

# Reality V14.0

## Product Updates

**To install these updates the following should serve as a guideline;**

UNIX/LINUX platforms:

The file is delivered as a 'compressed' file to save download time. Once the compressed file is loaded onto the target machine use the UNIX 'uncompress' utility to uncompress the file. The resulting file will be a UNIX 'tar' file. This 'tar' file needs to be extracted to a directory, change directory using 'cd' to a suitable place to hold the contents of the tar file and then use 'tar -xvf <path to filename>' to extract the contents of the tar file. Once the contents of the 'tar' file have been extracted you are then ready to proceed with the installation. To install all of the fixes, whilst logged in as the user 'realman', run 'install\_fix -a <path to directory holding the fixes>'

Windows Platforms:

The file delivered is a self extracting archive, ensure that once it has been download it has '.exe' extension and then simply double click this to begin the installation, following all the prompts.

- V14.0.0.0089 Correct report of modulo when creating a default AFS file
- V14.0.0.0090 DSPMON incorrectly thinks despooler processes are dying
- V14.0.0.0091 Validation of version and feature keys was prone to failure
- V14.0.0.0092 Updates to files with indexes may not appear on secondary if Rapid recovery is configured
- V14.0.0.0093 Ensure that LIST-INDEXES can detect corrupted or incomplete indexes
- V14.0.0.0094 Concurrent update to AFS index can result in grouplock messages in daemon.log
- V14.0.0.0095 AFS files/indexes can get heavily over expanded
- V14.0.0.0096 LICENCE SFAM shows expiry in days, never by date.
- V14.0.0.0097 Allow Q-ptr to Q-ptr chasing
- V14.0.0.0098 Correct initialisation of save code
- V14.0.0.0099 Stop memory corruption when a TIPH starts
- V14.0.0.0100 Correct DataBasic D3 mode format where scale is less than precision.
- V14.0.0.0101 GENML does not reset terminal definition upon error
- V14.0.0.0102 Ensure that serial number installation is consistent of Windows platforms
- V14.0.0.0103 Thread safe libraries have resource leak causing 'CreateNamePipe 231' error (Windows Only)
- V14.0.0.0104 TL-REDUAL could fail if system alerts enabled on AIX
- V14.0.0.0105 Expand size of attribute, value and sub-value counters in DataBasic FIND and FINDSTR statements.
- V14.0.0.0106 Allow TIPH's to be controlled by their own license
- V14.0.0.0107 Correct abort if SUBROUTINE not on first line of item.
- V14.0.0.0108 PEEK and TANDEM (V disables the break key
- V14.0.0.0109 Physical save/restore results in GFE'e on the restored system
- V14.0.0.0110 Stop SLEEP until a time from aborting
- V14.0.0.0111 Stop null item id's in DIR-VIEW files from causing core dumps (UNIX/LINUX specific)
- V14.0.0.0112 Stop null item id's in DIR-VIEW files from causing core dumps (WINDOWS specific)
- V14.0.0.0113 Problems with compressed remote tape image
- V14.0.0.0114 Allow MultiValue DataBasic SELECT and READNEXT to used default file and list variables multiple times.
- V14.0.0.0115 Add ACCESS(34) - conversion code look ahead.
- V14.0.0.0116 Allow DataBasic 'CALL @var' to work with dimensioned arrays.
- V14.0.0.0117 ADP SPECIAL, ensure remote file access is READ ONLY
- V14.0.0.0118 Stop realcip from core dumping when processing switch image

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- V14.0.0.0119 Ensure that updating of status field in PH-HISTORY file is more robust.
- V14.0.0.0120 SYS command causes process to logoff after a heartbeat failover (UNIX Specific)
- V14.0.0.0121 VERIFY-INDEX reports an error on good exploding Indexes
- V14.0.0.0122 Creating spool job or sequential item > 2Gb will corrupt the database
- V14.0.0.0123 SAVE-IMAGE and LOAD-IMAGE can corrupt large items on restored database
- V14.0.0.0124 Stop RgsBasicProf messages appearing on console.
- V14.0.0.0125 Deliver missing STAT-FILE dictionary definitions for OPTIMUM-FRAME-SIZE utility
- V14.0.0.0126 Add further error reporting for RIXE\_GENKEY errors into daemon.log
- V14.0.0.0127 Various problems with realprof output getting confused
- V14.0.0.0128 mkdbase: add -h switch to set hash type. Update config file for hash type and frame size. Fix setting permissions when database in remote folder.
- V14.0.0.0129 mkdbase: add -h switch to set hash type. Update config file for hash type and frame size. Fix setting permissions when database in remote folder.
- V14.0.0.0130 Allow a process in the SQL STACKER to be logged off.
- V14.0.0.0131 Extend DataBasic error reporting to include REJ0 and REJ1 errors.
- V14.0.0.0132 Ensure all errors in a child context are processed before context information is destroyed.
- V14.0.0.0133 Allow System files in DENAT to have named data sections.
- V14.0.0.0134 Correct test for type ahead - system 14 - when a TIPH process.
- V14.0.0.0135 Correct ENGLISH iconv of a MCT value.
- V14.0.0.0136 Stop Reality from caching a FCB from a remote file which has failed as a result of a network error.
- V14.0.0.0137 Correct error handling of ENGLISH modeid3 verbs.
- V14.0.0.0138 Allow SQL-VIEW to have a configurable transaction level
- V14.0.0.0139 Failsafe tlstore can fall behind primary under heavy usage.
- V14.0.0.0140 Enable LIST-INDEXES to work with QPTRS
- V14.0.0.0141 Cannot build reality on Linux using standard ksh
- V14.0.0.0142 Ensure that 'Mini Reality' is protected from LOGOFF.
- V14.0.0.0143 DataBasic MATCH{ES} incorrect if string to be matched is a dynamic array.
- V14.0.0.0144 PF16.4, data cap licensing \*\*
- V14.0.0.0145 Allow for null keys via RISC (Proiv) interface
- V14.0.0.0146 Ensure that if ISTAT consumes all memory on windows that it can recover from it
- V14.0.0.0148 Building debug reality has problems.
- V14.0.0.0149 Correct RealWeb's handling of XML document types.
- V14.0.0.0150 Correct PROGRAM ACCOUNT style of BVERIFY and hence VERIFY-SYSTEM.
- V14.0.0.0152 Enhance Reality to allow the restore of D3 FSI FILE-SAVE tapes.
- V14.0.0.0153 Ensure tlmenu uses correct remote or local tape set with Physical Save (UNIX Specific)
- V14.0.0.0154 Ensure that tlmenu uses correct local or remote tape set for physical save (Windows Specific)
- V14.0.0.0155 Physical save checkpoint file is limited to 2Gbytes
- V14.0.0.0157 Correct decode of SET-ENVIRONMENT vendor MVENTERPRISE and D3.
- V14.0.0.0158 Fix 4GByte limit on checkpoint file.
- V14.0.0.0159 Correct RealWeb so that it displays full DataBasic runtime errors.
- V14.0.0.0160 Change tlstore to run in parallel with DR slave. Improve error recovery. Handle multiple instances on slave system
- V14.0.0.0161 Remove DEBUG statements from XML.GENERATE API
- V14.0.0.0162 Ensure realclone utility can identify base version of Reality on Windows (Windows Specific)
- V14.0.0.0163 Ensure mkdbase works correctly when default tape compression is enabled in config file - compressTapeImage
- V14.0.0.0164 Stop indexes from having missing keys
- V14.0.0.0165 Trap an equate replace deadly embrace in the DataBasic Compiler.
- V14.0.0.0166 Enable port number as argument to BREAK-KEY-ON
- V14.0.0.0167 Resizing ACCOUNT-RESTORE slow on Solaris on V14 (SOLARIS ONLY)
- V14.0.0.0168 Reality DR requires a save/restore after a TL-STOP
- V14.0.0.0169 Index gets get out of order
- V14.0.0.0170 Allow Databasic CHECKSUM() function to work with binary data.
- V14.0.0.0171 Slow create index failure can leave GFB flag 0x40 set.

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- V14.0.0.0174 Stop memory corruption in Central daemon
- V14.0.0.0176 Stop failed Reality connect requests from leaving messages on IPC queue's and memory corruption
- V14.0.0.0177 Ensure that a request for an autoswitch of transaction logs can be actioned more timely.
- V14.0.0.0178 Problem overwriting a terabyte format item on a non terabyte database
- V14.0.0.0179 Reality system alert emails cannot be sent to some email servers.
- V14.0.0.0180 The realevent -E switch fails to create event filters.
- V14.0.0.0181 Stop tlrestore core dumping when dealing with DBasic Object in DICT of file
- V14.0.0.0182 Enable tlmenu to display correct clean log after saving database and ensure that start and end time is displayed around physical save from tlmenu. (UNIX Specific)
- V14.0.0.0183 Enable tlmenu to display correct clean log after saving database and ensure that start and end time is displayed around physical save from tlmenu. (Windows Specific)
- V14.0.0.0185 Correct DataBasic concatenate to self, A = A:A
- V14.0.0.0186 Stop CLEAR-ITEM-LOCKS from core dumping and SET-STACK (D) from wiping out current stacked commands
- V14.0.0.0187 Correct {M}R and {M}L conversions of dynamic array in English and DataBasic.
- V14.0.0.0189 Add new special file to support U2 Intercall (UNIX/LINUX specific)
- V14.0.0.0190 DSM aborts when attempting to specify a translation table
- V14.0.0.0191 Add new special file to support U2 Intercall (Windows Specific)
- V14.0.0.0192 Locks taken inside a transaction need to be released properly before committing the transaction.
- V14.0.0.0193 Stop AND-LISTS with no arguments returning default NULL list
- V14.0.0.0194 Close Named common files during a LOGTO
- V14.0.0.0195 Implement changes for Kittery VB classes
- V14.0.0.0196 Ensure that file locks are cleared after read or update operations on DIR-VIEW (UNIX Specific)
- V14.0.0.0197 Ensure that file locks are cleared after read or update operations on DIR-VIEW (Windows Specific)
- V14.0.0.0198 Ensure that tlmenu can archive clean logs when account has password
- V14.0.0.0199 Ensure that null item updates to DIR-VIEW work
- V14.0.0.0200 Stop 'Port ... has group lock but is frozen' Messages
- V14.0.0.0201 Correct TOTAL of a hidden column in English.
- V14.0.0.0202 Verify physical save in raw format can fail 'failed to write block'
- V14.0.0.0203 Deliver Visual Basic class library interface
- V14.0.0.0204 Enable REDI license key to be seen
- V14.0.0.0205 Deliver new dictionary items for transaction log Files
- V14.0.0.0206 PF16.3, provide remote file licensing feature.
- V14.0.0.0208 Productize U2 interface and add remote capability
- V14.0.0.0210 Ensure that tlmenu treats 'not on file' errors as fatal during clean log archive
- V14.0.0.0211 Reality in TANDEM menu will hang when terminal session dies.
- V14.0.0.0214 Provide support for remote file licensing including proxy access. (Windows specific)
- V14.0.0.0215 Allow negatives times to work with MTS conversion code
- V14.0.0.0216 Add remote select and remote execute features to U2 special file
- V14.0.0.0217 Provide support for remote file licensing including proxy access. (LINUX specific)
- V14.0.0.0218 Stop random aborts or core dumps when query another process for item lock info
- V14.0.0.0219 Stop core dump when during save when saving index and clearing associated file.
- V14.0.0.0220 Windows smanager spining on invalid connect message
- V14.0.0.0221 Core dump accessing V14.1 database. Oversize DPTR fix. Right justified index fix
- V14.0.0.0222 Enable mvbase save to be restored in tape label indicates different block size to actually records dumped
- V14.0.0.0223 Ensure that mkdbase correctly terminates line for HashType and FrameSize in database config file
- V14.0.0.0224 By default ICONV(", 'MD2') returned a '0' on V11, on V14.0 it returns a NULL.
- V14.0.0.0225 TL-CONTINUE starts tlrestore from offset zero, not from last image processed
- V14.0.0.0226 tlmenu does not notice if redual fails due to corrupt clean log (UNIX specific)
- V14.0.0.0227 Force an OCONV MDn of NULL to always be a NULL.
- V14.0.0.0228 Correct Data Basic Locate 'DR' or 'AR' with numbers N when  $-1 < N < 1$ .
- V14.0.0.0232 Fix for cannot start smanager (Windows only) (See readme for how to activate)

\*\* V14.0.0.0144 introduces a new license mechanism for Web Services, existing users should be unaffected

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# V14.0 Product Updates

Released 21<sup>st</sup> June 2010

Fix Number	Bug No.	Descriptive text
V14.0.0.0147	85130 84327 48383 90379 90420 90422 90423 85225	Supply PF99.24.1 DataBasic Source Line Numbering.
V14.0.0.0151	90188 90425 90332	Fix occasional issues telnetting to Reality on Windows. Fix issues spooling to shared printer.
V14.0.0.0175	90444 90445	Correct DataBasic debugger "B variable name" and "K2" commands.
V14.0.0.0229	85350	Fix AFS-CONTRACT and AFS-HOLD
V14.0.0.0233	85355	Make rawlog free space configurable using REALCIP_RLOGSPACECRITICAL
V14.0.0.0234	90551	Stop failed U2 connections using a U2 licence
V14.0.0.0237	85367	Fix tlstore problem with multiple concurrent slow create index on same file
V14.0.0.0238	85370	Allow SEL-RESTORE to restore file starting with DICT.
V14.0.0.0239	85369	Allow consistent use of DATE FORMAT in DATE indexes.
V14.0.0.0240	85291	This fix should be installed on all systems which will be used to access the same tape image file.
V14.0.0.0242	85376	Fix problem of tlstore exit "Parent died" on AIX
V14.0.0.0243	85362	Stop RDB DUMP command reporting "Core Dump Failed"
V14.0.0.0244	90616	AFS commands report erroneous "File does not exist" message
V14.0.0.0245	85313	Fix install_rt on Sun
V14.0.0.0247	85361	Enable LISTFILES to display AFS held files as type S
V14.0.0.0248	85387	Add custom option INT.MD.ONLY to force V14.0 MDn conversion to behave as V12.0
V14.0.0.0249	85289	Add (T option to LIST-INDEXES to tidy empty leaf nodes
V14.0.0.0250	85388	Correct file usage within translates if files are saved in named commons.
V14.0.0.0251	85390	Fix READSEQ through a DIR-VIEW
V14.0.0.0252	85270 85342	Fix native versions of OPENSEQ EXISTING & SEEK relative to current position.
V14.0.0.0253	85391	DSPMON will ensure DSPMON.CONTROL is DL file type.
V14.0.0.0254	85392	Cannot archive a clean log from tlmenu when user password on SYSMAN set.
V14.0.0.0255	85395	Allow Reality DR to continue after primary secondary toggle.
V14.0.0.0256	85397	Allow TANDEM, PEEK, POKE to port 0.
V14.0.0.0257	85400	This fix discards key i/p queued whilst SYS'd out.
V14.0.0.0258	85396	Fix tlstore of multiple slow create indexes on the same file.
V14.0.0.0259	90630	Fix Windows smanager problem with concurrent ROSFS connects
V14.0.0.0260	85404	Allow DELETE-CATALOG to work on files other than the MD.
V14.0.0.0261	85409	Enable AFS-ENABLE to clear AFS-HOLD status
V14.0.0.0262	90642 90643	Stop U2-VIEW entering DB debugger. Enable all terminal output to be captured.
V14.0.0.0263	85416	Avoid corruption of tlmenu log file which caused SEDIT to hang.

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V14.0.0.0264	90656 85417	CLEAR-FILE and SELECT on dir view files now reliably access all items
V14.0.0.0265	85414	Stop CLAIM corrupting free space table
V14.0.0.0266	85423	LIST of SQL view no longer exhausts memory space
V14.0.0.0268	85427	Stop async flush request messages flooding SysV message queue
V14.0.0.0269	85425	Inhibit log of create of DIR-VIEW using REALNOLOGDIRVIEW
V14.0.0.0270	85430	Failsafe admin server connection fails on Win Server 2003
V14.0.0.0271	90675	Correct DataBasic Debugger alternate source file command, 'Z'.
V14.0.0.0272	85396	tlrestore of multiple concurrent slow create index on one file leaves incomplete indexes.

NOTE This patch set was re-released for Windows on 22 July 2010 to fix:

V14.0.0.0278	65445	CREATE-INDEX may abort on Windows.
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Released 6<sup>th</sup> December 2010

V14.0.0.0274	85434 90696	Allow access to encryption admin key when user is not the data base owner.
V14.0.0.0275	85441	MTS{H}{S} ICONV of numbers starting with -0: give incorrect result.
V14.0.0.0276	85438 85437	Stop install_fix erroneous error messages for database only fixes
V14.0.0.0277	90704	Fix creating database config file to make sure string parameters can be read.
V14.0.0.0280	85354	Fix 'Port not responding' when TANDEM to a port. Re-issued to cover all platforms.
V14.0.0.0281	85353	Provide ROSFS support for C-ISAM interface.
V14.0.0.0284	90744	Allow for unlimited number of attributes when querying an XML document
V14.0.0.0286	85436 90750	Fix AFS-ENABLE taking file out of HOLD. Fix AFS-EXPAND/CONTRACT not working
V14.0.0.0289	85472	Ensure order of logging A images
V14.0.0.0290	85417	CLEAR-FILE now clears large AIX dir view files.
V14.0.0.0291	85473	Pause 2 seconds after password expiry warnings.

Released 6<sup>th</sup> May 2011

Fix Number	Bug No.	Descriptive text
V14.0.0.0246	85378	Enable tmenu to backup and restore a transaction handling database. (Not Windows)
V14.0.0.0276	85438 85437 85504	Stop install_fix erroneous error messages for database only fixes. (Not Windows)
V14.0.0.0283	85464	Allow TL-AUTOSWITCH to support 3 char suffix
V14.0.0.0285	85465	Enable ACCUTERM to save large files, in general prevent overrunning of terminal input buffer for telnet connections.
V14.0.0.0287	90751	Speed up realdbck on large databases
V14.0.0.0293	85483	Fix remake of failsafe database in an instance (Not Windows)
V14.0.0.0294	85348	Fix realrir spin generating "wait for child failed" messages
V14.0.0.0295	90726	Correct possible data truncation if CALL conversion does not convert the data.
V14.0.0.0296	90760	Extend ROSFS to support up to 255 open files and 255 open indexes.
V14.0.0.0297	85489	Fix multiple create index on one file populating index
V14.0.0.0299	85503	Type-ahead largely retained during LOGTO on Solaris and AIX
V14.0.0.0300	85439	Fix multithreaded tlrestore of delete index followed by create index.

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V14.0.0.0301	85497 90789	English could return incorrect results when comparing very large numbers.
V14.0.0.0302	85507	Enable remote tape server to write compressed image.
V14.0.0.0304	-----	Provide WHAT, SYSINFO & CAPTURE verbs to report system information.
V14.0.0.0305	85405	Fix ANALYZE causing target process to core dump
V14.0.0.0306	85515	Stop "RfsReadIdListBS: My SUSPEND set, GFB not" messages in daemon.log
V14.0.0.0307	90809	Windows: fix saving clean logs from tmenu.
V14.0.0.0309	90811	mkdbase may fail "Failed to initialise database" on Windows

Released 24<sup>th</sup> August 2011

Fix Number	Bug No.	Descriptive text
V14.0.0.0308	85513	Allow dbsave to mixed tape device sizes.
V14.0.0.0310	90813	Enhance DBUPDATE to fully update all accounts and database.
V14.0.0.0311	90814	Correct MultiValue form of DataBasic READLIST when used with an index.
V14.0.0.0312	85527	Enable tmenu to rebuild shadow database
V14.0.0.0314	90819	Windows - Reality services fail to start after installing service pack.
V14.0.0.0316	90828	Enable tmenu to manage secondary database on Windows Server 2000
V14.0.0.0317	85539	Enable Install_SN to work on latest VM Ware
V14.0.0.0323		Improve handling of fix numbers for install_fix -r (UNIX only)

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