



realisable

REALISABLE IMAN

WHAT'S NEW IN V3.0

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WEBSERVICE SUPPORT

A major focus of this version is to provide generic support for REST based webservices. The support provides the ability to consume and write to REST Xml & JSON based webservices.

This version also adds the ability to perform lookups against REST services.

NOTE: This REST webservice support applies only to Xml & JSON formats. CSV, Fixed Width and Excel are not supported (yet).

WEBSERVICE AUTHENTICATION

The ability to authenticate with Basic & OAuth 2.0 protected services has been added.

Both authentication types are maintained in the new Webservices setup area of IMan.

Basic Authentication

Basic Authentication is simple username and password where the authentication credentials are embedded in the HTTP header.

OAuth 2.0

OAuth 2.0 is a more sophisticated (but much more complex) method of authentication where the client requests from the server a token providing access to a specified set of resources.

OAuth 2.0 is most commonly seen when you add applications to your phone or Facebook.

In this version we have provided support for Implicit (Two-Legged) authentication.

Three-legged authentication (Authorisation Code) is not supported (yet).

WEBSERVICE BEHAVIOURS

A webservice behaviour allows the grouping of common functionality, typically associated with a single website or webservice, such as the site or base url, authentication and other features together.

The webservice behaviour is found in the Webservices setup area of IMan.

HTTP CONTROLLER IMPROVEMENTS

Authentication

Provided by the settings in the Webservice Behaviour both read and write HTTP requests can be authenticated using either Basic or OAuth authentication.

Insert/Modify Write Support

When writing data the HTTP controller allows you to specify separate insert and modify URLs. Both insert and modify allow you to specify the accompanying HTTP operation (POST, PUT, PATCH, MERGE, DELETE) to perform.

A modify operation is performed by querying a designated field within the IMan dataset checking if the field is populated. Where it is, the modify operation and URL are used, otherwise the insert operation and URL are used.

URL Replacements

The Insert & Modify URLs now support Expando fields. Expando fields provide the ability to tokenise parts of the URL with values from the transactions triggering the insert or update operation.

WEBSERVICE LOOKUP

The new webservice lookup allows you to query both Xml & JSON webservices. The webservice lookup allows the URL to be tokenised using field replacements in identical fashion as the insert/modify HTTP operations, and optionally allows the specification of the return value path.

The webservice lookup is defined in the Webservices setup area and called through new WebserviceLookup vbscript function.

JSON READ & WRITE

JSON Reader & Writers have been added to provide the ability to integrate with an increasing number of webservices.

Both Reader & Writer use a very similar setup method to the Xml Reader & Writer, due to the format's similarity with Xml.

JPath

To support the querying and writing to JSON based sites and webservices we have devised a syntax, similar to XPath, which is documented in our new web based help system.

WEB BASED HELP

In this version we have migrated and updated the previous PDF help documents to a web based help hosted on our documentation site.

The site is located at:

<http://help.realisable.co.uk>

The web based help has the following improvements over the PDF documents:

- a. Review of most of the content with significant enhancements and expansion of topics such as core processing concepts. This is an ongoing process and will continue for the foreseeable future.
- b. Diagrams – Improvement, increased use of and review of diagrams which accompany the topics within the help.
- c. Search – The entire help system can be searched.

This version has migrated the following documents:

- a. User Guide – Including VBScript functions.
- b. Quick Start Guide
- c. Sage300 Training Manual

The remaining documents will be converted over the rest of the year.

Isn't ironic this new document is a PDF!

TRANSFORM CHANGES

ORDERED HIERARCHICAL FILES

In previous versions files which were hierarchical in nature could be consumed only where there were fields (or keys) which explicitly tied child records to their parents.

This version relaxes this restriction to allow the consumption of hierarchical files having an implicit relationship through the order of the records within the file. These types of files are prevalent in the EDI world.

The following illustrates an example of an EDI file where the first six characters denoted the record type and the order of the records indicate to which parent each child is associated.

| Record Type | Record Number | Description | Quantity | Unit Price | Total Price | Item Description |
|-------------|--|-------------------------------------|----------|------------|-------------|--------------------------|
| Inv | 10/30/1410008870034526-BHB | | | | | |
| Custom | MYSOURCE - TORONTO | 4300, HICKMORE | | | | ST-LAURENT |
| Ship to | MYSOURCE - TORONTO | 1475 COURTNEYPARK DRIVE EAST | | | | MISSISSAUGA |
| Bill to | MYSOURCE - TORONTO | 4300, HICKMORE | | | | ST-LAURENT |
| Remit | TOUCH INDUSTRIES - FORMATION | 4025, RUE LESAGE | | | | SHERBROOKE |
| Terms | 000000002.0011/09/1401011/29/140302% 10D/NET30 | | | | | |
| Item | 0001 | 000007.00CA 0000014.42000 | 91-909 | | | PLASTIC FORK - WHITE IND |
| Lotno | 0001PLNG-1434 | 000000007.00 | | | | |
| Item | 0002 | 000003.00CA 0000014.42000 | 91-919 | | | PLASTIC KNIFE - WHITE IN |
| Lotno | 0002PLNG-1439 | 000000003.00 | | | | |
| Item | 0003 | 000008.00CA 0000014.42000 | 91-929 | | | PLASTIC TEASPOON - WHITE |
| Lotno | 0003PLNG1435 | 000000008.00 | | | | |
| Item | 0004 | 000020.00CA 0000027.29000 | 80-414N | | | COFFEE STIRRER - 7.0 |
| Lotno | 0004QU-1415 | 000000020.00 | | | | |
| Item | 0005 | 000001.00CA 0000016.97000 | 80-160 | | | FRILL TOOTHPICK - 2.5 |
| Lotno | 0005QU1414 | 000000001.00 | | | | |
| Item | 0006 | 000004.00CA 0000018.73000 | 80-411N | | | COFFEE STIRRER - 5.5 |
| Lotno | 0006QU-1419 | 000000004.00 | | | | |
| Item | 0007 | 000001.00CA 0000038.10000 | 80-144 | | | FLAT TOOTHPICK |
| Lotno | 0007ST1412 | 000000001.00 | | | | |
| Item | 0008 | 000028.00CA 0000009.50000 | 90-02024 | | | PLASTIC SPOON - WHITE |
| Lotno | 0008PLNG-1439 | 000000028.00 | | | | |
| Item | 0009 | 000001.00CA 0000009.50000 | 90-01024 | | | PLASTIC FORK - WHITE |
| Lotno | 0009PLNG-1431 | 000000001.00 | | | | |
| Item | 0010 | 000011.00CA 0000023.90000 | 92-126 | | | BROWN PLASTIC COFFEE STI |
| Lotno | 0010STTUO-1416 | 000000011.00 | | | | |
| Pkg tot | 0000 | 00000000.00 00000000.00 00000000.00 | | | | |
| Total | 000010 | 0000001665.34 0000084.00 0000093.00 | | | | |
| Inv | 10/30/1410008870034527-BHF | | | | | |
| Custom | MYSOURCE - MISSISSAUGA | 4300, HICKMORE | | | | ST-LAURENT |

Fixed Width Read Supports Hierarchical Files

The fixed width text reader now support hierarchical data; provided by the Ordered Hierarchical File improvements.

CONNECTOR IMPROVEMENTS

SAGE300 CONNECTOR

General Ledger

- Added support to insert or update GL Accounts.

Accounts Receivable

- Added support to insert or update AR National Accounts.
- National Account Support has been added to AR Customer & AR Receipt imports.

Accounts Payable

- Added support to insert or update AP Adjustments.

Inventory Control Interfaces

- IC Stock Count now supports Serial and Lot Numbers.
- Added support to create IC Serial/Lot Number Reconciliation.
- Added to insert or update IC Kitting Items.

Order Entry Interfaces

- Quotes can now be converted to orders.
- Orders can now specify Serial and Lot Numbers on import for Allocations. Allocations can also specify how Serial and Lot numbers are allocated i.e. by Date and by Qty.

SAGE200 CONNECTOR

Support for 2015

Sage2015 is now supported.

Extension Support

(Re)Support for Sage200 extensions such as Eureka's Plus Pack has now been added.

In versions 2011 and earlier this support was implicit, Sage automatically loaded these as part of the login process. 2013 changed all that, but Sage forgot to tell anyone about it. The result was corrupted data.

Batch Attribute Support

Batch Attribute support for serial and batch tracked items has been added to Purchase Order Receipts.

Improved Batch & Serial Support

Improved handling through better performance and exception handling has been added.

Print Purchase Orders

Added ability to print/export purchase orders.

Bills Of Material Import

In previous versions only limited BOM support was provided. In this version support for the following has been added:

- Operations including Subcontractors, Resources, Components & Notes.
- Component – Added comments.
- Analysis Codes

SAGECRM CONNECTOR

Order & Quote Synchronisation

This version now supports the ability to synchronise orders and quotes. The synchronisation process compares existing order or quote to the one being updated by performing a differential comparison i.e. explicit delete actions of detail lines are not required.

Synchronise operates as follows:

- a. Updating existing lines where they exist in both the IMan dataset and the order/quote being modified.
- b. Adds new lines where they exist in the IMan dataset but not in the order/quote.
- c. Deletes lines where they exist in the order/quote being modified but not in the IMan dataset.

SAGE50 CONNECTOR

Purchase Order Support

Added ability to create purchase orders.

Customer Addresses

Ability to add/edit customer addresses.

MISCELANEOUS

SQL 2014

SQL 2014 is now supported.