

View/Alter the Maximum Sessions property in a Listener Port in WAS

IBM Techdoc: 7023471

<http://www.ibm.com/support/docview.wss?uid=swg27023471>

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+++ Objective

The objective of this technical document is to describe in detail how to view and configure the Maximum Sessions property (and similar parameters: Maximum retries and Maximum messages) for a Listener Port in WebSphere Application Server.

Some screens from the WAS Administrative Console for V6, V7 and V8 look the same, but others have differences. This document will make a note of the differences.

This techdoc provides supplementary material that can be used when performing some recommendations from WebSphere MQ Support. Under some situations, MQ Support has provide the recommendation to find out the value of the "Maximum Connections" attribute in the JMS connection pooling for a connection factory, which can be assigned to Maximum Sessions property for a Listener Port. The task to find out the value for "Maximum Connections" is described in the following techdoc:

<http://www.ibm.com/support/docview.wss?uid=swg27023234>

View/alter Aged Timeout and Maximum Connections in the Connection Pool for an MQ JMS Connection Factory in WAS

The usual condition is when the following error message is seeing in the SystemOut.log:

```
WMSG0056W: MDB Listener Port LP1 maximum sessions size of 100  
is greater than its JMS Connection Factory jms/CF1  
Session Pool size of 10, setting maximum sessions to 10
```

+++ Summary:

1) Using the WAS Administrative Console navigate as follows:

WAS V6:

Servers ->

Application servers ->

serverName ->

Communications ->

Messaging ->

Message Listener Service ->

Listener Ports

WAS V7 and V8:

Servers ->

Server Types ->

WebSphere application servers ->

serverName ->

Communications ->

Messaging ->

Message Listener Service ->

Listener Ports

2) Select the desired Listener Port and modify the Maximum Sessions property.

3) Save to Master configuration.

4) Restart the server

The rest of this note provides the details for the procedure.

+ Start the WAS Administrative Console

WAS version: V6

Select: Servers -> Application servers -> serverName ->

Integrated Solutions Console - Welcome

View: All tasks

- Welcome
- Guided Activities
- Servers**
 - Application servers**
 - Web servers
 - WebSphere MQ servers
- Applications
- Resources
- Security
- Environment
- System administration
- Users and Groups
- Monitoring and Tuning
- Troubleshooting
- Service integration
- UDDI

Application servers

Application servers

Use this page to view a list of the application of each of these servers. You can also use the application server.

Preferences

Name	Node
server1	aemtux2Node0
Total 1	

WAS versions: V7 and V8

Select: Servers -> Server Types -> WebSphere application servers -> serverName ->

The screenshot shows the WebSphere software interface. On the left is a navigation tree with the following items: Welcome, Guided Activities, Servers, Server Types, WebSphere application servers, WebSphere MQ servers, Web servers, Applications, Services, Resources, Security, and Environment. The 'Servers' and 'Server Types' items are highlighted with pink boxes. The 'WebSphere application servers' item is also highlighted with a pink box. The main content area on the right is titled 'Application servers' and contains the following text: 'Application servers', 'Use this page to view a list of the application servers in your environment and servers. You can also use this page to change the status of a specific applicati', and 'Preferences'. Below this text is a table with three columns: Name, Node, and Host Name. The table contains one row with the value 'server1' in the Name column, 'ANGELITONode01' in the Node column, and 'ANGELITO.raleigh.ibm.com' in the Host Name column. A 'Total 1' row is also present at the bottom of the table.

WebSphere. software

View: All tasks

Cell=ANGELITONode01Cell, Profile=AppSrv01

Application servers

Application servers

Use this page to view a list of the application servers in your environment and servers. You can also use this page to change the status of a specific applicati

Preferences

Name	Node	Host Name
server1	ANGELITONode01	ANGELITO.raleigh.ibm.com
Total 1		

WAS versions: All (V6, V7 and V8)

Select: Communications -> Messaging

Application servers > **server1**

Use this page to configure an application server. An application server is a server that provides services required to run enterprise applications.

Runtime | **Configuration**

General Properties

Name:

Node Name:

Run in development mode

Parallel start

Access to internal server classes: ▼

Server-specific Application Settings

ClassLoader policy: ▼

Class loading mode: ▼

Container Settings

- [Session management](#)
- ⊕ SIP Container Settings
- ⊕ Web Container Settings
- ⊕ Portlet Container Settings
- ⊕ EJB Container Settings
- ⊕ Container Services
- ⊕ Business Process Services

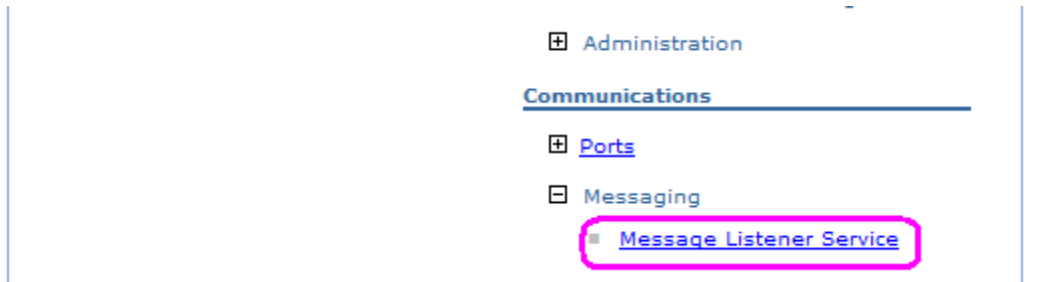
Applications

- [Installed applications](#)

Server messaging

- [Messaging engines](#)
- [Messaging engine inbound transports](#)
- [WebSphere MQ link inbound transports](#)
- [SIB service](#)

You will see a new section that is expanded:
Message Listener Service
Select it.



Then select: Listener Ports



Select the desired Listener Port.

For this example, the following one is selected: SampleMDBQueueLP





Application servers

Application servers > server1 > Message listener service > Listener Ports

Use this page to configure listener ports upon which message-driven beans listen for messages. Each port specifies the connection factory and JMS destination that a message-driven bean, deployed against that port, listens upon.

⊕ Preferences

Convert to activation specification New Delete Start Stop

Select	Name	Description	Connection factory JNDI name	Destination JNDI name	Stat
You can administer the following resources:					
<input type="checkbox"/>	SampleMDBQueueLP		jms/SampleMDBConnectionFactory	jms/SampleMDBQueue	➔
<input type="checkbox"/>	SampleMDBTopicLP		jms/SampleMDBConnectionFactory	jms/SampleMDBTopic	✖
Total 2					

You will see the General Properties for the Listener Port.
The "Maximum sessions" is highlighted below:

[Application servers](#) > [server1](#) > [Message listener service](#) > [Listener Ports](#) > [SampleMDBQueueLP](#)

Use this page to configure listener ports upon which message-driven beans listen for messages. Each port specifies the JMS connection factory and JMS destination that a message-driven bean, deployed against that port, listens upon.

Configuration

General Properties

* Name

* Initial State
 ▼

Description

* Connection factory JNDI name

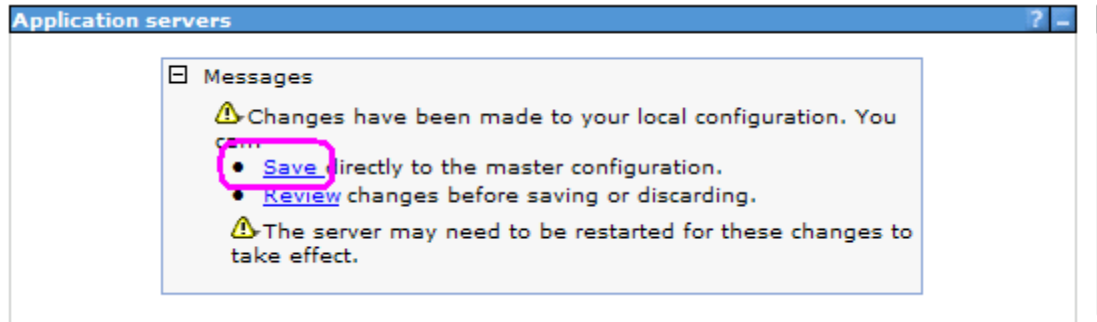
* Destination JNDI name

Maximum sessions

Maximum retries

Maximum messages

If you modify the property, then you will need to click OK.



Click Save to save the master configuration.

You need to restart the WAS server.

+++ end +++