

TIBCO® Adapter for Files (IBM i)

Release Notes

Software Release 5.0.0
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Two-Second Advantage®



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Preface

This manual is primarily intended for users who are involved in setting up and maintaining the system, but might also useful for application programmers.

Topics

- [Related Documentation, page iv](#)
- [Typographical Conventions, page v](#)
- [Connecting with TIBCO Resources, page vii](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO Adapter for Files (IBM i) Documentation

The following documents form the TIBCO® Adapter for Files (IBM i) documentation set:

- *TIBCO Adapter for Files (IBM i) Installation and User's Guide*— Read this document for instructions on using the product.
- *TIBCO Adapter for Files (IBM i) Release Notes* — Read this document for a summary of features, changes since the last release, and a description of any issues that may affect installing or using Adapter.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products:

- TIBCO Rendezvous®: This TIBCO's real-time transport layer is supported by the TIBCO Adapter for Files (IBM i) software.
- TIBCO Enterprise Message Service™: This product offers uniform messaging interface among enterprise applications and is supported by the TIBCO Adapter for Files (IBM i) software.
- TIBCO® Adapter for Files z/OS (MVS): This product allows files on an IBM z/OS system to interoperate with applications configured for the TIBCO environment.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions




Convention	Use
code font	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use <code>MyCommand</code> to start the foo process.
bold code font	Bold code font is used in the following ways: <ul style="list-style-type: none"> • In procedures, to indicate what a user types. For example: Type admin. • In large code samples, to indicate the parts of the sample that are of particular interest. • In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, <code>MyCommand</code> is enabled: <code>MyCommand [enable disable]</code>
<i>italic font</i>	Italic font is used in the following ways: <ul style="list-style-type: none"> • To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>. • To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand PathName</code>
Key combinations	Key name separated by a plus sign indicate keys pressed simultaneously. For example: <code>Ctrl+C</code> . Key names separated by a comma and space indicate keys pressed one after the other. For example: <code>Esc, Ctrl+Q</code> .
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Connecting with TIBCO Resources

How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts. It is a place to share and access the collective experience of the TIBCO community. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <https://community.tibco.com>.

How to Access TIBCO Documentation

Documentation for this and other TIBCO products is available on the TIBCO Documentation site:

<https://docs.tibco.com>

Documentation on the TIBCO Documentation site is updated more frequently than any documentation that might be included with the product. To ensure that you are accessing the latest available help topics, please visit us at <https://docs.tibco.com>.

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, contact TIBCO Support as follows:

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:

<http://www.tibco.com/services/support>

- If you already have a valid maintenance or support contract, visit this site:

<https://support.tibco.com>

Entry to this site requires a user name and password. If you do not have a user name, you can request one.

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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 for one. You must have a valid maintenance or support contract to use this site.

Topics

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- [Deprecated and Removed Features, page 7](#)
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New Features

The following new features have been added since version 4.5.0 of TIBCO Adapter for Files (IBM i) software.

Release 5.0.0

The following new feature has been added in release 5.0.0:

- **Samples and application** This release enhances the samples and code for a more efficient, easily usable product.

Release 4.7.0

The following new features have been added in release 4.7.0:

- **Support for Nested Messages** This release supports nested messages for TIBCO Enterprise Message Service (EMS) to complement the existing support for nested messages for Rendezvous. Before, if you specified `startnewmessage = false`, nested messages for the EMS transport were disallowed by the File Adapter Publisher. That configuration parameter is now honored. The behavior of the configuration parameters is the same for both EMS and Rendezvous. More importantly, any `MESSAGE_FIELDS CONSTRAINT` that specifies `startnewmessage = false` now enables itself to be nested inside another EMS message.

This new feature changes the delivery mechanism of mapped messages if EMS is the transport. Instead of nesting those messages inside another map message, Adapter nests the child messages inside a stream message. Two improvements result:

- The nested map messages are retrieved in the order in which they were inserted from inside the stream message automatically.
- At each transaction boundary, each map message identifies itself with an internal name-value pair generated by Publisher. This internal name-value pair appears as follows:

```
aXxXCONSTRAINTXxXa={String:division}
```

Where *division* is the container name in `CONSTRAINT`. This setup is significant only during processing of the EMS nested messages outside Adapter. When Adapter sends those messages between Publisher and Subscriber, this added name-value pair is transparent.

- **Renaming of Product** The product, formerly known as TIBCO Adapter for Files i5/OS, has been renamed TIBCO Adapter for Files (IBM i).

Release 4.6.0

The following new features have been added in release 4.6.0:

- **Support for TIBCO Enterprise Message Service (EMS)** Adapter now supports EMS for the following functions:
 - Special durable subscribers for RecordMode and BlockModeSFT file transfers.
 - MapMessage message type.
- **Support for customization of end-of-line characters** Adapter now supports two new parameters:
 - EOL_CHARACTER — Identifies the EBCDIC character that serves as the end-of-line delimiter for the Publisher on IBM i. The selected character can translate correctly to the end-of-line character for a Subscriber on the target ASCII platform.

For example, to communicate an end-of-line character to a Subscriber on Windows (X'0A'), specify EOL_CHARACTER = "25" to override the default end-of-line (X'15'), which the Publisher normally sends from IBM i.
 - EOL_ON_SUBSCRIPTION — Specifies the character that serves as the end-of-line delimiter for identifying lines in incoming messages for Subscriber. The two-digit string parameter represents a hexadecimal value.

For details, see *TIBCO Adapter for Files i5/OS User's Guide*.

- **Support for BlockModeSFT** You can now specify the BlockModeSFT mode between Adapter and the OpenSystems adapter with TIBCO Rendezvous.
- **Enhanced File Subscriber** If you set saveFileInterval to 0 (zero), the default value of 120 seconds is in effect, with 1,800 seconds being the maximum value.
- **New properties for EMS** You can now specify four new properties for Adapter:
 - JMS_TIBCO_COMPRESS
 - JMS_TIBCO_DISABLE_SENDER
 - JMS_TIBCO_MSG_TRACE
 - JMS_TIBCO_PRESERVE_UNDELIVERED

For details, see *TIBCO Adapter for Files i5/OS User's Guide*.

- **Enhanced logging** The Publisher can now log matched, unmatched, or both matched and unmatched records by various record formats, which act as constraints.
- **Durable subscribers** Adapter now guarantees delivery for EMS transport for durable Subscribers.

Release 4.5.0

The following new features have been added in release 4.5.0:

- **Block Mode ECM** Block Mode ECM, a high-performance mechanism that asynchronously sends files with high reliability and restartability, sends file segments in large blocks, which are asynchronously acknowledged. In case of link failure, the file transmission can automatically restart from the last acknowledged block. Block Mode ECM guarantees delivery and is more lightweight than the mechanism provided by Rendezvous Certified Messaging (RVCM), which Adapter currently supports.
- **Record Mode ECM** Adapter now supports Record Mode ECM.
- **Business-event notifications** Adapter now supports TIBCO BusinessEvents.

For details, see *TIBCO Adapter for Files AS/400 User's Guide*.

Changes in Functionality

There are no changes in functionality in version 5.0.0 of TIBCO Adapter for Files (IBM i).

Deprecated and Removed Features

No features are deprecated or removed in version 5.0.0 of TIBCO Adapter for Files (IBM i).

Migration and Compatibility

This section describes the major capability changes since release 4.6.0 of TIBCO Adapter for Files (IBM i).

Adapter no longer supports the following functions:

- The configuration element `PERSIST_EMS_ECM_MSGS`
- `BlockModeECM` and `RecordModeECM` transfers with EMS support

Closed Issues

The table lists closed issues since version 4.6.0 of TIBCO Adapter for Files (IBM i). For the version 4.7.0 and 4.6.0, unless otherwise noted, the issues apply to both the IBM i and z/OS platforms. For the version 5.0.0, the issues only apply to the IBM i platform.

Release	Change Request ID/key	Summary
5.0.0	AFI-122	<p>The startup messages of Publisher and Subscriber written to the system operator message queue were incorrect.</p> <p>Corrected. Message SXF003I and SXF0004I are written to the system operator message queue in this release.</p>
5.0.0	AFI-121	<p>After creating an EMS connection successfully, the session parameters displayed in the message SXF0372I were incorrect.</p> <p>Corrected. Message SXF0327I now displays the correct session parameters for the EMS connection in this release.</p>
5.0.0	AFI-120	<p>When a large file was split into multiple messages and published to Subscriber, only the last message had the file name.</p> <p>Corrected. Publisher now includes the file name in every message sent to Subscriber, improving the behavior of recovery and publishing to open systems platforms.</p>
5.0.0	AFI-111	<p>The library names in sample configuration files were wrong.</p> <p>Corrected. When installing the options 1 and 2 for the RV and EMS samples, the source members of the INIFPUB, INIFSUB, QLCLSRC, and README *FILE objects are now updated to refer to the *LIB object to which they were restored.</p>
5.0.0	AFI-109	<p>The default value of parameter <code>exitOnFileSaveError</code> was different than described in the TIBCO Adapter for Files (IBM i) Installation and User's Guide.</p> <p>Corrected. The default value for parameter <code>exitOnFileSaveError</code> is now <code>true</code> as documented.</p>
5.0.0	AFI-108	<p>Subscriber aborted when issuing the message SXF7234E.</p> <p>Corrected.</p>

Release	Change Request ID/key	Summary (Cont'd)
5.0.0	AFI-105	<p>The value of <code>errno</code> was not properly displayed when Subscriber issued message <code>SXF7200E</code>.</p> <p>Corrected. The value of <code>errno</code> is now properly displayed.</p>
5.0.0	AFI-103	<p>When autogenerating a file, either by using <code>generateFileOnNumberOfMessages</code> or <code>saveFileInterval</code>, the <code>executeAfterProcess</code> was not executed.</p> <p>Corrected. Subscriber now executes <code>executeAfterProcess</code> when autogenerating a file.</p>
5.0.0	AFI-88	<p>In the trace log, multiple messages were used for the product version and related information.</p> <p>Corrected. The application description, application version, build information, and compile date are now consolidated into startup messages <code>SXF0053I</code> and <code>SXF5053I</code> for Publisher and Subscriber. Messages <code>SXF0054I</code>, <code>SXF0391I</code>, <code>SXF5054I</code>, and <code>SXF5331I</code> are no longer used.</p>
5.0.0	AFI-87	<p>When Publisher processing a file, if the <code>lineLength</code> was less than the record length of a file, and the <code>TRANSLATE_FROM</code> and <code>TRANSLATE_TO</code> parameters were specified, the processing aborted.</p> <p>Corrected.</p>
5.0.0	AFI-86	<p>When sending a file to TIBCO Adapter for Files i5 Subscriber, if the file contained a large number of records, the subscriber failed to create the target file and the following error occurred:</p> <p><code>"CPA5305 Record not added. Member BR is full. (C I 9999)."</code></p> <p>Corrected. The <code>fileSizeInitRec</code>, <code>fileSizeIncrRec</code>, and <code>fileSizeIncrMax</code> subscriber configuration parameters can now be used to control the initial size for a file to be created and any subsequent size increments.</p>
5.0.0	AFI-83	<p>The identifier <code>AE390</code> in the trace log was incorrect.</p> <p>Corrected. In this release, the identifier <code>AE390</code> is corrected to <code>AE400</code>.</p>

Release	Change Request ID/key	Summary (Cont'd)
4.7.0	1-9451IJ	Because the default text mode processing in Adapter did not support hexadecimal zeros in the input data, Adapter truncated text records that were read at the first hexadecimal zero byte. To resolve the issue, two new Publisher parameters, TRANSLATE_FROM and TRANSLATE_TO, are now in place.
4.7.0	1-94ETDC	Adapter now correctly calculates the number of variable-length records that fit into a block in binary mode.
4.7.0	1-974CXI	This Change Request applies to z/OS only. In the block mode ECM (binary format), Adapter can now transfer files that are larger than 2 GB.
4.7.0	1-98QLPM	Adapter stopped processing files after receiving errors during a tracelog switch.
4.7.0	1-9JLHB5	Adapter now properly renames the work file to a recoverable name.
4.7.0	1-9PNWD5	The escape message MCH6902 from the subscriber job log no longer appears.
4.7.0	1-9PNWFH	For small polling intervals, Adapter was able to invoke the poll interval timer thread before initialization was complete. A fix is now in place.
4.7.0	1-9QKYED	<p>If you renamed a tracelog member because it was full and if the number of characters in the new name exceeded the limit allowed, renaming failed.</p> <p>For z/OS, Adapter now shortens the last qualifier of a sequential data set appropriately when a numeric suffix is appended to the name when the tracelog is full. If FILE_COUNT is less than 10, the suffix is one character; otherwise, the suffix is two characters.</p> <p>For i5, Adapter now supports three file name formats, two of which are enhanced, as follows:</p> <ul style="list-style-type: none"> • LIBRARY and FILE (MEMBER): If the member name cannot hold the suffix, Adapter shortens the name. • LIBRARY and FILE: Instead of creating a file name multiple times when it is full, Adapter shortens the file name appropriately. • FILE: Same as above.

Release	Change Request ID/key	Summary (Cont'd)
4.7.0	1-9Q0HZ5	If you specify a polling interval of less than 100 msec., Adapter increases the interval to 100 msec.
4.7.0	1-A2IWS1	This Change Request applies to z/OS only. BusinessWorks could not specify a File Adapter tag for VSAM RRN (a##\$RBARRN\$a) because of invalid characters. The fix offers a duplicate tag for use by BusinessWorks (aXxXRBARRNXxXa) and deprecates the original tag.
4.7.0	1-A32TN9	The message handling mechanism now checks for valid message pointers before destroying messages.
4.7.0	1-A3RKF2	Out-of-sequence processing of records with ECM is now updated. The Publisher now resends missing out-of-sequence messages and handles the last end-of-file messages in the same manner.
4.7.0	1-AB2G8T	The Publisher now allows a maximum of 512 instead of 256 fields per record.
4.7.0	1-AB2GA3	<p>The Publisher stops processing files for [FILETYPE] in which a locked file exists.</p> <p>This is a scenario: The Publisher received the escape message CPF9803 in the joblog when attempting to publish a locked file, which the Publisher could not move from INPUT_LIBRARY to PROCESS_LIBRARY. Subsequently, the thread that handles [FILETYPE] died and could not poll for that file. The tracelog displays no error messages.</p> <p>The fix writes the following messages to the tracelog:</p> <pre>INFO [APP] 2FF AE400-API_ER_400 SXF9003E API QLIRNMO failed with exception CPF9803 ERROR [APP] 2FF AE400-MOVE_FILE SXF2127E <DY4> <LATONAINP/DY4A> Move failed: Error renaming Input file</pre> <p>[FILETYPE] continues polling and, if it finds a file, attempts to publish it at the next polling interval.</p>
4.7.0	1-ADALWZ	Adapter now supports nested messages for EMS transport.

Release	Change Request ID/key	Summary (Cont'd)
4.6.0	1-7FB2IJ	<p>Adapter now contains the following new parameters in the <code>FILE_OPTIONS</code> section:</p> <ul style="list-style-type: none"> • <code>JMS_TIBCO_COMPRESS</code> • <code>JMS_TIBCO_DISABLE_SENDER</code> • <code>JMS_TIBCO_MSG_TRACE</code> • <code>JMS_TIBCO_PRESERVE_UNDELIVERED</code>
4.6.0	1-87DLGB	Adapter no longer sends empty records when using multiple record formats with EMS as the chosen transport.
4.6.0	1-8D1KBD	Adapter now prints the trace messages <code>SXF2114W</code> and <code>SXF2113W</code> if you choose the tracing level of 6.
4.6.0	1-8FQ04K	The EMS parameter <code>publishDestinationType</code> now allows mixed-case arguments.
4.6.0	1-8G054T	The timing problems that caused the Publisher to fail during termination no longer exist.
4.6.0	1-8ID2W3	Adapter now sets its reporting agent name correctly.
4.6.0	1-8JD665	If Adapter cancels a subscriber during end-of-file processing, no duplicate records result in the file upon recovery.
4.6.0	1-8MVOHY	Adapter now has a new parameter: <code>EOL_ON_SUBSCRIPTION</code> , whose argument identifies the hex value that denotes the end-of-line character.
4.6.0	1-8NVJQ	A new behavior is now in place: If you set <code>saveFileInterval</code> to 0 (zero), the default value becomes 120 seconds. That parameter has a maximum value of 1,800 seconds.

Known Issues

The table lists known issues in version 5.0.0 of TIBCO Adapter for Files (IBM i).

Change Request ID	Description
1-81AHN7	<p>Summary: The BlockModeSFT publisher cannot handle multiple triggers that are published simultaneously.</p> <p>Workaround: Set the value of the transactionDelay parameter to 2000 or higher.</p>
1-82AYJ3	<p>Summary: When transferring BlockModeSFT data, Adapter incorrectly sends an error message when, in fact, no error has occurred. The erroneous message states that Adapter could not open the .PRP file.</p> <p>Workaround: None.</p>
1-82P1GY	<p>Summary: RecordModeECM does not support multiple subscribers.</p> <p>Workaround: None.</p>
1-82Y2F5	<p>Summary: This Change Request applies to IBM i only. Adapter does not support the TZ parameter for different time zones.</p> <p>Workaround: None.</p>
1-8238R3	<p>Summary: If the value of the configuration parameter removeAfterProcess is false, the Publisher incorrectly deletes the file from the input library after processing.</p> <p>Workaround: Maintain backup copies of the files for processing.</p>