

# Release Notes: GRANTA MI Version 10.0 Update 4

*January 2018*

This document will help existing customers to understand what's in this update and whether you should install it. Installing an update is optional.

Granta Design distributes regular updates for GRANTA MI major versions (Version 10.0, Version 9.0, and so on). GRANTA MI updates are cumulative – each update includes all previous updates – so you only need to install the latest one to get your system up to date. Updates typically contain performance improvements, bug fixes, and other minor improvements.

GRANTA MI update releases are distributed in two forms:

- A full product installation package for new systems or for upgrades from Version 9.0 or earlier. This is installed from the installation media (*InstallationCD*) and includes all updates to date.
- A set of files which can be used to apply software updates to installed Version 10 components.

See Section 5, *Installing this release* for more information.

Please note that a newer, major version of GRANTA MI, Version 11 is now available. Version 11 incorporates all the features and fixes described in this document, plus installation enhancements, a new version of MI:Explore (Version 5), tabular data search enhancements, and more; for further details, please visit <http://www.grantadesign.com/products/mi/whatsnew.htm>

## 1 How can installing this release help you?

This release includes a number of usability improvements including:

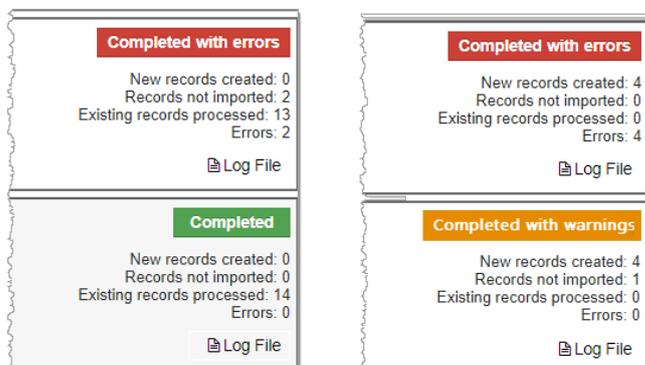
- More detailed feedback for data import users.
- Easier access to database admin tools in MI:Viewer
- A new Service Layer version

In addition, this update includes over 60 bug fixes, performance enhancements, and minor improvements that will have a positive impact on your GRANTA MI Version 10 user experience: you may also want to update your installation if your users have been affected by any of the specific issues listed below in Section 4.

## 2 What's new – Usability enhancements

### 2.1 More detailed feedback on data import operations

Usability improvements in the Remote Import application mean that, for each import job, you will now see a summary of how many new records were created, how many records were not imported, how many existing records were processed, and how many errors occurred during the import operation.



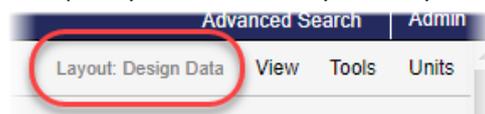
Detailed information can still be found in the job log file.

### 2.2 Easier access to database admin tools in MI:Viewer

Users who have a Database Administrator role can now easily access admin options for authorized databases from the Admin link in the MI:Viewer toolbar. This includes reloading ('re-fetching') database home page files, viewing user roles for the database, and using the Switchboard, Object identities, and Unit conversions utilities.

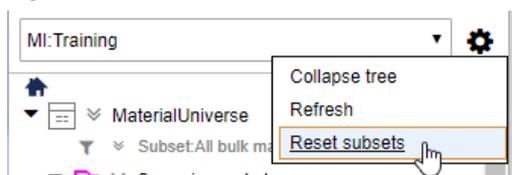
### 2.3 Quickly see which layout is currently selected

The name of the selected layout is now displayed in the datasheet toolbar in MI:Viewer, making it easier for users to quickly check which layout they are currently using:



### 2.4 Easily reset default subsets

A new **Reset subsets** option in the MI:Viewer Contents tab provides a quick and easy way to reset all subsets in your current profile to the default ones. If you don't have a profile, this option will reset everything to the default subset:



### 2.5 New Service Layer version

This update release of GRANTA MI includes a new Service Layer, version 40.0, with Service Layer interface version 16.10.

### 3 Important notes for GRANTA MI Administrators

When updating to this release from **GRANTA MI Version 10 Update 2 or earlier**, GRANTA MI system administrators should note the following:

- Because of dependencies between MI:Server, MI:Viewer, and the Service Layer for implementation of the analysis reports management functionality, the MI:Server, MI:Viewer and Service Layer software components must all be updated to the current release, GRANTA MI 10 Update 4 / Service Layer 40.
- Reports are generated using a new Windows service, *GRANTA Async Job Service* which is installed with the Service Layer; the service is started automatically after installation of the Service Layer and after a server restart. (Note however that after installing or updating the GRANTA MI:Reports bundle, it will be necessary to manually restart the *GRANTA MI Async Job Service*.)
- Users of Analysis Reports should be notified of the change in workflow as described above and in the MI:Viewer Help.
- Users will need to authenticate separately to the Report Monitor in order to download and manage reports they have submitted from MI:Viewer, using their normal GRANTA MI credentials.
- Users can schedule reports to run at times that may conflict with planned GRANTA MI downtime.
- Reports that are defined with a subsequent import step are supported via the Action menu in Report Monitor.
- Report jobs that have completed will remain in the Report Monitor for 30 days, after which they are automatically deleted. Users can delete their own jobs via the Action menu, while Admins can delete any jobs.

## 4 Bug Fixes and Usability Improvements included in this update

This release includes over 60 bug fixes and minor improvements, with the notable, user-facing changes summarized below, grouped by the affected functionality.

### 4.1 Installation

- The names of the log files produced by uninstallers have been changed to make them consistent with names of log files produced by the installers.

### 4.2 MI:Server

- Additional information is now included in the MI:Server log file to help debugging configuration database connection problems.
- Clearer error messages when client tools are unable to connect to MI:Server because the MI:Server service is still initializing after a restart.

#### *MI:Server Manager*

- Where databases have been removed in SQL Server, MI:Server Manager now handles this in a more robust way:
  - The database status will be "Failed to load" instead of "OK".
  - If a user tries to reload a database that had been removed from SQL Server, it is simply removed from the Databases list (previously, this could cause MI:Server to crash).
- Fixed localization issues where some message text was not translated when upgrading a database.
- When adding a database, the duplicate database identifier error message now displays the correct database key for the database being added

### 4.3 MI:Viewer

- Fixed a bug where cross-database links were sometimes not displayed in datasheets for access-controlled records.
- Fixed an Advanced Search bug where parameters could not be changed when searching over functional data in a cross-database link.
- Improved error messages on the Reports page when analysis reports cannot be loaded because of a configuration error, for example, an incorrect Service Layer URL.
- Fixed a bug where record selection was sometimes lost in the record tree after switching between Read and Edit modes.
- Fixed a bug where MI:Viewer datasheet and index URLs that included a record GUID (RGUID) or record history GUID (RHGUID) did not work.
- With database security enabled, switching to Edit mode after navigating between linked records in different databases resulted in an error ('Cannot open transaction in write mode as a read user') if the user did not have write access to both databases. This is now fixed.
- Fixed a bug that prevented XLS (97-2003 format) analysis reports containing macros from being run by the *Granta MI Async Job Service*.
- Fixed a bug where an exception error was displayed on the Admin>Databases tab if any of the databases was removed in SQL Server. Now, the database is just removed from the list on the Databases tab.

- Fixed a localization issue where the 'No Profiles Available' message was not translated in non-English locales.
- Fixed a bug where the tabular column header was not displayed when only one column in the table was populated.
- Fixed a bug where unchecking the 'Not Applicable' check box for a tabular data attribute had no effect, and the change was not saved (the data was still flagged as 'Not Applicable' after the change). Now, unchecking the "Not applicable" check box removes the Not Applicable setting from the attribute and deletes the datum (unless adding tabular rows).
- Improved performance when adding data to Comparison Charts.
- When pasting a list of records from the clipboard into the Record List (in JSON format), if any of the records in the list had an invalid GUID, the paste operation would fail and no records would be added to the Record List. This is now fixed.
- Performance has been improved for display and editing of datasheets that contain many and/or large Picture data. Additionally, corrupt Picture data that contains zero bytes will now be shown on a datasheet as a corrupt image (varies by browser), rather than hidden.

#### *UI layout and styling bug fixes and improvements*

- Fixed a layout issue with misaligned icons and labels when moving records in the Contents tree.
- Fixed a layout issue on the Record Properties page (Firefox only) where where links extended across the width of the screen.
- Fixed a layout issue on the Advanced Search page where the 'Include records with no data' checkbox and label were misaligned.
- Fixed a layout issue where the toolbar buttons and Quick Search box were not visible when the browser window was resized down horizontally, or viewed on a lower resolution device such as a projector.
- Updated icons to indicate when tables, folder, or records have access control message specified.
- Resolved layout (text wrapping) issues in the Edit Direct Links page.
- Removed redundant scrollbars from the 'Copy to clipboard' dialog.
- Improved layout and rendering for menus in the toolbar and Contents tab: menu width is now set dynamically and long menu items are no longer wrapped, and menus now have a fixed height, with scrollbars where necessary.
- Improved styling on the Advance Search and Edit Record Links pages.
- A new style for subset items in the Contents tree (smaller, greyer, not bold) makes it easier to distinguish subsets from the tables, folders, and records in the tree.
- New, more neutral and unobtrusive icon in Comparison Table reports for removing records and columns, replacing the rather prominent and eye-catching large red cross in earlier GRANTA MI versions.

#### *MI:Viewer Configuration tool*

- Better feedback is now provided when there is a problem with the MI:Server connection account credentials, for example, if the Domain has not be specified.
- UI for configuring authentication settings has been updated (Options > Authentication Settings) to make the text and labels clearer, and more consistent with other GRANTA MI applications.

#### 4.4 MI:Admin

- Fixed a bug which resulted in an error on setting the default value for a parameter of a discrete functional attribute.
- Fixed a bug where clicking on the "Table-level Values" column header in the "Edit Access Control Categories" panel resulted in an error.
- When pasting units into MI:Admin, the unit symbol is now treated as case-sensitive (e.g. "mg" is not same as "Mg"). Note that the unit name remains case-insensitive.
- After creating new Record Link Groups in a new table, the 'Link Name' and 'Reverse Link Name' shown in the list of Record Link Groups were reversed (i.e. the name of the Record Link Group was shown in the 'Reverse Link Name' column, and the reverse link name was shown in the 'Link Name'). This is now fixed.

#### 4.5 MI:Toolbox

- Fixed broken help links in the Duplicate Record Name dialog box.
- Fixed a bug where a 'Do you really want to stop the import' prompt was erroneously displayed on exiting MI:Toolbox, even if the import operation had completed.

##### *Excel Importer:*

- Fixed a bug that prevented *Import = FALSE* being used for autoplacement. Now, if you are importing a record and the matching attribute used for the creation of the record links has *Import = FALSE*, its value should still be used, and the record links created.
- Improved error handling when the database (dbkey) identified in an import file cannot be found.
- New text in the user interface (Step 2) to clarify when the user needs to select an import folder.

##### *Excel Exporter:*

- Fixed a performance problem for grid functional data with a large number of values (e.g. many tens of thousands) for one parameter.
- Fixed a bug that resulted in an error on selecting a different database when records from the original database had already been selected for export (Step 1). The list of records to be exported is now cleared when a new database is selected.
- Fixed a bug that resulted in an error when using the Import from clipboard button to import a list of records that included some unreleased records.
- When exporting data using auto-generated templates, an error in the hyperlink address for file and picture links in exported workbooks meant that the links did not work. This is now fixed.

##### *Bulk Data Importer*

- The number of records created and rows imported was reported inaccurately because folders were being counted. Folders will no longer count as records in the import summary messages.

##### *Text Importer:*

- Improved error handling when importing files with no autoplacement section.

##### *Duplicate Records Finder*

- Improved error handling when the input file contains no records (e.g. the file is empty, or contains just a pair of empty JSON braces).

#### 4.6 Remote Import

- Refreshing the Remote Import application after a connection error now reloads the main application page instead of the error page.

#### 4.7 Service Layer

- Fixed an issue where characters in Short Text and Long Text data could produce invalid XML when data was exported to the Service Layer, for example, with invalid characters for control codes (XML allows CR, LF and TAB but no other control codes). Service Layer will now strip XML-invalid characters from Short Text and Long Text data returned from *DataExport*. GRANTA MI will now reject attempts to add new XML-invalid Short Text or Long Text values to any database.
- Faster access to min-max values for attributes.
- Fixed an issue where recycling IIS could result in a crash dump because two processes attempted to write to the same log file. Service Layer log files are now output with a process number in the filename, resulting in a new log file for each new process.
- In the generated HTML documentation of the Service Layer Interface, operations, types etc. are now sorted alphabetically.
- A failure to dispose GRANTA MI transactions during Service Layer *DataImport* operations has been fixed, for improved SL reliability.
- Database keys are now case-insensitive in the *DataExport* service.
- Service Layer Interfaces 10/06, 10/10 & 12/05 are now obsolete, and service calls to them are disabled. See the *GRANTA MI Service Layer SDK Revisions* document for details.

## 5 Installing this release

See the GRANTA MI Version 10 base release documentation (December 2016 release) for detailed server, client, and database requirements.

For new installations or for upgrades from GRANTA MI Version 9.0 or earlier, you should install this release from the *InstallationCD* as described in the *GRANTA MI Installation Guide*.

If you are updating an existing Version 10 installation, you should update the individual software components using the installer files in the download package; see the document *Installing GRANTA MI Software Updates (Installing this update.pdf)*, included in the download package, for step-by-step instructions, and for critical information such as any required hotfixes for this release.

## 6 Contact details

If you have further questions about installing this software, please contact Granta Technical Support: [support@grantadesign.com](mailto:support@grantadesign.com)