

# **TIBCO Adapter™ for Files z/OS (MVS)**

## **Release Notes**

*Software Release 4.7.0  
June 2010*

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# Release Notes

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## Topics

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## New Features

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This section describes the new features in releases 4.7.0 and several previous releases of TIBCO Adapter for Files z/OS (MVS) software.

### Release 4.7.0

Release 4.7.0 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 important, 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, the 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 without extra effort.
- At each transaction boundary, each map message identifies itself with an internal name-value pair generated by the 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 the Adapter. When the Adapter sends those messages between the Publisher and the subscriber, this added name-value pair is transparent.

### Release 4.6.0

Following are the major new features in release 4.6.0:

- **Support for TIBCO Enterprise Message Service (EMS)** The Adapter now supports EMS for the following:
  - Special durable subscribers for `RecordMode` and `BlockModeSFT` file transfers.
  - `MapMessage` message type.

- **Support for `BlockModeSFT`** You can now specify the `BlockModeSFT` mode between The Adapter and the OpenSystems Adapter with TIBCO Rendezvous.
- **Enhanced File Subscriber** Setting `saveFileInterval` to 0 (zero) results in a default value of 120 seconds, with 1,800 seconds being the maximum value.
- **New properties for EMS** You can now specify four new properties for the 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 the various record formats, which act as constraints.
- **Durable subscribers** The Adapter now guarantees delivery for EMS transport for durable subscribers.

## Release 4.4.0

Following are the major new features in release 4.4.0:

- **Support for block transfer mode** The Adapter now supports the block transfer mode with EMS.
- **Support for Partitioned Data Sets (PDS)** The Subscriber now supports PDS.

## Release 4.3.0

Following are the major new features in release 4.3.0:

- **Support for TIBCO Enterprise Message Service (EMS)** The Adapter now supports EMS for the following:
  - File transfers for record mode.
  - `MapMessage`, which is the only message type currently supported.

The Adapter does **not** support block transfer mode at this time.

For details on record and block transfer modes, see Chapter 1 of *TIBCO Adapter for Files z/OS (MVS) User's Guide*. For details on EMS message types, see Chapter 4 of *TIBCO Enterprise Message Service User's Guide*.

**New Configuration Settings** The Adapter supports the following settings for EMS:

Component	New Elements	New Parameters
FilePublisher	<p>In the Options section of the configuration file:</p> <p>EEM_DESTINATION ERROR_DESTINATION EMS_SESSION</p>	<p>In the FileType section of the configuration file:</p> <p>publishDestinationName publishDestinationType deliveryMode JMS_TIBCO_MSG_TRACE trackingIdDestinationName triggerDestinationName triggerDestinationType startPublishDestinationName endPublishDestinationName</p>
FileSubscriber	<p>In the Options section of the configuration file:</p> <p>EEM_DESTINATION ERROR_DESTINATION EMS_SESSION</p>	<p>In the FileType section of the configuration file:</p> <p>subscribeDestinationName subscribeDesinationType JMS_TIBCO_MSG_TRACE trackingIdDestinationName genFilePublishDestinationName generateFileDestinationName</p>

For details, see Chapter 3 of *TIBCO Adapter for Files z/OS (MVS) User's Guide*.

- **Revised Documentation** In *TIBCO Adapter for Files z/OS (MVS) User's Guide*:
  - For introductory information on JMS, see Chapter 1.
  - For a summary of the FilePublisher and FileSubscriber configurations by transport (that is, TIBCO Rendezvous versus TIBCO EMS), see Chapter 3.
  - For an expanded error-message listing, see Appendix C.

Release 4.2.0

Following are the major new features in release 4.2.0:

- **Change in product name** The product name z/OS (MVS) has replaced OS/390. The product documentation reflects the change.
- **Enhanced memory management** The Subscriber can now subscribe to files that are larger than 1GB without continuous memory growth. You can control the memory growth of the Subscriber job with the QUEUE\_LIMIT parameter. By adjusting the Subscriber's region size, you can ensure the Subscriber does not



run out of memory. For details, see the `QUEUE_LIMIT` element's definition in *TIBCO Adapter for Files z/OS (MVS) User's Guide*.

- **Allocation of data sets** The Adapter now allows allocation of sequential and Generation Data Group (GDG) data sets on multiple volumes.
- **Support for non-SMS customers** The `VOLSER` and `UNIT` configuration elements, which were added in release 4.1, now support `OUTPUT` (GDG).
- **Support for Record Mode ECM** The Subscriber now supports Record Mode ECM.
- **Messages on MVS Console** The Adapter writes Publisher and Subscriber messages to MVS Console when starting and completing the publication of a file.
- **Logins to SYSLOG** The Adapter writes to MVS Console (`SYSLOG`) if the Publisher goes into a republish sequence, if the `B37` error is returned, or if the recovery logic is called. To track a file's progress, you can automate the operations support code with the associated `SXFxxxx` messages.
- **Revised documentation** The documentation includes expanded information on the configuration parameters for FilePublisher and FileSubscriber. See "Usage Guidelines for Publisher and Subscriber" in Chapter 3 of *TIBCO Adapter for Files z/OS (MVS) User's Guide*.

## Release 4.1.0

Following are the major new features in release 4.1.0:

- **Support for business-event notifications** This release supports TIBCO BusinessEvents.
- **Override of progress file name** You can override the default name of the progress file with a new configuration element, `PROGRESS_DATASET`.
- **Enhanced support for non-SMS customers** New configuration parameters now enable non-SMS customers to specify `VOLSER` and `UNIT`.
- **Emulation of COBOL LOW-VALUES and HIGH-VALUES** New configuration parameters now enable emulation of `COBOL LOW-VALUES` and `HIGH-VALUES`.
- **Configurable limit for Rendezvous listen queue** You can now set the maximum depth of the Rendezvous listen queue with a new configuration parameter.
- **Support for local time zones in trace and business-event messages** You can now set the time zone for trace and business-event messages with a new configuration parameter.

## Release 4.0.0

Following are the major new features in release 4.0.0:

- **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 the Adapter currently supports.
- **Configurable code pages** The Adapter now supports Rendezvous 7.1 handling of code-page conversion between a specified host code page and a network code page. Depending on your networking needs, different copies of the Adapter (with different configuration files) can support different sets of code pages.
- **Security checking of Resource Access Control Facility (RACF) and Access Control Facility 2 (ACF2)** For incoming publishing requests, such as trigger messages and incoming subscriber data, you can now check `UserId` against the associated file being processed. The Adapter supports standard `SAF RACROUTE`.
- **Tracking summary** You can send a “tracking” subject name a message that summarizes the data—file name, file size, transfer time, success or failure, and so forth—about a file transfer. Subsequently, network administrators can easily determine the final status of a file transfer.

You can configure both the Publisher and the Subscriber to report tracking data. Identify both with a shared tracking ID so that you can easily locate and coordinate the information on a specific file transfer.

- **Support for error subject** You can send an error subject a message that summarizes the information on the failure of a file transfer or security or other errors detected by the Adapter. Subsequently, network administrators can forward the failure information on a running Adapter network to a centralized error server.
- **Writing of critical errors to SYSLOG** You can write transfer failures, security failures, or other Adapter-detected errors to MVS `SYSLOG`, thus automating the handling of problems that occur in an Adapter network. All Publisher and Subscriber messages now include a standard eight-digit product and error-number code (`SXFnnnnn`) so that automated operations programs can easily parse and process the Adapter’s error messages.
- **Support for Started Task (STC)** The Adapter now provides limited support for the `start` and `stop` commands. Currently, however, the Adapter does not support the `modify` commands.

- **Support for dynamic file types in Rendezvous** Dynamic file types are those that define their target `publishSubjectName` value dynamically. This dynamic subject depends on a data field, which is from the input file and specified within angle brackets (<>). That data field must contain a valid label of a defined `messageItem` parameter prefixed by its container name and separated by a period.

For example: `publishSubjectName =`

`"CHECK.JAN.<ChKey.RoutingCode>.CLEARED"` constructs

`publishSubjectName` with the data from the label `RoutingCode` in the container name `ChKey`. If the `RoutingCode` value in the message to publish is `154363`, that message's `publishSubjectName` value becomes

`CHECK.JAN.154363.CLEARED.`

- **Increased length of file-type names** File-type names can now be up to eight characters long.
- **Maximum concurrent publishing threads** You can limit the number of concurrent file transfers by setting the new `MAX_CONCURRENT_JOBS` parameter. Doing so helps conserve resources (memory and cycles) when defining a large number of file types or when receiving a large number of publication requests.
- **Optional turn-off of startup messages** With a large numbers of file types, starting the Adapter can take several minutes to complete so as to log all the startup messages. You can now avoid this overhead by setting a new parameter to turn off logging of all configuration parameters at startup.
- **Continuous operation on configuration errors** For noncritical configuration errors, you can direct the Adapter to mark an incorrect File Type configuration offline and to continue processing—instead of stopping when a configuration error occurs. This configuration is particularly useful for development tests.
- **Retention of trailing blanks on fixed block records** Previous versions of the Adapter truncated trailing blanks—even on fixed block files. Newly available is a parameter for applications, such as Excel, that require fixed-length records with trailing blanks included (fully padded).
- **Support of Job Control Language (JCL) Data Definition (DD) for INI** You can now specify configuration file names by means of a DD card or a set of concatenated DD cards. That way, you can keep common definitions in one data set and Adapter-unique definitions in other data sets for concatenation.

## Changes in Capability

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This section describes the major capability changes since releases 4.6.0 and 4.4.0 of the Adapter.

### Release 4.6.0

- For positive numbers, packed and zoned decimal numbers now use a sign nybble of `F` instead of `C`.
- When the FileSubscriber creates a variable-blocked output file (`RECFM=VB`), the meaning of the `lineLength` parameter now refers to the maximum number of characters in a line of the file, that is, the same definition as that for fixed-length files. Formerly, `lineLength` must be the maximum data length plus four, which corresponds to the Logical RECOrd Length (LRECL) of the variable-blocked (VB) data set.
- The default value for the Publisher and Subscriber's parameter `generateFileFieldName` has changed from `FileName` to `filename`.
- The Adapter no longer supports the configuration element `PERSIST_EMS_ECM_MSGS`.
- If EMS is the transport, the Adapter no longer supports the `BlockModeECM` and `RecordModeECM` transfer types.

### Release 4.4.0

- You can now configure the Adapter such that it does **not** create target data sets for uncataloged files.
- Processing for ECM text files is now faster.

## Closed Issues

The table below summarizes the closed issues for the releases as specified. Unless otherwise noted, the issues apply to both the IBM i and z/OS platforms.

Closed in Release	Change Request ID	Summary
4.7.0	1-9451IJ	Because the default text mode processing in the Adapter did not support hexadecimal zeros in the input data, the Adapter truncated text records that were read at the first hexadecimal zero byte. To resolve that issue, two new Publisher parameters, <code>TRANSLATE_FROM</code> and <code>TRANSLATE_TO</code> , are now in place.
4.7.0	1-94ETDC	The 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), the Adapter can now transfer files that are larger than 2 GB.
4.7.0	1-98QLPM	The Adapter stopped processing files after receiving errors during a tracelog switch.
4.7.0	1-9JLHB5	The Adapter now properly renames the work file to a recoverable name.
4.7.0	1-9PNWD5	The escape message <code>MCH6902</code> from the subscriber job log no longer appears.
4.7.0	1-9PNWFH	Before, for small polling intervals, the Adapter was able to invoke the poll interval timer thread before initialization was complete. A fix is now in place.

Closed in Release	Change Request ID	Summary
4.7.0	1-9QKYED	<p>If you renamed a trace log 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, the Adapter now shortens the last qualifier of a sequential data set appropriately when a numeric suffix is appended to the name when the trace log is full. If <code>FILE_COUNT</code> is less than 10, the suffix is one character; otherwise, the suffix is two characters.</p> <p>For i5, the Adapter now supports three file name formats, two of which have been enhanced, as follows:</p> <ul style="list-style-type: none"> <li><code>LIBRARY</code> and <code>FILE (MEMBER)</code>: If the member name cannot hold the suffix, the Adapter shortens the name.</li> <li><code>LIBRARY</code> and <code>FILE</code>: Instead of creating a file name multiple times when it is full, the Adapter shortens the file name as appropriate.</li> <li><code>FILE</code>: Same as above.</li> </ul>
4.7.0	1-9QOHZ5	If you specify a polling interval of less than 100 msec., the 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 ( <code>a##\$RBARRN\$##a</code> ) because of invalid characters. The fix offers a duplicate tag for use by BusinessWorks ( <code>aXX\$RBARRNXXa</code> ) 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 has undergone a fix. 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.

Closed in Release	Change Request ID	Summary
4.7.0	1-AB2GA3	<p>The Publisher stops processing files for [FILETYPE] in which a locked file exists.</p> <p>Here's the 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 &lt;DY4&gt; &lt;LATONAINP/DY4A&gt; Move failed: Error renaming Input file  [FILETYPE] continues polling and, if it finds a file, attempts to publish it at the next polling interval.</pre>
4.7.0	1-ADALWZ	The Adapter now supports nested messages for EMS transport.
4.6.0	1-8ZD9B7	For BLOCKMODESFT mode with EMS, if the Publisher fails during the transfer, the Publisher now opens the progress file on restart and, recognizing that it should go into recovery, keeps the file open and retains it. Recovery can then proceed.
4.6.0	1-9100SD	During or after a switch of trace logs, the Publisher no longer crashes (OC4).
4.4.1	1-7C0ISU	The Adapter for z/OS now recognizes that it has encountered a D37 or User Abend 4082 error on the Subscriber.
4.4.1	1-7C0IS4	The Adapter for EMS 4.3 now handles Relative Record Data Set (RRDS) files on the Subscriber properly.
4.4.1	1-773F27	The Adapter status now correctly specifies the publication or subscription result, particularly if an error occurred at the Subscriber.
4.4.1	1-773F1D	Misconfiguring the Adapter caused a misleading (erroneous) error message. The fix ensures that the message explicitly specifies the actual cause of the configuration problem.
4.4.1	1-77AVIE	Under certain conditions, the default block size for CWK files caused a CWK file to be two or three times the size of the final target file. This fix enables an override to change the default.

Closed in Release	Change Request ID	Summary
4.4.1	1-77AVHT	The fix modifies the <code>appendToExistingFile</code> parameter for more granularity so that the Adapter can create an output data set on the same volume if the data set already exists.
4.4.1	1-77DH1V	Under certain conditions, the Adapter for z/OS produced an <code>SOCC4</code> error if the interval between the start and stop of the Adapter was too short. The fix corrected the situation that could cause the error.
4.4.1	1-773DHT	The Adapter for z/OS now recognizes end-of-file (EOF) on large file transfers with Block Mode ECM over Rendezvous.
4.4.1	1-7HOSIS	Periodic <code>Errno 61</code> errors now appear in the log if the Adapter automatically deletes or allocates progress ( <code>.PRG</code> ) files. This fix adds diagnostic data in the log so that you can correct <code>Errno 61</code> errors.
4.4.1	1-7HOSH4	Several performance enhancements are now in Block Mode ECM to enable the Adapter to process text files faster for the Subscriber.
4.4.1	1-81KZF5	The fix corrects problems in the RACF security feature.
4.4.1	1-810TQH	The status of the ECM confirmation to the Publisher is now always set to zero on the first try so that the Publisher does not resend the confirmation.
4.4.1	1-869RV1	In circumstances such as network crashes, the Subscriber can now resynchronize with the Publisher for Block Mode ECM if files of the same type are published back to back. That way, the Subscriber does not miss the first block transmission.
4.4.1	1-89Q5TJ	The Adapter now properly extracts information about a Virtual Storage Access Method (VSAM) cluster with multiple Direct Access Storage Devices (DASDs).
4.4.1	1-8LKP7Q	A retry capability in case of allocation errors during writes to a GDG is now in place.
4.4.0	1-6PHE9F	The heartbeat capability for the EMS Subscriber now functions properly.
4.4.0	1-6R8P3R	The Adapter now supports MODEL GDG definitions so that you can write to GDG with MODEL GDG DSCB.
4.4.0	1-6WQPDJ	No <code>OC4 Abends</code> errors occur any more for the Adapter if the record-field size exceeds 1 KB.



Closed in Release	Change Request ID	Summary
4.4.0	1-6XUGYN	<p>The fix ensures consistency between the Rendezvous data that was sent on <code>genFilePublishSubject</code> and the data sent by previous releases, hence a smooth go of the monitoring applications. The error message read as follows:</p> <pre>message={/'CHA1.WQM00.W84D0004(+1)'="W84D0004" NULL=421917827 =421917827}</pre>
4.4.0	1-6X6BIK	<p>The fix eliminates the following problems during an access of the VSAM file:</p> <ul style="list-style-type: none"> <li>The first record requested by the trigger did not always start on the first record as requested.</li> <li>The Adapter stopped one record before the last requested record. For example, if the request was for Keys 1 through 5, the Adapter returned records 1 through 4 only.</li> </ul>
4.4.0	1-6Y3U4T	<p>The fix eliminates the errors that occurred in the manner in which the Adapter handled EMS messages while sending both the normal data and the <code>END</code> message to the same destination. Specifically:</p> <ul style="list-style-type: none"> <li>The Adapter did not send <code>EndMsg</code> to the value configured for <code>endPublishDestination</code>.</li> <li>The race condition between the last data record and <code>EndMsg</code> signified EOF.</li> <li>The Adapter did not properly invoke EOF logic at the Subscriber.</li> </ul>
4.4.0	1-6Y3NZF	<p>The fix resolves several problems the Adapter encountered at the Subscriber while processing EMS records. Specifically:</p> <ul style="list-style-type: none"> <li>The trace files showed this error: <code>Error trying to get map field by name: Conversion failed.</code></li> <li>The Adapter did not properly invoke EOF logic.</li> </ul>
4.4.0	1-6ZDV01	<p>The Adapter now supports <code>OPAQUE</code> data transfer in record mode for EMS.</p>
4.4.0	1-74G6TL	<p>The Adapter now writes z/OS errors to <code>SYSLOG</code> if the <code>WRITE_TO_SYSLOG</code> parameter setting in the FilePublisher's configuration file is <code>true</code>.</p>
4.2.0	1-3CHVI5	<p>The Adapter can now publish a delimited records file in Record Mode ECM.</p>

Closed in Release	Change Request ID	Summary
4.2.0	1-3D5WUX	Record Mode ECM now processes multiple trigger messages.
4.2.0	1-3G84G9	The fix eliminates the following error message shown at Subscriber startup:  Subscriber allows only 32 file types
4.2.0	1-426U46	The fix corrects the logic error in the <code>keepTrailingBlanks</code> configuration parameter for <code>RECORD</code> mode.
4.2.0	1-42674E	The Publisher now publishes sequential variable block files in binary mode.
4.2.0	1-4BE1C9	The Publisher now publishes the <code>startPublishSubject</code> message.
4.2.0	1-4H9J5H	The Publisher now sends a <code>fileTransferEnd</code> EEM event for Record Mode transfer.
4.2.0	1-4H9J60	The Publisher now publishes GDG variable-block files in binary mode.
4.2.0	1-4PJWID	The Record Mode ECM no longer republishes empty records on restart.
4.2.0	1-4PJWIT	Postprocess now succeeds for the Subscriber, that is, on Subscriber restart, the Adapter passes <code>UserId</code> to the <code>executeAfterProcess</code> JCL.
4.2.0	1-4WMI0Q	The Adapter failed to set the <code>HOST</code> and <code>NETWORK</code> code pages. The fix links the Adapter with the Rendezvous 7.3 patch to support the UTF-8 code page.
4.2.0	1-52UM23	The 3.2.x releases restricted the location of the <code>HOST_CODEPAGE</code> and <code>NETWORK_CODEPAGE</code> configuration elements, that is, they were placed ahead of the <code>RV_SESSION</code> and <code>RVCN_SESSION</code> parameters in the configuration file's <code>OPTIONS</code> section. The fix removes that restriction and you can now place those parameters anywhere under <code>OPTIONS</code> .
4.2.0	1-52YTJH	During Record Mode recovery, the Adapter now retains the progress file and deletes the work file.
4.1.0	1-1SSRVB	<code>BINARY.COMP</code> , and <code>COMP-4</code> type configuration files now apply the decimal position and scale in the Publisher.
4.1.0	1-1WRFID	The fix eliminates confusion in the log message for Catalog Services Interface (CSI) lookup.

Closed in Release	Change Request ID	Summary
4.1.0	1-1WY366	The Subscriber does not truncate the last four digits in packed fields any more.
4.1.0	1-1Y8TQG	The fix ensures consistency in the number of retries in the log.
4.1.0	1-1YW6S6	The Publisher no longer goes into a loop while awaiting an EOF message in SFT ECM block mode.
4.1.0	1-1YW6SQ	The Subscriber status message now shows the name of the received file instead of that of the working file.
4.1.0	1-1YW6T5	If the Subscriber cannot write to the output file because of a security issue, the log message no longer indicates a problem with an <code>OPEN</code> flag.
4.1.0	1-1Z140P	The <code>removeAfterProcess</code> parameter now works properly when security is turned off.
4.1.0	1-21ZDSK	The fix resets the <code>NoOfJobs</code> counter parameter.
4.1.0	1-237HAH	The fix eliminates a memory growth issue with the Subscriber in SFT ECM block mode.
4.1.0	1-27D1UZ	The Adapter can now publish messages when configured with nested schema structures in Record Mode ECM.

# Known Issues

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The following table describes a known issue, which applies to both the IBM i and z/OS platforms.

Change Request ID	Description
1-91WKZJ	<p><b>Summary</b> You cannot publish a binary VB data set with Rendezvous as the transport and the <code>BlockModeECM</code> transfer type.</p> <p><b>Workaround</b> None at this time.</p>

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