

OMNIC Paradigm Release Notes

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About This Document

This document contains a revision history of OMNIC Paradigm software, including new features that may not be included in the user guide, resolved issues and known issues.

OMNIC Paradigm v1.5 HF1

Release Date: November 2020

Supported Operating Systems

Windows 10 64-bit

Resolved Issues

The software did not always close after running workflows

We fixed an issue that prevented you from exiting the software after running a workflow.

Updating the software caused multiple versions to appear in the list of installed applications

After updating the software, you may have seen multiple versions in your list of installed applications. Now only the latest version appears.

OMNIC Paradigm v1.5

Release Date: September 2020

Supported Operating Systems

Windows 10 64-bit

New Features

Support for the Nicolet Summit LITE spectrometer

You can now connect to and operate a Nicolet Summit LITE spectrometer.

Develop and Run Custom Solutions with the Package Editor and Operator Interface

Use the new Package Editor to bundle workflows and their required files into RDEP files. Open and run package workflows in the Operator interface.

Spectral Math in Workflows

The Processing tile in Workflows now supports spectral math, including addition, subtraction, multiplication, and division using two spectra.

Measurements and Reports Created in Workflows Support Digital Signatures

When using Security Suite software, measurements and reports created in workflows now support digital signatures.

Resolved Issues

When Using a Discriminant Analysis Method with the TQ Analyst Tile, Class Names are Now Available as Variables.

Previously, Class Names from discriminant analysis were not available as variables which meant that some results could not be used in other tiles, such as the Decision tile.

The Match Settings Option in the Measure Tile Now Correctly Matches Zero Fill

When using the Match Settings option in the Measure tile, the settings did not correctly match the Zero Fill setting. We fixed this so the Zero Fill is correctly matched.

You can now Install Paradigm successfully on Non-English versions of Windows.

If you installed OMNIC Paradigm software on a non-English version of Windows 10, the software would hang when you tried to measure a sample. This is resolved and you can now run the software as expected on non-English versions of Windows 10.

Spectrum History Information Displays Correctly after Importing a SPA File that Was Created on a System using Double-Byte Characters.

The spectrum history information did not display correctly when importing a SPA file from a system that was using double-byte characters. The history is now correct if your system is also using double-byte characters. The history information may still have display problems if your system is using single-byte characters and you import a SPA file from a system using double-byte characters.

Known Issues

The Library Title Does Not Display double-byte Characters Correctly in the Library Manager.

When running the software with a system using double-byte characters, the Library Title field in the Library Manager does not display correctly.

Reports May Be Displayed Incorrectly in the Reports Pane

Occasionally, the reports pane will display a duplicate report after creating a new report. Additionally, the report preview image may not be updated and will show a different report than the currently selected report. These are display issues only and do not affect your data. Click Refresh in the reports pane to refresh the list. If this does not solve the problem, restart the computer to clear the duplicate reports.

OMNIC Paradigm v1.4

Release Date: July 2020

Supported Operating Systems

Windows 10 64-bit

New Features

Advanced Spectral Math

While standard spectral math supports spectral subtraction, addition, multiplication, and division using a single reference spectrum, you can now use Advanced Spectral Math to build custom equation using up to 10 reference spectra and using a wider range of powerful operations.

Revert Measurement

You can now revert your measurement to an earlier step in your processing and analysis, allowing you to undo any changes that degrade your data. Previously, you may have had to measure the sample again to have clean, unprocessed data.

Duplicate Measurement

With the new Duplicate Measurement feature, you can make a copy of a measurement from its current state or from an earlier step.

View Measurement History

You can now view the measurement history to quickly visually compare your measurement data at different stages of processing and analysis. For example, the measurement history view is great for quickly comparing the spectrum before and after applying a baseline correction.

Measurement History Report

The measurement history report displays the spectrum at each stage in you processing and analysis so that you have a convenient record of how the data was changed.

Export Spectra from Sub Panes

Previously, you could export only top-level measurements from the Results Pane of the spectral view. Now you can also export sub items, such as reference spectra or spectra used in spectral math operations.

Enhanced Security Features when Paired with Security Suite Software

We added new policies, access controls, and default settings to Security Administration software for managing OMNIC Paradigm. You can now prevent the measurement preview from displaying during measurement or disable the pause button during a measurement and an audit event is logged when a workflow is cancelled.

New Software OQ Procedure for OMNIC Paradigm v 1.4 and later

There is a new, updated Operational Qualification procedure for use with Security Suite software and OMNIC Paradigm software. The updated procedure includes changes to access controls and updated system policies.

Resolved Issues**Custom reports created in a workflow are now displayed correctly in print preview**

When printing a custom report created in a workflow, the print preview screen showed a mostly empty page. This is fixed and the print preview now shows the custom report correctly.

The preview image for embedded workflows is now updated correctly

If you used the Embedded Workflow tile, the preview image wouldn't update to show any recent changes to the embedded workflow after you used the Update Embedded Workflow(s) command. The command now correctly updates the preview image so you can see the latest changes to the workflow.

New tags are now displayed immediately when added to a measurement

If you add a tag to a measurement and then immediately click "Manage Tags", the new tag now correctly shows up immediately.

You can now import multiple SPA files at once.

Previously, an error occurred if you tried to import multiple SPA files as once. We fixed this so now you can import multiple spectra successfully.

Known Issues

It is possible to exit a workflow when working in a secure environment

If you are running a workflow in the touchscreen interface, the Home button in the menu is still enabled, allowing you to exit the workflow even if the prevent cancel policy is enabled.

OMNIC Paradigm v1.3 HF1

Release Date: May 2020

Supported Operating Systems

Windows 10 64-bit

Resolved Issues

The Spectrum Information Now Shows the Correct Detector Name

The spectrum information showed an incorrect detector name. It now correctly displays DTGS KBr as the detector in the in the Spectrometer tab of the Spectrum Information.

Cannot Click the More button in the Measurement Pane during Laser Calibration

Clicking the More button caused laser calibration to lock up. The button is now correctly disabled during laser calibration.

Commercial Library Spectra Cannot be Exported

When multiple spectra are selected in the Spectra view, only the non-commercial library spectra can be exported to a folder.

The iS5 System Recognizes when an Accessory is Removed

The iS5 system did not always recognize if an accessory was removed, which prevented the Laser Calibration from being performed.

Known Issues

Software Installation Status Icon Shows Simulation

After you install the software, it may show “Simulation (Nicolet iS5)” in the status icon. If this is the case, use the Connectivity menu’s Connection command to reselect the iS5. When the switch is complete, ignore the status icon and leave the instrument connected to the PC’s USB port. Close the software and reboot the PC. The status icon should now show: “Nicolet iS5”.

OMNIC Paradigm v1.3

Release Date: March 2020

Supported Operating Systems

Windows 10 64-bit

New Features

Nicolet iS5 Support

OMNIC Paradigm software is now available to be installed on a computer controlling a Nicolet iS5 spectrometer. This software can be installed on any Windows 10 computer. The OMNIC Paradigm iS5 software is also compatible with our Security Suite software and can be used with a Distributed installation.

Discriminate Analysis

Discriminate Analysis quantitative method created in the TQ Analyst can be used in OMNIC Paradigm.

Options

You can now customize the color and line weight of spectra in the spectral display and set the number of digits shown on the display and in peak tables.

Faster Multi-component Search

Multi-component search is now at least four times faster. The total time for the search depends on the number of libraries used in the search, the number of spectra in the libraries, and the processing power of the computer.

Powerful New Workflow Tiles

We added four new, advanced workflow tiles to the Workflow Editor:

- Variable tile: Create custom variables or modify the value of an existing variable
- Equation tile: Use built-in functions and custom equations for calculations
- Embedded Workflow tile: Embed one workflow within another
- Workflow Table tile: Import a table of values to use throughout the workflow

Report Configuration

You can now configure reports to optionally show spectra, table data, and meta-data.

Translations

OMNIC Paradigm software is now available in Italian. The Japanese translation has been updated.

Security Suite New Features

All new options listed above are included in the Security Suite software updates for the OMNIC Paradigm software. Access Control policies are provided to manage users within the Thermo Scientific Security Administration application.

Resolved Issues**Spectral Name Changes Now Appear in the Spectral History**

OMNIC Paradigm software now displays an entry in the spectral history for a spectral name change.

Fixed Crash Caused by Clicking in the Spectrometer tab

We fixed an issue that caused the software to crash if you clicked in the Spectrometer tab of the Spectrum Information.

Correct Number of Scans in Workflows for the French Translation

In the French translation, measurements in workflows allowed only scans of 1, 2, 3, or 4 and the scans entered were multiples by 256. Workflows now allow the correct number of scans.

Zooming in Multi-component Search Upper Pane is Now Reflected in the Lower Panes

The limits on the panes were not in sync when zooming (boxing).

Library Search in Workflows Now Correctly Handles Libraries of Different Ranges, such as Raman and NIR

If you used libraries with different spectral ranges in a search, such as FTIR, NIR, and RAMAN, the result would be "No search results found". The search now returns correct results.

In Spectral Math, We Changed the Sample and the Reference Positions

The Result is in the top pane, the Sample is the middle pane, and the reference is the bottom pane.

The Search Tile in Workflows Now Retrieves Libraries from all the Paths Defined in the OMNIC Paradigm Software

Previously, the search tile retrieved libraries only from the default OMNIC Paradigm library path.

Known Issues**Dashboard toolbar disappears and doesn't come back from a Workflow**

This issue is caused due to an invalid workflow. Restart the software.

OMNIC Paradigm v1.2

Release Date: November 2019

Supported Operating Systems

Windows 10 64-bit

New Features

Workstation Support

OMNIC Paradigm software is now available to be used on a separate computer as workstation. This software can be installed on any Windows 10 computer. The Workstation software is also compatible with our Security Suite software and can be used with a Distributed installation.

Remote Connectivity

You can now control Nicolet Summit spectrometers remotely. Install OMNIC Paradigm Workstation software on a connected computer and use it to control the Nicolet Summit spectrometer. Connect over WiFi or Ethernet cable. **(See OMNIC Paradigm documentation for additional information.)**

Database Maintenance: Back Up and Restore

Back up and restore your default Thermo Fisher Scientific Built-in MariaDB by using the new database management tools. Use the Back Up tool to back up the database manually or automatically to a specified schedule. Use Restore to restore a previously saved database backup to the current database location.

QCheck now Supported with Workflows

Run a QCheck analysis with OMNIC Paradigm workflows. In the Workflow Editor, the QCheck tile can be configured with the same settings available in the OMNIC Paradigm desktop software. You can also include QCheck in a workflow when creating a workflow automatically from the Spectrum History Information.

Database Spectra can be Used with Workflows

When building workflows, you can now use the Load Spectrum tile to load data from the database rather than from only a saved SPA data file.

Kramers-Kronig Correction

Kramers-Kronig data correction is now available as a Processing option in the OMNIC Paradigm software and in the OMNIC Paradigm workflows.

Import and Export SPC Format Spectral Data

You can now import and export GRAMS SPC files from the OMNIC Paradigm desktop and touchscreen software. Additional file formats previously supported in OMNIC software can be converted using the TQ Analyst software and then imported into the OMNIC Paradigm software as either SPA for SPC file formats.

New Diagnostic Workflow for Testing ATR Accessories

A new diagnostic workflow is available to test the throughput of your ATR accessories. The workflow will walk you through the test to determine if your ATR accessory is working properly. Contact your Thermo Fisher Scientific Service Engineer for further information.

Translations Available

OMNIC Paradigm software is now available in the following languages: Chinese (Simplified), Japanese, Polish, French, Spanish and Russian.

Side Panel on Desktop Software Now has a Collapse Option

We added an arrow icon to the spectral view in the desktop software that you can use to collapse and expand the side panel.

Display Limits Options

You can now use the right-click menu in the spectral view to modify the display limits by entering the X and Y limit information. This option is available for both desktop and touchscreen.

Spectral Math Can Now be Used by Other Final Formats

Spectral math now works with single beam data.

Titles are Now Available in Overlay Mode of the Spectral View

Spectrum titles are now visible when in Overlay mode in the spectral view.

Security Suite New Features

All new options listed above are included in the Security Suite software updates for the OMNIC Paradigm software. Access Control policies are provided to manage users within the Thermo Scientific Security Administration application.

Resolved Issues**Workflow Generated Spectra with Attached Interferograms**

OMNIC Paradigm software now handles interferograms attached to data that was collected with OMNIC Paradigm workflows similarly to data collected with the desktop and touchscreen versions of OMNIC Paradigm.

Clear Sample Name with Backspace Key

When changing the sample name using the backspace key, the previous name was not cleared properly.

Collect Background No Longer Disabled in Touchscreen

The Collect Background option is no longer disabled when the number of background scans is set to fewer than 10.

Create Report Not Working as Expected

We fixed issues that were causing Create Report to display different scaling and display limit information.

Spectrum Collection and Processing History was Not Capturing Title Change

Spectrum Collection and Processing history now shows any title changes for the spectral data record.

Select All was Not Processing All Selected Spectra

Select All was previously not operating on all selected spectra for processing functionality.

Removed Extra Dialogs that Appeared When Inserting and Removing Smart Accessories

We removed unnecessary dialogs that were appearing in the touchscreen interface when smart accessories were inserted or removed.

Collection & Processing Information for Zero Fill Reports Correct Values

Spectra collected using a workflow were reporting Unknown for the Zero Fill value in the Collection & Processing Information, but now display the correct zero fill values.

Number of Background Scans Value Not Set Properly

When trying to set the number of background scans for background options “Measure every ___ minutes” and “Measure before sample,” the value could not be less than 10 and the tooltip was incorrect. These issues have now been corrected

Smart Background Scans

Smart Background sometimes collected more scans than specified. It now collects the correct number of scans.

Improved Scroll Bars in Touchscreen Interface

We improved the scroll bars in the touchscreen interface to make them consistent and easier to use.

Peak Labels no Longer Cut Off When Printing

Peak labels displayed on the spectral display are no longer cut off when printing.

Hide All Now Hides All Spectra

The Hide All option on the spectral display side panel did not always hide all spectra. This is now fixed.

Import SPA and SPC Files From a Network Location on an Instrument

Supported files can now be imported from both the local computer and from a specified network location.

Improved Speed to Index Large Amounts of Data

Indexing large amounts of data in the database was very slow but is now much faster.

Fixed Text Search with User Libraries

Text search sometimes failed when searching User Libraries, but it now works consistently.

Known Issues**Spectral Display for Interferogram, Single Beam or Final Format spectrum under More button on Dashboard can appear cut off**

This issue can be solved by modifying your Display Settings for your computer. Under Display Settings in the Windows Settings there are two settings that need to be set to the recommended values:

- Resolution must be set to the recommended value
- Change the size of text, apps and other items needs to be set to 100%.

This may also require a reboot of the computer to get the display to show properly

OMNIC Paradigm v1.1

Release Date: July 2019

Supported Operating Systems

Windows 10 64-bit

New Features

Security Suite Support

OMNIC Paradigm software is now supported with the Security Suite software in both Single computer installation and the Distributed installation. Administration of policies is controlled using Security Administration and the Audit Trail information can be found in Audit Manager.

Update Feature

You can now monitor a network location or USB location for updates so that you can be notified automatically of new software releases.

Resolved Issues

Localization

We fixed localization problems that were introducing errors throughout the software, including the System Status dialog.

Cloud Connector Enhancements

Improved the Cloud Connector to make it more robust so that it can better handle when the internet connection is inactive or lost.

Gain and the Interferogram

The interferogram is now automatically updated when you change the gain settings.

Usability improvements for Touchscreen

You can now toggle and scroll the main menu when using the touchscreen interface.

Database Configuration (Touchscreen Interface)

If you cancel your changes when configuring your database, the changes are now discarded. Previously, unwanted changes were saved.

Confirmation Dialog Added when You Delete a Workflow

We added a confirmation dialog to verify that you want to delete a selected workflow before it is deleted.

Clear Spectrum from right click menu only cleared last spectrum when all spectra are selected

When all the spectra in the window are selected and Ctrl W or Clear Spectrum is used from the right click menu, only the last spectrum was cleared instead of all the spectra. Now, all the spectra are cleared from the display.

Acquire Menu Items No Longer Disabled

We fixed an error that was causing all items in the Acquire menu to be disabled if you ended a workflow early.

Missing Checkbox in the Touchscreen Interface

A checkbox you would use to specify the number of background scans is not present in the touchscreen interface. The checkbox is present in the desktop interface.

Known Issues

Run Workflow Button is Incorrectly Disabled

If the instrument is not ready, the Run Workflow button may be disabled.

History is Not Showing Correlation Search or Multi-Component Search Information

Spectral histories are missing information for Correlation Search and Multi-Component Search. This information does appear in the Collection and Processing information.

Changing Library Location Requires an Update to Workflow Search Tiles

If you modify the location of a library that you have referenced in a Search tile in a workflow, you must update the Search tile again before running the workflow.

OMNIC Paradigm v1.0

Release Date: May 2019

Supported Operating Systems

Windows 10 64-bit

New Features**Initial release**

This is the initial release of the OMNIC Paradigm software.

Resolved Issues

None - Initial version

Known Issues

None

How to Contact Us

Current contact information is located at www.thermofisher.com

Select the "Contact Us" icon at the top of the screen

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