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

**Release 1.3.11**

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**Memo to Users**

June 30, 2022

# 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.

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 1.3.11 Updates

- 9377 BIGBLK does not send second tape in single job
- 9387 Extra block received, wpttl32, wptsfstr
- 9388 RBM single reel - goes multi-reel plus different record counts
- 9390 RBM receiving 1st multi-volume NL tape missing BFX911
- 9394 H305 vs H301L RBM reel messages
- 9397 RBM TSB605 sending volume swapped message

## Release 1.3.10 Updates

- 9220 RBM receive tape AFC=3, source tape AFC=0 (H301L AFC match)
- 9309 H305 general cleanup
- 9354 USRECVER invalid EOR block
- 9355 USRECVER missing EOV, unwanted EOR
- 9356 SPERRY mode invalid EOR block
- 9357 SPERRY mode missing EOV, unwanted EOR
- 9358 mode BIT I/O error RC=-122 [Ticket 9234]
- 9359 NONSDF I/O error RC=-122 [Ticket 9233]
- 9365 BIGBLK inaccurate record count for first file of second tape
- 9366 Remove abort in readtape
- 9368 USSENDER extra TLBL messages
- 9370 Code for BFX930 should be Unisys only
- 9372 BFXSND and BFXRCV session termination
- 9373 BFXSND and BFXRCV issue misleading BFX115 and BFX116 messages
- 9375 RBM 1st vol of multi-vol file/record counts - NL Tape
- 9376 RBM 1st vol of multi-vol record counts - SL Tape

## Release 1.3.9 Updates

- 9204 BIGBLK - reports multiple files when one file sent, H301L reports one file
- 9216 RBM MV tape w/o DSEOV breaks file into two parts at swap. TSB601/602 different record counts
- 9237 BIGBLK receiver reports after-swap records for file
- 9240 ussender/usrecver mode - Storage limits
- 9241 NONSDF multireel - BFX102S File TXFILE1 Permanent I/O error, RC=-122. (testmt32)
- 9242 RBM single reel - goes multi-reel plus different record counts
- 9243 ussender/usrecver mode - BFX121S Maximum record length exceeds negotiated size (test003s)
- 9244 NONSDF - Permanent I/O error, RC=-122 (testtl32)
- 9245 MODE=BIT - Permanent I/O error, RC=-122 (testsfstr)

- 9246 SPERRY MODE unlabeled multi-reel - EOR block on wrong reel (test012s)
- 9247 ussender/usrecver - misplaced EOR block plus extra output reel (test002s)
- 9252 RBM BIT mode loss of position on tape transferring tape with multiple copy,g files
- 9254 RBM NONSDF loss of position on tape transferring tape with multiple copy,g files
- 9261 RBM NONSDF transfer reports multiple TSB601/TSB602
- 9269 BFXSND swait deadlock
- 9277 USSENDER multi-volume NL tapes does not generate TSB601 message
- 9278 BIGBLK with DLSAB=1 reports blocks after swap in BFX911 message
- 9289 TSB716 volume name
- 9291 Fix ifdefs for Unisys keywords KEYIN and JSUSE
- 9302 Cleanup tape label messages
- 9307 BFXOCT sender does not stop on read error
- 9309 H305 general cleanup
- 9314 ExpandMsgV2 missing first character
- 9315 Buffer overflow in SetTrol
- 9316 FILES parameter parsing
- 9317 HOBCKECK BFX401
- 9320 RBM disk (trackio) transfer messages
- 9321 Range check matching units
- 9324 USSENDER extra TSB608 compared to H301L messages
- 9325 BFXOCTS ignores Cfile error
- 9329 Storage limits violation when record exceeds RMAXL. H301L runs
- 9330 RBM disk (trackio) BFX201 reports 0 records received
- 9331 USSENDER sends filemark before swap
- 9336 USRECVER not writing EOF/EOV? when swapping tape
- 9341 BIGBLK message cleanup
- 9342 USSENDER Permanent I/O error, RC=17 when copy,g creates tape
- 9344 RBM sender counts 0 record files, receiver does not
- 9345 BFXRBM receiver missing swap error messages
- 9346 H305 vs H301L octet reel messages
- 9347 BIGBLK full tape swap, receiver does not end NL tape with filemarks

## 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>rxml
- 8758 sendrcv transfers 1 file when sl tape, not authorized 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/RECVER 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 USRECVER 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 JOBFile 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<sup>th</sup> character is "."
- 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