

Reality v11.0.1

Release Information

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## Document control

Software Version	Document Status	Document Revision	Issue Date	Reason for Change
V11.0.1	Published	v0.1	May, 2005	Final draft



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# Section 1: Introduction

Reality is a software environment that supports multiple databases on a single host and includes a range of powerful utilities for building, managing and accessing the databases.

The release information in this document applies to Reality V11.0.1 for UNIX and Windows. Reality V11.0.1 adds new features and enhanced compatibility with similar database systems. Faults reported since Production Release of Reality V11.0 have been resolved. See New Features in Reality V11.0.1 (page 11) and Fault Resolutions (page 14) for more details.

Reality V11.0.1 is supplied on two CDs. Included on the first CD are:

- The Reality database software.
- User Documentation
- UNIX-Connect networking software that provides communications between Reality databases and between Reality and host system environments.
- Reality Remote Tape server software that allows a Reality host to use tape units on remote systems.
- PCSNI client software that allows communication between a PC and a Reality database.
- JReal client software that provides the Java programmer with the ability to run Remote Basic subroutines and to write custom servlets to access a Reality database via RealWeb.
- Reality Explorer client software that plugs in to Windows Explorer to provide a graphical view of a Reality database.
- RealWeb client software that provides a Web developer with DataBasic experience with access to data held in a Reality database.
- RealSQL-JDBC Driver client software that provides a standard API for Java applications, applets and servlets using SQL to access data.
- RealSQL-ODBC Driver client software that allows PC applications to access data using SQL.
- WinSQLM client software that assists in creating SQL tables based on existing Reality dictionary definitions.
- RealEdit a Reality editor that runs on Windows PCs.
- Reality and RealWeb demonstration software.

The second CD contains the Reality GUI Administration tool, including the:

- GUI Administration server.
- Client configuration utility.
- Client deployment service. This version of the software supersedes all previously released versions. NEC policy is to withdraw support for previous versions six months after a new release. The relevant date for this software can be obtained from your NEC representative or the NEC web site, www.nec-is.com/reality.



# Section 2: Related documents

Reality is supplied with comprehensive on-line documentation for viewing in a web browser. Refer to the Document Directory in the on-line documentation for details.



# Section 3: Packaging

All the software comprising this release is supplied on the installation CDs, with electronic versions of all documents (including this one).

The first installation CD contains the following components.

Software	Version
PDS History Tool	V11.0
Reality	V11.0
User Documentation	V11.0.1
UNIX-Connect)	V1.4.3
Reality Remote Tape	V11.0
Reality Explorer (client)	V1.0.1
Reality Explorer Help (client)	V1.0
PCSNI (client)	V2.3.1
JReal (client)	V3.1
RealSQL-JDBC Driver (client)	V1.0.1
RealSQL-ODBC Driver (Windows client)	V2.5
RealSQL-ODBC Driver (UNIX client)	V2.5
RealWeb HTML (client)	V3.0
RealWeb Servlets (client)	V3.1



WinSQLM (client)	V2.0
Reality Demonstration	V1.0
RealWeb Demonstration	V1.0
WinSNI Configuration Editor (client)	V1.0
RealEdit (client)	V1.1.1
TCP Bridge	V1.0.1
Service pack	V11.0.1

The second installation CD contains the following components.

Software	Version
GUI Administration Tools	V2.0
Installation Guide for GUI Administration Tools	V2.0



# Section 4: Prerequisites

## 4.1 Reality on UNIX

### One of the following:

- SUN Sparc running Solaris 2.6, 7, 8, or 9.
   IBM P Series (RS 6000), running AIX 4.3.3 & 5L.
   Hewlett Packard PA-RISC running HP-UX 11i.
   PC with Intel Pentium processor or equivalent running Red Hat Linux version 7.2 or 9, or ES/AS versions 2.1 and 3.
- 128Mb RAM minimum (512Mb recommended), plus 2-6Mb per Reality User. See also Memory on page 7.
- 500 Mb of available space to accommodate setup (actual hard disk used once installed will be between 220Mb and about 350Mb, depending on the system components installed).
- Korn shell.
- Perl this is supplied with AIX, HP-UX and Linux (on HP-UX some configuration is necessary – contact NEC for details). On Solaris, Perl is installed when you install Reality.
- UNIX-Connect for networking (supplied on the Reality CD).
- NEC Customisation (a CD is available for SUN for other operating systems, contact NEC).
- C compiler (on Solaris, if a C compiler is not available you can install the GNU C Compiler from the NEC Customisation CD).

#### 4.1.1 UNIX-Connect

'rosi' UNIX user id with a home directory on a file system with at least 25 Mbytes free.

## 4.2 Reality on windows

• PC with Intel Pentium processor or equivalent, 200MHz or faster, running Windows NT 4.0 SP3+, 2000 SP1+, XP Home Edition or XP Professional Edition.

#### Note

- Reality is not available for Windows 95, 98, 98 SE or ME, though many of the client components can be installed on Windows 98 (refer to the Reality Client Components, Installation Guide for details).
- Reality is not currently certified on Windows XP SP2, though this is subject to review. For the latest information, refer to the Reality pages on the NEC portal (http://www.necis.com/reality).
- 64Mb RAM minimum (128Mb recommended), plus 2-6Mb per Reality User. See also Memory below.
- 500Mb of available disk space to accommodate setup (actual hard disk used once installed will be between 150Mb and about 350Mb, depending on the system components installed).
  - It is recommended that Reality is installed on an NTFS partition.



- The Reality database can be loaded on to a Primary Domain Controller, Backup Domain Controller, stand-alone member server or WorkStation.
- NEC can take no responsibility for the processor and memory requirements of other applications running on a Windows server. Ideally, Reality should be loaded on a dedicated server.
- Reality backup and restore is supported on 4mm, 8mm and DLT tape units.
- Using at least a dual processor system is highly recommended.

# 4.3 Memory

Reality memory usage is difficult to predict, but as a rough sizing guide use 128Mb for the system and then 2Mb to 6Mb per user, depending on type of user and application. Performance problems are generally caused by lack of memory. If the server is not dedicated to Reality, then other application memory requirements must be added to this.

# 4.4 Foreign database support and SQL view

These features require a working ODBC installation, with appropriate ODBC driver(s), on the Reality system.

## 4.5 Client components

#### Note

The Reality Client Components are not currently certified on Windows XP SP2, though this is subject to review. For the latest information, refer to the Reality pages on the NEC portal (http://www.nec-is.com/reality).

#### 4.5.1 RealWeb

- A web server with support for Java servlets. (This can be on the same system as the Reality database or on another system.) On web servers that do not support servlets, plug-ins can be used to add servlet support.
- Java Run Time Environment (JRE) version 1.2 or above. If this is not available, it can be downloaded from java.sun.com/j2se/.
- If you are connecting to a Reality database on a UNIX host, the host will require UNIX-Connect.

## 4.5.2 RealSQL-JDBC driver

- Java Run Time Environment (JRE) version 1.2 or above. If this is not available, it can be downloaded from java.sun.com/j2se/.
- If you are connecting to a Reality database on a UNIX host, the host will require UNIX-Connect.

## 4.5.3 Reality explorer

- Microsoft Windows 98, NT4.0, 2000 or XP (Home or Professional).
- NEC PCSNI software V2.2 Rev C or later.



- A Winsock compliant TCP/IP transport stack for TCP/IP connections.
- If you are connecting to a Reality database on a UNIX host, the host will require UNIX-Connect.

#### 4.5.4 RealEdit

- Microsoft Windows 98, NT4.0, 2000 or XP (Home or Professional).
- NEC PCSNI software V2.2 Rev C or later.

## 4.5.5 RealSQL-ODBC driver

- Microsoft Windows 98, NT4.0, 2000 or XP (Home or Professional).
- NEC PCSNI software V2.2 Rev C or later.
- Any ODBC Level 1 or 2 compliant application.
- A Winsock compliant TCP/IP transport stack for TCP/IP connections.
- If you are connecting to a Reality database on a UNIX host, the host will require UNIX-Connect.

The PC applications and transport stacks use large amounts of memory. It is therefore essential that PCs running this package are configured for the optimum use of memory, otherwise it is possible that GPFs and other memory type errors will occur.

## 4.5.6 WinSQLM

- Microsoft Windows 98, NT4.0, 2000 or XP (Home or Professional).
- NEC PCSNI software V2.2 Rev C or later.
- A Winsock compliant TCP/IP transport stack for TCP/IP connections.
- If you are connecting to a Reality database on a UNIX host, the host will require UNIX-Connect.

#### 4.5.7 Remote tape server

Any UNIX or Windows system that supports Reality.

## 4.6 Online documentation

The on-line documentation can be installed on a web or file server, or on individual PCs running Windows 98, NT 4.0, 2000 or XP. On Windows systems, it can also be viewed from the Reality CD.

To view the on-line documentation, you will require one of the following web browsers:

- Internet Explorer 6.0 (PC only).
  - Netscape 7.x (PC or UNIX).
- Mozilla 1.5, 1.6 or 1.7 (PC or UNIX).
- Mozilla Firefox 1.0 (PC or UNIX).

Internet Explorer is recommended.

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#### Note

You can also view the on-line documentation on some earlier versions of the above browsers. A message will warn you that your browser is not fully supported.

#### 4.7 GUI administration tools

#### 4.7.1 GUI administration server

The GUI Administration server will run on most platforms that support Reality V11.0, subject to the following additional requirements:

#### 4.7.1.1 UNIX and windows

- Reality V11.0 or later.
- Java V1.4.1\_02 or later. (Versions of the JRE suitable for Windows, Linux and Solaris are supplied on the CD.)

#### Note

Java V1.4.1\_02 is not available for Solaris 2.6 and 7.

- 256Mb RAM minimum (512Mb recommended), plus 2-6Mb per Reality User.
- 5MB free disk space, plus space for JRE (around 40-50Mb for Java V1.4.1 02).
- TCP/IP network.

#### 4.7.1.2 Windows

- 500MHz or faster processor.
- Windows XP + SP1, Windows 2000 + SP3 or Windows NT 4.0 + SP6.

#### **Note**

The Reality GUI Administration Server is not currently certified on Windows XP SP2, though this is subject to review. For the latest information, refer to the Reality pages on the NEC portal (http://www.nec-is.com/reality).

### 4.7.2 Client deployment service

The Client Deployment Service will run on the majority of platforms that support Reality V11.0 and later, subject to the following additional requirements:

#### 4.7.2.1 UNIX and windows

- Web server (it is strongly recommended that you use the web server supplied with Reality).
- 128 MB Memory (256Mb recommended).
- Java V1.4.1\_02 or later (versions of the JRE suitable for Windows, Linux and Solaris are supplied on the CD).
- 80MB free disk space (includes around 40-50 MB for JRE).
- TCP/IP network.



## 4.7.2.2 Windows

- 500MHz or faster processor.
- Windows XP + SP1, Windows 2000 + SP3 or Windows NT 4.0 + SP6.

#### Note

The Reality Client Deployment Service is not currently certified on Windows XP SP2, though this is subject to review. For the latest information, refer to the Reality pages on the NEC portal (http://www.nec-is.com/reality).

## 4.7.3 Client configuration utility

Java V1.4.1\_02 or later (versions of the JRE suitable for Windows, Linux and Solaris are supplied on the CD).

#### 4.7.4 GUI administration client

Any Windows or Linux platform with Java V1.4.1\_02 or later and for which a web-start component is available. The following is recommended:

#### 4.7.4.1 Linux

- 128Mb RAM minimum (512Mb recommended).
- 5MB free disk space, plus space for JRE (around 40-50Mb for Java V1.4.1\_02)
- Netscape 6 or 7, or Mozilla 1.4 or 1.5 (to display on-line help).

## 4.7.4.2 Windows

- 500MHz or faster processor.
- Windows NT 4.0 SP6+, 2000 SP3+, XP Home Edition SP1+ or XP Professional Edition SP1+.

#### Note

The Reality GUI Administration Client is not currently certified on Windows XP SP2, though this is subject to review. For the latest information, refer to the Reality pages on the NEC portal (http://www.nec-is.com/reality).

- 128Mb RAM minimum (256Mb recommended).
- 5MB Free disk space, plus space for JRE (around 40-50Mb for Java V1.4.1\_02).
- Internet Explorer 6.0, Netscape 7, Mozilla 1.5 or later, or Mozilla Firefox 1.0 (to display on-line help).

Suitable versions of Java are supplied on the CD.



# Section 5: New features in Reality v11.0.1

## 5.1 Supported environments

Many of the new features listed below are chargeable options that must be separately enabled with a software key. Contact your NEC representative to obtain the keys you need.

## 5.2 Indexing enhancements

#### 5.2.1 Index validation

A new TCL command, LIST-INDEXES, allows you to validate Reality index definition items against existing indexes. It also reports any index definitions that do not have corresponding indexes.

## 5.2.2 Index repair

The DEFINE-INDEX TCL command has a new option (R) that allows you to recreate an index definition from its associated index. This allows you to recover a corrupt index definition, or one that has been deleted in error.

## 5.2.3 Reality SQL Commands

The Reality SQL command LISTINDEXES has been renamed LIST-SQL-INDEXES to avoid confusion with the new LIST-INDEXES command. Similarly, the SQL command LISTCOLUMNS has been renamed LIST-SQL-COLUMNS.

# 5.3 CSV file support

This optional feature allows Reality to read and write host files in comma-separated format. This format is supported by many host applications (for example, Microsoft Excel, Outlook and Access).

A new keyword, CSV, is now recognised by the MAKE-SPECIAL TCL command. This allows you to create a Reality special view of a host file that contains comma-separated values. Once created, a CSV file can be used in the same way as any other Reality file. A new TCL command, CSV-COPY, allows you copy data from a Reality file into a CSV file created in this way.

## 5.4 WinPrinter support

This optional feature allows you to set up Reality despoolers on Windows hosts to print using the Windows GDI (Graphical Device Interface). This is a high level printer-independent interface that translates the print data into a graphical format that can be printed without further processing by the printer.

To use the Windows GDI, you create a SYS despooler in the normal way, but specify winprinter as part of the printer's name. See, DESPOOLER.CONTROL File Maintenance, Option 2 - Device Name for details.



## 5.5 DataBasic profiler

The DataBasic Profiler is an optional host utility that allows you to:

- Capture and display the DataBasic call stack for any process.
- View the DataBasic call stack as it changes, with details of the time taken to make each subroutine call.
- Capture a profile of a DataBasic application running on any Reality process, with timings of how long each catalogued subroutine is taking and caller information. If required, profiles can be captured in a graphical format that can be viewed with a third-party graphics tool.

This makes it possible to diagnose problems with ports, and to find out where most time and system resources are spent within a DataBasic application.

Refer to Using the DataBasic Profiler for details.

# 5.6 XML support

This optional feature allows DataBasic programmers to extract data from and export data to XML documents.

#### 5.6.1 XML data extraction

Five DataBasic subroutines are provided to extract data from XML documents – you must provide strings containing the XML document and an XML query which specifies the data to be extracted.

## 5.6.2 XML document generation

A single DataBasic subroutine is provided to generate XML documents. Data is copied from a dynamic array into a skeleton XML document (supplied as a string) containing markers that specify the fields required.

# 5.7 MultiValue migration

Reality V11.0.1 has been further enhanced to improve compatibility with other MultiValue systems.

#### 5.8 On-line documentation

## 5.8.1 Mozilla Firefox support

The on-line documentation can now be viewed in the Mozilla Firefox browser (version 1.0 and later).



# 5.8.2 Glossary

The glossary can now also be displayed in the navigation pane on the left of the browser window. This allows you to look up terms and abbreviations without navigating away from the current topic.



# Section 6: Functionality/Features restrictions

## 6.1 All versions

File triggers can currently only be associated with file data sections.

#### 6.2 AIX and HP-UX

The foreign database files and SQL-VIEW features are not available on AIX and HP-UX.

## 6.3 Linux

The UNIX-Connect Simple File Transfer (SFT) utility is not available on Linux.

## 6.4 Windows

Neither Reality nor the client components are currently certified on Windows XP SP2, though this is subject to review. For the latest information, refer to the Reality pages on the NEC portal (http://www.nec-is.com/reality).

### 6.5 On-line documentation

If the help is installed on the local file system and you are using a browser that uses the Gecko rendering engine (Netscape, Mozilla, Mozilla Firefox), on returning to your search results after viewing another topic, they will be unformatted and none of the links will work. This is a feature of the browser's security model. You can work around this by repeating your search.

#### 6.6 GUI administration tool

- The GUI Administration Server is not available for Solaris 2.6 and 7.
- The GUI Administration Tool client is only available for Linux and Windows.
- The GUI Administration Tool will not use any licences in this release. However, NEC reserves the right to change this in future versions of the Reality product.
- When the on-line documentation is viewed in a browser running in the Linux environment, the contents and search tools may not function correctly.



# Section 7: Fault resolutions

Reality V11.0.1 includes resolutions of the following faults:

Fix number	Fault number	Description
0001	49950	Linux: Failsafe link fails when heavily used
0002	49951	Linux: When the failsafe link fails all primary processes lock up
0004	84737	Allow different Item lock models.
0005	49955	After TL-REDUAL completes TL-STATUS continues to show status of redual.
0006	84741	Enhance cursor handling of Lear Siegler terminals to allow addressing beyond column 70 with a QUME terminal.
0007	49956	Enhance error reporting for faulty F conversions when called from DataBasic.
0008	84742	Ensure that files are closed correctly when returning from a PERFORM statement.
0009	49845	Allow SP-QUEUEHOLD (SP-JOBS option 19) to re-queue a KILLED Hold file.
0010	49957	Stop such verbose logging of connection failures and rladm into daemon.log.



0011	84748	Cannot change priority on host systems other than SVr4 based Unix or Windows.
0012	49958	ISTAT mis-reported number of secondary frames.
0013	84743	Enhance error reporting when index updates fail.
0014	49960	Correct possible corruption of workspace 1 to 15 by compilation of DataBasic on byte reversed systems.
0016	49951	When the failsafe link fails all primary processes lock up.
0017	NA	Implement Terminal Independence in RPL – RPQ feature R205.
0018	84751, 84762	Ensure that multiple fixes can be installed using install_fix.
0019	84763	Correct RPL BUFFER OVERFLOW when processing Tfile translates.
0020	84766	Increase the number of PROC select buffers from 10 to 47 and file from 20 to 47.
0021	84767	Stop infinite loop when LISTing file with mix of A and F conversions and S, summation conversion.
0022	NA	Indexing Enhancements: new support tools LIST-INDEXES and DEFINE-INDEX (R).



0023	84770	Reality generates confusing error message when trying to restore a JBase tape with duplicate MD entries.
0024	84757	Caching open DIR-VIEW items causes synchronisation problems on Windows.
0025	49964	Allow DIR-VIEW to work if given a quoted path with spaces.
0026	49849	Enhance the logging of DataBasic Programs and Subroutines, to allow profiling.
0027	84771	Add J option to ACCOUNT-RESTORE to allow jBASE tapes to be restored on Reality. Allows overwrite of non-dptr MD items by CREATE-FILE.
0028	84769	Add J option to FLOPPYTOTAPE to allow jBase tape images to be converted to Reality tape images.
0029	84768	Enhance TAPETOFLOPPY to convert Reality tape blocks to pseudo floppy blocks of 500 bytes.
0030	84490	Add CONTINUE, BREAK & EXIT syntax to LOOP processing in DataBasic.
0031	84490	Add CONTINUE, BREAK & EXIT, RTNLIST to EXECUTE, ON or TO to WRITES & EQU nn to @(-n) to DataBasic compiler.
0032	84779	Add the @ conversion to F and A codes.
0033	84780	Correct mkdbase -r operations.



0034	84783	Stop core dumps during terminal IO.
0035	84785	Trap rather than abort on additional invalid internal date conversions.
0036	84753, 84787	Failsafe link fails unexpectedly on Windows systems.
0037	84789, 84790	Enhance MIGRATE.ACCOUNT to check for account reload and process jBASE data.
0038	84794	Stop RPL Buffer overflow messages.
0039	NA	Patch to supply CSV file access feature.
0040	84788	AFS expands files to above 16 million groups, which can then not be saved/restored.
0041	NA	WinPrinter support.
0042	84796	Can now TANDEM and take control of target without target keyboard input.
0043	49971	Cannot logon to admin server on AIX. Admin server fails when changing logging level.
0044	49972	ISTAT (U – N command generates wrong results when used with AFS files.
0045	84803	Add E and F options to FLOPPYTOTAPE to allow mvEnterprise tape images to be converted to Reality tape images.



0046	84804	Enhance RESTORE to allow mvEnterprise G, P, B, F and L segments to be restored onto Reality.
0047	49952	Remote files write errors are not reported back to user.
0048	84781	tlrestore does not notice when clean log is corrupt.
0049	NA	XML Parser and Generator feature.
0050	NA	DataBasic API for XML Parser and Generator feature.
0051	84806	SQL server aborts at 3354,694 with "Address compatibilty error" when inserting into an exploded multi-value column. Application sees -virtual circuit reset by remote side error.
0052	49978	Reality TIME on AIX ignores actual timezone during summer daylight saving time.
0053	NA	Enable XML Parser and Generator feature.
0054	84809	Allow PQN L command to support both 'text' and "text".
0056	49945, 49979	Ensure that mkdbase can have an alternate drive letter specified and that if icon is changed on folder that permission denied is not reported.
0057	49980	Installing Reality on RedHat ES4 – central daemon fails to start.



0058	49974	Stop touch warnings during on site build on Linux Redhat 7.2/ES2.1.
0059	49974	Stop touch warnings during on site build on Linux Redhat 9/ES and AS 3.
0060	49982	TANDEM to background Reality process can cause it to log off.
0061	84813	Modify modes to allow the addition of an optional field number to the DataBasic SENTENCE function.
0062	84814	Correct the operation of the DELETESEQ statement in mvEnterprise mode.
0063	84815	Implement new set position/set limit features for MV Enterprise and add ISELECT and ICOUNT verbs.
0064	84817	Allow MATREAD and MATWRITE to work with arrays and vectors.
0065	49981	Basic profiler problems – name clash with perform and program name, truss output when STOP in subroutine, handling of quotes in PERFORM string.
0067	84818	Correct transaction handling when logging off.
0068	84820	Allow a simple form of MultiValue mapping for the @(-n) DataBasic function.
0069	84813, 84821	Enhance SENTENCE function and EXECUTE statement. Add new internal



		literals @WHO and @USERNO. Add STACKING as a keyword.
0070	84822	Add virtual handling to allow Reality to process the mvEnterprise READ{NEXT/PREV} KEY code.
0071	84824	Ensure tlmenu can communicate with Reality V10.0.
0072	49638, 84760	SQL-VIEW: allow no data columns, support "*" in column list.
0073	84827	Allow SSELECT to work with active exploded lists.
0074	84810	ISTAT gives incorrect item count. ISTAT (U now shows progress, has correct total size for large files, has h command for changing hash type.
0077	84823	RntsNetSend() failures, error 48004.
0078	84783	Core dumps during write buffering.
0080	84827, 84815	Enhance ISELECT and SSELECT to handle exploded and non-exploded terms.
0081	84829, 84830	Correct handling of security profiles and auto creation of tables via SQLM.
0082	49986	SELECT-INDEX is very slow for complex index keys.
	49943	Documentation does not display correctly in Linux browser.



# Section 8: Third-party products

The following third-party products may be included with Reality (depending on the operating system):

- Perl scripting environment (GNU Software Foundation)
- Gzip compression software (GNU Software Foundation)
- GNU C-complier (GNU Software Foundation)
- Gdb Debugger (GNU Software Foundation)
- Adobe Acrobat document reader (Adobe Systems Inc.)
- TomCat web server (Apache Software Foundation).

The following third-party products are used within Reality:

- GNUmalloc (GNU Software Foundation)
- Zlib compression library (GNU Software Foundation).



