



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

Release 1.3.9

Memo to Users

March 10, 2022

Introduction

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

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

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

Command	Default	Used By
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 1.3.9 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 (testsfsr)
- 9246 SPERRY MODE unlabelled 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->reclen 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 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/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 cctable
- 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