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# **H801 Bulk File Transfer (BFX™) for Linux® Systems**

**Release 3.4.2**

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**Memo to Users**

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MTU-H801-3.4.2



# Introduction

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This product implements the Network Executive Software (“NESi”) H801 Bulk File Transfer (BFX™) utility for Linux distributions. Refer to this platform’s Support Table on the [www.netex.com](http://www.netex.com) support website for an updated list of supported operating systems.

This document should be reviewed carefully prior to installation of H801.

For NetEx/IP and associated products, support is available via:

- 24x7 telephone at (800) 854-0359
- <http://www.netex.com/support>
- email: [support@netex.com](mailto:support@netex.com)

## Product Documentation

Additional information about this BFX software may be found in the following:

- *BFX for Unix Systems Release 3.4 Software Reference Manual*

The latest revision of this “Memo To Users” document and any other relevant reference documentation can be found at <http://www.netex.com> by going to the Support dropdown and selecting Products and then selecting the appropriate platform.

## Notice to the Customer

Comments about this documentation may be submitted via e-mail to [support@netex.com](mailto:support@netex.com) or by visiting our website, <http://www.netex.com>. Always include the complete title of the document with your comments.

Information on Network Executive Software’s general software support policy (e.g., alternate contact methods, support severity level descriptions, and service status definitions) may be found at <http://www.netex.com/support>.

## Software Modification Policy

Modifications to H801 that are not specifically authorized by NESi are prohibited.

Any unauthorized modifications to H801 may affect its operation and/or obstruct NESi’s ability to diagnose problems and provide corrections. Any work resulting from unauthorized modifications shall be paid by the customer at NESi’s then-current support rates and may result in the immediate termination of warranty/support coverage.

# Document Revision Record

Document Publication Date	Summary of Changes
<b>January 27, 2009</b>	<ul style="list-style-type: none"><li>• Added “Document Revision Record” table.</li><li>• Updated copyright year on cover.</li><li>• Corrected purpose of “/var/opt/bfx” directory (for BFXJS log files).</li><li>• Added entry indicating that “/tmp” is the location for remote BFX job files.</li></ul>
<b>June 2013</b>	<ul style="list-style-type: none"><li>• Support for Release 3.4.1</li></ul>
<b>July 31, 2015</b>	<ul style="list-style-type: none"><li>• Support for Release 3.4.2</li></ul>

# Service Notes

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The following notes or restrictions apply for the current release of BFX and may or may not exist in future releases.

1. Following a successful login, BFX log files are created in the login user's home directory with the name "JOBxxxxxxxlog" where "JOBxxxxxxx" corresponds to the JOBFIL name. No log file is created if a user fails for any reason to get properly logged in (e.g. bad password, bad job file format, etc.). In the case of a failed login attempt, the BFXJS log file will contain a message describing the reason for failure. The BFXJS log file is the only place failed login messages are logged.
2. Shell scripts named 'bfxsend' and 'bfxrecv' have been provided in /usr/share/nesi/bfx/bin as a BFX wildcard send/receive model. Ideally you can type 'bfxsend' or 'bfxrecv', answer the prompts, and transfer the given files to or from a remote host. Some sample remote hosts you might interact with are included in the scripts. Review the scripts and make your own site modifications.



# Installation Notes

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Refer to the general *BFX Unix User Manual* for installation instructions.





# Update Summary

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## Release 3.4.2

<u>Ticket</u>	<u>Description</u>
5917	Removing signal(SIGCHLD, SIG_IGN); for the -l problem causes zombies in Linux
6520	BFXTR doesn't appear to retry when "NETEX systemwide capacity exceeded"
6538	BFX not handling 3404 error properly
6766	Prompt for secure or nosecure in BFXTEST
6765	BFXSEND and BFXRECV z/OS portions needs NETEX subsystem name support (NTXID)
6779	Improper COPYRIGHT Statement
6787	Denial of service: BFX jobs not run while BFX command port is busy
6792	TR output missing message BFX101 message from remote side (records sent)
6797	BFXTI/BFXTR default host fails
6802	Error in return codes ABRTD flag not initialized
6807	Bad Connect data connecting to H301 on Unisys
6812	Clean up job file if program is aborted

## Release 3.4.1

<u>Ticket</u>	<u>Description</u>
Misc	BFX is now distributed with secure jobfile transfer support
1992	EOF is now recognized in input stream?
2684	BFXTEST doesn't require root authority to run
2864	Cleanup the test scripts
2866	Increase the cmd line limit to 240
3158	No Segmentation Fault when bfxsend is given a directory name
4948	BFX works for NIS users

- 4954 BFXINPUT file is now documented
- 4956 RMAXL has better clarification of its use
- 4974 Reduce the messages on "normal" runs
- 5574 BFX 3.4 has new dir locations and is distributed in a GPG signed RPM package
- 5620 Add support for custom defaults to be set in all the components
- 5626 bfxjs now appends to its log

## Release 3.3-0

- **[4944]:** BFX for Linux no longer requires a license key to function. However, a license contract/fee is still required to use the product.
- **[2865]:** The date has been added to the timestamps in the log files and messages.
- **[2867]:** Syslog and nosyslog have been added to the login options.
- **[4941]:** Correct duplicate close of the file when receiving an abort causing a core dump in SLES 10 SP4.

## Release 3.2-6

- **[1906]:** A new RPARM parameter has been added to allow the user to tailor how carriage returns (CR) and line feeds (LF) are handled on the receiving side of a file transfer. BFX's default behavior is to ignore a (CR) (if present) at the end of the received record and terminate it with an (LF). This means that if a (CR) is present, the (CR) will be written to the file, and since the record will be terminated with a (LF), the record will effectively be terminated with a (CR)(LF). If a (CR) is not present, the record will be written to the file, and terminated with an (LF). This parameter is valid only when Linux BFX (H801) is the receiver. It will be ignored on the transmitting side of the transfer.

The format of this parameter is as follows and must be specified in all lower-case or all upper-case characters:

```
RPARM [ NOCR | NOLF | NOCRLF ]
```

where:

- NOCR** This option will remove one carriage return (CR) from the end of the incoming record (if present) and terminate the record with a line feed (LF) character.
- NOLF** This option will ignore a carriage return (CR) at the end of the incoming record (if present). It will **not** terminate the record with a line feed (LF) character.
- NOCRLF** This option will remove one carriage return (CR) from the end of the incoming record (if present) and will **not** terminate the incoming record with a line feed (LF) character.

### Example 1:

```
receive from ahost id alpha file file-name mode char -
msglvl 0 timestamp rparm NOCR
```

This will strip one (CR) from the end of each incoming record, if it has one, and terminate the record with an (LF).

**Example 2:**

```
receive from ahost id alpha file file-name mode char -  
msglvl 0 timestamp rparm nolf
```

This will leave a (CR) intact, if present, and NOT terminate the record with an (LF).

- [2002]: A correction has also been made to prevent segmentation faults when the TZ environment variable is missing

**Release 3.2-5**

- Modified to install and run on both Red Hat and SUSE Linux distribution.
- 'bfxjobstart' in /opt/bfx/lib is no longer SUID. This means that bfxjs **must** be started by a user with root permissions.

**Release 3.2-4**

This is the base release of H801.