

Reality V15.1

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 <absolute path to directory holding the fixes>'

Windows Platforms:

The file delivered is a self installing archive and can be run directly from Internet Explorer (or other web browser). Alternatively it can be downloaded and run as normal (double click it in explorer or type the name from command prompt).

The following fixes were released on 3rd August 2011.

Fix No	Bug No	Description
V15.1.0.0001	91077	Make SYS-UPDATE from V14.0 more resilient.

The following fixes were released on 17th February 2014.

V15.1.0.0002	91084 91094	Correct restore of non-Dptr items into SYSTEM.
V15.1.0.0003	91059	Prevents error messages being displayed during verbs such as FIND when querying SQL-VIEW files for item-ids that do not obey SQL rules.
V15.1.0.0004	85687	Solaris: Mount shadow fails fsck on zfs file system
V15.1.0.0005	91075	Resize existing AFS files during ACCOUNT-RESTORE
V15.1.0.0006	91087	Windows: Cannot create a database using realfstab
V15.1.0.0007	90994	Prevents RIF abort when SQL compiles "SELECT *". Now reports "Column '*' not found".
V15.1.0.0008	-----	Add ability to import .reg file
V15.1.0.0009	85684	Windows: realdump can hang trying to freeze the database
V15.1.0.0010	91090	Enable mini web server to support % escape in URL and pdf documents.
V15.1.0.0011	85695	Skip logoff messages when aborted by RDB
V15.1.0.0012	85697	Correct problems with updates of partial indexes.
V15.1.0.0013	85699	Fix sporadic issue where SP-JOBS fails to open jobs file
V15.1.0.0014	85698	GET-LIST could display incorrect list length.
V15.1.0.0016	85688	Allow PERFORM or EXECUTE to optionally input from dynamic array data.
V15.1.0.0017	85700	Fix verification of multi clog save to remote tape
V15.1.0.0018	91086 85665 91072	Enable HTTPS to access non validated server realprof fails to return any data realevent fails to send notification emails
V15.1.0.0019	91097	Correct OPTIMUM-FRAME-SIZE and OPTIMUM-MODULO TCL verbs.
V15.1.0.0021	91106	Fix netadmin list all hosts with large number of hosts.
V15.1.0.0023	91088 91105	Enhance SYS-UPDATE error recovery.

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The following fixes were released on 29th May 2014

V15.1.0.0020	85698 91096	Correct 64bit optimisation of scan and move virtual instructions.
V15.1.0.0024	85713	Inhibit DataBasic history logging on a single level source file.
V15.1.0.0025	85711	Do not try to release any locks on a DataBasic Index or select variable.
V15.1.0.0026	-----	Improve info reported if parallel tstore fails.
V15.1.0.0027	91109	Allow DataBasic Object to operate with binary strings.
V15.1.0.0029	85724	Stop realcd core dump when using session licences
V15.1.0.0030	85718	Allow 8GB raw log to be used.
V15.1.0.0031	85718	Fix various problems when malloc arena exceeds 4GB
V15.1.0.0032	85299 91131	Enable ISTAT of large files
V15.1.0.0033	91135	The DataBasic debugger is unable to stop or see the statement following an ECATCH statement.
V15.1.0.0034	-----	NFM CDE full clean log access
V15.1.0.0035	85727	Allow DR to continue after failover of failsafe master
V15.1.0.0036	91138	Fix problem with DataBasic substring with -ve starts of binary strings.
V15.1.0.0037	90609	DELETE, EDELETE, PROC F-W and F-D now report if a file is update protected.
V15.1.0.0038	85731	Fix core dump when nesting index selects. Fix size of index key when reading index
V15.1.0.0039	91148	Enable fix 31 to be installed correctly
V15.1.0.0040	85732 85734	Fix indexes with a translate conversion and fix CREATE-INDEX (N of huge files.
V15.1.0.0041	85729 85730	Stop TL-REJECTs when deleting clean logs. Enable tmenu to deconfigure Failsafe
V15.1.0.0043	-----	Completely remove Reality from Windows system
V15.1.0.0044	85727	Add database instance with -i or -a
V15.1.0.0046	85735	Reinstate CHARGE-TO display to WHO and U50BB.
V15.1.0.0047	91151	A DataBasic ACCESS abort could corrupt the DataBasic runtime stack.
V15.1.0.0048	91150	Fix creating multiple partition database in Windows
V15.1.0.0049	-----	PCL TO PDF CDE
V15.1.0.0050	-----	PF99.27 - Add initial support for despooler filters.

The following fixes were released on 20th June 2014

V15.1.0.0051	85736	Fix SQL view for 64 bit reality to SQLserver 2008
V15.1.0.0052	-----	Correct issues seen ODBC/SQL in VB prog on 64 bit
V15.1.0.0053	85714	Correct item body length of partial read of unchanged item.
V15.1.0.0054	85738	Diagnostic to help resolve SQL view problem
V15.1.0.0055	91158	SQL DROP INDEX causes core dump
V15.1.0.0056	85740	Add DataBasic session amd object variables to VARVAL and VARVALTYPE functions.
V15.1.0.0057	85743	Enable new despooler filter feature.

V15.1 Product Updates

The following fixes were released on 12th November 2014

V15.1.0.0042	85733	Improve error messages if spinlock fails
V15.1.0.0058	85745 85736	Correct issues seen ODBC/SQL in VB prog on 64 bit
V15.1.0.0059	85714 85747	Correct item body length of partial read of unchanged item.
V15.1.0.0060	91169	DBO - Fix mishandling of numbers ending in D. Fix memory leak.
V15.1.0.0061	85471 85472 85780	Move DR delayed delete file to database and fix various hangups
V15.1.0.0062	85749	Ensure A*L*L FCB starts on a SR aligned boundary.
V15.1.0.0063	91172	Enable XML.GENERATE to handle mutivalue data including subvalues
V15.1.0.0064	85753	Correct restore of V14.0 DataBasic object items.
V15.1.0.0065	91175	Correct print-catalog with no file but 2 or more items.
V15.1.0.0066	85754	Fix bug where OG items in an AFS file can be corrupted after upgrading to 15.1
V15.1.0.0067	91178	Enable ISTAT ... (U to work on an active file
V15.1.0.0068	85755	Suppress benign daemon log errors for remote files
V15.1.0.0069	-----	PCL2PDF - Add font map, properties and back sheet configuration
V15.1.0.0070	85757	Fixes PERFORM TERM after PRINTER ON
V15.1.0.0071	85754	Preserve update time when AFS moves an item
V15.1.0.0073	85765	The realroot script now works ok in Bourne shell
V15.1.0.0074	85719	Enable RealEdit to select account/item name
V15.1.0.0075	85766	Correct DataBasic debugger Trace on 64 bit Solaris.
V15.1.0.0076	85771	Correct AND-LISTS and AND-ITEMS when used with a null list/item.
V15.1.0.0077	85772	Stop closing remote index from disconnection session.
V15.1.0.0078	85778	This fixes loss of keyboard data from Accuterm.
V15.1.0.0079	85779	Aborting window @ logon no longer causes 100% cpu
V15.1.0.0080	91031 91207	Enhance BVERIFY to fully compare objects while handling date and times separately.
V15.1.0.0081	85777	Provide support for NpuRetries & NpuDelay configs
V15.1.0.0083	91208	Stop LICENCE SFAM responding to junk item ID's
V15.1.0.0086	91217	Correct ALL SORT xmode problem.
V15.1.0.0087	85787	Fix SELECT/COUNT of DIR-VIEW on latest RedHat/Centos

V15.1 Product Updates

The following fixes were released on 12th November 2014

V15.1.0.0085	85777	Diagnostic tracing for npu delays
V15.1.0.0089	91214	Unix: Allow debug build to include/exclude fixes
V15.1.0.0093	91219	Fix perl script warnings on Centos 7
V15.1.0.0094	85789	Ensure that the ALL window CB is on 8-byte boundary.
V15.1.0.0097	91222	Enable DIR-VIEW to list large items
V15.1.0.0098	91187	Enable build of reality on Centos 7
V15.1.0.0099	84797	Enable read of pre V14.0 compressed tape
V15.1.0.0100	85792	Correct BVERIFY of V14.0 or earlier object code.
V15.1.0.0101	-----	Fix corrupt dbfile on 32 bit Windows
V15.1.0.0102	85702	Add SQLPRIV to SQL.DEMO
V15.1.0.0103	85756 85776 91197 91227 91226 91225	Various updates to tlmenu

The following fixes were released on 27th February 2015

V15.1.0.0072	91177	Allow database to be created with non AFS system files.
V15.1.0.0082	91200 91201 91205 91183 99.29	DataBasic Dump CDE and various DataBasic debugger fixes.
V15.1.0.0088	91215	Windows: Enable DBUPDATE to run correctly when telneted into database.
V15.1.0.0104	85795	Fix TL-STATUS (B corruption of secondary status
V15.1.0.0105	85792	Correct BVERIFY of V14.0 or earlier object code.
V15.1.0.0106	91232	Fix RealWeb insert item after DataBasic objects changes
V15.1.0.0107	85748	Fix issue of SERVICE-LOG items not wrapping at 999
V15.1.0.0108	91234	Stop binary DIR-VIEW on Unix clearing binary flag.
V15.1.0.0109	85804	Correct DataBasic CONVERT function if oldCharList is NULL.
V15.1.0.0111	85794	Allow DataBasic DUMP to work with external DataBasic.
V15.1.0.0112	91249	Enhance RESTORE to skip truncated DataBasic object items.
V15.1.0.0113	91242	Enhance DataBasic compiler to test string quotes in EQUATES at define time.
V15.1.0.0115	85808	Fix realdbck "ReloadPage Invalid argument" error
V15.1.0.0116	85809	Correct passing of a common array as a subroutine parameter.
V15.1.0.0117	91256	Maintain registers over an "Non-numeric" warning error message.
V15.1.0.0118	85698 91096 85798	Correct 64bit optimisation of scan and move virtual instructions.

Tel: +44 (0) 1442 232424

www.nps-reality.com

USA Tel: +1 866 473 2588

Email: reality@northgateps.com



V15.1 Product Updates

The following fixes were released on 29th May 2015

V15.1.0.0114	091200 091210 091235 99.30	DataBasic Debugger CDE
V15.1.0.0119	91218	Correct ALL interface when reading an item that is not there.
V15.1.0.0120	91267 91236 91283	Various fixes and enhancement to install_fix
V15.1.0.0121	85810	Windows: tlmenu diagnostic for hang after redual
V15.1.0.0122	85812 85813	Windows: fix buffer overrun in smanager when loggong server reject. Stop 'Lock 6' error message in Windows event log when starting realserv.
V15.1.0.0123	85814	Raw printing fixed on Windows 8 / 2012
V15.1.0.0124	85811	Correct return of file variable via a passed common variable assigned to a file variable.
V15.1.0.0125	91280	Correct DataBasic IPM timeout of 255, and add timeout validation.
V15.1.0.0126	91282	Fix T-STATUS after T-DEVICE clears local definition
V15.1.0.0127	85788 91284	Ensure IPM sessions are correctly disconnected.
V15.1.0.0128	85825	Resolve problem where databases built on ZFS file system may be corrupt after system reboot.
V15.1.0.0129	91288	Windows: Fix DIR-VIEW problem where zero length files may not be visible.
V15.1.0.0130	91285	Enable millisecond time for DataBasic CONNECT/ACCEPT
V15.1.0.0131	85823	Enable tlstore to move an open file.
V15.1.0.0132	85820	Ensure sort context workspaces are correctly cleaned up.
V15.1.0.0133	85826	Fix PCL2PDF graphic fills when watermark used
V15.1.0.0134	85828	Fix SIGSEGV when performing create of two indexes.
V15.1.0.0135	91297	Allow DataBasic Functions to use temp space.
V15.1.0.0136	91299	Fix bug in TCL stacker if max depth set to one.

V15.1 Product Updates

The following fixes were released on 6th of November 2015

V15.1.0.0137	91272	Correct fault in an internal support option of the BASIC verb.
V15.1.0.0138	91134	Enhance NC.LIST to display number of named descriptors.
V15.1.0.0139	85832	Enable generation of more than 100 clean logs in a day
V15.1.0.0140	85831	Add Reality SYSTEM(117) and SYSTEM(118) and mvBase SYSTEM(35) to return program line number.
V15.1.0.0141	91304	Correct capture of a PERFORM SYS if result has no trailing LF.
V15.1.0.0142	91308	Remove name restriction on External User Functions when not saving result.
V15.1.0.0143	85835	Correct test for single or double quotes for PROCS & TCL2 verbs.
V15.1.0.0144	91309	Fix COPY-LIST with valid source account and invalid destination filename.
V15.1.0.0145	85836	Windows: Fix GPF when trying to read non-existent binary DIR-VIEW item.
V15.1.0.0146	85837	Stop 'Overwrite filesystem ...' prompt from mkdbase
V15.1.0.0147	85839 91314	RealEdit custom buttons
V15.1.0.0148	85838	DR: Recover form corrupt image response from master
V15.1.0.0149	91317	Fix hang of account restore when restoring DIR-VIEW
V15.1.0.0150	91324	Fix number of items displayed when using SELECT with View Compiled Programs option set.
V15.1.0.0151	91334	Fix database daemon abort on Linux when events enabled.
V15.1.0.0152	85845	Close vulnerability in mini web server where it could access any file on server.
V15.1.0.0153	91341	Correct DataBasic READPREV when used on a dynamic array.
V15.1.0.0154	91342	Clear confirm FD message in DESPOOLER.CONTROL file maintenance.

The following fixes were released on 25th of February 2016

V15.1.0.0155	91340	Improve BASIC compile error handling in LOOPS and CASE structures.
V15.1.0.0160	91336	Fix several SQL server issues including loss of rows.
V15.1.0.0161	91349	Install DataBasic V15.1 compiler fix for DataBasic objects
V15.1.0.0167	91321	Ensure CREATE-TRIGGER checks in correct account for trigger code.
V15.1.0.0168	85849 91353	Correct output of TL-AUTOSWITCH to report new clean log
V15.1.0.0170	91354 91363	Windows: Enable shadow database to be configured

Tel: +44 (0) 1442 232424

www.nps-reality.com

USA Tel: +1 866 473 2588

Email: reality@northgateps.com



Reality V15.2

Product Updates

Reality V15.2 service pack released 29th of February 2016

V15.1.0.0156	91339	Allow DB verb to accept lower case commands.
V15.1.0.0157	PF12.8	Resilience Monitoring
V15.1.0.0158	PF6.19	Release HyperFiles
V15.1.0.0159	091348 091362 091350	Enable multi clean log delete from tlmenu
V15.1.0.0162	85710 90244 91328 91329	V15.2 DataBasic enhancement including FORMAT, MATCH{ES} and MATCHFIELD.
V15.1.0.0163	91335 90666 91364 91365	Supply the password definition feature
V15.1.0.0164	85549 85842 85840 91248 85717	Productise the DataBasic debugger module trap CDE.
V15.1.0.0165	85859	Productise the DataBasic dump enhancement.
V15.1.0.0166	3.17.1	Simple DataBasic Email API
V15.1.0.0169	----	Enable Internal DataBasic Objects with JSON interface. Trial Only
V15.1.0.0171	91000	Link default DataBasic compiler to user environment.
V15.1.0.0172	91277	SYS-UPDATE leaves T-DEVICE assigned.
V15.1.0.0200	V15.2	Reality 15.2 Release

V15.2 Product Updates

The following fixes were released on 4 May 2016

V15.1.0.0173	85863	Only display the extended VARVALTYPEs when configured to do so.
V15.1.0.0174	85867	Allow SEL-RESTORE of spooler items.
V15.1.0.0175	85862	Stop Reality crash when reading index after file save.
V15.1.0.0201	91371	Remove spurious "Password rejected" message from CREATE-ACCOUNT.
V15.1.0.0202	91368 91369 91370 91366 91378 91380	HyperFiles: Fix copy file handle in DataBasic. Fix for case insensitivity. Suppress RENAME-FILE and MOVE-FILE.
V15.1.0.0203	91373	Fix JSON parser when string starts with [. Fix missing "," after array definition. Allow creation of null fields. Fix bug in number detection in parameters. Fix GPF when returning long string.
V15.1.0.0204	85865	PCL2PDF fails to convert raster graphic when no start GL code present.
V15.1.0.0205	-----	Updates RealHttp API to include RESTful service functions and utility functions
V15.1.0.0206	-----	Add RESTful services to RealWeb
V15.1.0.0207	-----	Incorporate customer feedback to DEFINE-ENVIRONMENT & PASSWORD DEFINITIONS
V15.1.0.0208	91296 91086	RHTTP interface - fix secure sockets connections on all platforms
V15.1.0.0209	91377	Correct DataBasic debugger view of include source with alt file.
V15.1.0.0210	91381	Correct MATCHFIELD with out of range field.
V15.1.0.0211	85866	Correct COPY-LIST (D.
V15.1.0.0212	85873	Correct Unassigned Variable in OPTIMUM-MODULO (L.
V15.1.0.0213	91379	Add CAfile.pem to list of files updated by realclone -u

The following fixes were released on 23rd May 2016

V15.1.0.0214	91388	Allow initial null password in SSM USER field 17 Remote Systems.
V15.1.0.0215	91389	Fix index update for zero length key when numeric descending encoding used.
V15.1.0.0217	91391	LOAD-LANG now effective multiple times
V15.1.0.0218	85858	mkdbase: Fix handling of -F to set frame size. Fix resizing database with alternate SYSTEM modulo. Lock database earlier to prevent access.
V15.1.0.0219	91395 91384	Fix handling of special methods in DataBasic Objects
V15.1.0.0221	91393	Unix: Fix install_fix handling of new Unix files
V15.1.0.0222	91296 91086	Windows: Supply correct .dlls for secure sockets operation.
V15.1.0.0223	91396	Fix various cosmetic issues with SSM Define Password Definitions & Logon msg.

Tel: +44 (0) 1442 232424

www.nps-reality.com

USA Tel: +1 866 473 2588

Email: reality@northgateps.com



V15.2 Product Updates

The following fixes were released on 31st August 2016

V15.1.0.0216	91386	Correct licence expiry + reporting
V15.1.0.0220	91392 91397 91426 85883	Enhance DataBasic Object usage syntax.
V15.1.0.0224	85857	Enable database creation on file systems greater than 1TB
V15.1.0.0225	91400	Improve error handling in SSM (6. Define Password Definitions
V15.1.0.0226	91401 91404 85863	Only display the extended VARVALTYPEs when configured to do so.
V15.1.0.0227	91403	Stop RHTTP_SOAP_REQUEST reporting unassigned variable error
V15.1.0.0228	85876 91405 91406	Enhance OPTIMUM-MODULO to cope with *'s in account and file names.
V15.1.0.0229	91399	Correct the SLEEP until DataBasic code.
V15.1.0.0230	91398	De-reference Qptr into DataBasic catalog item for BVERIFY.
V15.1.0.0231	91407	Correct WRAPUP of BASIC of include item.
V15.1.0.0232	091372 091408 091409	Simple DataBasic Email API with Authentication
V15.1.0.0233	91422	Stop RHTTP functions reporting SESSION_COOKIES as unassigned
V15.1.0.0234	91413	Stop tmenu generating perl warnings when starting TL
V15.1.0.0235	91416	Return the correct resilience settings from listdb
V15.1.0.0236	91419	Extend initial source item verification of LOAD-BNF.
V15.1.0.0237	91423 91303	Stop install_fix generating error message when updating Unix file
V15.1.0.0238	85882	PCL2PDF fails to convert raster graphic with short lines.
V15.1.0.0239	85884	Speed up initial connect to raw partition database.
V15.1.0.0240	-----	Add new script show_fix
V15.1.0.0241	91383	Windows: Stop install_fix -a getting confused about service pack. Always update history record when updating fix.
V15.1.0.0242	91427	Enhance migration of POINTER-FILE to only timeout each remote account once!
V15.1.0.0243	85848	Enable sizemon to calculate new modulo for files larger than 2GB.
V15.1.0.0244	91402 91412	Enable mkdbase to change frame size when Vendor Emulation set
V15.1.0.0245	91394	Allow Hyper Files to open QPTRs and remote files

V15.2 Product Updates

The following fixes were released on 20th March 2017

V15.1.0.0095	85790	Enable error recovery after failure to generate ROS index key
V15.1.0.0247	91436	Enable DR restart after master TL-STOP START
V15.1.0.0248	91437 91420 91418	Speedup and add active list support for CSV-COPY.
V15.1.0.0250	85888	Handle error if password definition file missing from database or Denat.
V15.1.0.0251	91444	Add additional tests for an empty stack in English conversions.
V15.1.0.0252	85861 91414 91410	Isolate Basic Debugger from External and Embedded DataBasic contexts.
V15.1.0.0253	85891 85895	Add new priority 2 SYSMAN only LOGOFF-ALL TCL commands. Enable logoff of port waiting on item lock.
V15.1.0.0254	91447	Enable realdbck on windows to use cache size greater than 0.5GB
V15.1.0.0255	91450	Improve error handling around 2GB max workspace size.
V15.1.0.0256	85893	AIX Linux fix handling of ANALYZE after DataBasic PAUSE statement
V15.1.0.0257	85894	Add filter to stop multiple DataBasic error dumps
V15.1.0.0258	91448	Correct RND with requested numbers > 32k.
V15.1.0.0259	85896	Correct possible memory leak in index code.
V15.1.0.0260	85897	Opening files with indexes to named common can cause a core dump after a LOGTO.
V15.1.0.0261	91155	Fix killreal -l and netadmin permissions problems
V15.1.0.0262	91451 91452 91474	Fix problems with DataBasic string numbers in CAT, CRT, NUM, ABS, INT, NEG and FOR.
V15.1.0.0263	91453	Enable core dumps on Windows
V15.1.0.0264	85860	Stop minor state being cleared when process still waiting
V15.1.0.0265	91456	Serial number installation enhancements
V15.1.0.0266	91456	Serial number installation enhancements
V15.1.0.0267	91457	Correct MCBX conversion when string is (8x)+1 characters long.
V15.1.0.0269	85901	Use frame size in calculation of STAT-FILE data definition of new modulo.
V15.1.0.0270	91465	Fix realfuser core dump on AIX
V15.1.0.0271	91466	Allow empty object in JSON document
V15.1.0.0272	-----	Fix problems in RHTTP ENCODE DECODE PARSE URL
V15.1.0.0273	91466	Enable HTTP-SERVER to be shut down cleanly
V15.1.0.0274	91468	DataBasic READT, WRITET not taking ELSE clause if unassigned tape.
V15.1.0.0275	91471	Add error handling to MCNP output conversion.
V15.1.0.0276	91472	Correct display of SSM 2) Define User Profile 7) Default Account Name.
V15.1.0.0277	91469 91476	Speed up installing fixes on database
V15.1.0.0278	85898	Add PLID to SamPortNew max ports warning
V15.1.0.0279	85908 85910	Fix PCL2PDF GL x axis scaling. Fix slope calculation.

Tel: +44 (0) 1442 232424

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USA Tel: +1 866 473 2588

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V15.2 Product Updates

The following fixes were released on 17th August 2017

V15.1.0.0280	85906	Add Verbose display option to BUILD.PRINTERS.
V15.1.0.0281	91480	Various paths through the DataBasic FOR code treat a zero step differently.
V15.1.0.0282	91481	Report session licence expiry on logon + fixes to expiry reports.
V15.1.0.0283	91482	Allow LICENCEGRACEPERIOD to be superseded
V15.1.0.0284	85905 85913	Windows: Fix malloc arena corruption causing core dump
V15.1.0.0285	85915	Updating very badly sized AFS file can lock up holding group lock
V15.1.0.0286	91485	Fix problem causing occasional duplicate items
V15.1.0.0287	85911	Allow the PASSWORD command to go interactive if run from a program.
V15.1.0.0288	85914	Cannot break multithreaded trestore using ^C
V15.1.0.0289	91486	Fix SIGSEGV for 'SYS xxx' by user level 0 1
V15.1.0.0290	91367	Provide server to port mapping feature PF11.6.1
V15.1.0.0291	85918	Enable TL-RESTORE to clear restoring status when it exits.
V15.1.0.0292	91360	Prevent database owner impersonation.
V15.1.0.0293	-----	Changes to allow onsite Reality build with UXC 2.2
V15.1.0.0294	85921	Reduce memory usage of fsr
V15.1.0.0295	85920	Suppress 'Post connection failure' messages in daemon.log when no verification required.
V15.1.0.0297	85919	Add option to CATALOG to suppress full path expansion of a Q-pointer source.
V15.1.0.0298	85922	Add item name to error 402 if called from DataBasic.
V15.1.0.0299	91490	Reject sentence macros with same format as data definition.
V15.1.0.0300	85923	Fix LOGON port after it has died
V15.1.0.0301	91456	Serial number installation enhancements
V15.1.0.0302	85926	Enable use of REALLOGLEVEL in realityrc file on Windows, with fix 303
V15.1.0.0303	85926	Reduce swamping of daemon log with TERMRD errors, with 302
V15.1.0.0305	85881	Diagnostic to resolve multi-threaded restore issues
V15.1.0.0306	85924	Allow DBSTART proc to run when password on SYSMAN account
V15.1.0.0307	85928	Enable trestore on Windows to restore large images
V15.1.0.0308	85929	Stop http probe test causing realserv to fail.
V15.1.0.0310	85932	Prevent unnecessary DataBasic garbage collection.
V15.1.0.0311	85933	Correct T-DUMP T option.

The following fixes were released on 15th May 2018

V15.1.0.0296	49260	Trigger CDE.
V15.1.0.0312	85935	tlmenu: Enable copy restore of all logs in recovery mode
V15.1.0.0313	91493	Activate DataBasic split screen debugging.
V15.1.0.0314	91494	Correct minor SQLM bugs.
V15.1.0.0315	91501	Stop MOVE-FILE black holing file if destination is access protected.
V15.1.0.0316	85851	Correct ROSFS case insensitive llock handling.
V15.1.0.0317	85936	Fix issue logging on to specified port
V15.1.0.0318	85937	Allow REMOVE and REMOVE.POS to work with a numeric variable.
V15.1.0.0319	91507	Correct File despooler with multiple jobs.
V15.1.0.0320	91508 91511	Correct DataBasic debugger hex display of package and other variables.
V15.1.0.0322	85940	Fix Err 14 abort during LOGOFF, due to ACCESS(16) on named common file var.
V15.1.0.0323	85941	Fix issue of Reality core dumping in log off

Tel: +44 (0) 1442 232424

USA Tel: +1 866 473 2588

www.nps-reality.com

Email: reality@northgateps.com



V15.2 Product Updates

V15.1.0.0324	85939	Fix realdump not deleting shared memory on exit
V15.1.0.0325	85942	Resolve issue with time in milliseconds wrong around midnight.
V15.1.0.0327	85943	Remove diagnostic fix 0305
V15.1.0.0328	85944	Fix unassigned variable error in PCL2PDF
V15.1.0.0329	91513	Fix build menu when unpacking libraries
V15.1.0.0330	85946	Fix issue with SQLSRVR logging off when rowset exceeds 100 rows
V15.1.0.0331	85949	Prevent cloned instance connecting to database in base instance
V15.1.0.0333	91521	Correct date picture conversion code.
V15.1.0.0334	91519	Cannot bind database on Windows
V15.1.0.0336	85948 85945	Fix DR delay between clean logs. Fix saving of recovery file.
V15.1.0.0338	85951	Avoid deleting clogs if not successfully saved

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USA Tel: +1 866 473 2588

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