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**H305**  
**Extended Mode Secure Bulk File Transfer (BFX™)**  
**for Unisys OS2200 Systems**

**Release 1.3.8**

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**Memo to Users**  
September 1, 2021

# Introduction

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This memo provides supplementary and release-dependent information to users and documents any changes to the Software Reference Manual before a new revision is published.

It should be reviewed carefully prior to installation of the product.

This new release of H305 is a functionally equivalent product but is NOT compatible or interoperable to the current releases of H301/H301L, or H301e.

# Service Notes

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## New Features

This release is a maintenance release for a the secure BFX product (H305) on the Unisys platform.

This product which is functionally equivalent to H301/H301L/H301e, however, it is not compatible or interoperable with any non-secure NetEx products. This product requires H304 (Secure NetEx/IP) and will not interoperate with H300IPC/H300e.

Enhancements were made to the User modules.

Print file cycling support added.

For updates, refer to the Update Summary for details.

# Update Summary

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The following parameters have changed from usage in H301/H301L releases as noted:

<b>Command</b>	<b>Default</b>	<b>Used By</b>
BMOD		<i>Unsupported – IGNORED</i>
BPARM		<i>Unsupported – IGNORED</i>
CHKSUM		<i>Unsupported – ERROR</i>
CLOSE		<i>Deprecated – IGNORED</i>
HOBOPT		<i>Unsupported – ERROR</i>
JFILE		<i>Unsupported – ERROR</i>
JFLAG		<i>Unsupported – ERROR</i>
KEYVAL		<i>Unsupported – ERROR</i>
NOCLOSE		<i>Deprecated – IGNORED</i>
NOCR		<i>Silently ignored</i>
NOCRLF		<i>Silently ignored</i>
NOLF		<i>Silently ignored</i>
RATE		<i>Deprecated – IGNORED</i>
RESTORE		<i>Unsupported – ERROR</i>
RPARM	(blanks)	<i>Silently ignored</i>
SENDJB		<i>Unsupported – ERROR</i>
TIMEFL		<i>Unsupported – ERROR</i>
USE_NAME		<i>Unsupported – ERROR</i>

## Release 1.3.8 Updates

- 8827 SENDER abort for multi-reel file (swap NLTAPE)
- 8848 MODE=OCTET aborts multi-reel transfer
- 8849 block module ignores fatal messages from remote All platform common code fix
- 8856 BFX944, BFX945 do not follow message rules
- 8869 Add printfile cycling to SECBFXJS
- 8954 Mode OCTET not swapping inbound reels
- 8955 cosmetic - TSB695I unexpected space
- 8960 Implement CREOV
- 8972 SENDER/RECV and multi-file tapes (8956/8958)
- 8973 BigBlk record counts differ and incorrect when sending multiple files for 8959
- 8975 "forward spacing file" message
- 8976 BIGBLK SPERRY mode aborts multi-reel transfer (8957)
- 8983 Mode RBM ASCII single reel with EOVS under LETLABEL error
- 8994 BFX923 message has space before . at end of message
- 8996 octet multi-volume record count mismatch when sending EOVS
- 9012 bigblk TSB708F when 72768 records written cfmt
- 9015 BIGBLK RMAXL inconsistency
- 9016 How to handle swaps when no second tape is specified
- 9032 Support graceful stop of SNETEX and SBFXJS and other commands
- 9047 BFXOCT output tape contains incorrect volser in VOL1 (from input tape not output tape)
- 9062 BFX061 and BFX062 should be issued before SCONN
- 9065 sender fails compare when transferring 81 character records
- 9067 octet writes second multi-volume VOL1 name in EBCDIC
- 9077 testboct not swapping
- 9087 combine fcitest and write tape.
- 9100 Sender/receiver does not change receive tape volser in CFMT
- 9108 bigblk using swap=x swaps every x records. Expect only one swap
- 9115 Discrepancy with the reported record count between H301 and H305
- 9122 RBM not auto-activated when input is tape testsfsr
- 9131 test012s test033r
- 9132 test015s test035r from sec 2
- 9136 octet NL tape loss of position messages
- 9153 Extra label records are received by H215 when using H305-1.3.8
- 9155 BFXOCT not updating vol1 record
- 9156 change TSB716 to TSB606
- 9164 Sendr messages incorrect

- 9165 test051s record counts, tape messages for disk transfer
- 9166 TESTAEOV Reel mounting on swaps
- 9167 Clean up record counts around swaps
- 9168 SENDER TSB605 should not be printed
- 9169 TSB606 msg missing - change expand to REPORTLCL
- 9180 RBM reports 2 files sent, receiver reports one file received. TSB601/602 record mismatch
- 9181 BFXRBM printf message
- 9182 RBM TSB605, TSB606 record mismatch
- 9184 BIGBLK problems
- 9186 trackio BFX911 reports additional record from BFX101
- 9187 BFXrbm incomplete code
- 9190 BIGBLK H305 swaps receive tapes when source tape is swapped, H301L does not
- 9191 BIGBLK H305 TSB601 message has records since swap, H301L has total records.
- 9193 SENDRCV TSB605 has swapped-to tape, H301L is swapped-from
- 9194 BFXOCT TSB601/TSB602 different record counts for data transfer
- 9196 BFXRBM zero length record files
- 9197 BIGBLK sender file counts are cumulative, receiver is per file. H301L is per file
- 9198 RBM DSLAB=1 causes send abort reading tape
- 9200 BIGBLK TSB601/TSB602 record count mismatch
- 9201 RBM TRACKIO BFXTI reports BFX911, BFXTR does not
- 9202 BIGBLK extra TSB601 message
- 9203 RBM multi-volume with DSEOV - H301L reports TSB696, H305 reports TSB605
- 9205 RBM BFXTR reports BFX911 for second file only, H301L does not report BFX911
- 9208 Fix label compares in BFXOCT and BFXRBM
- 9209 BIGBLK TSB605 reports zero blocks sent at swap
- 9212 Fix fwrite error checking in WriteData
- 9215 Some BFXJS messages do not follow log rules

## **Release 1.3.7 Updates**

- 8805 rbm fails compare on 86 character records
- 8824 DECODE EXIT and TLBL messages during tape transfer
- 8825 Missing 220I and 101I messages for 2nd file
- 8826 BFXRBM send and receive record counts differ
- 8830 SPERRY mode aborts multi-reel transfer
- 8832 RBM mode extra end of file messages and lost last byte
- 8836 H305 Messages differ from H301

8848 MODE=OCTET aborts multi-reel transfer  
8849 block module ignores fatal messages from remote All platform common code fix  
8851 HOBCEK warnings using H305 that do not appear with H301  
8853 I/O error, RC=19043 when sending a MODE=BIT tape  
8854 BFX901F Bit-string record size must be a sector multiple  
8857 typo in BFX945 message  
8866 TSB606 message in H301L changed to TSB607 in H305  
8893 Retry Netex 3390 error for conntime (prevent denial of service)  
8896 many GOING MULTIREEL messages seen in octet transfer  
8915 H305 RBM last character mismatch

## Release 1.3.6 Updates

8809 "File specified is not on tape" message when sending a disk file  
8812 Accept validation errors in eof labels  
8814 Check if room in network block using the larger of rparm->resize or rmaxl to avoid NRB-STAT=3005 when using MODE=OCTET  
8818 bigblock sender/receiver report RMAXL in different formats

## Release 1.3.5 Updates

8755 BFX121S after the file is sent  
8766 Tape compare fails due to different size records  
8778 bfxrbm, bfxoct, bigblk, and sendrcv prints a authorization for labels tsb612 tsb613 tsb614  
8806 TSB721 produced in error

## Release 1.3.4 Updates

8403 TSB602I Missing Tape Serial Number  
8719 RBM character mode transfers stall with multi-volume tape  
8734 verify-test uses secure data when non-secure is selected  
8736 Enhance processing of record headers  
8747 "END OF BFXxx EXECUTION" message not output as expected  
8752 MODE=OCTET unexpected messages  
8757 29009 error is encountered at end of file Missing error message rlen>rxmal  
8758 sendrec transfers 1 file when sl tape, not authozized for labels

8762 bigblk does not use RMAXL if defined – Works differently than H301L

## Release 1.3.3 Updates

8718 BFX210S & TSB719E, cannot open JOBFIL and format-A tape needed

8729 HOBCEK warnings using H305 that do not appear with H301

## Release 1.3.2 Updates

8678 Duplicate comapi use statement in links

8681 bfxoct sending partial blocks

8689 Secure BFX SENDER/RECV and multi-file tapes

8671 Unisys userid can be up to 13 including null. Connect has an 8 character limit

## Release 1.3.1 Updates

8426 MODE=OCTET Input Reel Positioning error

8427 Unable to terminate BFXTI on bad IP address

8575 Secure mode initial performance improvements

8608 BFX OCTET transfer need to validate the reblocking of records.

8613 USSENDER USRECV errors in user mods

8633 H305 missing RTLVL in edit TCPCFG sections

8668 BFXJS attempts to open a file already opened

## Release 1.3 Updates

8234 JSAUTH failure when H624 submitting job

8303 SET RMAXL DEFAULT for TRACKIO

8356 JOBFil does not need to cycle

8403 TSB602I Missing Tape Serial Number

8404 BFX realtime support for ,f on execute option -Unisys

8406 Data counts differ from H301

8462 User request for a BFXJS term command

8467 mode = ascii invalid

8469 Need to terminate bfxjs on nrb=3911 error loading ctable

8490 Move databuffers to program memory, messages still in activity buffers

8498 Dash not allowed as token

8509 Data truncated without error when RMAXL is smaller than record size



- 8522 Dynamically Modify Remote Host
- 8523 Manual has a typo for the description of the SECHOST and NOSECHOST
- 8544 BFX message values truncate at ‘%’

## Release 1.2 Updates

- 8044 SNX log level is uninitialized in trol record
- 8086 Support Legacy BFX Products with Secure BFX via Secure TNP
- 8091 Provide consistent Keywords and same functionality for security controls
- 8120 BFXJS must verify userid length in connect data
- 8129 Use BFX message format for Secure NetEx messages
- 8155 MJSEC and NOMJSEC are BFXTI only
- 8192 JSAUTH failure uses incorrect buffer size
- 8200 MDSEC sets NOMDSEC
- 8203 BFXJS does not reset the JSAUTH userid field
- 8206 Intermittent BFX211 error “Cannot open output file jobstart, RC=1.”

## Release 1.1 Updates

- 7936 Add message BFX930I transferred nnnKB in nnn msec = nnn KB/sec
- 7932 Allow 13 character in file name if 13 “.”
- 7933 BFX399W Warning tape assigned Format-A
- 7984 BFX407E Message shows entered parameter not Maximum length
- 7931 BFXTRCFG contains TIMEOFFER which is not a BFXTR parameter
- 7903 Rename global config files SBFXTICFG & SBFXTRCFG
- 7934 RMAXL should have a default of 28
- 7935 Time stamp needs to include milliseconds on Unisys
- 7937 TSB710I message on sender and receiver when CFMT tapes are used
- 7995 error when trying to send a file