

WebSphere DataPower Release 7.0.0.0

SFTP support for XG45



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WebSphere DataPower Release 7.0.0.0 - SFTP support for XG45

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This presentation will cover the addition of SFTP to the XG45 platform in the WebSphere® DataPower® 7.0.0.0 firmware release as well as what parts of the DataPower user experience this affects.

Section

Behavior changes

First we will look at what these behavior changes are for the XG45 platform.

Behavior changes

- Previous behavior
 - SFTP features were limited to the XI50 and XB60 platforms consequently, those features were unavailable on the XS40, XG45, and XM70.
- New behavior
 - SFTP features are now available and supported on the XG45 platform.
- Why it is important
 - SFTP support on XG45 was a customer requested feature and since, as of 7.0.0, we are no longer building for platforms other than XI, XG, and XB, this means that config objects using SFTP are now portable between all available firmware platforms.

Prior to firmware version 7.0.0.0, SFTP features were restricted to the XI50 and XB60 platforms and were therefore unavailable on the XS40, XG45, and XM70.

As of 7.0.0.0, SFTP features have been enabled on the XG45 platform. Additionally, as 7.0 firmware is only applicable to the XI, XG, and XB platforms, there are no longer any platforms which will not support SFTP.

Section

Externals affected

Next we will examine what externals were affected by this change.

Externals affected

- SFTP policies are now available in HTTP user agents
- SFTP profile usage in SSH client profiles and related config objects:
 - User Authentication (public key and password)
 - User password
 - Persistent connections
 - Persistent connection idle timeout
 - Strict host key checking
- SFTP file poller front side handler and status provider
- SFTP server front side handler and status provider
- SFTP URL opener

The objects enabled by this change were:

- SFTP Policies for use in HTTP User Agents
- SFTP Profile usage in SSH Client Policies

-This includes all SSH Client Policy objects related specifically to SFTP profile usage.

These objects are: User Authentication, User Password, Persistent Connections, Persistent Connection Idle Timeout, and Strict HostKey Checking.

- SFTP File Poller Front Side Handlers and corresponding status provider
- SFTP Server Front Side Handlers and corresponding status provider
- SFTP URL Opener

Externals affected

- HTTP user agent → SFTP client policies

 Configure User Agent

Policy Restrict to HTTP 1.0 Policy Inject Header Policy Chunked Uploads Policy FTP Client Policies **SFTP Client Policies**

User Agent: default [up]

[Apply](#) [Cancel](#) [Undo](#) [Export](#) | [View Log](#) | [View Status](#) | [Help](#)

SFTP Client Policies

URL Matching Expression	SSH client profile	Use unique file names
(empty)		

[Add](#)

Here we have a view from the WebGUI showing the availability of SFTP Client Policies under the HTTP User Agent Object

Externals affected

- HTTP user agent →
SFTP client policies →
SSH client profile

WebSphere DataPower XG45

Edit SFTP Client Policies

URL Matching Expression:

SSH client profile: **SSH-1**

Use unique file names: ☒ on ☐ off

Configure SSH Client Profile

Main

SSH Client Profile: SSH-1 [up]

[Export](#) | [View Log](#) | [View Status](#) | [Help](#)
[Add SSH Known Host](#)

Administrative state: ☒ enabled ☐ disabled

Comments:

User name:

Profile Usage: **SFTP** ▼

User Authentication

☒ Public Key
☒ Password

User Private Key:

Password

Persistent Connections: ☒ on ☐ off

Persistent Connection Idle Timeout: seconds

Strict Host Key Checking: ☐ on ☒ off

Next we have a view from the WebGUI showing the availability of the SSH Client Profile object

Externals affected

- SFTP file poller front side handler

The screenshot displays the WebSphere DataPower XG45 WebGUI interface. The top header shows 'WebSphere DataPower XG45' and the user 'admin' with IP '9.37.130.206:8080'. The left sidebar contains a 'Control Panel' and a 'Blueprint Console' with a search bar. Under the search bar, 'sftp' is entered, and a list shows 'SFTP Poller Front Side Handler' and 'SFTP Server Front Side Handler'. A red arrow points from this list to the main content area. The main content area is titled 'Configure SFTP Poller Front Side Handler' and features a 'Main' tab. Below the tab are 'Apply' and 'Cancel' buttons. The configuration fields include: 'Name' (text box), 'Administrative state' (radio buttons for 'enabled' and 'disabled'), 'Comments' (text box), 'Target Directory' (text box), 'Delay Between Polls' (text box with '60000' and 'milliseconds' unit), 'Input File Match Pattern' (text box), and 'Processing File Renaming Pattern' (text box).

Here we have an image showing the SFTP File Poller Front Side Handler object from the WebGUI

Externals affected

- SFTP server front side handler

The screenshot displays the IBM WebSphere DataPower XG45 WebGUI interface. The top header shows 'WebSphere. DataPower XG45' and the user 'admin @ 9.37.130.206:8080'. On the left, the 'Control Panel' and 'Blueprint Console' are visible. The 'sftp' search filter is applied, showing 'SFTP Poller Front Side Handler' and 'SFTP Server Front Side Handler'. A red arrow points from the 'SFTP Server Front Side Handler' link to the 'Main' tab of the configuration page. The 'Main' tab is selected, showing the 'SFTP Server Front Side Handler' configuration. The 'Administrative state' is set to 'enabled'. The 'Local IP Address' is '0.0.0.0' and the 'Port Number' is '22'. The 'Access Control List' is set to '(none)'. The 'Name' field is empty. The 'Apply' and 'Cancel' buttons are visible.

And finally, this is an image of the SFTP Server Front Side Handler object from the WebGUI.

Section

Externals unaffected

Now we will cover the externals that were not affected by these changes.

Externals unaffected

- SFTP as a copy target was previously available and has not been affected
- SFTP as a log target was previously available with the exception of an issue introduced in 6.0.0.0 that was fixed in 6.0.0.5 and 6.0.1.1 (See APAR IC98456)

Prior to these changes (DP 7.0), SFTP could be used as a copy target on the XG45. This was intended behavior and has remained the same.

An SFTP Log Target was also previously available. This was intended behavior and has remained the same. There was, however, an issue introduced in DP version 6.0.0.0 which caused SFTP log target uploads to consistently fail. This was fixed in version 6.0.0.5 and 6.0.1.1 for more information, see APAR IC98456.

Externals unaffected

- SFTP as a copy target

```
xg45(config)# copy sftp://wdwhitt@9.42.102.115//home/wdwhitt/dpinfo.xml temporary://dpinfo.xml
Password: *****
File copy success
xg45(config)#
```

This is an image of SFTP being used as a copy target from the CLI.

Externals unaffected

■ SFTP as a log target

The screenshot displays the IBM DataPower WebGUI interface for configuring logging. On the left, a navigation tree shows 'Logging Configuration' expanded, with 'Log Target' selected. Below the tree, version and copyright information are visible. The main panel is divided into two sections: 'Logging Configuration' and 'Destination Configuration'. In the 'Logging Configuration' section, 'Log Format' is set to 'XML', 'Timestamp Format' to 'syslog', and both 'Fixed Format' and 'Identical Event Detection' are set to 'off'. The 'Destination Configuration' section contains fields for 'File Name' (logtemp://test.log), 'Remote Host' (dpautosrv8.dp.rtp.raleigh.ibm.com), 'Remote Port' (22), 'Remote Login' (sftpuser), 'Remote Password' (masked with asterisks), and 'Remote Directory' (general_purpose_test/logs). A red box highlights the 'Remote Host', 'Remote Port', 'Remote Login', 'Remote Password', and 'Remote Directory' fields. Below this, the 'Archival' section shows 'Log Size' (500 kilobytes), 'Archive Mode' (Upload), and 'Upload Protocol' (SFTP), with the 'SFTP' dropdown also highlighted by a red box.

Logging Configuration

- Log Category
- Log Target
- System Settings
- z/OS Configurations
- Secure Cloud Connector

Log Format: XML

Timestamp Format: syslog

Fixed Format: on off

Feedback Detection: on off

Identical Event Detection: on off

Destination Configuration

File Name: logtemp://test.log

Remote Host: dpautosrv8.dp.rtp.raleigh.ibm.com Ping Remote

Remote Port: 22

Remote Login: sftpuser

Remote Password: *****

Remote Directory: general_purpose_test/logs

Archival

Log Size: 500 kilobytes

Archive Mode: Upload

Upload Protocol: SFTP

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This is an image from the WebGUI of SFTP being used as a Log Target.

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