

# **TIBCO ActiveMatrix® Adapter for Database**

## **Release Notes**

*Software Release 6.1.0  
November 2010*

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# Release Notes

Check the TIBCO Product Support web site at <http://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 from the same site. You must have a valid maintenance or support contract to use this site.

## Topics

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## New Features

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

### Release 6.1

The following are new features in this release.

- Added Database Support

This release of the adapter adds support for the following databases:

- MySQL 5.1 on Microsoft Windows and Unix platforms.
- Sybase Adapter Server Enterprise 15.0, 15.5 on Microsoft Windows and Unix platforms.
- Microsoft SQL Server 2008 on Microsoft Windows
- DB2 UDB V5R4, V6R1 for iSeries on Microsoft Windows and Unix platforms.
- DB2 UDB v9.1 for z/OS on Microsoft Windows and Unix platforms.
- DB2 UDB v9.7 on Microsoft Windows and Unix platforms.

- Added Platform Support

This release of the adapter adds support for the following platforms:

- SUSE Linux Enterprise 10.x, 11.x

- Upgrade Driver

This release of the adapter supports DataDirect ODBC Driver version 6.10

- Publisher Load Balancing

This release adds support for load balancing on publication service. User can configure multiple adapter instances to poll the same publication table and publish messages in a load balanced fashion.

- Transactional Support for Group Messaging

This feature allows users to configure a group message to update the database within a single transaction by the subscription service.

- Service Level Bulk Insert Size

User can now specify different bulk insert size for each subscription service.

- Runtime Schema Configuration

If the schema name of the database objects are different between development and production environment, user can use the following TRA properties to specify the schemas configuration:

- `adb.originalSchema`
- `adb.runtime.schema`
- `adb.runtime.publisherSchema`

For example, these options can be useful if the schema name of the tables objects are different between development and production environment.

- Support for DataDirect Driver Options

This release of the adapter supports the following new Datadirect driver options:

- SSL encryption between the adapter and the database. This is supported on all databases.
- SQL Server OS Authentication on Windows
- Query Timeout support on all databases.

- Support for Update Trigger Selection

The Update Trigger field of the table configuration allow user to select the column that will trigger publication when that column is updated.

- Order by Clause for Child Table Selection

This feature allows users to specify an `order by` clause for child table queries and allows the adapter to return the child table result set in a particular sequence.

- Convert Number to String option

This new adapter instance configuration allows users to specify whether the adapter should use string operation for number datatype. This will improve the adapter's performance.

- Commit on Select Query (DB2 Only)

The adapter publisher can now execute a commit after each select query to release potential read lock held by the adapter, following a query with no rows returned. Users can turn on this setting with this TRA property `adb.pollingCommitForDB2`.

- Support for Design Time Global Variable

The design time configuration of publication service group size, JMS durable subscriber name, log file limit, and log file count now accept global variables.

- Support `hints` for Microsoft SQL Server

The adapter can now support hints for Microsoft SQL Server.

- Datatype Support

This release of the adapter adds support for Oracle XML Type.

## Release 6.0

The following are new features in this release.

### Added Database Support

This release of the adapter adds support for the following databases:

- DB2 v9.1 and v9.5 on Microsoft Windows and Unix platforms.

### Added Platform Support

This release of the adapter adds support for the following platforms:

- Microsoft Windows Server 2008 (x86)
- RedHat Enterprise Linux 4.6, 4.7, 5.0, 5.1, and 5.2 (x86)
- Solaris 10 (x86)
- AIX 6.1 (POWER)

### Duplicate Agent Detection

Duplicate adapter instances are now detected when using either default JMS or RV sessions.

### Database Reconnection for Fault Tolerance

This release adds support for reconnecting to a database when the adapter is used in the fault tolerance mode.

### Monitoring Polling Activities

Polling activities of the adapter publication services can now be used monitored using the TIBCO Hawk getActivityStatistics method.

### Additional TRA Properties

The following new TRA properties have been added:



- `adb.setClientInfo`: This property is used to control whether the adapters sets the database session client information.
- `adb.createMutexTable`: When set to `off`, the adapter does not create the mutex table that is used in the fault tolerance mode.
- `adb.primary.heartbeat` and `adb.secondary.heartbeat`: These properties are used by the adapter when running in the fault tolerant mode.
- `adb.maxQuery`: The maximum number of queries the secondary instance would send to the primary to determine if the primary instance is still active.
- `adb.customScaleforNumberType`: This property sets the default scale of Oracle Number (empty) datatype.
- `adb.useBetweenClause`: This property disables the use of the BETWEEN clause in the select query of the publisher.

See *TIBCO ActiveMatrix Adapter for Database Configuration and Deployment* for more information.

## Changes in Functionality

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This section lists changes in functionality since the last major release of this product.

### Release 6.1

The following are changes in functionality in this release.

- Dropped Database Support

This release of the adapter dropped support for the following databases:

- Oracle 9
- Sybase Adapter Server Enterprise 12.5
- Microsoft SQL 2000
- DB2 UDB V5R1, V5R2, V5R3 for iSeries

- Dropped Platform Support

This release of the adapter dropped support for the following platforms:

- AIX 5.2
- SUSE 9.3
- Solaris 8

### Release 6.0

The following are changes in functionality in this release.

- Dropped Platform Support

The following platforms are no longer supported:

- Microsoft Windows 2000 (x86)
- AIX 5.1

- TIBCO IntegrationManager is no longer supported.

## Deprecated Features

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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 6.1

No features are deprecated in this release.

### Release 6.0

No features are deprecated in this release.

## Migration and Compatibility

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See the TIBCO Runtime Agent documentation for information on how the adapter interoperates with previous adapter versions and other TIBCO applications.

## Closed Issues

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

Additionally refer to the TIBCO Adapter SDK release notes for closed runtime issues.

Closed in Release	Defect #	Summary
6.1.0	AADB-1214 (1-7QVIIB)	When using publish by reference, if the publisher service name was the same as the source table name or the reference object name, and the source table or the reference object had more columns than the publishing table, the adapter would throw the <code>Index out of bounds</code> error and update the row delivery status to F.
6.1.0	AADB-1901 (1-9YKBI4)	When using group messaging, the adapter ignored the bulk insert and batch commit size, and committed each row separately.
6.1.0	AADB-1316 (1-89NCHR)	The adapter could not bind a stored procedure with a parameter of <code>Timestamp</code> type in Oracle. When this stored procedure was chosen at design time and applied, the following error occurred: <code>columns with un-supported ODBC types have been ignored</code> .
6.1.0	AADB-3424 (1-8OP7BK)	The adapter threw the <code>Invalid date format</code> error message when receiving a BW message that contained a field of <code>datetime</code> format.
6.1.0	AADB-1536 (1-92ODT3)	If the adapter user did not have authority to create a JMS topic or queue at startup, the adapter would hang without logging any information even in debug mode.
6.1.0	AADB-2118 (1-AVR04J)	On a Solaris platform, the adapter would hang without any error message when the termination topic was not created successfully in JMS.
6.1.0	AADB-2106 (1-AT760H) (DataDirect defect: DD00054418)	The publication service consistently published the same record over and over during the adapter reconnection due to not detecting the connection issue in the <code>PubConfirm</code> connection.
6.1.0	AADB-1678 (1-9H3C8H, 1-AU7DYS)	When configuring a publication service in TIBCO Designer using two or more user keys and selecting the <code>storage mode</code> as <code>publish by reference</code> , the SQL script generated was incorrect.

Closed in Release	Defect #	Summary
6.1.0	AADB-2089 (1-APEMIE)	The adapter did not work as expected when the ADB_SEQUENCE AE Schema type was defined as i8 (64-bit INTEGER).
6.1.0	AADB-2059 (1-AM09XQ)	When the secondary instance of the fault tolerance group was started, the number of connections to the MS SQL Server database would increase.
6.1.0	AADB-2015 (1-AFPPH4)	The adapter's design-time connection to the Sybase database using jconn3.jar for vendor JDBC driver was unsuccessful.
6.1.0	AADB-1930 (1-A1KTJG)	When the adapter updated three or more table levels, and the level3 table joined both level1 and level2, the subscriber went into an infinite loop to update/delete data from level 3 table.
6.1.0	AADB-1927 (1-A0KIPC)	When a stored procedure was called using the request response service, if the length of the input value was greater than the output, then the return value of an inout character parameter contained characters from the input value. This happened on Oracle Unicode database only.
6.1.0	AADB-1857 (1-9T2WRH) (DataDirect defect: W905060016)	The adapter did not connect to the server provided by the AlternateServer parameter in the odbc.ini file for SQL Server Wire protocol on Unix.
6.1.0	AADB-1854 (1-9SGNS7)	While calling a stored procedure with ROWTYPE as return parameter, the adapter returned incorrect value for the dateTIme field.
6.1.0	AADB-1858 (1-9T3CKD)	When adb.setClientInfo was set to off, the service name was not displayed in the log file during a database reconnection attempt.
6.1.0	AADB-1880 (1-9W6O69)	When batch commit and group messaging were both enabled, if there was an error during the batch processing, a message could be unconfirmed even if the records in it were committed to the database. This happened for RVCM, JMS queue, or durable topic.
6.1.0	AADB-1827 (1-9QLMQY)	(SQL Server only) When the adapter was configured with the alerter, the conversation handler was in open status even after the messages were sent to the message broker queue.

Closed in Release	Defect #	Summary
6.1.0	AADB-1841 (1-9RDOX9) (DataDirect defect: DD00044883)	(SQL Server only) The adapter request response service did not handle stored procedures with NCHAR or NVARCHAR parameters correctly. The input string was truncated and the output was incorrect.
6.1.0	AADB-1868 (1-9UBYAR)	(Oracle and SQL Server only) The adapter configured with the alerter threw the error below after terminating following an unsuccessful database reconnection:  AEADB_700306 Error unregistering alerter, cleanup_alerter procedure call failed.  The alerter listener was not unregistered properly.
6.1.0	AADB-1867 (1-9UBY0P)	When the adapter was configured with the alerter, if any records were inserted into the source table after the database connection was lost and before the adapter reconnected, these messages were not published by the adapter after reconnection until there was a new record in the source table.
6.1.0	AADB-1578 (1-9C1EVA)	The subscription service truncated the value to permitted column length and inserted it into the destination table when the original value exceeded the column length for CHARACTER-type columns. This is now fixed. The adapter returns the appropriate database error.
6.1.0	AADB-1514 (1-8Z82M6)	(DB2 OS390 only) The adapter palette failed to create the exception table when LOB Tablespace was not specified.
6.1.0	AADB-1374 (1-8NZRY7)	The adapter palette failed to create the child exception table if the child table was from another user schema.
6.1.0	AADB-2145 (1-BBRMU) (DataDirect defect: 15008883)	(Sybase only) The adapter would hang while attempting parent child operation involving a table that had been dropped and recreated after the adapter has been started.
6.1.0	AADB-3378 (1-8ITP5P)	When the Subscriber Bulk Insert Size was greater than 1 and the table column had a NVARCHAR(1) definition in the SQL Server, the adapter threw the following error message: Datatype 0xE7 has an invalid data length or metadata length.
6.1.0	AADB-3395	(SQL Server only) In bulk insert operation, the subscription service would truncate NVARCHAR data.

Closed in Release	Defect #	Summary
6.1.0	AADB-3379	When running in fault tolerance mode, the secondary adapter instance did not show the correct status as StandBy in TIBCO Administrator GUI.
6.1.0	AADB-3442	When using RVCN transport, if the adapter contained more than one publication service, after reconnection, the adapter was only able to update one of the publishing table status from P to C.
6.1.0	AADB-3431	When running in fault tolerance mode, the adapter would exhibit memory leak.
6.1.0	1-A9V0G5	When database disconnection was detected, the adapter subscriber reply sender would send back a duplicate reply for a RV certified or EMS persistent message. The first reply was sent before the reconnection, and the second reply was sent after the message was processed upon successful reconnection.
6.1.0	1-A5OJD8	After reconnection, the adapter subscriber reply sender would send back an invalid reply even when the message was processed successfully.
6.1.0	1-A8OKA0	Memory leak could occur in the adapter subscription service when it performed parent-child delete operation, or when batch commit function was enabled.
6.1.0	1-9U7FAW	When both the group messaging option and the batch commit option in the adapter were enabled, if the message contained different numbers of rows, the received messages could be unconfirmed.
6.1.0	1-9X6US0	When adb.unicode property was set in the tra file, the adapter did not process data correctly if the column type was BIGINT.
6.1.0	1-9Y0LEE	When custom RPC operation processed an input parameter of 19 or higher precision, and the corresponding AE Schema type was i8, the precision of the number would be reduced to 18 digits. For example, -1,234,567,890,123,456,789 was changed to -123,456,789,012,345,678 after processing.
6.1.0	1-9RHHQJ	The Custom RPC service did not return any value for output parameters of BIGINT data type if the corresponding AE Scheme type was i8.



Closed in Release	Defect #	Summary
6.1.0	1-99070Y	(Sybase only) When the SELECT query on the child table was interrupted by a deadlock error, the adapter did not publish all the records in the child table.
6.1.0	1-9OT1MX	(Oracle DataDirect wired driver only) When Request-Response service invoked a stored procedure, the adapter performance was low.
6.1.0	AADB-3383	When adb.unicode was set to UTF8, the adapter subscriber did not correctly insert/upsert/delete the data into the child table for column type of nvarchar.
6.1.0	1-6T3RU1	When validating an adapter resource that did not contain any RV transport services, the adapter palette generated a default RV session which was not required. When the adapter ran in the fault tolerance mode, this RV session caused memory growth in the secondary adapter.
6.1.0	1-A8OKA0	Memory leak sometimes occurred in the adapter Subscription service when it performed parent-child delete operation, or when batch commit function was enabled.
6.1.0	1-9ZV25T	When group messaging was enabled, after database reconnection, the adapter publisher might not update all records status and hang.
6.1.0	1-9ZI6DP	(Solaris SPARC and Sybase only)The adapter could not reconnect to the database.
6.1.0	1-9YNI65	If the adapter contained request response service, the adapter could terminate intermittently during startup.
6.1.0	1-9UZJBJ	(Linux Platform only) The adapter subscriber did not insert the correct value if the column type was varchar(38).
6.1.0	1-9LWQ1B	(Microsoft SQL Server only) With the alerter configured, the adapter would not terminate properly. The adapter log said the process had terminated but the process was still running.
6.1.0	1-9RDOX9	(Microsoft SQL Server only) The custom RPC operation did not process the stored procedure correctly with nchar/nvarchar parameters when adb.unicode was set to UTF16. The input string was truncated and the output string was corrupted.

Closed in Release	Defect #	Summary
6.1.0	1-9MQW2S	(DB2 Only) The request response service threw an error and terminated when the executing a stored procedure with CLOB parameter.
6.1.0	1-9JXD1V	(Oracle Only) The ADB_TIMESTAMP column in the publishing table was of type TIMESTAMP WITH TIME ZONE, but the generated update and delete trigger inserted SYSDATE instead of SYSTIMESTAMP into the publishing table.
6.1.0	1-84SFZ1	(DB2 AS400 only) When using the Datadirect JDBC Driver on the DB2 for iSeries platform, the adapter could not create a publishing table that had a column of type TIMESTAMP. The following error was returned:  TIMESTAMP IS AN UNDEFINED NAME
6.1.0	1-1J4NBA	The publication service logged delivery status entries in reverse order in the trace log file. For example, as shown next, the UPDATE entry was printed before the Published entry. The UPDATE entry should be printed after the Published entry.  2004 Nov 03 13:43:07:040 GMT -8 cisco_aepub.cisco_aepub Info [Adapter] AEADB-700001 Publisher: UPDATE P_SO_LINES_ALL SET ADB_SUBJECT = ?, ADB_L_DELIVERY_STATUS = 'P', ADB_L_CMSEQUENCE = ? WHERE ADB_SEQUENCE = ? 2004 Nov 03 13:43:07:040 GMT -8 cisco_aepub.cisco_aepub Info [Adapter] AEADB-700083 Published message on ADB.SOLINESALL 2004 Nov 03 13:43:07:040 GMT -8 cisco_aepub.cisco_aepub Info [Adapter] AEADB-700041  Publisher: data = {...}
6.1.0	1-LU40G	(Oracle only) A Request-Response service terminated with an exception when calling an Oracle stored procedure consisting of an IN OUT parameter that was a LONG datatype, when the input value was shorter than the output value.
6.1.0	1-9OT1MX	(Oracle only) When the adapter invoked a standard RPC operation, the Datadirect ODBC driver caused performance degradation.
6.1.0	1-9NHHT1	(Microsoft SQL Server 2005 Only) When the username was the same as the database name, the alerter could not reconnect to the database and returns the following error:  Error executing listen_alert procedure call continuously.

Closed in Release	Defect #	Summary
6.1.0	1-ITDSX	The DataDirect driver could experience delays when describing a procedure on databases that contained many procedures.
6.1.0	1-9NLCR9	When the adapter was running in fault tolerance mode and the value of the <code>adb.retryTotal</code> property was set to 0, the secondary instance would stop responding and did not terminate gracefully when the database connection was lost.
6.1.0	1-1KQ3W	(DB2 for z/OS only) A subscription service could not insert a message into the opaque table.
6.1.0	1-1WJFLI	The log file field value was not saved correctly if changed from the default. For example, if you changed the log file field value from the default <code>%%DirTrace%%/%%Deployment%%.%%InstanceId%%.log</code> to <code>%%DirTrace%%/foo.log</code> and created an EAR file and deploy it, the log was saved correctly at <code>%%DirTrace%%/foo.log</code> . If you changed the log file value back to the default and deployed again, the log file was still generated at <code>%%DirTrace%%/foo.log</code> .
6.1.0	1-9J2DWB	(DB2 AS400 Only) The delete trigger creation script was generated incorrectly and included the following SQL statement:  <pre>SELECT NEW.&lt;key column name&gt;., instead of SELECT OLD.&lt;key column name&gt;.</pre> This resulted in errors when the script was executed.
6.0.0	1-94M5AC	For a parent child operation, under certain circumstances, the adapter subscription service inserted incorrect data in the child and grandchild exception table.
6.0.0	1-9CBDXN	(Microsoft Windows and Solaris only) The adapter was unable to connect to the Oracle database when the database is in a restricted mode.
6.0.0	1-9DP9WN	(Sybase only) When running in the fault tolerance mode, the adapter threw an error during initialization when the <code>ddl</code> in <code>TRAN</code> database option was set to <code>false</code> .
6.0.0	1-593C5P	Executing the <code>setPollingBatchSize Hawk</code> method while the adapter was publishing messages would result in errors and the adapter would terminate.

Closed in Release	Defect #	Summary
6.0.0	1-8XK2B3	(Microsoft SQL Server only) When the ADB_SEQUENCE value exceeded 8 digits, the adapter terminated and generated the following error message:  ADBPubCommunicationInterface::handleDataSendRequest(). This has been fixed.
6.0.0	1-90S5BN	(Microsoft SQL Server 2005 only) The adapter did not publish the correct unicode values for NVARCHAR/NCHAR/NTEXT column.
6.0.0	1-917PD7	(DB2 AS40 only) The adapter subscriber did not insert rows into opaque exception table when an error occurred.
6.0.0	1-92CXOV	The adapter did not terminate when it failed to reconnect to the EMS Server.
6.0.0	1-92YZCB	For the request-response service using ASCII encoding, the adapter returned invalid values for CHAR/VARCHAR columns.  The adapter also returned incorrect row counts when the binding parameter type was not NUMBER.
6.0.0	1-930PE5	The adb.wchar setting did not take effect, the adapter always set it to SQL_C_BINARY when adb.encoding setting was UTF8 and SQL_C_CHAR when adb.encoding was not UTF8.
6.0.0	1-95OT8Y	The adapter fault tolerance mode was not displayed in TIBCO Administrator.  This has been fixed. An Application Mode entry is added to the host information to display the fault tolerance mode (primary or secondary) of the adapter instance.
6.0.0	1-97NI8N	(DB2 Only) The publication service threw a Function sequence error ODBC error when the parent-child join column type was BIGINT.
6.0.0	1-9C4B7T	For request-response service, the adapter corrupted the last character if the binding parameter was of CHARACTER type.

Closed in Release	Defect #	Summary
6.0.0	1-9CND7H	<p>The adapter inserted incorrect values when the input data of a <code>TIMESTAMP WITH TIMEZONE</code> column contained timezone information, which was not supported.</p> <p>This has been fixed. The adapter will return an error when the input data contains timezone information. The timezone information can be parsed using the TIBCO BusinessWorks XPath functionality before passing it to the adapter.</p>
6.0.0	1-9E5BER	(Microsoft SQL Server only) For the request-response service, the adapter truncated the last character of the stored procedure parameters.
6.0.0	1-8WXUNI	For the Request-Response service, if the request response thread count was set to greater than one, the adapter terminated if the incoming request message rate was high.
6.0.0	1-8O3JC0	<p>(Sybase only) For the parent child publication if there were more than one parent-child objects in the database to be published, only the first parent-child object was published correctly.</p> <p>The adapter only fetched and published the parent row of the remaining parent-child objects.</p>
6.0.0	1-8TQ19N	(For Oracle, DB2, and Sybase only) When running in the fault tolerance mode the agent terminated at startup if the adapter did not have privileges required to create tables.
6.0.0	1-8ZNC1R	When running in the fault tolerance mode, if you did not have privileges to select a table for the mutex table, the adapter would terminate with an incorrect error message <code>Create table permission denied</code> .
6.0.0	1-8Z0JO4	(DB2 OS390 only) The adapter failed to create the mutex table because it swapped the DB2 tablespace name with the database name.
6.0.0	1-9F7J1W	(DB2 Only) On Windows, the adapter would publish or subscribe to corrupted data if the Table CCSID used 1025 (Russian character sets).
6.0.0	1-9NWXF	The <code>bind23</code> executable of the ODBC Driver could not be executed as it was linked to a wrong library.

Closed in Release	Defect #	Summary
6.0.0	1-8Y2XTP	(Microsoft SQL Server only) When running in the fault tolerance mode, the secondary instance would create a new database connection when it issued an exclusive lock on the mutex table. The number of database connections would continue to increase.

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## Known Issues

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

Additionally refer to the TIBCO Adapter SDK release notes for known runtime issues.

Defect #	Summary/Workaround
AADB-3463	<p><b>Summary</b> (Oracle only) The adapter request-response service custom operation throws an error if the stored procedure has nchar output parameter and adb.unicode is set to UTF16.</p> <p><b>Workaround</b> Use nvarchar2 data type instead of nchar.</p>
AADB-2125	<p><b>Summary</b> When using load balancing option, the publication service fails to fetch new rows properly after reconnection.</p> <p><b>Workaround</b> None.</p>
AADB-3456	<p><b>Summary</b> (Oracle only) The request-response service cannot work if the procedure or function contains XMLType parameter.</p> <p><b>Workaround</b> None.</p>
AADB-3460	<p><b>Summary</b> (Oracle only) If the message contains XMLType data of size larger than 100 KB, the subscription service will hang when updating the destination table.</p> <p><b>Workaround</b> None.</p>
AADB-3461	<p><b>Summary</b> (Oracle only) When using exception table, if the message contains XMLType data, the subscription service throws the following error when inserting to the exception table after an operation error:</p> <p>ORA-03120: two-task conversion routine: integer overflow</p> <p><b>Workaround</b> Use opaque exception table.</p>
AADB-3457 (DataDirect defect: DD00056981)	<p><b>Summary</b> When using query timeout feature of DataDirect driver, the subscription service might terminate with the following error if the database operation is returned shortly after query timeout:</p> <p>user requested cancel of current operation (1013)</p> <p>For example, the adapter will terminate with such an error if the query time out is 5 and the insert operation takes less than 10-15 seconds to return.</p> <p><b>Workaround</b> Set a larger timeout value for the database connection.</p>

Defect #	Summary/Workaround
AADB-1110 (1-8WM9CJ)	<p><b>Summary</b> When deploying the adapter project through TIBCO Administrator, some configurations would be overwritten by the default value of the TRA properties.</p> <p><b>Workaround</b> Overwrite the default value of the TRA properties in TIBCO Administrator.</p>
AADB-3380	<p><b>Summary</b> Under certain timing condition, the adapter might publish the same message multiple times after a reconnection of the database that updates the publishing table status.</p> <p><b>Workaround</b> None.</p>
AADB-3392 (DataDirect defect: DD00057608)	<p><b>Summary</b> When executing stored procedure, the Request Response service will return padded zeroes up to 1MB for BLOB output parameter.</p> <p><b>Workaround</b> None.</p>
AADB-3433	<p><b>Summary</b> (SQL Server only) In custom operation configuration, the adapter palette displays the output parameters as both input and output parameters.</p> <p><b>Workaround</b> None.</p>
AADB-3421	<p><b>Summary</b> (Oracle only) The client info of the database connection is not displayed after the adapter reconnects.</p> <p><b>Workaround</b> None.</p>
AADB-3408	<p><b>Summary</b> When adb.unicode is set and the debug option is on, the adapter processes the NVARCHAR2 data successfully, but the adapter log shows incorrect values.</p> <p><b>Workaround</b> None.</p>
AADB-3397	<p><b>Summary</b> When the debug option is on, the adapter log always shows only the first character for custom RPC operation input parameters.</p> <p><b>Workaround</b> None.</p>
AADB-1833 (1-9QTDVX)	<p><b>Summary</b> When using RV transport, the adapter cannot exit successfully if there is an database connection error and the reconnection option is disabled. This issue is intermediate and only observed in high load scenario.</p> <p><b>Workaround</b> Enable the reconnection option.</p>



Defect #	Summary/Workaround
AADB-2128 (1-AWK7V1) (Oracle defect: #44053)	<p><b>Summary</b> (MySQL vendor driver only.) The adapter cannot support stored procedure call because MySQL vendor driver does not support output parameters.</p> <p><b>Workaround</b> None.</p>
AADB-3345 (DataDirect defect: DD00057708)	<p><b>Summary</b> (SQL Server 2008 only) The adapter Request Response service returns the following error when calling a stored procedure: Error [Database] AEADB-100004, the database operation failed.</p> <p><b>Workaround</b> Use MS SQL vendor driver.</p>
AADB-3425 (DataDirect defect: DD00057708)	<p><b>Summary</b> (SQL Server only) The adapter log shows incorrect schema in the error message when the adapter encounters a database error. It always shows that the error database object is in dbo schema.</p> <p><b>Workaround</b> On Windows, use vendor ODBC driver.</p>
AADB-3418	<p><b>Summary</b> (SQL Server only) When using SQL Server Wired driver, the adapter publication service returns the following error even when it fetches and publishes the message successfully: Message: [TIBCO][ODBC SQL Server Wire Protocol driver][Microsoft SQL Server]Could not find prepared statement with handle 0" for SQL Server.</p> <p><b>Workaround</b> Use SQL Server Legacy Wired Driver.</p>
AADB-3470	<p><b>Summary</b> (SQL Server only) When using SQL Server Wired Protocol Driver, the request-response service returns the following driver error when calling a function if the function name contains a ;0 suffix: Invalid procedure number (0). Must be between 1 and 32767.</p> <p><b>Workaround</b> Use SQL Server Legacy Wired Protocol Driver, or remove the ;0 suffix from the function name.</p>
AADB-3467	<p><b>Summary</b> (Sybase ASE Server 15 only) When using exception table, the subscription service throws the following error when inserting to the exception table after an operation error: Invalid precision value. Error in parameter 2.</p> <p><b>Workaround</b> Reduce the exception table ADB_ERROR_TEXT column precision to 400.</p>

Defect #	Summary/Workaround
AADB-2093 (1-APFVIK) (DataDirect defect: DD00054084)	<p><b>Summary</b> The adapter Request-Response Service cannot call procedures successfully for the second time if it contains CLOB datatype parameter. The first call of the same procedure is successful.</p> <p><b>Workaround</b> Set custom RPC operation request CACHE input option to false.</p>
AADB-2092 (1-APFVF7) (DataDirect defect: DD00057608)	<p><b>Summary</b> (Oracle only) The adapter Request-Response Service returns the following error if the stored procedure contains LOB parameter:</p> <p>[tibcosoftwareinc][ODBC Oracle Wire Protocol driver][Oracle]ORA-22275: invalid LOB locator specified</p> <p><b>Workaround</b> None.</p>
1-9HZU2L	<p><b>Summary</b> When the adapter is running in fault tolerance mode using RV certified QOS, the subscription and request-response service of the secondary instance will receive duplicate messages that are already confirmed by the primary instance.</p> <p><b>Workaround</b> Use RV reliable or JMS transport to avoid duplicate messages.</p>
1-9MBXPL	<p><b>Summary</b> (DB2 Only) The custom RPC operation configuration wizard cannot select functions in the database, so you cannot use custom RPC operations to execute DB2 functions.</p> <p><b>Workaround</b> Use Standard RPC operations.</p>
1-9LYAR4	<p><b>Summary</b> When the adapter is running in the fault tolerance mode using RVCMQ certified QOS, after the secondary instance become primary, it might receive the last message confirmed by the primary instance.</p> <p><b>Workaround</b> Use RV reliable or JMS transport to avoid duplicate messages.</p>
1-9JWG1X (Datadirect defect DD00044883)	<p><b>Summary</b> (SQL Server only) If the input of the stored procedure is NCHAR and the input string contains odd number of characters, the adapter will hang when executing the procedure. If the input string contains an odd number of characters, the adapter will return an driver error:</p> <p>The incoming tabular data stream (TDS) remote procedure call (RPC) protocol stream is incorrect.</p> <p><b>Workaround</b> Use the NVARCHAR parameter type.</p>

Defect #	Summary/Workaround
1-99070Y (Datadirect defect DD00045088)	<p><b>Summary</b> When the adapter encounters a deadlock error (ODBC Error Code = 40001) while fetching the child record, the adapter sometimes publishes an empty child record instead of reconnecting.</p> <p><b>Workaround</b> Use the Sybase native driver.</p>
1-9DA12C	<p><b>Summary</b> (Oracle RAC database only) If there are more than one transaction updating the source table, the BETWEEN clause of the select statement may cause the adapter to publish message out of order. The BETWEEN clause is used to improve the performance of the query.</p> <p><b>Workaround</b> There are two workarounds:</p> <ul style="list-style-type: none"> <li>• Set the value of the <code>adb.useBetweenClass</code> property to <code>off</code>. The select query will not contain the BETWEEN clause.</li> <li>• Add ORDER option in the ADB_SEQUENCE sequence creation script. For example: <pre data-bbox="429 718 862 956">CREATE SEQUENCE P_ADB_PUB0_SEQ START WITH 1 INCREMENT BY 1 NOMAXVALUE ORDER NOCYCLE CACHE 10</pre> </li> </ul>
1-8XPUEL	<p><b>Summary</b> (Oracle only) When connecting to the database via the native driver provided by Oracle, the datatypes <code>TIMESTAMP WITH TIME ZONE</code> and <code>TIMESTAMP WITH LOCAL TIME ZONE</code> are not supported.</p> <p><b>Workaround</b> The Oracle drivers do not support <code>TIMESTAMP WITH TIME ZONE</code> and <code>TIMESTAMP WITH LOCAL TIME ZONE</code> datatypes. Use the <code>ADB_TIMESTAMP</code> column type instead of <code>TIMESTAMP</code>.</p>
1-8WUZTD	<p><b>Summary</b> Copying and pasting an RPC Service with custom operations configured results in deserialization errors.</p> <p><b>Workaround</b> Configure a new RPC service.</p>

Defect #	Summary/Workaround
1-8W21CB	<p><b>Summary</b> The binary file to uninstall the adapter on HP-UX 11i v3 was missing from the <code>_uninstall</code> folder under the installation path. As a result, you could not uninstall the adapter from the command line.</p> <p><b>Workaround</b> To uninstall the adapter follow these steps:</p> <pre>\$ cd &lt;PRODUCT_HOME &gt;/_uninst \$ java -cp uninstaller.jar run</pre>
1-81RJ8X (Data Direct issue: 15023957)	<p><b>Summary</b> The adapter palette cannot retrieve metadata for Sybase stored procedures in Request/Response custom operation configurations. This is a Datadirect driver issue.</p> <p><b>Workaround</b> Use standard Request/Response operations.</p>
1-6RUBUH	<p><b>Summary</b> (IBM DB2 z/OS only) Custom operations cannot be configured using the adapter palette where the return value is a result set.</p> <p><b>Workaround</b> Use standard operations for configurations.</p>
1-7VWSTL	<p><b>Summary</b> If columns are unselected from the Table tab of a subscribing service, the subscribing schema is not changed. This only happens when there is a publication service on the same table.</p> <p><b>Workaround</b> Use a view, synonym, or alias to give that subscriber table a different name.</p>
1-845BWV	<p><b>Summary</b> While the <code>adb.unicode</code> option as well as the character set used in the source database are UTF8 the adapter adds blank characters after the string values in the published message for <code>nchar</code> and <code>nvarchar2</code> column.</p> <p><b>Workaround</b> None at this time.</p>
1-15BVU7	<p><b>Summary</b> If the adapter is using encoding <code>ibm-950</code>, and polls a large amount of records (2000+), the adapter will terminate.</p> <p><b>Workaround</b> Set the <code>Polling Batch Size</code> to a value less than 2000. The field is available under the Adapter Services tab.</p>
1-XHA8	<p><b>Summary</b> For Oracle, the adapter has a precision limitation of 15 on the unconstrained NUMBER type.</p> <p><b>Workaround</b> Specify a constraining number type: <code>NUMBER(38)</code>, <code>NUMBER(38,10)</code>, etc.</p>

Defect #	Summary/Workaround
1-XYUBO	<p><b>Summary</b> If you first pick a table to be a destination table and then pick the same table to be a source table with loop detection, the palette first creates the class of the destination without <code>ADB_SOURCE</code> and then does not modify the class to add <code>ADB_SOURCE</code> after the source table is altered to have an <code>ADB_SOURCE</code> column, causing loop detection to fail.</p> <p><b>Workaround</b> Manually add <code>ADB_SOURCE</code> as an attribute to the destination table class and loop detection will work.</p>
1-ZQUEY	<p><b>Summary</b> (DB2 for z/OS only) A publication service update statement from 'N' to 'P' times out with an error and the adapter shuts down if the publishing table is locked for a long period.</p> <p><b>Workaround</b> None.</p>
1-19YVXS	<p><b>Summary</b> Latin-1 message encoding is not supported for the JMS and Rendezvous transports when configured to use the XML message wire format.</p> <p><b>Workaround</b> To use the XML message wire format, the default message encoding, Latin-1 (ISO8859-1) must be changed to UTF-8. Otherwise, use the Rendezvous transport configured with ActiveEnterprise message wire format. It supports both UTF-8 and Latin-1 message encodings.</p> <p>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.</p> <ul style="list-style-type: none"> <li>• To change the message encoding on the project, select the root folder and, under the <code>Project Settings</code> tab, change the value for the <code>TIBCO Message Encoding</code> field. This affects only projects used with Adapter Tester, BusinessWorks Tester and projects exported to local repositories.</li> <li>• To change the message encoding for the administration domain, edit the <code>repo.encoding</code> property in the administration server's <code>tibcoadmin&lt;domain-name&gt;.tra</code> configuration file, which is located in <code>&lt;install-path&gt;/tibco/administrator/n.n/bin</code>. This affects all projects managed by the administration server.</li> </ul>
1-1M5TT	<p><b>Summary</b> The adapter does not respond to the <code>TERMINATE</code> message when the <code>adb.rvMaxQueueSize</code> limit is reached.</p> <p><b>Workaround</b> On Windows, use the Task Manager to kill the adbagent process. On UNIX, use <code>kill -9</code> to kill the adbagent process.</p>

Defect #	Summary/Workaround
1-1X3DCO	<p><b>Summary</b> If an Oracle client is on a network drive, or on the same machine but on a different drive than the operating system, the adapter cannot start as a service.</p> <p><b>Workaround</b> There are two workarounds:</p> <ul style="list-style-type: none"> <li>• Rename the tra properties file to adbagent . tra. This only works for a single instance.</li> <li>• Rename the adbagent . exe to the same name as the tra properties file and modify the nt service . binary . path . absolute property in each tra properties file to use the new name.</li> </ul>
1-271E0J (DataDirect defect: 15013284)	<p><b>Summary</b> (DB2 for iSeries only) The subscription service throws an Invalid character value error, similar to the following when attempting to insert into the destination table.</p> <pre> 2004 Aug 06 13:48:49:620 GMT -7 AS400.AS400 Error [Adapter] AEADB-700090 Database error updating ADB.P_CUSTOMER38  tracking=#-0Y--C--EFDigE6U-0rOzzwBx-zzw#ADB.AS400.ADB.P_CUSTOMER 38# 2004 Aug 06 13:48:49:651 GMT -7 AS400.AS400 Error [Database] AEADB-100004       DBError: Database driver code: HY000       Database server code: -7008       Database driver message: [DataDirect][ODBC DB2 Wire Protocol driver][UDB DB2 for iSeries and AS/400]Unknown error: SQLCODE -7008  2004 Aug 06 13:48:49:682 GMT -7 AS400.AS400 Error [Database] AEADB-920015 Subscription error. Subscription service ADSubscriber listening on subject AS400.ADBPublisher failed due to database error:  DBError: 5 ErrorCode: HY000 ServerCode: -7008 Message: [DataDirect][ODBC DB2 Wire Protocol driver][UDB DB2 for iSeries and AS/400]Unknown error: SQLCODE -7008 </pre> <p><b>Workaround</b> On Unix, for the DB2 entry in the ODBCINI file, make sure the WithHold property is set to zero (WithHold=0).</p> <p>On Windows, when configuring a DB2 data source, make sure that With Hold Cursors check box is cleared.</p>

Defect #	Summary/Workaround
1-2G60CX	<p><b>Summary</b> Names are case insensitive. For example, the following error appears if renaming an adapter instance from UDb81 to UDB81.</p> <p>Names of many adapter components must be unique within the adapter. The name you entered conflicts with an existing component name.</p> <p><b>Workaround</b> None.</p>
1-31HRC2	<p><b>Summary</b> (DB2 for iSeries only) If group messaging is enabled, the publication service will hang when new rows are added to the source table.</p> <p><b>Workaround</b> On Unix, for the DB2 entry in the ODBCINI file, make sure the WithHold property is set to zero (WithHold=0).</p> <p>On Windows, when configuring a DB2 data source, make sure that With Hold Cursors check box is cleared.</p>
1-3WB35	<p><b>Summary</b> If you have saved a project in TIBCO Designer, then click on an adapter folder icon, then try to close the project, you will see a message prompting you to save your changes even though you have not made any changes.</p> <p><b>Workaround</b> Ignore the message and close without saving, or click Save.</p>
1-4LN1V	<p><b>Summary</b> (Oracle only), a subscription service inserts the wrong value for an r4 type column.</p> <p><b>Workaround</b> Use the r8 type instead of r4.</p>
1-BBRMU (DataDirect defect: 15006332)	<p><b>Summary</b> (Sybase only) While the adapter is running, if you drop and then recreate a destination table that is part of a cached child select statement in a parent-child relationship, and you are using the DataDirect Sybase wire protocol driver, the subscription service displays an error. This does not happen with cached child non-select statements.</p> <p><b>Workaround</b> On Windows, use the Sybase ODBC driver. On Unix, restart the adapter. Then remove the cached child select statement.</p>
1-HVLVI	<p><b>Summary</b> After you enter information for a publication service child table in the Child Table Mappings tab, the Apply button is not enabled.</p> <p><b>Workaround</b> Press ENTER or TAB after typing in the changes, or click on the Subscriber Child Table Name value to change the focus. This enables the Apply button.</p>

Defect #	Summary/Workaround
1-Q9F6P	<p><b>Summary</b> (Microsoft Windows only) Adding instances of certified subscription services does not improve the message rate, although the messages are load-balanced across all the instances.</p> <p><b>Workaround</b> Use the Oracle ODBC driver.</p>
1-9MURML	<p><b>Summary</b> (MS SQL Server 2000 only) The adapter will terminate with an error "Error registering alerter.." if the adapter contains more than one publishing service and the polling interval is set to 0</p> <p><b>Workaround</b> Set polling interval to a value larger than 0</p>
1-9NTIBX	<p><b>Summary</b> (Sybase 15 only) The alerter library cannot be called by the sybase server.</p> <p><b>Workaround</b> None.</p>
1-9MYKY7	<p><b>Summary</b> When value of the adb.unicode property is set, the subscription service inserts corrupted data into the database if the column type is NUMBER or NUMERIC, and the AE schema type is string.</p> <p><b>Workaround</b> Make sure AE type is r8 for number type if adb.unicode is set.</p>
1-9M5FOV (Data Direct defect: DD00045387)	<p><b>Summary</b> (Oracle Only) When there are overloaded stored procedures in a package and if the <b>Procedure Returns Results</b> option is selected in the ODBC configuration, the adapter will try to invoke the procedure with REF COURSE as the return parameter and it will invoke other procedures when the option is not selected.</p> <p><b>Workaround</b> Configure two adapter instances that connect to different ODBC configurations that work with procedures with or without the REF CURSOR return type.</p>