

Release Notes: GRANTA MI Version 10.0 Update 1

April 2017

Granta Design produces regular updates to major version releases of GRANTA MI. These update releases are distributed in two forms:

- As a full product installation package (*InstallationCD*) for new systems or for upgrades from earlier MI Versions
- As MSP patch files, for updating an existing MI Version 10 installation.

These Release Notes will help existing customers to understand what's in this update and whether they should install it. Updates typically contain a number of minor improvements and bug fixes. Installing an update is optional. Subsequent updates always include the content of previous updates.

If you are using the InstallationCD for a new install, you should refer to your GRANTA MI release documentation for detailed server, client, and database requirements.

How can installing this release help you?

This release includes over 50 bug fixes, performance enhancements, and minor improvements which improve the user experience of GRANTA MI version 10. In addition, you may want to update if your users have been affected by any of the specific issues listed below under *Usability improvements and bug fixes*.

What's new?

Functional data search

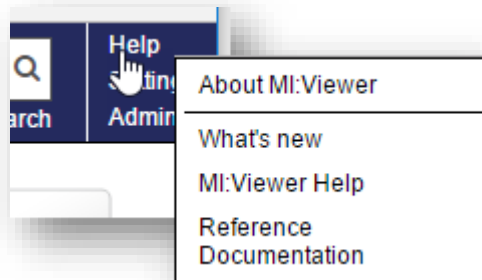
The search capability in MI:Viewer is extended to enable more effective searching of functional data.

Previously when searching functional data, searches were limited to records where the functional datum satisfied a condition at an exact, complete set of parameters, for example, "Find me all materials with a Strength > 100 at a temperature of 23.5C and a basis of A-basis". Now, it is possible to specify a range of parameters for each search attribute, instead of a fixed value, and also to omit any parameters that you don't care about. For example: "Find me all materials with a strength >100 at a temperature between 20 and 25C, for any statistical basis."

The MI:Viewer help topic *Advanced Search* has been updated to include information on how to specify parameter ranges.

New Help menu in MI:Viewer

A new Help menu in MI:Viewer makes it easier for users to access product information:



The new menu provides a single point of access to:

- The MI:Viewer “About” page, where you can view application version and build information
- What’s new? information on the Granta Design website, where users can read about the new product features and capabilities introduced in GRANTA MI version 10.
- The MI:Viewer Help system.
- The GRANTA MI Reference Documentation (PDFs). Previously, these were available to users with Administrative privileges (on the **Admin>Documentation** tab). Now, all users can access and download these documents when they need to from the Help menu.

Record GUID and record history GUID in URL links

Datasheet and index URL links can now identify a record by its *record GUID* (RGUID) or its *record history GUID* (RHGUID) using the URL parameters **recordGuid** or **recordHistoryGuid**. For example:

```
http://localhost/mi/datasheet.aspx?recordGuid=31a68479-3062-4509-8b4d-bf4ef000ba5f&dbKey=MI_Training_10.0.0m
```

```
http://localhost/mi/index.aspx?recordHistoryGuid=d2f51a3d-c274-4a1e-b7c9-8ba2976202cc
```

In a version-controlled record, the record history GUID will return the latest version of the record, while the record GUID can be used to return a specific record version.

On following the datasheet URL, the user will be immediately redirected to the equivalent URL which has the record identity (if record GUID used) or record history identity (if history GUID used), for example:

```
http://localhost/mi/datasheet.aspx?record=142715&dbKey=MI_Training_10.0.0m
```

Usability improvements and bug fixes

General

- Database keys are now case-insensitive in MI:Server and across all GRANTA MI applications. Previously, database keys were not always handled consistently in different applications.
- Dynamic compression of JSON responses from IIS is now enabled during installation of GRANTA MI web applications, to improve performance.
- Removed .cab files from the installation media as these are no longer required.
- Fixed an issue that blocked an MI version 8.1 Viewer upgrade on operating systems with IIS 10 running (Windows 10, Windows 2016).
- When GRANTA MI software updates have been applied, the correct version number is now shown in the Control Panel Installed Updates list.
- Reapplying updates to MI:Viewer or MI:Toolbox no longer results in a spurious ASP.NET configuration error message.
- Inconsistencies between Granta products in the reported minimum and maximum values of attributes have been reduced. The values seen in products such as Gateway and MI:Explore should now be the same as those seen in MI:Viewer (except in certain special Access Control cases).
- The IIS version is now logged on Service Layer startup, for support purposes.

MI:Server

- MI:Server Manager now reports when a database needs to be reloaded, for example, because the text cache is out of date after the database was restored on SQL Server by a SQL Server DBA. A new **Reload** command is available on the right-click menu when the selected database needs to be reloaded.
- Fixed a bug that caused an error when trying to view MI Info (**Help>About>MI Info**) in Windows clients such as MI:Admin, MI:Server Connection, and MI:Toolbox.

Bug fixes and minor enhancements in the Email Notifications feature:

- Better feedback from the notifications service in the command window and in log files when something goes wrong with generation of notifications, and/or of notification emails.
- In MI:Server Manager, the “Last run time” for notifications (shown in the **Last run (UTC)** field in the Email Notifications page) now correctly updates when the notifications service is run. Previously, this field was only updated on application startup.
- Fixed a bug where a “Communications Error” could sometimes appear on opening the Email Notifications SMTP Setting page for the first time.
- Users running the email notifications process (as a scheduled task, from the command window, or via a batch file) no longer need to have Granta Administrator privileges. We recommend running the email notifications scheduled task under the MI Service account login.

MI:Viewer

- The **Admin > Databases** page now reports when a database needs to be reloaded, for example, because the text cache is out of date after the database was restored on SQL Server by a SQL Server DBA. A new **Reload** command is available on the right-click menu when the selected database needs to be reloaded.

- On datasheets, fixed some display issues with Interpolation controls:
 - The Interpolation controls are now correctly aligned, and are no longer clipped.
 - Messages about interpolation parameters that cannot be changed can now be read easily; previously, the message text was very faint, and hard to read.
- Fixed an issue that caused an error when zooming in on very small (smaller than 1e-6) values in graphs.
- Fixed an issue that caused an error when zooming on graphs when the decimal separator was set to Comma in the application Settings.
- Resolved a performance issue where profiles were taking a long time to load because of inefficient user authorization checks.
- Improved performance when uploading picture and file data into tabular attributes.
- Bug fixes and usability enhancements on the Reports page:
 - Any Custom Reports relevant to the records in the Record List are now loaded automatically on opening the Reports page; the **Fetch Custom Reports** command option has been removed.
 - Fixed a bug where custom reports failed to load due to a user authentication configuration issue.
 - Fixed an Internet Explorer issue where custom reports that could not be used with the records in the Record list were sometimes displayed.
- Fixed several bugs in the **Export data to Excel** feature:
 - Data exported via the Export data to Excel option sometimes could not subsequently be reimported because the record GUID was not exported when auto-placement import options were used in the template.
 - Excel output files sometimes had the wrong filename and no filename extension (on Chrome only). This was due to a problem with the way the Chrome browser handles long filenames that include non-ASCII characters (such as the degree Celsius sign, or accented characters).
 - The data in Tabular Data attributes was not exported when exporting unreleased or superseded records.
 - Quality ratings were not exported. Both discrete and continuous quality data are now exported correctly.
- Fixed a bug where, when viewing tabular data in Edit mode, values in the **Linked records found** column were not in the same order as the values in the other columns.
- Fixed a bug where the "Last checked at" date/time on the Notification settings page (Settings>Notifications) was not being updated.
- Fixed a bug where tables containing security attributes could not be deleted.
- Fixed a display issue when viewing embedded PDFs (e.g. Reports) in Chrome.
- Fixed a bug where the edit icon was incorrectly displayed on data that was not editable because of access control or version control instead of the "Locked" icon.
- The IIS version is now logged on Viewer startup, for support purposes.

MI:Admin

- When defining the default content for an Equations and Logic type attribute, the default values and default value ranges for parameters are now selected from a dropdown list, ensuring that values outside the parameter extents cannot be entered.
- Fixed a performance issue on loading layouts in the MI:Admin Layout Editor.
- Fixed a bug where the available tables were not always shown when creating a new profile.
- Fixed a bug where the database **Lock** button was sometimes missing on opening the MI:Admin Schema tool.

Data Updater

- Fixed some layout issues on the "Layout items" sheet of the Data Updater report.

Importers and Exporters

- In import/export templates generated in MI:Viewer, parameter ranges are now more clearly marked for functional attribute parameters. This helps to ensure that when the template is used, a range is entered only for first parameter in the series, and other parameters contain single values.
- Generated Excel import/export templates now include some additional useful information:
 - The name of the template author is included on the "Template Information" worksheet
 - A new worksheet sheet called "Export Information" records the date of the export and the name of the user who performed the export.

FEA Exporter

- When getting MI Parameters associated with an FEA Exporter, via MI C# API or Service Layer GetExporterParameters() operation, the values of discrete parameters are now correctly returned. Previously, *NaN* was erroneously returned.

Excel Exporter

- Improved error handling for issues occurring when loading Exporter templates that were created in older versions of GRANTA MI.
- Fixed a bug that prevented import of functional data to version-controlled records when using the "Replace Record" or "Replace Data" conflict resolution strategy.
- Fixed a bug in the Excel Exporter where data exported via the Export data to Excel option in MI:Viewer sometimes could not subsequently be reimported because the record GUID was not exported when auto-placement import options were used in the template.
- Long and short text data beginning with a single quotation mark (') can now be exported and then re-imported. Previously, the leading quote was lost when the data was exported because a single quote as the first character in a cell is not recognized as a literal character by Excel (it is interpreted as designating the cell content as text, and is removed). Now, leading quotes are preserved on export.
- Short text, Long text, and Discrete values that would be interpreted by default by Excel as numeric now have text format explicitly set on the cell when exported, which allows leading zeroes to be preserved.

Excel Importer

- Improved error handling when a problem is detected during import, for example, a filename is too long. Toolbox now reports the problem accurately and continues importing the remaining records.

- Functional (series, grid and equations & logic) data and tabular data can now be deleted by setting the data value to [-DELETE-]. Previously, only simple data types could be deleted in this way.
- Fixed an issue when importing worksheets with a specimen number range, where in some cases, clicking 'Do Not Import' in response to a conflict could cause a "SpecimenIndex and specimen not synchronised" error.
- Version-controlled Record Names are now updated on import when using the 'Replace' conflict resolution option.

Remote Import

- Improvements to logging of Remote Import service requests:
 - The logging level has been changed to 'Warn', making the log file much smaller; previously 'Info' messages were logged, resulting in very large files.
 - All Remote Import logs will be archived every month, and only the most recent RemoteImportServiceRequests.log file will be retained.
- Fixed a bug in drag & drop on Internet Explorer 11.

Service Layer

This release of GRANTA MI includes Service Layer version 36.0, which contains minor fixes, but no significant new functionality; the Service Layer interface in this release is version 16/01.

System requirements for this release

See your GRANTA MI Version 10 release documentation for detailed server, client, and database requirements.

Installing this release

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

If you are updating an existing MI Version 10 installation, you should apply the update using the MSP patch files in the download package; see the document *Installing GRANTA MI Software Updates*, included in the update package, for step-by-step instructions.

Note that the Service Layer cannot be updated via an MSP patch file. To get the latest version of the Service Layer, you must upgrade it using the GRANTA MI installer in the *InstallationCD*.

Further information and contact details

More background on the features and benefits of GRANTA MI Version 10 is available at <http://www.grantadesign.com/products/mi/whatsnew.htm>

If you have further questions, please email Granta Support: support@grantadesign.com