

Reality V15

... future proof MultiValue

Introduction

Welcome to the latest, future proofed release of **Reality** from **Northgate Information Solutions**. A release designed to enable on-going incremental change, driven by user needs – now and in the future.

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

Key Features for V15:

- **Outgoing Web Services**
Adding to the incoming interface, Reality applications can now access external third party Web Services using an integrated framework.
- **64-bit Performance Delivery on All Platforms**
Extending the original Reality Pick *virtual machine* this provides for wider host platform compatibility, larger data addressing and higher performance without application changes.
- **Automatic Indexing for Remote Q/Pointers**
The enhanced features of automatic file indexing are now deployable across multiple systems using standard Q/Pointers.
- **SQL 64Bit ODBC& 2.5 – API Level 2 “highest level”**
Delivering the Reality key interoperability aim of remaining current with viable SQL integration needs. Drivers are available across all platforms, with open source Driver Managers also being available.
- **Ready to use in the Cloud Environment...**
The Reality feature set lends itself to Managed Service and Cloud deployment. It includes definable MV and SQL environments, local and remote databases with built-in Transaction Logging and highly resilient options of Shadow, FailSafe to full remote site Disaster Recovery.

Other Key Features of your Reality...

While maintaining the original highly efficient virtual machine concept, Reality has undergone 40 years of 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, 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.



The Golden MultiValue Solution

Reality's MultiValue compatibility covers:

- **Simple Migration Process**
Using standard saves from MultiValue systems.
- **Manageable MV Environments**
Select the required default MV emulation when installing Reality, or define that required as each database is created on the host platform.
- **Case Insensitivity**
This is definable for each database on a system.
- **MultiValue Features & Enhancements**
Many MV features have been assimilate into Reality.

You too can go for gold, migrate to Reality !

The documentation set has a dedicated MultiValue section covering functionality and the migration process. Also refer to the Reality Website for the latest overview and steps involved when migrating from other MultiValue platforms.

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.

V15 Enhancement List Includes...

- **Windows Database I/O Performance Enhancements**
Working more efficiently with recent Windows platforms has returned significantly enhanced database performance.
- **Item time stamp now to the second**
New Item structures now provides the time as well as date of each database Item update available to users.
- **Configurable Date Window**
In order to prevent repeating the *millennium bug* the century change is now configurable for two digit years.

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Additional V15 Features:

Compared to V14.0 you will find many improvements covering: **MV Compatibility**, **SQL 2.5 Compliance**, **DataBasic** features and conditional compilation, **Indexing** setup and application use, **TCL** features and new command **Macros**, general database and platform setup...

Keeping up with Previous Releases:

For further details use the link below to the Reality Website under Product. 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 stack trace...

Advanced User Documentation:

Exemplar 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. New for V15, the documentation is now authored using the leading industry standard MadCap Flare© suite for more flexible browser use.

Evaluation License:

A free 3-user download for evaluation purposes 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, 7, XP
Server 2012, 2008, 2003

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...Continued V15 Enhancement List

- **DataBasic**
Enhancements include **Named Common** display and reset, **EQUATE LITERALLY** keyword, **ACCESS Function** emulation of User Exits, File I/O returns path and other information, **External Functions** definable by users, **Runtime history logs** of when compiled, catalogued and optionally also when run. **Analysis** of usage of subroutines and external functions. **Dynamic Array handling** now includes data comparison as well as containing pairs of commands and user responses that can be **PERFORMed**. **DIMENSION & COMMON** now with specified size and using symbols. **Intrinsic Functions** allow arithmetic, string and logical comparison as well as string formatting on array elements. Plus general enhancements including to: CHANGE & SWAP, TRIM, OUT...
- **DataBasic Debugging & Error Handling – including**
Debugger now provides complete line number including **INCLUDEs**, field display and change, **unassigned variable now includes name of variable**, **SYSTEM(0)** to identify Item locking port, **PRINT-CATALOG** has added information – e.g. compiler and environment.
- **Indexing**
Enhancements to **ICOUNT**, **SELECT**, **AND** operator, **SELECT-INDEX**, **POSITION**, **LIMIT.INDEX**...
- **TCL Macros, Stacker & User Logging**
TCL commands can now be built into defined macros with or without user intervention prompt commands. The TCL stacker includes further enhancements for command filing, restore and logging for support and/or auditing use. With logging updates including **TCL**, **DataBasic**, **SQL** and **Proc**.
- **Global Logon Process & MD, Alternate MD**
A global logon can now be defined using a **Proc**, **Program**, **TCL Menus** and **Macros**. Also **TCL** commands can now be accessed from an alternate **Verbs** file and **global MD**, which can be enforced on users.
- **WHAT Verb, reintroduced**
The new form provides a complete range of Reality and underlying host platform system details. Always send the output of this with any support request, along with that of **SYSINFO**.

Over 50 new and enhanced features since V14...

Reality Website:

A new website compliments V15 **providing the latest product updates and Reality news** from Northgate, our resellers and end users. 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.