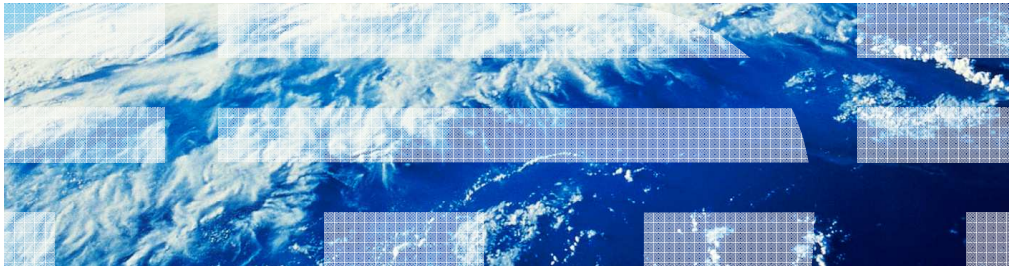


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# WebSphere DataPower Release 3.8.1 Enhanced support for TIBCO Rendezvous

## XM



WebSphere DataPower Release 3.8.1  
Enhanced support for TIBCO Rendezvous

## Agenda

- Re-cap of TIBCO Rendezvous in 3.8.0
- What's new for 3.8.1
  - TIBCO Rendezvous Certified Messaging Ledger File Viewer
  - TIBCO Rendezvous Certified Messaging Remove Listener Action

Support for TIBCO Rendezvous as messaging protocol was provided in firmware release 3.8.0 as a licensed feature on the Datapower XM70 appliance.

For 3.8.1, two new features enhance the TIBCO Rendezvous messaging protocol support. More specifically, these two new features focus on enhancing the Certified Message Delivery functionality of the TIBCO Rendezvous messaging protocol.

## Re-cap of TIBCO Rendezvous in 3.8.0

- 3.8.0 introduced TIBCO Rendezvous support
  
- DataPower XM70 supports:
  - Sending TIBCO Rendezvous messages by way of 'TIBCO RV Route' object
  - Receiving TIBCO Rendezvous messages via 'TIBCO RV Policy' object
  - TIBCO Rendezvous Certified Message Delivery via both 'Route' and 'Policy' objects
    - Ledger files stored in memory or on RAID array
  - Bridging of protocols (For example, TIBCO Rendezvous, TIBCO EMS, LLM, and MQ) via MPGW

The TIBCO Rendezvous messaging protocol support allows for sending and receiving of TIBCO Rendezvous messages. As is typical with the Datapower appliances, the Multi-Protocol Gateway can bridge the TIBCO Rendezvous messaging protocol to other messaging protocols. Two different modes of the TIBCO Rendezvous messaging protocol are supported: “reliable” and “certified messaging”. “Certified messaging” provides for a higher level of message delivery guarantee than does the “reliable” protocol. In order to provide this guarantee, information about transmitted and received messages is stored in ledger “files”. These files can be stored in memory, or in the on-board RAID array.

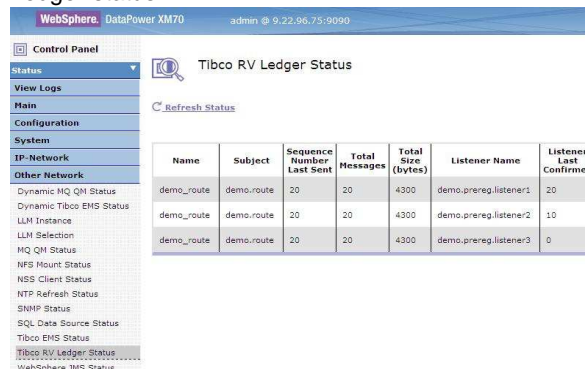
## What's new for 3.8.1

Why the need for a TIBCO Rendezvous Ledger File Viewer?

- Ledger file stored in TIBCO proprietary format
  - Viewing in text editor is not helpful
- Ledger file can grow unbounded
  - How big are its contents?
  - Who/what is causing it to grow?

Accessible using CLI

- `trv-route-cmledger-status`



Name	Subject	Sequence Number Last Sent	Total Messages	Total Size (bytes)	Listener Name	Listener Last Confirmed
demo_route	demo_route	20	20	4300	demo.prereg.listener1	20
demo_route	demo_route	20	20	4300	demo.prereg.listener2	10
demo_route	demo_route	20	20	4300	demo.prereg.listener3	0

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The certified messaging ledger “files” used to provide the message delivery guarantee contain useful information. Unfortunately, these files are encoded in a binary, TIBCO proprietary format. So extracting this useful information is not as simple as using a text editor. Another issue with the ledger files is they can grow unbounded, thereby consuming precious system resources (for example, memory and disk space). It is important to monitor these files to make sure they do not grow enough to inhibit the appliance's ability to function.

Therefore, the TIBCO Rendezvous Ledger File Viewer, available as a Datapower status provider, exposes this useful information. The information available from the ledger file viewer is the TIBCO RV Route's name, the TIBCO RV Route's subject, the sequence number of the message last sent, the total number of messages stored in the ledger file, the total size in bytes of all messages stored in the ledger file, the certified messaging listener's name, and finally, the sequence number of the last message the certified messaging listener acknowledged receipt of.

Using this information, one can determine which certified messaging listener or listeners are causing the ledger file to grow.

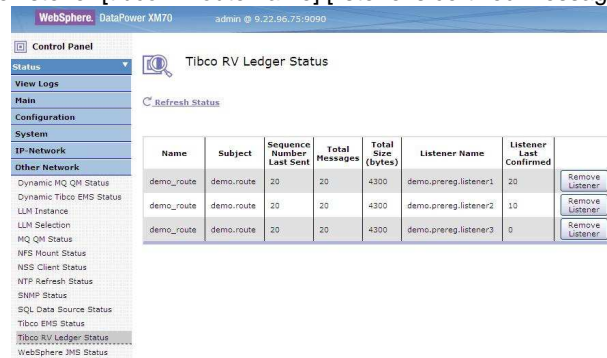
## What's new for 3.8.1

Why the need for a TIBCO Rendezvous Remove Listener Action?

- Need to look back at a few reasons for the TIBCO Rendezvous Ledger File Viewer
  - Ledger file can grow unbounded
    - Who/what is causing it to grow?
- Now it is possible to see who/what is wrong (thanks to the Ledger File Viewer), there is the need for the ability to do something about it (hence the Remove Listener Action)

Accessible using CLI

- `trv-route-remove-listener [tibco rv route name] [listener's certified message delivery name] [subject]`



Name	Subject	Sequence Number Last Sent	Total Messages	Total Size (bytes)	Listener Name	Listener Last Confirmed	
demo_route	demo.route	20	20	4300	demo.prenreg.listener1	20	Remove Listener
demo_route	demo.route	20	20	4300	demo.prenreg.listener2	10	Remove Listener
demo_route	demo.route	20	20	4300	demo.prenreg.listener3	0	Remove Listener

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Once an administrator determines which certified messaging listener or listeners are causing the ledger file to grow, there is a natural want to do something about the growth. Therefore, a Remove Listener action was added to the TIBCO Rendezvous Ledger File Viewer. This action will break the Certified Message Delivery Agreement between the specified certified messaging listener and the specified TIBCO RV Route. Any messages being stored in the ledger file explicitly for the specified listener is removed from the ledger file. Thus, system resources can be reclaimed.



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