

Reality v15.1 Update

Introduction

Welcome to the **V15.1 Reality** revision update.

We are pleased to announce this **significant update to V15.0 in what is the 40th year** of continual development and innovation. This update demonstrates **the ability to enable continual incremental change, driven by user needs – now and in the future.**

Since the first MultiValue commercial release the product set has continued to grow in functionality. Always retaining the key aims of providing a highly **scalable, resilient** and **cost effective database, programming and operating environment.**

Features of the V15.1 Update

DataBasic Object Server – DBO

The DataBasic compiler now includes access to object orientated language syntax. V15.1 includes Java syntax, including examples of how open and commercial external Java applications can be used.

Mounting of Physical Save Tape Images as a Database

When deploying fast on-line database save images these can now be mounted as a database. This can then be used to selectively restore data from and even access as a "read only" database.

DataBasic enhancements...

- New Exception Handler for use with the above DBO and for general application use, giving you more control for handling runtime networking and other runtime exceptions.
- REMOVE statement now contains more efficient options for string extraction and is MV compatible for "end of" and restarting search pointers.
- BASE64 is now new "method 6" for ENCRYPT and DECRYPT functions – also available as B64 conversion code from English.
- PERFORM "SYS" of platform commands and capturing the output has significantly improved performance.

- SQUOTE and DQUOTE can now use binary data. Global Reality SYSTEM functions, REAL.SYSTEM() and REAL.ACCESS() for Reality numbering of features in any selected MV runtime environment.

Other Enhancements

- Floppy tape format definable size "disk segments" - so you can split data over multiple tape image files.
- English BSELECT/SELECT matching and extending MV variants.
- Key System files are now automatically sized

Reality 40th year (1973-2013)

Reality provides a Pick/MultiValue, NoSQL or SQL- enabled Database, Operating and multi-language Programming environment, maximizing existing technologies and ensuring that customer needs are met now and in the future.

Reality MultiValue compatibility covers:

A Simple Migration Process

Using standard saves from MultiValue systems.

Manageable MV Environments

Select the required default MV emulation when installing Reality, or define which is required when each database is created.

Case Insensitivity

This is definable for each database on a system.

MultiValue Features & Enhancements

Many MV features have been assimilated into Reality.

The Documentation set has a dedicated MultiValue

section covering functionality and the migration process. **Refer to the Reality Website for the latest overview** and steps involved when migrating from other MultiValue platforms.

Other Key Features of your Reality:

Maintaining the original highly efficient virtual machine concept, Reality has undergone development based on the future needs of both our existing and growing user base.

Interoperability using integrated **ODBC/JDBC SQL** (including accessing external SQL sources and exposing Reality as a SQL database), **Web Services** (incoming and outgoing), **XML Parsing, HTML Interfaces via DataBasic & English, TCP/IP Sockets**. Remote calls can also be made in order to provide integration with open Java applications and Microsoft Visual Basic C/C++/C# and .net.

Reality, Safe & Secure

Areas include **Data Encryption** and remote **Disaster Recovery**, along with built-in highly efficient local **Transaction Logging** to full **FailSafe** redundant systems.

Keeping up with Previous Releases:

For further details use the link below to the Reality Website under the Product tab. You will find a Feature Catch-Up Briefing covering the many functionally rich releases that you may not be familiar with – e.g. **Fast on-line database image backup** and recovery, data **encryption at rest, HTML from English** reports, automatic **System and Application error alerts, DataBasic runtime profiler** and command stack trace...

Advanced User Documentation:

Exemplified Web browser-based content that is viewable from the product delivery image with latest updates always on the Website. The Documentation set is installable on any File or Web Server including the built in Reality mini Web Server.

One-click feedback can be sent via email in order to help us maintain current and highest quality content.

Evaluation License:

A free 3-user download for evaluation and non-commercial use is available from the dedicated Reality Website

Reality on Windows loads with a simple install that then creates a demo database **including SQL and DataBasic/ RealWeb** (HTML/GUI Interface) **examples**. All Reality UNIX platforms also include the same evaluation license on the single download ISO file delivery. **A Web Services** evaluation is available as a separate evaluation download.

Supported Host Platforms

UNIX – 64bit Architecture

SUN/SPARC running Solaris 11, 10 IBM pSeries running AIX 7 & 6

Linux – 64bit Architecture

Intel x86-64 running:

Red Hat ES 6 & 5 commercial release CentOS 6 & 5 “open” S/W

Windows – 32bit & 64bit Architecture

Intel x86-32 & 64 running: Windows 8.1, 8, 7, XP
Server 2012, 2008, 2003

Reminder of V15.0 Features

The following is an indication of new features and enhancements introduced with V15.0.

- **Outgoing Web Services, accessing external services**
- **64-bit delivery for all platforms**
- **Automatic Indexing for Remote Q/pointers**
- **SQL 64Bit ODBC & 2.5 API Level 2 “highest level”**
- **Ready to use in the Cloud Environment**
- **MV Compatibility Enhancements**
- **Windows Database I/O Performance Enhancements**
- **Item time stamp now to the second**
- **Configurable Date Window, for 2 digit year output**
- **DataBasic and Debugging new features**
- **Indexing setup and application level enhancements**
- **TCL, new Macros, command Stacker & Logging**

► **Global Logon Process & MD, Alternate MD**

For full details refer under the Contents of the Documentation set, under Other Documents, Difference Documents, and then Reality V15.0.

Over 50 new and enhanced features since V14...

... providing a future proof NoSQL, but SQL enabled MultiValue platform.


Reality Website:

This **provides the latest product updates and news**. With the many growing number of business, general IT and MultiValue newsgroups, and social media feeds, the Website aims to pull together all key items in order to enable us to remain current with what matters to our VARs and customers.

reality.necsws.com

UK Tel: +44 (0) 1442 232424 USA Tel: +1 866 473 2588

Email: reality@necsws.com Email: realityusa@necsws.com



About NEC Software Solutions

Our customers change lives, so we create software and services that get them better outcomes. By innovating when it matters most, we help to keep people safer, healthier and better connected worldwide.

NECSWS.com

1st Floor, Bizspace, iMex Centre,
575-599 Maxted Rd,
Hemel Hempstead HP2 7DX
+44 (0)1442 768445

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