own microagent. In this release, this microagent provides methods for getting basic processing-related statistics at run time such as `getActivityStatistics()`, `getActivityStatisticsBySchema()`, `getActivityStatisticsByService()`, `getConnectionStatistics()`, `getQueueStatistics()`, `resetActivityStatistics()`, `resetConnectionStatistics()`.
Changes in Functionality

This section lists changes in functionality since the last major (x.0.0) release of this product.

Release 5.5

The following are changes in functionality in this release.

- **Dropped ORB Support**
  - Borland VisiBroker 6.5 for C++ is no longer supported.
  - Progress Orbix 6.2 is no longer supported.

- **Dropped Platform Support**
  - Microsoft Windows 2000
  - Red Hat Enterprise Linux 3.0

Release 5.4

The following are changes in functionality in this release.

- **Dropped ORB Support**
  The following ORBS are no longer supported:
  - Orbacus 4.1.2
  - VisiBroker 5.2.1

- **Dropped Platform Support**
  The following platforms are no longer supported:
  - Solaris 7
  - AIX 5.1

Release 5.3

The following are changes in functionality in this release.

- **Dropped ORB Support**
  Borland VisiBroker 5.2.1 is no longer supported. Support for interoperability with CORBA applications based on VisiBroker 5.2.1 is no longer available.
Borland has desupported VisiBroker 5.2.1. Information about this is available on their web site:

http://support.borland.com/entry.jspa?externalID=126&categoryID=112

- **Adapter Start-up Behavior when NS and IFR References are Invalid**

  During startup, the adapter shuts down if the following failures occur:

  - NS is not started, no valid ORBInitRef reference is provided and the NS.ior file is not available, is empty or invalid.
  - IFR is not started, no valid ORBInitRef reference is provided and IFR.ior file is not available, is empty or invalid.

**Release 5.2**

The following are changes in functionality in this release.

- **Dropped ORB Support**

  Borland VisiBroker 4.5 is no longer supported. Support for interoperability with CORBA applications based on VisiBroker 4.5 is no longer available.

  Borland has desupported VisiBroker 4.5. Information about this is available on their web site:

  http://support.borland.com/entry.jspa?externalID=126&categoryID=112

**Release 5.1**

The following are changes in functionality in this release.

- **RVCM Handling**

  Previously, the adapter immediately acknowledged every incoming message on receipt of the message using the TIBCO Rendezvous transport and Certified quality of service. The functionality has now been enhanced to provide the acknowledgement after the CORBA service is successfully invoked.

- **Automatic Detection of IOR Changes**

  When the IOR of a CORBA server application changes, the adapter can automatically reconnect to the CORBA server without being restarted or without manual intervention. This is especially useful when the CORBA server’s ORB is Load Balanced.

- **Enhanced Connection Management with DSI Proxies**

  When the adapter behaves as a DSI proxy, its IOR can be configured to remain constant across restarts. This helps CORBA client applications to
communicate with the adapter even in the absence of a Naming Service, by using static IORs.

- **Dropped Platform Support**
  Solaris 2.6 is no longer supported.

- **Dropped ORB Support**
  ORBacus 4.1.1 and 4.0.5 are no longer supported.

- **Dropped API Libraries Support**
  The adapter provided a C++ API in the form of a static library that allowed users to embed the adapter into their CORBA applications. This has been removed.

- **TIBCO Rendezvous TX No Longer Supported**
  The TIBCO Rendezvous Transactional quality of service option is no longer supported. The option is still available in the adapter’s palette for backward compatibility with previous adapter releases.

- **TIBCO Hawk Class Agent Property**
  The adcorba.addCustomHawkMethodsToStdMAgent <on/off> property has been added to the adapter’s properties file. The property is on by default. Setting the property to off disallows adding custom methods to the adapter’s standard microagent.

- **Changed TIBCO Hawk Methods**
  The following TIBCO Hawk methods have changed parameters and are now available in the adapter’s class microagent:

  - `getActivityStatistics()`
  - `getActivityStatisticsByOperation()`
  - `getActivityStatisticsBySchema()`
  - `getActivityStatisticsByService()`
  - `getThreadStatistics()`
  - `getQueueStatistics()`
  - `getConnectionStatistics()`
The following parameters for the above methods are new or have changed (where applicable). In addition, the parameter order for some of the above methods has changed.

- The new output parameter `MeasurementInterval` displays the time (in seconds) since last time the adapter was reset, or if never reset, since the adapter started.

- The `Total`, `Success`, and `Failure` output parameters type has changed from `string` to `integer`.

- The new output parameter `LineIndex` is used as an index for the method. Its value is a concatenated string of the `Operation` and `ServiceName` parameters separated by a comma.

- The new output parameter `NumLostConnections` displays the total number of times the connection has been lost.

• **Installer Changes**

  The adapter installation program no longer includes the TIBCO Runtime Agent software, which is required by the adapter. The software must be installed prior to installing the adapter.

  For adapter installations on Microsoft Windows platforms, all dlls are placed in the `lib` subdirectory of the adapter installation directory.

  The adapter installation has a new folder called `hotfix`. The `hotfix` folder has two sub folders called `lib` and `bin`. The hotfix patches will be placed in these sub folders.

  All paths in the tra file will first be prepended with `<ADCORBA_HOME>/hotfix/lib` and `<ADCORBA_HOME>/hotfix/bin` followed by `<ADCORBA_HOME>/lib` and `<ADCORBA_HOME>/bin`.

• **Repository Server**

  The repository server is now a component of TIBCO Administrator. Access control to the repository server can be set using TIBCO Administrator.
Deprecated Features

This section describes deprecated features and lists equivalent features that accomplish the same result, if relevant. Any use of a deprecated feature should be discontinued as it may be removed in a future release. You should avoid becoming dependent on deprecated features and become familiar with the equivalent feature.

Release 5.5

No features are deprecated in this release.

Release 5.4

No features are deprecated in this release.

Release 5.3

The following features are deprecated in this release.

- **Deprecate ORBacus 4.1.2 ORB** The ORBacus 4.1.2 ORB is deprecated. It is recommended that customers migrate to the ORBacus 4.3 ORB.

Release 5.2

No features are deprecated in this release.

Release 5.1

No features are deprecated in this release.
Migration and Compatibility

This section explains how to migrate from a previous release to this release. This section provides information on the adapter’s compatibility with and its data migration support for other TIBCO applications.

For information on the adapter’s compatibility with TIBCO Runtime Agent (TRA) and other TIBCO applications, see TIBCO Adapter for CORBA readme.txt.

For information on migrating to a newer version of TIBCO Runtime Agent, see the TIBCO Runtime Agent documentation. For example, if you need information on migrating to TIBCO Runtime Agent 5.6.0, see TIBCO Runtime Agent Upgrading to Release 5.6.

Make a backup of the project you are migrating to ActiveEnterprise 5.x before starting the migration process.

You must migrate 4.x repositories before using them in TIBCO Designer 5.6.

Use the migration tool provided with the adapter to migrate 4.x repositories to TIBCO Designer 5.6. For details on using this tool, see Migrating a 4.x Repository for Use with TIBCO Designer 5.x in the TIBCO Adapter for CORBA Installation documentation.
## Closed Issues

The table in this section list issues that were closed in the named releases.

<table>
<thead>
<tr>
<th>Closed in Release</th>
<th>Change Request ID</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5.0</td>
<td>1-7WMPDG</td>
<td>The adapter failed to start on the Linux platform if TIBCO Runtime Agent 5.5.0 was used.</td>
</tr>
<tr>
<td>5.5.0</td>
<td>1-9XICT6</td>
<td>Core dumps occurred in the Solaris platform if the \texttt{CA_IOR} field was not specified.</td>
</tr>
<tr>
<td>5.5.0</td>
<td>1-7AXTP5</td>
<td>The Basic examples packed with the adapter were not compiled correctly when using TIBCO SDK 5.4.0 or above.</td>
</tr>
<tr>
<td>5.5.0</td>
<td>1-97JC6X</td>
<td>When using Orbix for C++, the adapter did not correctly convert integer values in the Corba message.</td>
</tr>
<tr>
<td>5.5.0</td>
<td>1-97JC7F</td>
<td>When using Orbix for C++, the adapter failed to extract the strings sent as a value for multi-level typedefs variables and also resulted in errors.</td>
</tr>
<tr>
<td>5.5.0</td>
<td>1-9IEXT3</td>
<td>(Solaris Only) The adapter stopped responding while processing NULL values.</td>
</tr>
<tr>
<td>5.4.0</td>
<td>1-70ICWH</td>
<td>Exceptions containing wide-characters strings were not processed.</td>
</tr>
<tr>
<td>5.4.0</td>
<td>1-78XYI5</td>
<td>The Adapter experienced startup errors when running an adapter instance with two RRI services (one using RV and the other using JMS transport).</td>
</tr>
<tr>
<td>5.4.0</td>
<td>1-76PW70</td>
<td>In the CORBA to TIBCO scenario, you could not limit the maximum number of requests processed in parallel.</td>
</tr>
<tr>
<td>5.4.0</td>
<td>1-6ZXOTP</td>
<td>Incorrect responses from TIBCO Integration Manager resulted in the adapter crashing on the Solaris platform.</td>
</tr>
<tr>
<td>5.3.0</td>
<td>1-1DSV21</td>
<td>When an IDL file being imported into TIBCO Designer contained an interface that should be created by a factory, the \texttt{IDL to Schema} tab in the adapter palette did not generate a \texttt{CA_IOR} field in that interface's schema.</td>
</tr>
<tr>
<td>Closed in Release</td>
<td>Change Request ID</td>
<td>Summary</td>
</tr>
<tr>
<td>------------------</td>
<td>-------------------</td>
<td>---------</td>
</tr>
<tr>
<td>5.3.0</td>
<td>1-23CL5X</td>
<td>When the adapter was running the Request-Response Invocation service on HP-UX 11.x, it used to unexpectedly terminate after it received a request from a CORBA client. This behavior was seen only when using ORBacus 4.1.2 for C++.</td>
</tr>
<tr>
<td>5.3.0</td>
<td>1-4DG8W7</td>
<td>When TIBCO Adapter for CORBA was shut down from TIBCO Administrator or a termination message was sent to shut it down, the adapter did not shut down.</td>
</tr>
<tr>
<td>5.3.0</td>
<td>1-6GD7GO</td>
<td>When the adapter was configured with the request-response service, it did not return the CA_STATUS field for successful invocations.</td>
</tr>
</tbody>
</table>
| 5.3.0            | 1-6N898N          | During startup, if the Naming Service reference or Interface Repository reference was invalid, the adapter used to display an error message and remain active but not process any requests.  
This is fixed. The adapter now shuts down in the above scenario. For details, see Adapter Start-up Behavior when NS and IFR References are Invalid in the Changes in Functionality section. |
| 5.3.0            | 1-6RGSXH          | When the TIBCO Adapter for CORBA for Orbix 3.3 for C++ was configured with a Publication or Subscription service, with the event channel configuration, it used to display an error message during startup. No events were processed by the adapter. |
| 5.2.0            | 1-1RPDMZ          | The adapter did not initialize correctly when it was started using TIBCO Designer's Adapter Tester, in scenarios where the adapter depended on command-line parameters that were passed to it through its properties file. For example, when used with VisiBroker 5.2.1, the adapter could not be started using TIBCO Designer's Adapter Tester as the Adapter Tester was discarding all adapter-specific arguments that were passed to the adapter from the application.args property in the adapter's properties file.  
This defect has been fixed. For example, to start the adapter from TIBCO Designer’s Adapter Tester, when it is using VisiBroker 5.2.1, you should add the argument -ORBInitRef NameService=corbaloc::<hostname>::<port>/NameService to the application.args property field in the adapter's properties file (adcorba.tra). |
<p>| 5.2.0            | 1-1RXUA5          | CORBA Any with NULL maps to AE  Any with NULL: Previously, during communication from CORBA to TIBCO ActiveEnterprise, the adapter used to transmit an empty field for a CORBA Any with NULL value. |</p>
<table>
<thead>
<tr>
<th>Closed in Release</th>
<th>Change Request ID</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2.0</td>
<td>1-2IEDC5</td>
<td>TIBCO Adapter for CORBA, for VisiBroker 5.2.1, was not correctly transmitting User Defined Exceptions, from a CORBA server to a TIBCO client.</td>
</tr>
<tr>
<td>5.2.0</td>
<td>1-2MTA8P</td>
<td>When the adapter was configured with the subscription or request-response server service, it could not reconnect to the CORBA server if the adapter was configured to use the file containing the IOR of the interface object instead of the Naming Service.</td>
</tr>
<tr>
<td>5.2.0</td>
<td>1-2O7RAL</td>
<td>The adapter failed to convert messages that contained object references that were either method parameters or embedded in complex data structures such as sequences, arrays, structures, unions, and exceptions.</td>
</tr>
<tr>
<td>5.2.0</td>
<td>1-3BSCAL</td>
<td>CORBA Nil Object Reference maps to <code>AE NULL</code>: Previously, during communication from CORBA to TIBCO ActiveEnterprise, the adapter used to display an exception when a CORBA Nil Object Reference was passed in an <code>any</code>.</td>
</tr>
<tr>
<td>5.2.0</td>
<td>1-3FI3M4</td>
<td>The adapter used to terminate unexpectedly when it was configured with a service that used the Naming Service to retrieve the IOR of the interface object, but had no <code>CosName</code> component configured.</td>
</tr>
<tr>
<td>5.2.0</td>
<td>1-3FIHAX</td>
<td>When a value was specified for the <code>Version of Interface</code> in <code>Interface Repository</code> field on the <code>Interface Configuration</code> tab, and the project was saved and reopened, the saved value was not retained.</td>
</tr>
<tr>
<td>Closed in Release</td>
<td>Change Request ID</td>
<td>Summary</td>
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<tr>
<td>-------------------</td>
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</tr>
<tr>
<td>5.2.0</td>
<td>1-3I12R2</td>
<td>When an IDL file contained identically-scoped module definitions that were repeated, references to scoped definitions at the same level in subsequent instances caused an error while importing schema from the IDL. For example:</td>
</tr>
</tbody>
</table>

```plaintext
module A {
    module B {
        module C {
            typedef sequence<string> StringList;
        };
    };
    module A {
        module B {
            module C {
                struct MyStruct {
                    A::B::C::StringList errorParams;
                };
            };
        };
    };
```
When the adapter was configured with a Subscription or Request-Response service and it received a system or user exception from a CORBA server, the adapter attempted to reconnect to the CORBA server. If it failed to reconnect after a specified number of retries, the adapter shut down without sending the exception back to the client.

This defect has been fixed.

- A new flag called `dontExitOnException` has been added to modify the adapter behavior such that when it receives a system or user exception from a CORBA server, it does the following:
  - Retries for the number of times specified in the `Maximum number of Reconnect Attempts` field, in the Run-time Connection tab.
  - (Subscription service only) Suspends the subscribers after retrying for the number of times specified in the `Number of Reconnect Attempts before Suspending Impacted Service(s)` field, in the Run-time Connection tab.
  - After reaching the maximum number of retries, it transmits the system or user exception back to the client.
  - (Subscription service only) Re-activates the subscribers.
  - Does not shut down.

- This flag can be turned on with the values `TRUE` or `ON` (these values are case-insensitive). The default value for this flag is `FALSE` (if the flag is absent, the adapter assumes the value is `FALSE`).

- The flag can be set in the adapter properties file as follows: `adcorba.dontExitOnException` `TRUE`.

- The flag can also be supplied as a parameter to the command line as follows: `-system:dontExitOnException` `TRUE`.

- A debug message (AECORBA-050073) at adapter start-up, and a warning message (AECORBA-890021) after connection retry have been added for this flag. They are:
  - AECORBA-050073: Exit after Connection Retry has been turned off for UserExceptions and SystemExceptions.
  - AECORBA-890021: The adapter received an exception from the CORBA server for service `<service name>` and will not exit.
<table>
<thead>
<tr>
<th>Closed in Release</th>
<th>Change Request ID</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2.0</td>
<td>1-535DYL</td>
<td>The adapter displayed an error when the object reference was read from a file containing the IOR and when the file did not have a new line character at the end. This defect has been fixed. The adapter is able to handle IOR files that may end with or without a new line character.</td>
</tr>
<tr>
<td>5.2.0</td>
<td>1-5P8VS7</td>
<td>When the adapter was configured with a Subscription or Request-Response service that did not have a valid IOR configured either through a CosName component, a Server IOR file, or a CA_IOR field, it incorrectly displayed a message indicating that it was failing while attempting to re-connect to the server; and failed to return any error to the TIBCO client. This defect has been fixed. The following new error message is displayed: 890022 – The adapter failed in its reconnect attempt &lt;attempt iteration number&gt; with the CORBA server for service &lt;service_name&gt;. No valid IOR was available from a CosName component or IOR file or CA_IOR field. A valid IOR must be configured for the service. The adapter displays this message during reconnect attempts. The adapter shuts down after failed retries. An error status of 1 is returned as the CA_STATUS.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1E2JF</td>
<td>When an IDL file contained errors, the IDL to Schema converter sometimes did not report the correct file name, line number, and type of error. This defect has been fixed. The IDL to Schema converter now reports the correct file name, line number, and type of error.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1E7315</td>
<td>The adapter, used with VisiBroker 4.5 for C++ or VisiBroker 5.2.1 for C++, would unexpectedly terminate sometimes due to the incorrect use of _var types in the adapter.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1E731O</td>
<td>When the adapter was used with VisiBroker 4.5 for C++ or VisiBroker 5.2.1 for C++, the adapter could not support connection management with CORBA servers. If connection management was enabled when using the above versions of VisiBroker for C++, the adapter could not contact the CORBA server, and would unexpectedly terminate when attempting to reestablish a connection. This defect has been fixed</td>
</tr>
<tr>
<td>Closed in Release</td>
<td>Change Request ID</td>
<td>Summary</td>
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</tr>
<tr>
<td>5.1.1</td>
<td>1-1GIUEH</td>
<td>When converting IDL files into ActiveEnterprise schema, the IDL to Schema converter did not correctly parse the following pre-processor directives in IDL files: <code>#include</code>, <code>#pragma</code>, <code>#define</code>, <code>#undef</code>, <code>#ifdef</code>, <code>#ifndef</code>, <code>#else</code>, <code>#endif</code>. This defect has been fixed. The IDL to Schema convertor now only supports the following pre-processor directives: <code>#include</code>, <code>#pragma</code>, <code>#define</code>, <code>#undef</code>, <code>#ifdef</code>, <code>#ifndef</code>, <code>#else</code>, <code>#endif</code>.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1GIUFL</td>
<td>The 5.x adapter palette did not correctly migrate 4.x adapter configurations. The mandatory Event Service information from 4.x instances was silently discarded. This caused a failure in the initialization of the adapter’s Publication and Subscription services configured to use the Event Service. This defect has been fixed. All Event Service configuration information is correctly migrated.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1GIUG2 1-1ERABX 1-1ERCYD 1-1HURYA</td>
<td>The examples shipped with the adapter contained some incorrect <code>.dat</code> files, and some of the example clients and servers were unstable. The GNU makefiles shipped with some of the examples were faulty, and prevented the client and server executables from being built. These have been fixed.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1H8RPD</td>
<td>The adapter did not set the VisiBroker ORB with the properties specified in the repository, such as connection management properties; instead, it ignored them.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1H8RPZ</td>
<td>The adapter did not use the Interoperating ORB field from the repository to tailor its access to the Interface Repository of the specified ORB. Instead it ignored it. This sometimes caused the adapter to be unable to contact the Interface Repository.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1H8ZYL</td>
<td>The adapter did not process data contained inside IDL attributes and CORBA anys correctly when using Orbix 3.3.6 for C++.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1HHXO4</td>
<td>When attempting to change the version of an adapter configuration instance using the adapter palette, the version number 5.0.0 was incorrectly displayed as an option.</td>
</tr>
<tr>
<td>Closed in Release</td>
<td>Change Request ID</td>
<td>Summary</td>
</tr>
<tr>
<td>-------------------</td>
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</tr>
<tr>
<td>5.1.1</td>
<td>1-1HOYNH</td>
<td>The adapter sometimes terminated unexpectedly when using Orbix 3.3.6 for C++ while running the Subscription and Request-Response Server services for the TIBCO to CORBA scenarios when the client sends data more than once to the adapter.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1JURLI</td>
<td>The adapter could not interoperate with some of the demo CORBA servers shipped with the installation of Orbix 3.3.6 for C++.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1KBVH1</td>
<td>The adapter used to unexpectedly terminate when it received messages in the XML wire format over the TIBCO Rendezvous transport.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1KBVHH</td>
<td>When a two-way invocation publication service was used with the XML wire format, over the JMS transport, the adapter sometimes terminated unexpectedly.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1KDHNH</td>
<td>If the IDL to Schema converter failed to convert an IDL file into an ActiveEnterprise schema, it sometimes incorrectly used the last IDL file that was successfully converted. This defect has been fixed. If any error occurs during schema generation, no schema is generated.</td>
</tr>
</tbody>
</table>
| 5.1.1             | 1-1KDHO0          | When an interface in an IDL file was nested in a module, the palette failed to prepend the module name to the Interface Repository ID that it generated for that interface. For example, for the following IDL,  

```idl
MyModule {
    interface Test {
    };
```

the correct Interface Repository ID is `IDL:MyModule/Test:1.0`. The module name was missed in the Interface Repository ID. |
<p>| 5.1.1             | 1-1KDMTL          | When an IDL file contained identifiers that were preceded by scope resolution operators, the IDL to Schema converter could not correctly parse that IDL file and did not generate the schema correctly. This defect has been fixed. The IDL to Schema converter now correctly handles identifiers preceded by scope resolution operators. |
| 5.1.1             | 1-1KDMU4          | When an IDL file contained definitions of user exceptions, the IDL to Schema converter failed to generate ActiveEnterprise schema as well as references to those user exceptions. |</p>
<table>
<thead>
<tr>
<th>Closed in Release</th>
<th>Change Request ID</th>
<th>Summary</th>
</tr>
</thead>
</table>
| 5.1.1             | 1-1KI86D         | When an IDL file contained structures that were type defined in shorthand, the IDL to Schema converter did not correctly generate ActiveEnterprise schema for those structures. For example:  
typedef struct S1 {  
    long age;  
}S2; |
| 5.1.1             | 1-1KI86W         | When the IDL to Schema converter was used to convert an IDL file into an ActiveEnterprise schema more than once, changes in the IDL file were not reflected in the generated schema.  
This defect has been fixed. The IDL to Schema convertor always generates schema irrespective of the IDL file. |
| 5.1.1             | 1-1KI87G         | When converting IDL files to ActiveEnterprise schema, the palette stopped responding if the Generate button was clicked before the Apply button was clicked, or if the path or the IDL file name provided to the palette was incorrect.  
This defect has been fixed. Clicking the Generate button directly works just the same as clicking the Apply button and then the Generate button. |
| 5.1.1             | 1-1KONNP         | If an IDL included other IDL files in the #include statement, all the IDLs had to be copied to the TIBCO Designer bin directory for a successful import.  
This defect has been fixed. If no directory path is specified in the #include line, the included IDLs should reside in the same directory. Fully-qualified file names and sub-directory paths offset from the current directory can also be specified. |
<p>| 5.1.1             | 1-1LPH60         | When configuring a Request-Response Service using the adapter palette, changes made to the Interface Configuration tab were not saved if the tab lost focus before the Apply button was clicked. |
| 5.1.1             | 1-1MIE7W         | The adapter failed to convert an ActiveEnterprise message containing an any data type into a CORBA message, when the any data type contained boolean data. |
| 5.1.1             | 1-1MUWBP         | The adapter terminated unexpectedly when Orbix 3.3.6 was used with a Request-Response service configured for the ActiveEnterprise wire format, if the Orbix daemons for the adapter and the CORBA server were not running. |</p>
<table>
<thead>
<tr>
<th>Closed in Release</th>
<th>Change Request ID</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.1.1</td>
<td>1-1MVGDX</td>
<td>The adapter unexpectedly terminated when it attempted to convert an ActiveEnterprise message containing an any data type into a CORBA message, when the any value contained complex data, such as an array, sequence, structure, or class. This defect has been fixed. The adapter no longer terminates. Instead, it displays a meaningful error message. The adapter does not support the use of non-primitive types within any.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1PE2NL</td>
<td>If a user exception was received from the CORBA server by the adapter configured as a Subscriber or Request-Response Server, the adapter terminated unexpectedly.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1QAHCK</td>
<td>Names of operations introspected from IDL files were not sorted in alphabetical order by the adapter palette when they were displayed. This defect has been fixed. Operation names are sorted and displayed in alphabetical order by the adapter palette.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1TA8GF 1-1LINR1 1-1LINRK</td>
<td>When an IDL file contained interfaces that were derived from other interfaces, the IDL to Schema converter failed to insert ActiveEnterprise schema for operations and attributes in the base interfaces into the schema of the derived interfaces. The adapter could not invoke methods that were defined in the base interface. Instead, it could only invoke methods that were defined in the derived interface. This defect has been fixed. The ActiveEnterprise schema for operations and attributes in the base interface is included in the schema of the derived interface. The adapter can now invoke methods that have been defined in the base interface as well as the derived interface.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1W89ST 1-1GIUF2</td>
<td>An incorrect repository migration tool was packaged and installed with the adapter. Consequently, invoking the migrate executable with the migrate.tra file caused the repository migration to fail. This defect has been fixed. The correct migration tool is now packaged and installed with the adapter.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1WITZR</td>
<td>The adapter installer displayed the supported Orbix version as 3.3.4, instead of 3.3.6. This defect has been fixed. The adapter installer now displays the supported Orbix version to be 3.3.6.</td>
</tr>
<tr>
<td>Closed in Release</td>
<td>Change Request ID</td>
<td>Summary</td>
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</tr>
<tr>
<td>5.1.1</td>
<td>1-1WOOFYF</td>
<td>When an IDL file contained references to CORBA octet data types, the IDL to Schema converter did not convert the octets to their correct TIBCO equivalent types. Instead, CORBA octets were converted to unknown types. This defect has been fixed. The IDL to Schema converter converts CORBA octets to TIBCO Binary types.</td>
</tr>
<tr>
<td>5.1.1</td>
<td>1-1ZKD89</td>
<td>When a 4.x repository with adapter services was imported into TIBCO Designer 5.x, all end-points were incorrectly placed under DefaultRVSession instead of the sessions they were configured under. This defect has been fixed. All session information from the 4.x adapter configurations are preserved.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-80R5F</td>
<td>When the adapter was configured as a request-response invocation service or request-response server service with the RVCX Quality of Service, the adapter displayed the spurious error message: RPC Client or RPC Server class definitions are missing.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-8Z87V</td>
<td>The adapter did not interoperate with the VisiBroker 4.5 Event Service.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-8Z89A</td>
<td>When the IDL to Schema converter was run twice on the same IDL file, endpoints lost their associated schema mapping. The endpoint to schema association needed to be manually recreated.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-8ZEU6</td>
<td>There were per-access memory leaks while using methods related to the CORBA union type. This was because of leaks in Orbix’s CORBA union-related methods of CORBA::Typecode; for example, member_label() and parameter(). This defect has been fixed in Orbix 3.3.6.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-8ZEUH</td>
<td>If an IDL contained a union which defined complex vector types (such as arrays or sequences) as first time members, Orbix did not unmarshal the union type. This defect has been fixed in Orbix 3.3.6.</td>
</tr>
<tr>
<td>Closed in Release</td>
<td>Change Request ID</td>
<td>Summary</td>
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</tr>
<tr>
<td>5.1.0</td>
<td>1-8ZEUT</td>
<td>Orbix 3.0.1 did not support wchar or wstring. Therefore, these data types were also not supported when the adapter was used with Orbix. This defect has been fixed. Orbix 3.3.6 supports both wchar and wstring data types.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-DGTUX</td>
<td>If the CORBA server was restarted or was in the Load Balanced mode, the adapter was unable to invoke operations on the CORBA server because the server’s IOR changed. This defect has been fixed. The adapter now uses dynamic IOR detection to communicate with a CORBA server.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-GLP4T</td>
<td>If a TIBCO ActiveEnterprise application sent a message with only a single element in a sequence, the adapter was unable to process the message.</td>
</tr>
<tr>
<td>5.1.0</td>
<td>1-K9QZL</td>
<td>When the adapter was restarted, the IOR of its DSI proxies changed. CORBA clients that depended on the adapter's IOR remaining constant, failed to invoke the adapter when it was restarted. This defect has been fixed. The adapter's IOR can be configured to remain constant across restarts.</td>
</tr>
</tbody>
</table>
Known Issues

The table in this section lists known issues in this release.

<table>
<thead>
<tr>
<th>Change Request ID</th>
<th>Summary/Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Runtime</strong></td>
<td></td>
</tr>
<tr>
<td>1-90SIM9</td>
<td><strong>Summary</strong> When working on the Microsoft Windows Vista and Microsoft Windows XP platforms, the adapter does not start successfully in the NTService mode. <strong>Workaround</strong> None.</td>
</tr>
<tr>
<td>1-9DJ7EM</td>
<td><strong>Summary</strong> After successfully reconnecting to the CORBA server, the adapter does not send the CORBA reply to ActiveMatrix BusinessWorks Publisher when using Subscriber Service with the JMS transport. <strong>Workaround</strong> None.</td>
</tr>
<tr>
<td>1-8A33V3</td>
<td><strong>Summary</strong> (Windows Only) After upgrading TIBCO Runtime Agent from 5.3, 5.4, or 5.5 to 5.6, the Basic examples does not start up and the error message &quot;The ordinal **** could not be located in the dynamic link library LIBEAY32.dll.&quot; displays. <strong>Workaround</strong> Set the path of TIBCO_HOME\tra\version_number\bin in front of TIBCO_HOME\ems\version_number\bin in the PATH environment variable.</td>
</tr>
<tr>
<td>Change Request ID</td>
<td>Summary/Workaround</td>
</tr>
<tr>
<td>-------------------</td>
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</tbody>
</table>
| 1-19YVXS          | **Summary** Latin-1 message encoding is not supported for the JMS and TIBCO Rendezvous transports when configured to use the XML message wire format.  
**Workaround** To use the XML message wire format, the default message encoding, Latin-1 (ISO8859-1), must be changed to UTF-8. Otherwise, use the TIBCO Rendezvous transport configured with ActiveEnterprise message wire format. It supports both UTF-8 and Latin-1 message encoding.  
The message encoding property is set on the project itself at design-time, and when creating a TIBCO administration domain. The default for both is ISO8859-1.  
- To change the message encoding on the project, select the root folder and, under the **Project Settings** tab, change the value for the TIBCO Message Encoding field. This affects only projects used with Adapter Tester, BusinessWorks Tester and projects exported to local repositories.  
- To change the message encoding for the administration domain, edit the repo.encoding property in the administration server’s tibcoadmin<domain-name>.tra configuration file, which is located in <install-path>/tibco/administrator/n.n/bin. This affects all projects managed by the administration server. |
| 1-7TD3WH          | **Summary** The adapter when used with the Orbix 3.3.8 ORB requires the suffix ‘forte60’ to be present in the dependent ORB libraries.  
**Workaround**  
Create a softlink (with forte60 in the softlink name) to the required library under the lib directory of the Orbix 3.3.8 installation. For example:  
liborbixmt.3.3.forte60.so.1 -> ./liborbixmt.3.3.forte6.so.1  
libITns.3.3.forte60.so.1 -> ./libITns.3.3.forte6.so.1  
libITnsmt.3.3.forte60.so.1 -> ./libITnsmt.3.3.forte6.so.1  
libifrmt.3.3.forte60.so.1 -> ./libifrmt.3.3.forte6.so.1 |
<table>
<thead>
<tr>
<th>Change Request ID</th>
<th>Summary/Workaround</th>
</tr>
</thead>
</table>
| 1-7T87HQ          | Requests containing a Union with default case label result in a marshallung exception. This is applicable for adapters configured with TAO 13a_p12 or 1.5.  
**Workaround**  
Rename the default case to a proper case label. For example:  
Union Abc switch(long)  
{  
    case 1: ... ;  
    default: CORBA:: Octet oct;  
};  
The above should be changed to:  
Union Abc switch(long)  
{  
    case 1: ... ;  
    case n: CORBA:: Octet oct; // where n may be any integer value in the recommended range.  
}; |
| 1-7T87GZ          |  
| 1-339SNU          | During communication from TIBCO ActiveEnterprise to CORBA, if the adapter receives a TIBCO any that contains a string beginning with IOR:, the adapter attempts to convert the string into a CORBA object reference. Consequently, CORBA servers that expect strings beginning with IOR: inside anys from the adapter will, instead, receive object references inside those anys.  
**Workaround** None. |
| 1-6TOB1Z          | When the adapter is configured with a Publication service, with the event channel configuration, it does not transmit the event from the Event Channel to the TIBCO client application.  
**Workaround** This scenario works successfully for TIBCO Adapter for CORBA for Orbix 3.3 for C++. For the other ORBs, use the Interface Configuration for the services instead of the Event channel configuration. |
| 1-6TYS45          | The TIBCO Adapter for CORBA for Orbix 3.3 for C++ cannot convert a TIBCO message to a CORBA message and vice-versa, if the IDL method contains parameters of user defined types that contain an interface parameter.  
**Workaround** None. |
<table>
<thead>
<tr>
<th>Change Request ID</th>
<th>Summary/Workaround</th>
</tr>
</thead>
</table>
| 1-8Z886           | **Summary** The adapter does not support the following CORBA data types: long double, fixed, value, value box, or abstract interface.  
**Workaround** None. Use the double, wstring, and object data types if applicable. |
| 1-8ZCW9           | **Summary** If you are using CORBA wstring or wchar types in your IDL interface, there are per-message memory leaks in the adapter. These leaks appear during serialization, deserialization, and during conversion of wstring (wchar) to TIBCO ActiveEnterprise messages and vice versa.  
**Workaround** None. You can use TIBCO Hawk to monitor the adapter, and restart it if necessary. |

**IDL to Schema Converter**

<table>
<thead>
<tr>
<th>Change Request ID</th>
<th>Summary/Workaround</th>
</tr>
</thead>
</table>
| 1-1YCO5P          | **Summary** When importing an IDL file into TIBCO Designer, if the IDL file contains a #if or #elif preprocessor definition, the IDL to Schema tab in the adapter palette displays an error and does not generate the schema. These preprocessor definitions are not supported by the adapter’s IDL to Schema converter.  
**Workaround** Preprocess the IDL file using one of the following compilers:  
- Progress ORBacus 4.3 for C++ IDL compiler  
- Progress Orbix 3.3.8 for C++ IDL compiler  
- Progress Orbix 6.3 for C++ IDL compiler  
- Borland VisiBroker 7.0 for C++ IDL compiler  
- Microsoft Visual C++ 6.0’s cl compiler  
This will generate a preprocessed IDL file that will not contain any preprocessor definitions. Use the preprocessed IDL file to generate the schema. |
| 1-1YCO66          | **Summary** When importing an IDL file into TIBCO Designer, if the IDL file contains a floating point literal written using the floating point notation such as 1.2E-3, the IDL to Schema tab in the adapter palette displays an error and does not generate the schema. This notation is not supported by the adapter’s IDL to Schema converter.  
**Workaround** Replace the floating point exponent value with the equivalent floating point literal value. For example, replace 1.2E-3 with 0.0012. |
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<tr>
<th>Change Request ID</th>
<th>Summary/Workaround</th>
</tr>
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| 1-1YCO6N          | **Summary** When importing an IDL file into TIBCO Designer, if the IDL file contains an arithmetic expression such as `const long c1 = 5 + 2;`, the IDL to Schema tab in the adapter palette displays an error and does not generate the schema. Evaluation of arithmetic expressions in IDL files is not supported by the adapter's IDL to Schema converter.  
**Workaround** Replace the arithmetic expression in the IDL file with the evaluated value. For example, replace `const long c1 = 5 + 2;` with `const long c1 = 7;`. |
| 1-1YCO74          | **Summary** When importing an IDL file into TIBCO Designer, if the IDL file contains an anonymous complex data type such as a structure, sequence, or array, the IDL to Schema tab in the adapter palette displays an error and does not generate the schema. Anonymous complex data types are not supported by the adapter's IDL to Schema converter.  
**Workaround** Convert anonymous types into specific types. For example, convert:  
```idl//Anonymous sequence
sequence<ListType> collection;
```  
into:  
```idl//Specific sequence
typedef sequence<ListType> MyList;
MyList collection;
``` |
| 1-1YCO7P          | **Summary** When importing an IDL file into TIBCO Designer, if the IDL file contains a forward-declared interface that has either been re-defined elsewhere in the same IDL file or in an included IDL file, the IDL to Schema tab in the adapter palette displays an error and does not generate the schema. Multiple forward declarations are not supported by the adapter's IDL to Schema converter.  
**Workaround** Ensure that an interface is forward-declared only once in an IDL file or a group of IDL files. |
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</tr>
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| 1-1YCXH6          | **Summary** When importing an IDL file into TIBCO Designer, if the IDL file contains macro definitions, the **IDL to Schema** tab in the adapter palette displays an error and does not generate schema. Macro definition and expansion is not supported by the adapter’s **IDL to Schema** converter.  
**Workaround** Preprocess the IDL file using one of the following compilers:  
- Progress ORBacus 4.3 for C++ IDL compiler  
- Progress Orbix 3.3.8 for C++ IDL compiler  
- Progress Orbix 6.3 for C++ IDL compiler  
- Borland VisiBroker 7.0 for C++ IDL compiler  
- Microsoft Visual C++ 6.0’s cl compiler  
This will generate a preprocessed IDL file that will not contain any macro definitions. Use the preprocessed IDL file to generate the schema. |
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<th>Summary/Workaround</th>
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| 1-20UBPD         | **Summary** When importing an IDL file into TIBCO Designer, if the IDL file contains a union with cases containing the integral values of a globally-defined enum type, the IDL to Schema tab in the adapter palette displays an error and does not generate the schema. For example:

```c
//Globally defined enum type
module union_test
{
    module scoped_enum_def
    {
        enum switch_enum {SWITCH1, SWITCH2, SWITCH3};
    };
    //Union that uses the globally defined enum type
    union ScopedUnion switch (scoped_enum_def::switch_enum)
    {
        //the scoped cases "scoped_enum_def::XXXX" are not supported
        case scoped_enum_def::SWITCH1 :
            short s;
        case scoped_enum_def::SWITCH2 :
            long l;
        case scoped_enum_def::SWITCH3 :
            float f;
        default:
            char c;
    };
}
```

**Workaround** Enum types and the unions that use them must both be defined in the same module. Simultaneously, the case statements that contain the enum value must not contain scope resolution operators. To ensure this, you must copy the definition of the enum into the module where the union has been defined and remove the scope resolution operators from the case statements of the union. For the example shown in the summary:

```c
//Globally defined module containing both enum & union
module union_test
{
    enum switch_enum {SWITCH1, SWITCH2, SWITCH3};
    //Union and enum are defined within the same module
    union ScopedUnion switch (switch_enum)
    {
        //the scoped resolution operators are removed
        case SWITCH1 :
            short s;
        case SWITCH2 :
            long l;
        case SWITCH3 :
            float f;
        default:
            char c;
    };
}
```

**Note that the changes to the IDL file do not affect the CORBA clients or servers that are dependant on the IDL. The changes are needed only for successful schema generation, and can be reverted after the schema has been generated.**
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<th>Summary/Workaround</th>
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| 1-3I12RG         | **Summary** When multiple IDL files containing identical module and interface names that are similarly scoped are imported into TIBCO Designer, the repository schemas for request-response services contain information only from the most recently imported IDL file. This is a limitation in the adapter due to the naming scheme for sequences in the schema.  
**Workaround** Include all IDL files that need to be imported, into a single composite IDL file as follows:  
```
#include "IDL1.idl"
#include "IDL2.idl"
...
```
and import the single composite IDL file. |