MyAssays Desktop Pro R6 Release Notes

Product Version Number: **R6 – 6.0.202.1324 (191121)**

Overview

This document contains the release notes for **MyAssays Desktop Pro**, providing the latest information about the specified version, including:

- Download Links
- Support Contacts
- Installation
  - System Requirements
  - Upgrading from an Earlier Version
  - Installation Process
  - Launching
  - Uninstall
- Video Resources
- What's New in this Release?
- Known Issues

Download Links

Download the product installation and documentation from here:

Installation

https://myassaysfiles.blob.core.windows.net/release/mad/r6/6.0.202.1324/MyAssays-Desktop-Setup-v6.0.202.1324.msi (106.3 MB)

User's Guide

https://myassaysfiles.blob.core.windows.net/release/mad/r6/6.0.202.1324/MyAssays-Desktop-Users-Guide-v6.0.202.1324.pdf (11.5 MB)

Support Contacts

For technical support please email support@myassays.com.

Feedback

Please send any feedback, suggestions or feature requests to support@myassays.com.

Installation

System Requirements

MyAssays Desktop runs successfully on the minimum system configuration listed below. If your computer does not meet the technical requirements, you may be not able to use MyAssays Desktop.

CPU:	Intel/AMD 2 GHz or faster processor (32-bit or 64-bit)
Memory:	2GB RAM
Available disk space:	300MB
Operating systems:	Windows 10, Windows 8.x, Windows 7
Other software:	Microsoft .NET 4.7.2 or later
Display:	1024 x 768 or higher resolution

Software Requirements

Microsoft .NET 4.7.2 or later must be installed (this is pre-installed on newer Windows 10 systems). For earlier versions of Windows, if it is not already installed on your system or you are not sure, please download and install from: http://go.microsoft.com/fwlink/?LinkId=863262.

More information about the .NET 4.7.2 installation can be found at: https://support.microsoft.com/en-gb/help/4054530/microsoft-net-framework-4-7-2-offline-installer-for-windows.

Upgrading from an Earlier Version

If an earlier version of MyAssays Desktop is already installed on your system, you can install the new version without uninstalling the earlier version. It is also not necessary to deactivate and reactivate the software license. The installation process will update the information from the previous version.

Data Files

When upgrading an existing installation, your original data files (as stored under the **Assay Data Folder Root**, e.g., Documents\MyAssays) are preserved, and any new data files (such as new installed protocols) are automatically added.

If you wish to reset all data files to a clean install state, then navigate to your **Assay Data Folder Root** and delete (or backup) all files and subfolders. The next time MyAssays Desktop Explorer is launched, the data files are reset to the clean install state.

Folder Poll

If you are working with Folder Poll then update your Folder Poll installation to the latest version. You can find the latest Folder Poll version along with release notes here.

> To upgrade a Folder Poll installation you will need to first uninstall the existing Folder Poll software. During the uninstall process you will be asked if the user-generated files should be removed:
>
> - Service configuration files
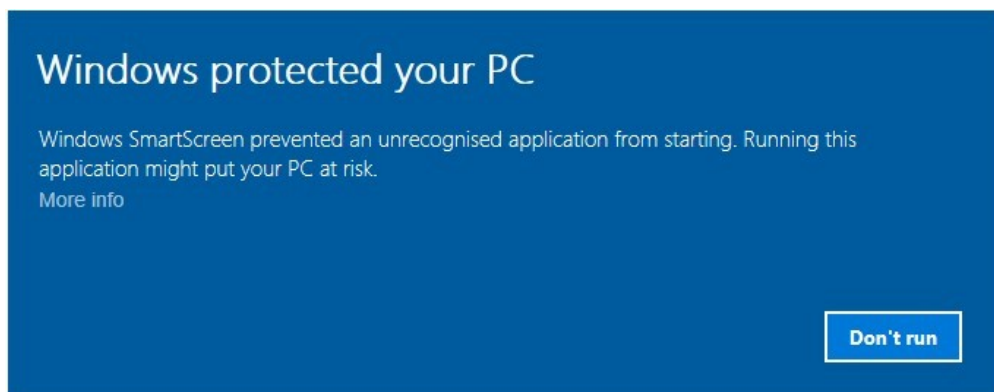> - Application log files
>
> To preserve any existing folder polls select the **Keep Files** option; the existing settings will then be retained for the updated Folder Poll installation.
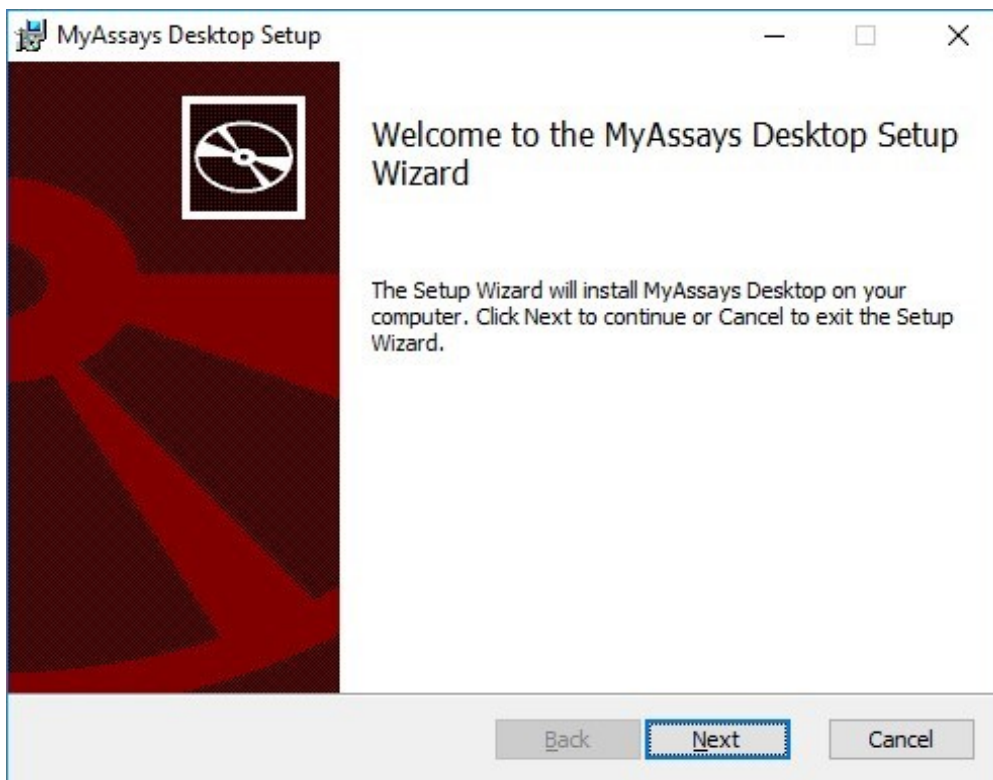
Installation

The installation process must be performed using a Windows account with administrator privileges.
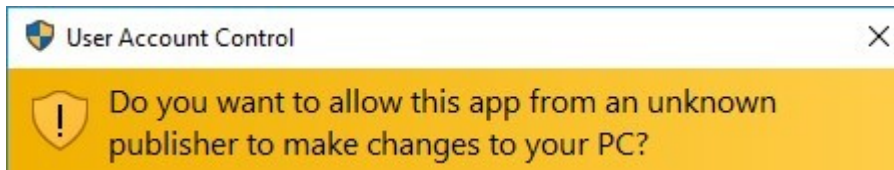
1. Download and launch the MSI file. If prompted:

Windows protected your PC

Windows SmartScreen prevented an unrecognised application from starting. Running this application might put your PC at risk.
More info

Don't run

Click **More info** and select **Run anyway**.

2. Follow the steps through the wizard:

MyAssays Desktop Setup

Welcome to the MyAssays Desktop Setup Wizard

The Setup Wizard will install MyAssays Desktop on your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Back   Next   Cancel

Provide the requested information.

3. If you see the User Account Control prompt that says:

Select **Yes**.

4. On completion, optionally select to **Launch MyAssays Desktop Explorer** and then click **Finish**.

Launch

After installation, the MyAssays Desktop Explorer icon will appear on the desktop:

Use this to start the application. Alternatively, you can choose to open MyAssays Desktop from your **Start** menu.

Uninstalling MyAssays Desktop

The software installations can be uninstalled using the standard Windows uninstall function (from **Control Panel** | **Uninstall a program**).

Further Information

For the latest video content please visit https://www.myassays.com/myassays-desktop-training-course.html

Selected video links are provided here:

Getting Started

- https://www.myassays.com/video/myassays-desktop-installation (3 min 23 sec)
- https://www.myassays.com/video/licensing-myassays-desktop-with-internet-connectivity (2 min 17 sec)
- https://www.myassays.com/video/licensing-myassays-desktop-without-internet-connectivity (3 min 18 sec)
- https://www.myassays.com/video/get-started-with-myassays-desktop-(concepts-and-processes) (9 min 53 sec)
- https://www.myassays.com/video/get-started-with-myassays-desktop-(using-the-software) (5 min 24 sec)
- https://www.myassays.com/video/myassays-desktop-explorer (4 min 30 sec)
- https://www.myassays.com/video/download-protocols-for-myassays-desktop (3 min 47 sec)
- https://www.myassays.com/video/create-a-protocol-with-myassays-desktop (11 min 33 sec)
- https://www.myassays.com/video/introduction-to-assay-validation-(elisa) (12 min 13 sec)
- https://www.myassays.com/video/introduction-to-assay-validation-(ria) (6 min 58 sec)
- https://www.myassays.com/video/whats-new-in-myassays-desktop-r6 (8 min 12 sec)

Essentials

- https://www.myassays.com/video/get-started-with-myassays-desktop-(concepts-and-processes) (9 min 53 sec)
- https://www.myassays.com/video/get-started-with-myassays-desktop-(using-the-

software) (5 min 24 sec)

- https://www.myassays.com/video/myassays-desktop-plate-layout-editor (4 min 57 sec)

- https://www.myassays.com/video/myassays-desktop-rack-layout-editor (5 min 46 sec)

- https://www.myassays.com/video/import-data-with-myassays-desktop (9 min 33 sec)

- https://www.myassays.com/video/create-a-protocol-with-myassays-desktop (11 min 33 sec)

- https://www.myassays.com/video/myassays-desktop-standard-curve-fit-transform (8 min 45 sec)

- https://www.myassays.com/video/myassays-desktop-fit-methods (9 min 16 sec)

- https://www.myassays.com/video/myassays-desktop-transforms (7 min 2 sec)

- https://www.myassays.com/video/best-fit-with-myassays-desktop (4 min 29 sec)

- https://www.myassays.com/video/reporting-with-myassays-desktop-(an-introduction) (2 min 20 sec)

- https://www.myassays.com/video/data-export-with-myassays-desktop (5 min 14 sec)

- https://www.myassays.com/video/elisa-analysis-with-myassays-desktop (11 min 45 sec)

- https://www.myassays.com/video/ria-data-analysis-with-myassays-desktop (6 min 15 sec)

- https://www.myassays.com/video/qualitative-assays-and-data-qualification-with-myassays-desktop (3 min 33 sec)

- https://www.myassays.com/video/myassays-desktop-sample-labels (5 min 15 sec)

- https://www.myassays.com/video/myassays-desktop-expressions (7 min 29 sec)

- https://www.myassays.com/video/kinetic-and-spectral-data-analysis-with-myassays-desktop (4 min 52 sec)

- https://www.myassays.com/video/myassays-desktop-with-folder-poll (4 min 33 sec)

- https://www.myassays.com/video/migrating-from-a-legacy-system-to-myassays-desktop (12 min 25 sec)

Basics

- https://www.myassays.com/video/download-protocols-for-myassays-desktop (3 min 47 sec)

- https://www.myassays.com/video/import-data-with-myassays-desktop (9 min 33 sec)

- https://www.myassays.com/video/create-a-protocol-with-myassays-desktop (11 min 33 sec)

- https://www.myassays.com/video/myassays-desktop-standard-curve-fit-transform (8 min 45 sec)

- https://www.myassays.com/video/myassays-desktop-fit-methods (9 min 16 sec)

- https://www.myassays.com/video/myassays-desktop-transforms (7 min 2 sec)

- https://www.myassays.com/video/myassays-desktop-expressions (7 min 29 sec)

- https://www.myassays.com/video/myassays-desktop-sample-labels (5 min 15 sec)

- https://www.myassays.com/video/reporting-with-myassays-desktop-(an-introduction) (2 min 20 sec)

- https://www.myassays.com/video/data-export-with-myassays-desktop (5 min 14 sec)

- https://www.myassays.com/video/quality-control-with-myassays-desktop (8 min 22 sec)

- https://www.myassays.com/video/myassays-desktop-with-folder-poll (4 min 33 sec)

- https://www.myassays.com/video/qualitative-assays-and-data-qualification-with-myassays-desktop (3 min 33 sec)

- https://www.myassays.com/video/myassays-desktop-dynamic-worklist-import (6 min 34 sec)

- https://www.myassays.com/video/introduction-to-assay-validation-(elisa) (12 min 13 sec)

- https://www.myassays.com/video/introduction-to-assay-validation-(ria) (6 min 58 sec)

Working with Microplate Assays

- https://www.myassays.com/video/myassays-desktop-plate-layout-editor (4 min 57 sec)
- https://www.myassays.com/video/myassays-desktop-plate-layout-editor-(for-multiple-plate-analysis) (7 min 54 sec)
- https://www.myassays.com/video/elisa-analysis-with-myassays-desktop (11 min 45 sec)
- https://www.myassays.com/video/multiple-plate-analysis-with-myassays-desktop (6 min 25 sec)
- https://www.myassays.com/video/multiple-plate-analysis-with-myassays-desktop-(different-standard-concentrations-per-plate) (3 min 16 sec)
- https://www.myassays.com/video/myassays-desktop-fit-methods (9 min 16 sec)
- https://www.myassays.com/video/troubleshooting-multiple-samples-outside-curve-limits-with-myassays-desktop (5 min 10 sec)

Working with Multiplex Assays

- https://www.myassays.com/video/multiplex-data-analysis-with-myassays-desktop (9 min 25 sec)
- https://www.myassays.com/video/luminex-xponent-multiplex-data-analysis-with-myassays-desktop (10 min 12 sec)

Working with RIA

- https://www.myassays.com/video/migrating-from-a-legacy-system-to-myassays-desktop (12 min 25 sec)
- https://www.myassays.com/video/ria-data-analysis-with-myassays-desktop (6 min 15 sec)
- https://www.myassays.com/video/myassays-desktop-rack-layout-editor (5 min 46 sec)
- https://www.myassays.com/video/myassays-desktop-fit-methods (9 min 16 sec)
- https://www.myassays.com/video/wizard2-data-import-with-myassays-desktop (7 min 41 sec)
- https://www.myassays.com/video/introduction-to-assay-validation-(ria) (6 min 58 sec)
- https://www.myassays.com/video/quality-control-with-myassays-desktop (8 min

22 sec)

- https://www.myassays.com/video/wizard2-integration-with-myassays-desktop-(1-of-3) (2 min 48 sec)

- https://www.myassays.com/video/wizard2-integration-with-myassays-desktop-(2-of-3) (7 min 9 sec)

- https://www.myassays.com/video/wizard2-integration-with-myassays-desktop-(3-of-3) (7 min 28 sec)

Kinetic/Spectral Analysis

- https://www.myassays.com/video/kinetic-and-spectral-data-analysis-with-myassays-desktop (4 min 52 sec)

- https://www.myassays.com/video/myassays-desktop-xy-data-analysis-range (3 min 36 sec)

- https://www.myassays.com/video/curve-fitting-to-xy-data-with-myassays-desktop (4 min 13 sec)

- https://www.myassays.com/video/myassays-desktop-xy-reduction-peak-transform (10 min 19 sec)

- https://www.myassays.com/video/enzyme-kinetics-with-myassays-desktop (11 min 55 sec)

- https://www.myassays.com/video/myassays-desktop-xy-reduction-transforms (17 min 16 sec)

- https://www.myassays.com/video/myassays-desktop-xy-plot-report-element (3 min 35 sec)

Configuring Data Calculations

- https://www.myassays.com/video/myassays-desktop-transforms (7 min 2 sec)

- https://www.myassays.com/video/myassays-desktop-matrices (5 min 35 sec)

- https://www.myassays.com/video/myassays-desktop-sample-labels (5 min 15 sec)

- https://www.myassays.com/video/myassays-desktop-evaluations (10 min 43 sec)

- https://www.myassays.com/video/validation-with-myassays-desktop (6 min 40 sec)

- https://www.myassays.com/video/myassays-desktop-expressions (7 min 29 sec)

- https://www.myassays.com/video/myassays-desktop-expression-transforms (9 min

29 sec)

- https://www.myassays.com/video/myassays-desktop-sample-label-expressions (6 min 48 sec)
- https://www.myassays.com/video/myassays-desktop-validation-expressions (7 min 11 sec)
- https://www.myassays.com/video/myassays-desktop-evaluation-expressions (7 min 51 sec)
- https://www.myassays.com/video/myassays-desktop-reference-curve-overlay (5 min 11 sec)
- https://www.myassays.com/video/myassays-desktop-custom-fit (2 min 55 sec)
- https://www.myassays.com/video/troubleshooting-multiple-samples-outside-curve-limits-with-myassays-desktop (5 min 10 sec)
- https://www.myassays.com/video/quality-control-with-myassays-desktop (8 min 22 sec)
- https://www.myassays.com/video/myassays-desktop-scatter-plot-xy-report-element (5 min 53 sec)
- https://www.myassays.com/video/myassays-desktop-multiple-standard-curve-fits-on-a-single-plate (14 min 37 sec)
- https://www.myassays.com/video/adding-conditional-transforms-with-myassays-desktop (3 min 47 sec)
- https://www.myassays.com/video/adding-ec-and-ic-values-with-myassays-desktop (4 min 57 sec)

Reporting

- https://www.myassays.com/video/reporting-with-myassays-desktop-(an-introduction) (2 min 20 sec)
- https://www.myassays.com/video/myassays-desktop-report-elements (4 min 55 sec)
- https://www.myassays.com/video/sheet-reports-with-myassays-desktop (6 min 38 sec)
- https://www.myassays.com/video/page-reports-with-myassays-desktop (7 min 24 sec)
- https://www.myassays.com/video/sample-table-ordering-with-myassays-desktop

(4 min 42 sec)

- https://www.myassays.com/video/myassays-desktop-sample-labels (5 min 15 sec)
- https://www.myassays.com/video/myassays-desktop-matrix-references-in-sample-labels (4 min 28 sec)
- https://www.myassays.com/video/sample-labels-column-with-myassays-desktop (5 min 2 sec)
- https://www.myassays.com/video/ordering-field-data-with-myassays-desktop (4 min 12 sec)
- https://www.myassays.com/video/myassays-desktop-reference-curve-overlay (5 min 11 sec)
- https://www.myassays.com/video/chart-appearance-editor-in-myassays-desktop (3 min 59 sec)
- https://www.myassays.com/video/myassays-desktop-results-naming-with-meta-data (5 min 11 sec)
- https://www.myassays.com/video/myassays-desktop-scatter-plot-xy-report-element (5 min 53 sec)
- https://www.myassays.com/video/myassays-desktop-curve-overlay (6 min 27 sec)
- https://www.myassays.com/video/myassays-desktop-xy-plot-report-element (3 min 35 sec)

Transforms

- https://www.myassays.com/video/myassays-desktop-standard-curve-fit-transform (8 min 45 sec)
- https://www.myassays.com/video/myassays-desktop-general-curve-fit-transform (7 min 2 sec)
- https://www.myassays.com/video/dose-response-curve-analysis-with-myassays-desktop (6 min 3 sec)
- https://www.myassays.com/video/dose-response-curve-parameters-with-myassays-desktop (2 min 19 sec)
- https://www.myassays.com/video/updates-to-dose-response-curves-in-myassays-desktop (6 min 25 sec)
- https://www.myassays.com/video/curve-fitting-to-xy-data-with-myassays-desktop

(4 min 13 sec)

- https://www.myassays.com/video/myassays-desktop-xy-reduction-peak-transform (10 min 19 sec)

- https://www.myassays.com/video/myassays-desktop-expression-transforms (9 min 29 sec)

- https://www.myassays.com/video/myassays-desktop-xy-reduction-transforms (17 min 16 sec)

- https://www.myassays.com/video/adding-conditional-transforms-with-myassays-desktop (3 min 47 sec)

- https://www.myassays.com/video/myassays-desktop-dose-by-position (3 min 14 sec)

Automating Data Analysis

- https://www.myassays.com/video/myassays-desktop-with-folder-poll (4 min 33 sec)

- https://www.myassays.com/video/myassays-desktop-analysis-launcher (5 min 12 sec)

- https://www.myassays.com/video/myassays-desktop-analysis-launcher-with-tweak-files (3 min 11 sec)

- https://www.myassays.com/video/kaleido-3-0-data-analysis-automation-with-myassays-desktop (4 min 43 sec)

Protocols

- https://www.myassays.com/video/download-protocols-for-myassays-desktop (3 min 47 sec)

- https://www.myassays.com/video/create-a-protocol-with-myassays-desktop (11 min 33 sec)

- https://www.myassays.com/video/dose-response-curve-analysis-with-myassays-desktop (6 min 3 sec)

- https://www.myassays.com/video/dose-response-curve-parameters-with-myassays-desktop (2 min 19 sec)

- https://www.myassays.com/video/myassays-desktop-parallel-line-analysis-protocol (6 min 58 sec)

- https://www.myassays.com/video/liquid-handling-quality-control-with-myassays-desktop (1 min 52 sec)

Data

- https://www.myassays.com/video/import-data-with-myassays-desktop (9 min 33 sec)

- https://www.myassays.com/video/myassays-desktop-transforms (7 min 2 sec)

- https://www.myassays.com/video/myassays-desktop-matrices (5 min 35 sec)

- https://www.myassays.com/video/myassays-desktop-meta-data (5 min 46 sec)

- https://www.myassays.com/video/myassays-desktop-field-data (6 min 21 sec)

- https://www.myassays.com/video/data-flagging-with-myassays-desktop (7 min 50 sec)

- https://www.myassays.com/video/myassays-desktop-sample-labels (5 min 15 sec)

- https://www.myassays.com/video/sample-table-ordering-with-myassays-desktop (4 min 42 sec)

- https://www.myassays.com/video/custom-flag-labels-in-myassays-desktop (4 min 10 sec)

- https://www.myassays.com/video/myassays-desktop-matrix-references-in-sample-labels (4 min 28 sec)

- https://www.myassays.com/video/ordering-field-data-with-myassays-desktop (4 min 12 sec)

- https://www.myassays.com/video/multiplex-data-analysis-with-myassays-desktop (9 min 25 sec)

- https://www.myassays.com/video/data-export-with-myassays-desktop (5 min 14 sec)

- https://www.myassays.com/video/myassays-desktop-results-naming-with-meta-data (5 min 11 sec)

- https://www.myassays.com/video/myassays-desktop-numerical-field-data (8 min 46 sec)

- https://www.myassays.com/video/myassays-desktop-advice-feature (8 min 29 sec)

- https://www.myassays.com/video/constraining-curve-fits-with-myassays-desktop (6 min 53 sec)

- https://www.myassays.com/video/myassays-desktop-qc-observation-references-in-advice-conditions (2 min 20 sec)

Enhanced Security

- https://www.myassays.com/video/myassays-desktop-enhanced-security-introduction (7 min 44 sec)

- https://www.myassays.com/video/myassays-desktop-enhanced-security-myassays-login-authentication (6 min 57 sec)

- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration (7 min 50 sec)

- https://www.myassays.com/video/securing-data-import-with-import-requires-no-modification (4 min 1 sec)

- https://www.myassays.com/video/securing-data-import-with-an-approved-data-folder (3 min 51 sec)

- https://www.myassays.com/video/myassays-desktop-enhanced-security-audit-trail (4 min 21 sec)

- https://www.myassays.com/video/securing-data-import-with-data-certification (4 min 34 sec)

- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(1-of-4) (11 min 15 sec)

- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(2-of-4) (13 min 23 sec)

- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(3-of-4) (9 min 53 sec)

- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(4-of-4) (5 min 58 sec)

- https://www.myassays.com/video/myassays-desktop-pro-enhanced-security-with-envision (7 min 57 sec)

- https://www.myassays.com/video/introduction-to-adding-data-certification-to-enspire (3 min 40 sec)

- https://www.myassays.com/video/configuring-and-using-enspire-with-myassays-desktop-pro-enhanced-security (16 min 8 sec)

Working with EnSight/Kaleido 3.0

- https://www.myassays.com/video/introduction-to-kaleido-3-0-and-myassays-desktop (1 min 48 sec)
- https://www.myassays.com/video/kaleido-3-0-data-export-and-import-into-myassays-desktop (3 min 37 sec)
- https://www.myassays.com/video/create-a-new-protocol-with-kaleido-3-0-xml-data-in-myassays-desktop (6 min 12 sec)
- https://www.myassays.com/video/kaleido-3-0-data-analysis-automation-with-myassays-desktop (4 min 43 sec)

Working with WIZARD²

- https://www.myassays.com/video/wizard2-integration-with-myassays-desktop-(1-of-3) (2 min 48 sec)
- https://www.myassays.com/video/wizard2-integration-with-myassays-desktop-(2-of-3) (7 min 9 sec)
- https://www.myassays.com/video/wizard2-integration-with-myassays-desktop-(3-of-3) (7 min 28 sec)
- https://www.myassays.com/video/wizard2-data-import-with-myassays-desktop (7 min 41 sec)
- https://www.myassays.com/video/ria-data-analysis-with-myassays-desktop (6 min 15 sec)
- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(1-of-4) (11 min 15 sec)
- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(2-of-4) (13 min 23 sec)
- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(3-of-4) (9 min 53 sec)
- https://www.myassays.com/video/myassays-desktop-enhanced-security-configuration-for-wizard2-pc-(4-of-4) (5 min 58 sec)

IQ/OQ with MyAssays Desktop QT

- https://www.myassays.com/video/myassays-desktop-qualification-testing-tool (2 min 36 sec)

- https://www.myassays.com/video/myassays-desktop-qualification-testing-tool-setup-and-use (8 min 5 sec)

What's New?

Updates in MyAssays Desktop Pro R6 (detailing changes since R5.3)

[Play Video]

Advice Feature

Include automatic advice prompts inside protocols to help users identify and trouble-shoot common issues easily by providing helpful text and/or links to additional resources. Advice messages can be displayed when conditions are met such as poor %CV or low R^2 values. Use the advice feature to define your own conditions and messages to display. Video Walkthrough...

XY Reduction Area Under Curve Transform

New XY Reduction transform named **XY Reduction Area Under Curve** for computing Area Under Curve using trapezia or summation method. Video Walkthrough...

Scripting Feature

Introducing new scripting capabilities to MyAssays Desktop protocols; this opens up a wide range of possibilities for adding new functionality to your protocols. Scripts have access to the MyAssays Desktop object model which means that they can perform custom processing of collected data, protocol settings and results. A script can output results to external resources (such as files or databases) or output custom content to the MyAssays Desktop report.

XYPlot Report Element

New report element to provide a chart of overlaid XY plots of the specified positions from the specified matrix and container. Select which positions to plot and overlay

together. Use this control to include overlaid kinetic or spectral plots in your report. Video Walkthrough...

SampleReportLabel Matrix Modifier

A sample report label definition expression condition can now make reference to data in a preceding matrix. This is available through a matrix number modifier to the x reference. E.g. **x.{1-based matrix number}** (x will continue to refer to the value of the sample.) For example, with the following label condition each sample in the current matrix will be labelled based on the relationship of data on the first matrix (x.1) and the computed asymptotes of the curve: **and (x.1 > min (tov1.a,tov1.d), x < UTK CAL6)** Video Walkthrough...

Reporting Enhancements

- Sheet Print Scaling Options - New XML attribute SheetPrintScaling on MatrixTransformAnalysis\Report with options: • None • FitSheetOnOnePage • FitAllColumnsOnOnePage • FitAlRowsOnOnePage FitAllColumnsOnOnePage is most useful for printing sheet views where contents should not be split with horizontal page breaks.

- Report Element Text IsBold - Option to display text element in bold.

- Word engine output with no page template - Improvements to Word exports where no page template is defined. This include improved spacing between report elements.

- SampleTableColumnPosition - New XML attribute SampleTableColumnPosition on Transform\ReportContent\Item for setting the column position.

- PositionsText - New XML attribute PositionsText attribute on SampleTable to provide a custom name for the Positions column.

Dose-Response Curve Enhancements

Various enhancements to Dose-Response Curve analysis. Video Walkthrough...

- Dose by Position - Define the dose of each sample by each position. This enables complete flexibility in sample arrangement. Video Walkthrough...

- Plot Separate Charts - New option to plot a separate chart for each dose-response curve (in addition to overlaying).

- {SampleID} Macro - If PlotSeparateCharts="true" then new {SampleID} macro can be reference in DRC attributes: • ChartTitle • XAxisTitle • YAxisTitle This macro expands to the Sample ID of the separate chart's group

- Error Bars - Option to include error bars on Dose Response Curve calibrator points. Note, this only applies where a separate chart is used to plot each curve.

- Plot Calibrators - Option to include or exclude the calibrator points on the Dose Response Curve chart.

- Named FitTable\Evaluation - Option to name the result of an evaluation so that it can easily be referred to via a TOV. If the Name attribute is specified for an Evalaution then a TOV is created (for each evaluated sample).

- Multiple Type Support - Dose-Response analysis can now be performed on multiple sample types being analysed and plotted together by the same transform (e.g. Unknown, Reference and Control).

- Multiple plate DoseResponseCurves FitTable Evaluation group scoped coefficient expression references - FitTable\Evalution\Expression support multiple plate group references. Group references can be used to refer to the coefficient of a specific group, e.g. "c.Unknown1" is the c coefficient of the first unknown on the current plate. To refer to the group of a specific plate use #2, e.g. "c.Unknown3#1" refers to the value of the c coefficient for the third Unknown group on plate 1. (Note, it is not currently possible to forward reference plates, you can only reference data on plates already computed at time of evaluation, i.e. the references plate must precede the current plate.)

Curve Fitting Enhancements

- Curve Overlay Support for General Curve Fit - Report element and editor for overlying General Curve Fit curves with Curve Overlay report element.

- Standard Curve Fit Chart Title - Move convenient option for setting Standard Curve Fit Chart Title via chart editor.

- New Fit Constraint Property editors for defining fitting constraints in transforms: • Standard Curve Fit • General Curve Fit • Dose Response Curves Video Walkthrough...

Folder Poll Integration Enhancements

Various enhancements to Folder Poll integration including:

- Include Subdirectories option
- File Filter now supports files with no extension
- Support for encrypting Folder Poll configuration

Data Import Enhancements

- MicroBeta2 Import - Support for MicroBeta2 .dat files (single and multiple plate)
- Multiple File Cells Import with empty cells - New support for cells importing (e.g. Excel import) where cells are empty across multiple files.

Expressions Enhancements

- Various new listing handling functions
- Various new function for obtaining lists of values from XY data (ready for further processing). For example, **mean (PosYValuesByIndex(1))** reports the average of all Y not-flagged values of position A1 (for the evaluation context's container and matrix)

Multiple Matrix Editing

Select multiple matrices for applying common configuration settings. Video Walkthrough...

PositionExpression All Plates/Analytes

New option to apply a layout expression configuration to all plates or analytes. Additional improvements to support a different configuration for each plate/analyte.

Reference Sample Type

New preinstalled Reference sample type.

ValidationsTable Include Failure Details

Where a validation fails an additional column **Failed Samples** will list all the samples that failed the validation. Note this only applies to failed expressions of type "Expression with Every Sample Group" or "Expression with Every Sample Replicate". The new behaviour is enabled by default but can be disabled through the **IncludeFailureDetails** XML attribute.

Suppress Advice Syntax Error Option

Where there is an advice syntax an error message is displayed in the report by default. In some cases this is not desirable. To handle these cases there is an optional attribute under AdviceTables\Table element: **SuppressSyntaxErrors**. This is false by default but if set to true (can only be set in XML) then any advice syntax errors associated with the advice table will not be displayed in the report.

Blank Correction and XY Blank Correction transform with multiple plate and blank on only one plate

For multiple plate assays, if there is > 1 container and there is only 1 plate containing the specified BlankType and BlankGroup, then MAD will now automatically perform the blank correction using that single blank group across containers. For example, if reading 4 plates with blank correction defined to use sample Blank1 but there is only 1 Blank1 group defined on plate 2 then all samples will be blank corrected using the value of Blank1 from plate 2. This applies to both the (endpoint) Blank Correction transform and the XY Blank Correction transform

Flagging XY Positions

Flagging XY positions was slow, this process has been greatly speeded up.

New Example Files

Parallel Line Analysis example files

Fixes in MyAssays Desktop Pro R6 (detailing changes since R5.3)

Fixed: 3D View not working correctly with certain regional settings

Fixed: XY points appeared as flagged in XY Chart view when they are not after importing XY data.

Fixed: DoseResponseCurves Flagged Samples causes Unable to produce a valid report for the given configuration. Please see details in a log file.

Fixed: MatrixView report element did not now work with XY Data.

Fixed: If imported Sample ID values contained a comma then they were not displayed correctly in Sample Table.

Fixed: For Auto Smoothed Spline fit method, in certain cases this would result in unexpected error message: Specified argument was out of the range of valid values. Parameter name: index.

Fixed: Unexpected behaviour with Insert Transform.

Fixed: Add provisions to minimise possibility of Enhanced Security log file (audit trail or login log) becoming corrupted. Also, better handling of corrupted log states.

Fixes in MyAssays Desktop Pro R5.3 (detailing changes since R5.2)

Fixed: System.ArgumentException: The given Pmc data could not be formatted.

With certain system Region and Language Format settings (such as Corsican), MAD would fail to import data from selected files. This issue also impacted the Standards Curve with Titres and Parallelism Plots (Dual) protocol.

Updates in MyAssays Desktop Pro R5.2 (detailing changes since R5)

Support for Victor Nivo ALPHA measurements

As included in Nivo 2.9.31 update

Enhanced Security Autologin Optional Support for Any Windows Account

Via new AutologinAnyWindowsAccount registry setting.

Fixes in MyAssays Desktop Pro R5.2 (detailing changes since R5)

Fixed: ArgumentNullException selecting "Request an Assay Protocol"

Fixed: File | Information | Assay Name copy button does nothing.

Fixed: MS Word does not always get focus after pressing Edit Template button.

Fixed: New Protocol Wizard would crash if USB device was removed (after importing data from USB device)

Fixed: If launching Analysis with missing or incorrect assay-protocol: Internal unexpected error occurred: Unity.ResolutionFailedException appeared.

Various intermittent stability issues with Enhanced Security

- Fixed: Redundant and obscured Save Changes Prompt with ES and Windows Log In when using **/calc** and **/exit** with an account that does not have protocol save permissions (e.g. Run and Review Only). With this fix it is now not necessary to use **/noappwin** workaround in this case.
- Fixed: MyAssays.Desktop.Explorer has stopped working intermittent issue when launch MADE ES.
- Fixed: Log Out and Exit intermittently failed to complete.
- Fixed: Intermittent error when launching MADE: System.Runtime.InteropServices.COMException (0x80070006): The handle is invalid. (Exception from HRESULT: 0x80070006 (E_HANDLE))
- Fixed: Intermittent error when launching MADE: System.IO.IOException: The handle is invalid.
- Fixed: Intermittent error when launching MADE:

System.UnauthorizedAccessException: Access is denied.

- Fixed: Improvements to handle unstable connection to SyncService.

Updates in MyAssays Desktop Pro R5 (detailing changes since R4.2)

RIA Support

- WIZARD² Gamma Counter Data Import Support (CSV and XML) - Video Walkthrough...
- WIZARD² Gamma Counter Integration Video Walkthrough...
- WIZARD² Gamma Counter Integration with Enhanced Security Video Walkthrough...
- 29 Example RIA protocols included along with common rack layouts

EnVision Import Support

- Support for importing multiple matrix kinetic data (in Plate Format)

Chart Appearance Editor

- Update report charts without recalculation using new interactive chart editor – Video Walkthrough...

Kinetic Data X-Axis Time Options

- Plot kinetic data with milliseconds, seconds, minutes, hours as x axis units

Data Analysis

- Robust Standard Deviation Function – an alternative to standard deviation that is better suited for handling outliers
- Median Absolute Deviation Function
- QC Observation References – specify evaluation and validation conditions to compare assay results against historical data

- Sample Table Filter by Regular Expression, Numeric Expression and Text
- Numerical Field Data (including support for analysis on numerical field data references)

Reporting

- Import Certification Report Element - Video Walkthrough...
- Single-Value Value-Bars removed from tables
- Axis Log Base Options
- Report Element Size Options
- Report Element Move to Top/Bottom Controls
- Matrix View Heat Map Options
- Evaluation Tables Custom Headers
- Standard Curve Fit Calibrator Plot Options - select to display replicates and/or averages in chart
- Sample Group Numbering Reporting Options – include/exclude sample group numbers as applicable
- Sample ID Type Selection – assign Sample IDs to sample types other than Unknowns

File Management

- Field Data Import Support from Command Line
- Field Data Import Support in Launcher Tool
- Dynamic Worklist Filename Import - Video Walkthrough...
- Export Naming – Append Number Option
- Active Windows List (in MADE Welcome)

Enhanced Security

- User Management Logging - Video Walkthrough...
- Audit Trail and Log In Log Print/Export Action Logging

MyAssays Desktop Explorer Launch

- Launch notification added (including notification if MADE is already running and switching is in pro)

Fixes in MyAssays Desktop Pro R5 (detailing changes since R4.2)

File | Information | Assay Name copy button not working

Fixed in R5.

Redundant and Obscured Save Changes Prompt with ES and Windows Log In when using /calc and /exit with an account that does not have protocol save permissions (e.g. Run and Review Only)

Fixed in R5.

MS Word does not always get focus when user presses Edit Template button.

Fixed in R5.

Report Initialization Error with Empty Histogram

Fixed in R5.

"Failed to save assay results using current Results Naming setting. Press Save as to save assay results to another location." Error with long filenames

Fixed in R5.

DNA Quantification (96 well) Protocol only allows 2 standards in edited layout

Fixed in R5.

"Positions were not measured" with multiplex assay

Fixed in R5.

General Curve Fit Evaluations corrupted report

Fixed in R5.

Cannot create Sample Types folder at: \My Assays\Sample Types error message when using New Protocol Wizard

Fixed in R5.

XYPlot showed data points table

Fixed in R5.

Auto-Print settings were not saved

Fixed in R5.

Significant Figures Trailing Zeroes

Prior to R5, numerical the Significant Figures numerical formatting would truncate trailing zeroes after the decimal point. The Significant Figures numerical formatting method has been updated to follow the widely accepted definition of Significant Figures https://en.wikipedia.org/wiki/Significant_figures to include trailing zeroes after the decimal point.

MyAssays Desktop Explorer occasionally crashed on launch when using Enhanced Security and MyAssays Desktop Log-In Authentication

Additional stability enhancements implemented in R5.

Updates in MyAssays Desktop Pro R4.2 (detailing changes since R3.2)

Online Training Course

Online training course with extensive video resources and assessments available from here.

Enhanced Security Edition

The Enhanced Security edition is now available for secured and traceable work under regulatory requirements. It provides user-management and security protections that comply with working in GxP and 21 CFR Part 11 environments. This includes:

- Limited access to features, protocols, and data using strong authentication services and login settings

- Secured working environment for local and domain user accounts

- Tracked user sessions including logging in and out, as well as unauthorized attempts

- Different authorization groups that allow or deny users to access features, change (create, modify, or delete) the data and protocols, or a combination thereof

- Time and date stamped audit trail of authorized user activities

- Verified source data quality and integrity with cryptographic validation of electronic signatures

- Secured workflow automation and simplification for different environments and data handling methods

- No complicated management or redundant administrator tasks

> The Enhanced Security edition is available for users with Enhanced Security license.

New Command-Line Parameters

- **/notopmost** – Use this to disable bringing the MAA window to the top.

- **/autologin** – When working with Enhanced Security edition, this command allows you to run routine operations under an Autologin account.

Field Data

Configure your protocols to include important information such as additional metrics from your instrumentation source or detector parameters for each sample position. With new Field Data feature, you can store all relevant details in field matrices, label them, and report alongside raw measurements and the results of data analysis.

If readings contain more than 5 field matrices, including all matrices will make the report excessively large and hard to manage. That is why no field data matrices are included into the report by default. You can add additional matrices using **Assay Properties** | **Matrices** | **Include in Sample Tables** when configuring the data analysis.

DOC and DOCX Export Types

When you select Custom export format, you can select to export the data analysis results in the .doc and .docx extension types.

Updates in Expressions Library

Row and Column References

Now you can refer to samples in specific columns or rows in expressions.

LayoutType Function

For writing expression-based conditions for a particular sample type.

Conditional Function Update

To shorten expressions, now you can use **if** as a contraction of the **ifthenelse** function.

New Calculation Function

When working with curve fitting, now you can calculate the area under the 4PL or 5PL curve with **auc** function.

Syntax: **auc(method,xmin,xmax,number,coefficients...)**

Calculates the area under the plotted 4PL or 5PL curve using the sum of trapezia method. The area under the curve is the area between the curve and the x-axis. Areas below the x-axis are considered negative.

Input parameters:

- **method** – This is either 4PL or 5PL fit method. Specify within single or double quotes: **"4PL"** or **'4PL'**; **"5PL"** or **'5PL'**.

- **xmin** – The minimum numerical value of the area on the x-axis.

- **xmax** – The maximum numerical value of the area on the x-axis.

- **number** – The number of trapezium intervals for computing the area under the curve. Higher number of intervals gives more accurate results. We recommend to use a value of 1000.

- **coefficients** – The coefficients of the selected **method** that must be specified in the following order:
  For 4PL: **a**, **b**, **c**, **d**
  For 5PL: **a**, **b**, **c**, **d**, **m**

Changed Version Numbering

Starting from **R4**, MyAssays Desktop is versioned by the release number.

Constrain Coefficients of the Fit

When working with endpoint curve-fitting transforms (Dose–Response Curves, General Curve Fit, and Standard Curve Fit), you can define constraints to guide the curve fitting process as required. To do this:

1. In the **Assay Properties** panel, select the **XML** tab.
   If the **XML** tab is not immediately visible, click **<< Show All Properties** to expand.

2. Depending on the transform you're adding coefficient constraints for, locate the appropriate element:

   - For Standard Curve Fit, the **StandardCurveFit** element.

   - For General Curve Fit, the **GeneralCurveFit** element.

   - For Dose–Response Curves, the **DoseResponseCurves** element.

3. Add a **FitConstraints** child element.

4. Add a child element **Constraint** for each required operation. Set the attributes in accordance with the syntax below.

5. Add a child element **Constraint** for each required operation.

For each constraint, with the **Coeff** attribute, specify the coefficient on which the constraint will be applied.

The values of these constraints can be specified using an expression (that results in a single numerical value) and may refer to a TOV. The interpretation of the constraint depends on the type of restriction setting:

- **Fixed** – Sets a coefficient to a fixed value

- **LowerBound** – Limits the search range for the coefficient to be greater than the specified constraint

- **UpperBound** – Limits the search range for the coefficient to be less than the specified constraint

> The **UpperBound** and **LowerBound** attributes can be used separately or in a conjunction. However, **Fixed** type overrides any **UpperBound** or **LowerBound** setting.

Dose–Response Curves Transform Updates

- **Overlay Multiple Plate Charts** – For multiple plate assays, select this check box to plot the charts from all plates on a single overlaid chart.

- **Label the Results in the Dose–Response Fit Table** – When configuring custom evaluations, you can apply labels to results that satisfy your set conditions (In the **XML** tab.):

```
<FitTable>

    <Evaluation Description="R²" Expression="R2">

        <SampleReportLabel>

            <Rule Condition="x &lt; 0.9" Label="{x}
LOW" Symbol="None" BackColour="#FFFFFF00"
ForeColour="#FFFF0000" />

        </SampleReportLabel>

    </Evaluation>

</FitTable>
```

- **Reference Specific Dose–Response Curves in Expression** – With **groupnum** context variable, you can refer to the group number of the dose-response curve on the current plate.

- **Automatically Determine the Lowest and the Highest Values** – When calculating area under curve with **auc** function (described above), use **dosemin** to automatically determine the minimum *x* value and **dosemax** to automatically determine the maximum *x* value.

- **Constrain Dose–Response Curve Fits** – You can constrain dose–response curves fit coefficients to compare the resulting curves.

- **Select Chart Size for Page-Based Report** – Select the size of chart in the Transform Content report element.

- **Scaling of the Chart** – When selecting to show or hide the sample groups, the chart is adjusted to provide a clear view of both individual and overall curves.

New Endpoint Transforms

Expression by Sample Type

With this transform, you can evaluate different expressions (in terms of *x*) for each sample type defined on the layout simultaneously.

General Curve Fit

New transform that allows fitting a curve with external standards specified by the user. You can also define what values (the *x*s or *y*s) are computed from the plotted curve.

XY Reduction Peak from Fit

Using this new reduction transform, you can reduce kinetic or spectral plots to interpolated peak value determined from the fitted curve at a position. The result can be set to the *x* or *y* value at the peak, with the peak being defined as either the minimum or maximum value.

Reference External Resources in Protocols

Using the Resource Reference Manager, you can include links to external files, folders, and websites in the Overview tab of assay protocols.

Label Symbols

Clearly indicate if the calculated results satisfy your filters with graphical icons alongside your label text:

- **None** – Display no icon
- **Pass** – Display the ✔ icon
- **Fail** – Display the ✖ icon
- **Question** – Display the ❓ icon

Improved Evaluation UI

Now evaluation tables and associated evaluations are displayed in a tree view. Select the evaluation or evaluation table to configure its settings. Also, now you can configure results to be reported with label and/or colour in accordance with the specified conditions.

Named Evaluation Variables

With **Name** setting, you can name your evaluation result and use it in further analysis. This is useful when splitting lengthy evaluation expressions into smaller parts, applying labels, or flagging using the evaluation result.

Improved Validation UI

Now validation tables and associated validations are displayed in a tree view. Select the validation to configure its settings.

Include Header in Evaluations and Validations Tables in the Report

Using this new setting, you can choose to report Validations Tables or Evaluations Tables with or without a header.

New Print Options

Now **File** backstage view in MyAssays Analysis features **Print** tab where you can configure the following printing settings for your assay:

- Select **Print report on first calculation** check box to automatically print the first generated report using the default printer.
- With **Print** option, you can print current version of the results with the default associated printer.
- With **Custom Print**, you can configure the printer and printing settings for your

report.

- Click **Print Preview** to review the layout of your report before printing it.

Updated Transforms Descriptions in MAA

Support for Kaleido 3.0 XML

Support for Kaleido 3.0 XML format. The updates include support of:

- Import text-based values where type="string" as field data (e.g. "Analysis Quality"). Limited to endpoint only single plate measurement files (field data is not imported for kinetic/multiple plate image analyses)
- Support updated time string format HHH:MM:SS.ms (and HH:MM:SS.ms)
- Remove previous time point workaround (implemented for Kaleido 2.0 bugs)
- Support multiple plate data in single file (plateBC attribute)
- Support new assay type TRF with two time windows, data to be imported as two endpoint matrices (one for each window)
- Support for backwards compatibility for Kaleido 2.0 (as far as possible)
- New Folder Poll release to support new Kaleido 3.0 output folder ("C:\ProgramData\PerkinElmerKaleido\Data Transfer") whilst retaining support for Kaleido 2.0 configuration
- Integrated with changes for Nivo 2.5 to support non-measured wells

For the latest documentation relating to working with MyAssays Desktop Pro and EnSight (via Kaleido software):

- MyAssays Desktop Pro for Kaleido 3.0 (Installation Notes).pdf
- Using MyAssays Desktop with Kaleido 3.0.pdf

WIZARD² Import Integration

Improved import of measurement data from the WIZARD² manager software for RIA and rack-based assays. The integration includes automatic import of associated metadata, field data, sample bar code, and spectrum channel counts from the XML files. The import of partial plates (the unmeasured positions are imported as empty) and plates that contain flagged data is also supported.

The files with combination of rack sizes or with multiple repeats (where Repeat≠1) are not supported with this enhancement.

Support for Import of Nivo 2.5 XSLX Format

Extended automatic import of data from the Victor Nivo 2.5 format. The updates include support of:

- The new <INTEGER><SPACE>OPERATION naming convention

- List and plate formats for kinetic measurements

- Change in Nivo export format:

  - Combination of two technologies, such as Abs kinetics and FI Endpoint, in one protocol exported in a single Excel sheet one below the other.
    The previous version (v2.0.2) exported each of them to a different sheet.

  - Import of empty cells as excluded values (instead of 0)

Backwards compatibility to 2.0.2 is maintained as far as possible.

Curve Overlay Enhancements

For library curves stored in the default **Curves** folder (under the **MyAssays** root folder), now you can specify only the filename and extension of the file instead of the full path (which is required for the files outside your root folder).

Also, you can specify the precision for both axes on the chart with **XAxisPrecision** and **YAxisPrecision** attributes.

Installed Protocols Updates

Some installed assays are available in demo mode unless a particular Edition or Add-On is installed.

Dual DPM

New protocol preconfigured for rack-based assays and RIA.

Dose–Response Curves for EC50 Updates

- This protocol is now available for both 96- and 384-well microplate layouts.

- Protocol now produces measurement and calculation details for all calibration doses used in the fit.
- Improved scaling of the chart when viewing it with or without data points.

ELISA (384-well)

Updated example measurements.

XY Plot Report Element

Using this feature, you can include a chart for one or more XY positions in your report. The y-axis of the chart corresponds to measurement values; the x-axis represents (depending on the assay) cycle, time, or wavelength values. The data points on plots for different positions are denoted with different colours. The flagged positions or data points are not included in the chart.

For example:
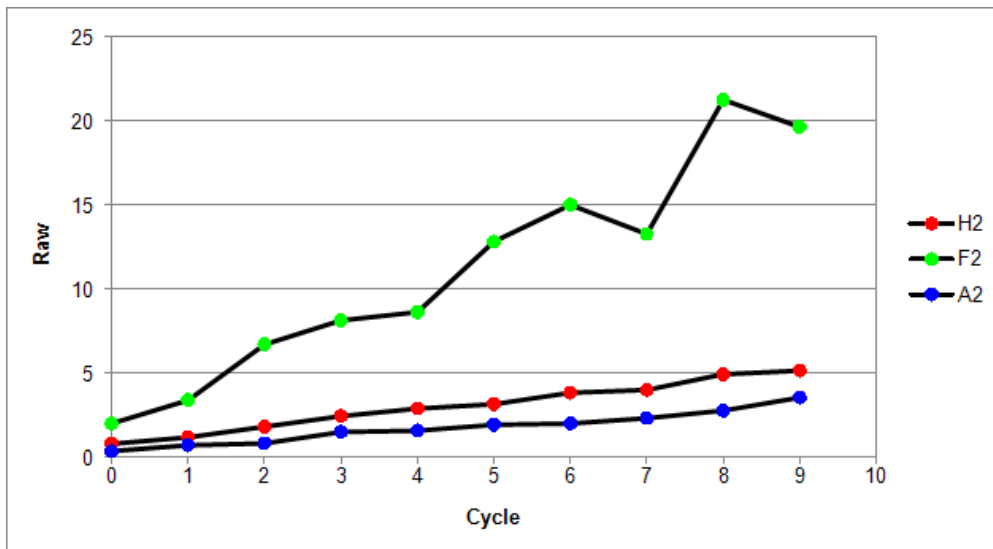
This report element is specified in the XML editor, by adding the **XYPlot** child element to the **Report** element and defining it with the following syntax:

<XYPlot Id="*Id*" MatrixId="*Id*" Container="*Number*" Positions="*List of positions, e.g., A1,A2,A3*" Include="*Boolean*" SheetName="*Name*" XAxisTitle="*Title*" YAxisType="*Type*" YAxisTitle="*Title*" XAxisType="*Type*" Title="*Title*">

Empty Endpoint Data

For endpoint data, the empty values now are denoted with the "**-**" hyphen symbol. This functionality is applied automatically on import, or you can mark the points as empty in MAA, in the **Pad** view of the **Measurements** tab.

Flagged Values Representation in Plate View

When viewing measurements in MAA or while running New Protocol or Import wizards, data containing any flagged values (outliers) will be presented with:

- The cross through the XY thumb plots
- The strike for endpoint and field data values

Reporting Cosmetic Enhancements

- **New Default Font** — The reports are now generated using the Tahoma font of 10 pt size by default.
- **Borders of a Chart** — The outer borders in chart images are no longer displayed by default. To include borders in you report charts, add **ShowBorder** Boolean attribute to the chart configuration in XML.
- **Grid Line Display** — The charts now appear with both vertical and horizontal grid lines.

Learn more about customizing charts appearance at Change the Units and Number Format of the Charts topic.

Select Colour Scheme for the Matrix

In the **Matrices** tab, you can now format any matrix with a three-colour scale. Using this formatting, the data in the associated Sample Table column, Matrix Table, or both will be displayed with a gradation of the three selected colours based on the result values.

Sample Table Enhancements

Include or Exclude Icons

In the Sample Table report settings, you can now select if the coloured circle icons to the left of each sample are included or excluded from the report.

Sample Data Processing Settings for Endpoint Matrices

When working with endpoint assays, you can now alter the way the results are included in the Sample Table using check box options that reveal the applicable data processing settings. Report a meaningful subset of the results at a glance using:

- **Filter** – Include only the results that satisfy the filter condition applied to any sample table column. You may also use Sample Label to filter the rows with.

- **Limit** – Restrict the number of samples (rows) to display in the Sample Table.

- **Order** – Sort the data of a specific column from highest to lowest and vice versa for numerical values, or in alphabetical or reverse alphabetical order for textual content.

Include Standard Deviation of Raw Data in Curve Data Tables

When using the Standard Curve Fit or the Dose–Response Curves transform, you can add **IncludeRawSD** to the Curve Data Table in XML. Using this, the table will include a column that lists standard deviation calculated for raw measurements.

New Report Macro

The **{PlateID}** macro is available for use in the **Title** and **Sheet Name** properties. This macro expands to the plate ID as it appears under the **Measurements | Plate IDs**.

Wording Enhancements

For Best Fit Results table, the title of the **Position** column is changed to **Rank**.

When importing data from a file with built-in Excel selection (in New Protocol or Import wizard), the metadata item **Selection** is renamed to **Measurement Cells Selection**.

Updated LANCE cAMP installed protocol's overview: now it correctly displays 615nm and 665nm channels.

The XY Reduction Peak transform is renamed to the XY Reduction Peak Point.

Value Bars in Sheet View

Now any configured Value Bars appear in Sheet View.

Configuration of the Chart Appearance in the Report

Axes Crossing Customization for Fit Charts

When working with endpoint curve-fitting transforms (Standard Curve Fit, General Curve Fit, and Dose–Response Curves) or configuring chart report elements (Curve Overlay, Histogram, and XY Plot), you can set where you want the x-axis to cross y-axis and vice versa with **VerticalAxisCrosses** and **HorizontalAxisCrosses** XML attributes. By default, the axes cross each other at the minimum data point value. Add and define any or both of the crossing positions inside the transform element in the XML editor.

Display of Units and Numbers

For charts generated by endpoint curve-fitting transforms, report element charts, and QC Output Levey-Jennings and CUSUM charts, you can define the major, minor units and specify number format for values of each axis through the XML editor.

1. Depending on which chart you're customizing, locate:

   - The transform's element (such as **DoseResponseCurves**)

   - Under the **Report** element, the chart child element (such as **Histogram**)

   - When running QC Wizard, select the XML tab, and add **Chart** child element to the **Observation**

2. Add any needed attributes and specify their syntax:

   - **XAxisMajorUnits** and **YAxisMajorUnits** – Numeric intervals between numbers on the associated axis.

- **XAxisMinorUnits** and **YAxisMinorUnits** – Numeric interval between supplementary tickmarks on the associated axis. The minor units are not displayed unless this attribute is specified.

- **XAxisNumberFormat** and **YAxisNumberFormat** – The formatting for the major unit values of the associated axis. See Custom Format Codes for Numbers of the Chart for the available options.

For example:

<StandardCurveFit XAxisMajorUnits="10" XAxisMinorUnits="5" YAxisMajorUnits="0.2" YAxisMinorUnits="0.1" YAxisNumberFormat="[Red][<1]0.00; [Green][>=1]0.00" StandardType="2" FitMethod="4PL" Concentrations="400,200,100,50,25,12.5" XAxisTitle="Concentration" YAxisTitle="Measurement" FitToStandard="Average" CalculateFrom="Replicates">

With this configuration, the fit chart of the Standard Curve Fit transform results will appear as follows:
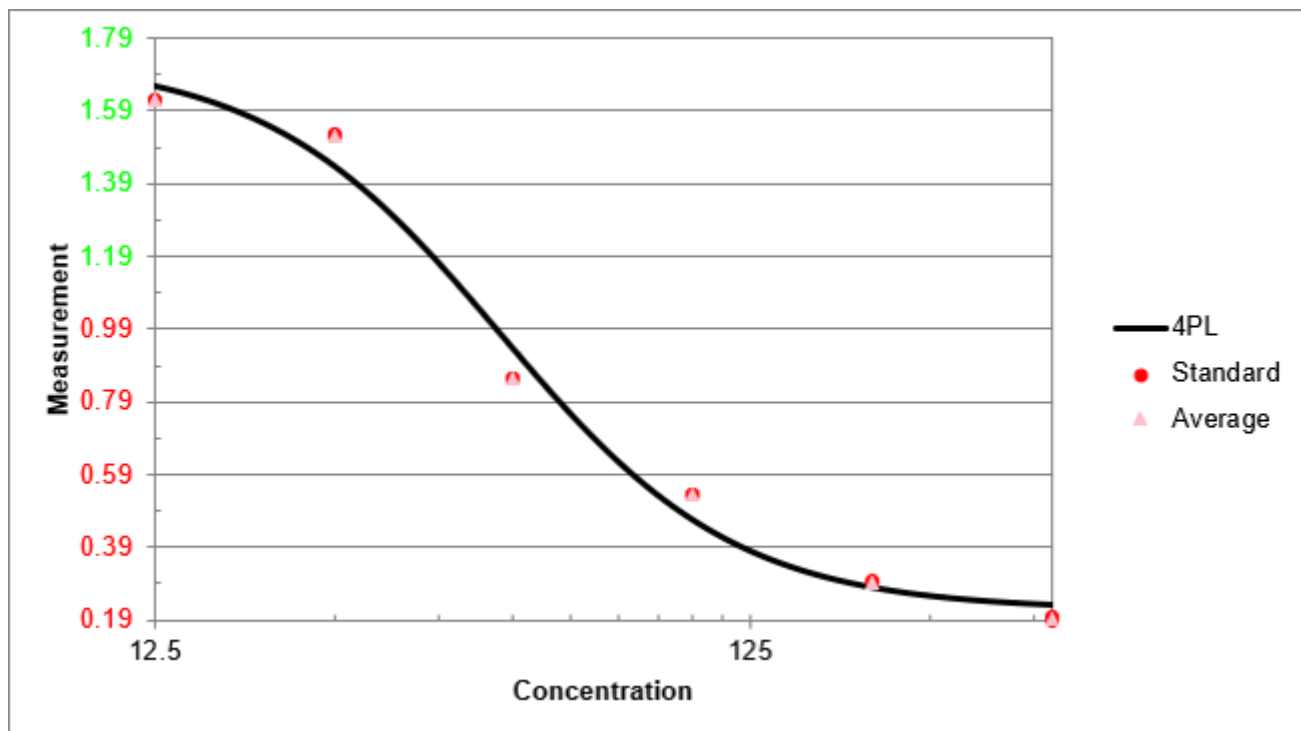
Axes Values for Small Charts

Improved the display and formatting of axes values for curve charts when selecting small or medium Chart Size report option.

Fixes in MyAssays Desktop Pro R4.2 (detailing changes since R3.2)

Standard Curve Fit With XY Data

With R4 a protocol with Standard Curve Fit tansform and only XY measuremnet Data would not compute results if Calibrators table was included in report. This is now fixed.

LDAP Server Unavailable Prevents Saving/Exporting

If LDAP Server connection is unavailable then MAD could not save or export results. This is now fixed.

XY Positions With the Same Y Values Were Not Displayed on a Chart

Because of chart scaling issue for XY data with the same *y* values, the chart appeared as empty. This incorrect scaling is now fixed.

Unable to Display Page-Based Report for Multiple Plate Assays That Contain QC Elements and Report Template

For multiple plate assays with QC report elements and page templates, it will be necessary to remove the page template and configure it again. To do this, open the assay, and on the **Report** ribbon tab, select **Page View**, then under **Template** group, click **Delete**. After that, click **New** and configure the template again as required. This is necessary because the naming convention of QC report elements is updated to include plate number.

Importing Custom Metadata from Excel Files Could Result in an Error

While importing data from some .xlsx files with custom metadata, if the users switched between **Meta** and other tabs several times, the wizard could result in an error. This unstable behavior is now fixed.

Incorrect Container Title in Flags View for Rack-Based Assays

The container column was titled **Plate** whereas it should be **Batch ID**. This wording issue is now fixed.

Save As Protocol Failed for Results Files with Uncalculated Changes

When opening a results file with uncalculated changes in MAA, the calculation is performed as expected. If then the results were attempted to be saved as protocol, the error occurred, and the file was not saved. This issue is now fixed and the file is saved as expected.

Validation Configuration Did Not Take Selected Sample Types into Account

When validation was configured as **Expression with Every Sample Replicate (x)** or **Expression with Every Sample Group (x)**, they were performed on all samples, irrespective of the Sample Types setting. Not this incorrect behavior is fixed.

Displaying Position Expressions List on Systems with Comma Decimal Separator

On a system with comma as a decimal separator, the list of configured expressions in Position Expressions setting of the Expression by Position transform was displayed in invariant culture. Now it is displayed with local system settings.

Sample Types Names Were Not Validated Fully

Previously, the sample type names were not validated fully, which could lead to errors in calculating expressions. Now a sample type name can include alphabetical characters (uppercase and lowercase), numbers (0-9, but not as the only symbols), underscore, and space (but not as the only, the first or the last symbol). Also, the sample types cannot be named after any function (for example, **if**, **auc**, **mean**, etc).

Curve Overlay with Standard Curve Fit (from Library) Transform Reference

Previously, when referencing curve as the number of Standard Curve Fit (from Library) that uses relevant Library Curve File, this could cause error in report generation. Now this issue is fixed.

Protocol Name Validation in New Protocol Wizard

Extended validation for New Protocol Wizard to improve the overall coverage of new protocol creation. Whereas in previous versions the invalid characters could lead to unexpected results, now the users are either warned against their usage, or the characters are replaced with hyphens.

Expressions with >= Operator on Systems with Comma Decimal Separator Were Evaluated Incorrectly

If local settings of a system used comma decimal separator, the expressions with the >= operator could be evaluated incorrectly. This issue is now fixed.

XY Thumb Plots in Matrix Table Did Not Appear Correctly

XY position thumb plots were not displayed correctly in the Matrix Table as against the Sample Table. Now the thumb plots appearance is fixed.

Matching Element IDs Validation

In previous versions, not all report elements were validated against using the same ID more than once, which could lead to unexpected results. Now the validation is enabled on all report elements with an appropriate message warning against such duplications.

Chart Computation for Extremely Small Values

If data set contained extremely small numerical values, these values were displayed on the chart with a glitch. Now support for such values is extended, and the chart computes a smooth line.

Value Cannot Be Null Exception when Opening Results

If opening a corrupted .assay-results file, the file was launched with a Microsoft .NET Framework unhandled exception. Now an appropriate error message appears.

QC Add-On Fixes

- Improved error handling when filling in the text. This way, if any field is blank or there's any incorrect data entered, the appropriate notifications will appear.
- Previously, the QC results were reported on the first sheet even if the Sheet Name was specified. This incorrect behavior is now fixed.

No Export Occurred for Results with Custom Export Location Specified

If an assay protocol was saved with custom destination folder for export, and that target path was inaccessible, no export occurred (for example, if launching a file shared by another user). Now the export destination defaults to MyAssays\Reports folder under Assay Data Folder Root.

Calculation Error If No Sample Types Were Selected for Histogram

If adding a Histogram element to the report with **(None)** sample types setting, the calculation crashed. This issue is fixed, and in such cases the Histogram element is not included in the report.

Element IDs Expanded Incorrectly in the Report Template

In rare cases, if the element ID contained the ID of another (for example, **{Copy of Raw Data}** and **{Raw Data}**), the former expanded incorrectly in the report template. This behavior is now fixed.

Chart Displayed Negative Values with Logarithmic Y-Axis Incorrectly

If there were negative values used in the fit on a logarithmic y-axis, the charts could display plotted data incorrectly which also affected Page View of the calculated results. Now when using a logarithmic y-axis, negative (or zero) *y* values are not included in the plot.

Unexpected Behavior when Creating New Protocol for File with Custom Data Dimensions

In some cases, when a new protocol was created for data from a file with custom (i.e., not common) matrix dimensions, the process failed. Now, when importing measurements from such file, the wizard directs you to the step for selecting the dimensions of the matrix.

Not All Sample Types Were Included when Default (All) Option Was Selected

When configuring validation, or adding a sample table or histogram to the report, the default setting is to include all sample types. If the user added new sample types to the assay after adding one of those options, the new sample types weren't automatically included in the default **(All)** option. This incorrect behavior is now fixed.

TOVs References Expanded Incorrectly for Large Layouts Dimensions

If the layout featured positions that matched one of the TOVs, the TOVs (R^2 in particular) could be expanded to these layout positions when evaluating expressions. This issue is now fixed, so if you have encountered this on the previous versions, please perform data analysis again to obtain accurate results.

Incorrect Dynamic Sequence for Rack Assays

If the rack layout featured several dynamic sample groups, they could be expanded incorrectly. For example, if the dynamic sample contained two replicates, they were expanded as 1,2 | 2,3 | 3,4. This incorrect behavior is now fixed, so, in this case, they expand correctly as 1,2 | 3,4 | 5,6.

Occasionally Unable to Display the Excel Report Preview in MADE

If selecting to preview the XLS or XLSX reports on the Reports pane of MADE, they could not be displayed in some cases. This limitation is now fixed.

MyAssays Analysis Launcher Error when Clicking Launch

This error occurred when clicking launch with no protocol specified. This is fixed by disabling **Launch** button if no protocol is specified.

Calculate Message Persisted after Calculations Were Performed

On launching and changing assay protocol or results file, after the user had opened and then closed Layout Editor, and then clicked **Calculate** to calculate new results, the message advising to click **Calculate** was still displayed. Now this is fixed.

Deleting Layout File Caused Error in Displaying Associated Version

If the layout was changed each time results were calculated and the associated assay-layout file was deleted, the previous version could not be displayed when selected. This incorrect behavior is now fixed.

Couldn't Produce Report for Standard Curve Fit with Auto Smoothed Spline

Report content for Standard Curve Fit transform was incorrectly generated for this fit method. This issue is now fixed.

Importing Dilution Factors in ELISA Could Result in an Error

When importing dilution factors from a file, the columns that listed Unknowns expanded incorrectly and caused an error. Now this issue is fixed.

Custom Export Failed If Export Folder Did Not Exist

When specifying a non-existing folder as an export destination, the export failed. Now the Export wizard creates a folder in a specified destination path.

Search MyAssays.com Did Not Work If the Assay Data Folder Root Was Changed

If user changed their data root folder, it could lead to errors when searching predefined protocols from MyAssays knowledge base. This issue is now fixed.

Transforms Content Included Incorrectly

In some cases, transform-specific report content could be included in the report even if the **Include** check box was not selected. This issue is now fixed.

The Logo File Does Not Exist at the Pointed Location Exception

In rare cases, if a protocol should have contained a logo but no logo was found, the file was launched with a Microsoft .NET Framework unhandled exception. Now it launches correctly and, if such case occurs, the error is added to the error log.

Victor Nivo Kinetic Data Is Plotted on Chart with X Axis Title Reading "Cycle" It Should Read "Time"

Now the axis titles are imported and plotted correctly.

Updates in MyAssays Desktop Pro R3.2 (detailing changes since R3)

Improved Support for Kaleido 2.0

Various enhancements to improve working with Kaleido 2.0. Please also ensure latest Folder Poll release is used (available from https://www.myassays.com/folder-poll)

Support for Larger Rack Layouts

R3 was limited to rack layouts up to 26 racks. This limit has been increased.

Updates in MyAssays Desktop Pro R3 (detailing changes since R2)

New Installed Protocols

- 4PL (Constrained by B0 and NSB) Quantification

- 4PL Quantification

- Alpha 384-well Screening

- ATP Lite

- Best-Fit Quantification

- DNA 260nm

- DNA Quantification

- Dose–Response Curves for EC50

- ELISA

- ELISA (96 well) - Single Page Report (Click **Page View**)
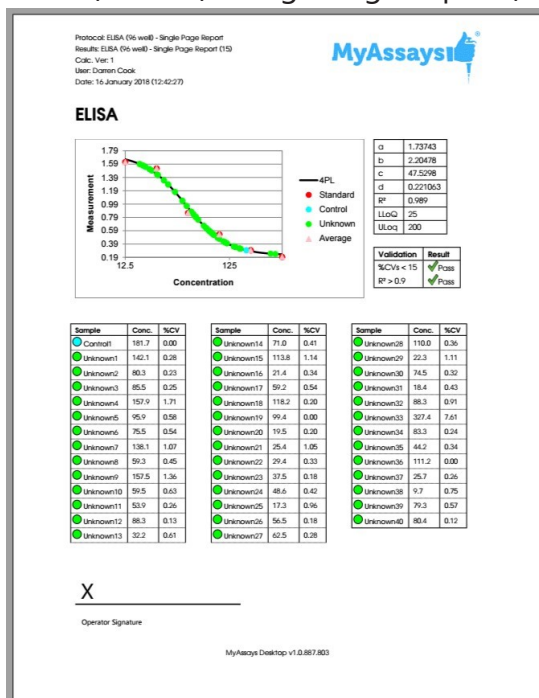
- LANCE cAMP

- Linearized (Logit-Log) Quantification
- Z-Factor

Video Links in Protocols

- Dose-Response Curves for EC50 (96 well)
- Multiplex

Excel Viewer in MADE

The XLSX viewer works on the **Reports** and **Measurements** folder in MAD Explorer. The Reports folder is the default location of reports exported from MAD, so you can easily view MyAssays Desktop's Excel output there. The Measurements folder is not displayed by default, it can be enabled from **File** | **View** | **Show Measurements Folder**.

With this view enabled, you can copy or store XLSX files in here so that you can view them without Excel. Also, you can select cells and right-click to copy and then paste to other applications.

Rack Layout Editor

For rack-based assays and RIA. See:

- https://www.myassays.com/myassays-desktop-introducing-the-rack-layout-editor.video
- https://www.myassays.com/create-a-quantitative-radioimmunoassay-with-myassays-desktop-pro.video

Transform: Standard Curve Fit (from Library)

Walk-through at https://www.myassays.com/re-use-standards-curve-with-a-library-curve-fit.video

Dose-Response Curves

See https://www.myassays.com/dose-response-curves-for-ec50-with-myassays-desktop.video

Series Mode Advice

Standard Curve Fit | Custom Fit

Fit your data to your own custom fit equation. Reference results of previous fits. For example, with parallel line analysis, fit an initial unrestrained fit and then fit other curves where curve coefficients are constrained.

Example custom fit equations:

4PL: d+((a-d)/(1+(x/c)^b)

4PL with additional R coefficient: d+((a-d)/(1+(r*x/c)^b)
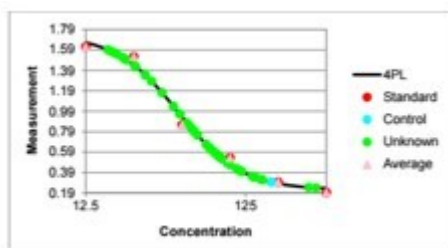
Computes 4PL using coefficients generated from transform 1 and calculates C value:

tov1.d+((tov1.a-tov1.d)/(1+(x/c)^tov1.b))

Computes 4PL using coefficients generated from transform 1 and calculates C value R:
tov1.d+((tov1.a-tov1.d)/(1+(r*x/tov1.c)^tov1.b))

Standard Curve Fit | Show Points on Curve Option

Additional Goodness Measures

- Degrees of Freedom
- AIC
- AICc
- BIC
- DWS

New Best Fit Score Methods

- 1/AIC
- 1/AICc
- 1/BIC

Probability Functions

- f.dist
- f.inv

Overview Editor

Right-click overview text in protocol to edit the overview text and description.

Curve Overlay Feature

Displays multiple curves overlaid on a single chart.

Chart Size Report Option

Now you can select how to report chart from the transforms content: small, medium and large.

Nivo 2.0.2 Support

Luminex 2.1 Support

Text Report Element with Macros

Include custom text elements in your report and reference macros, including metadata, protocol and results information, data and version numbers.

Validation Report Element Updates

Sample Table Sort Order

Sort Sample Table via a custom column (e.g., arrange results by concentration from highest to lowest) with **OrderByColumn** and **OrderBySequence** settings.

Evaluation Variables

Name evaluation variables for referencing them in other settings.

XY Output options

Configure appearance of XY data in report. This can be used to display kinetic or spectral data as a graphic or table of values in different formats.
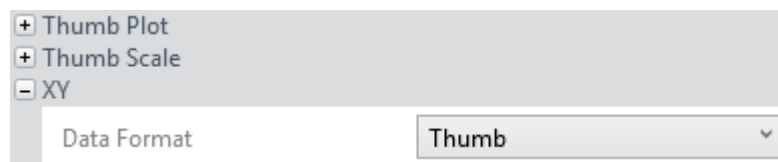
Multiplex Page Report Template

Multiplex page report template now defined by single analyte and applied to all analytes (each analyte on a new page).

Help Page and User's Guide Updates

Comprehensive updates to Help Page and User Guide. Including new Curve Fitting section covering tips on fit selection and advanced configuration.

Updates in MyAssays Desktop Pro R2 (detailing changes since R1)

Help Pages and Manual Integration

Help Pages and Manual Integration are available in MADE (from **Support** ribbon tab).

Help Page can be launched from help icon in MyAssays Analysis (on the right of the ribbon).

Video Updates (available from Welcome Screen)

- Quick Start
- Flagging Outliers

VICTOR Nivo XLSX Import

Automatic importing of VICTOR Nivo XLSX data.

Kinetic Spectral data is imported with each wavelength as a separate matrix.

(Scan mode import is not supported)

Support for Installing MAD Alongside WorkOut

Improved support for installing MAD on a system with WorkOut installed:

- WorkOut will continue to operate if MyAssays Desktop is installed.
- If WorkOut is using any custom import scripts, then these will be available to MyAssays Desktop.
- After uninstalling MyAssays Desktop, WorkOut will continue to operate.
- The integration works with Kaleido 2.0 update.
- If MyAssays Desktop detects WorkOut, then information about the side-by-side configuration is displayed in MADE **File** | **Information** area with information and warning notices (to advise against uninstalling WorkOut in this scenario), e.g.:
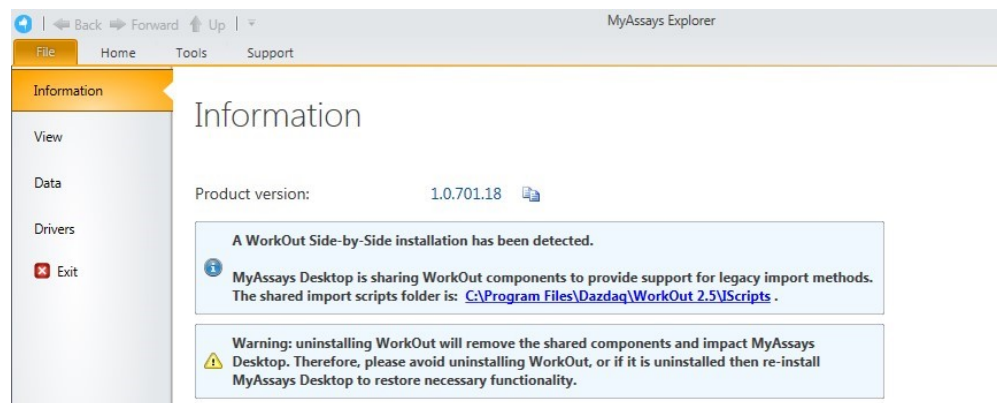
- If WorkOut is uninstalled after MAD is installed, then user is advised to update/repair MAD installation (when one of the dependent import features is attempted).

Histogram Report Element

Add histograms to the report. Select any endpoint matrix and which types to include. Optionally include error bars.

Best Fit UI

Select which fit methods to use within the editor in the transform's settings.

Updated ELISA Installed Protocols

Example 96 and 384 well example protocols.

New Transforms

- XY Baseline Correction
- XY Reduction X Between Y

Multiple Plate Layout Editor Tip

This advises how to number the sample groups when working with multiple plate layouts.

Chart Plot Area Fill Colour

Now white (was grey).

Standard Charts Error Bars

Currently only available as XML setting option in **StandardCurveFit** element.

Update Standard License

For Standard/Basic licenses, upgrade links are provided to online content for upgrades.

Matrix Position Reference

Use # syntax in expressions to refer to the associated position on a matrix. (See User's Guide for more details.)

XLS/XLSX Source

When importing XLSX/XLS content, **Source** tab is available to show content.

Label Enhancements

Highlight whole row. Apply to selected types only.

Export Wizard

Supports custom export plug-in DLL.

Enhancements since v1.0.641.3

Multiplex Protocol Update

Terminology change: Plate Dilution Factor and Sample Dilution Factors.

Multiplex Concentrations Editor Enhancements

This includes:

- Specification of different units per analytes
- Matching Units option
- Non-serial or serial concentration values

Import Method Additions

Automatically imports analyte names from supported files.

- Support for Luminex xPonent CSV multiplex
- Support for MSD CSV and TXT multiplex files

Sample Labels

Easy-to-use sample labels editor including colour pickers for text highlight and text colour.

Best Fit

Now defaults to 4PL and 5PL fit methods weighted and unweighted.

Best Fit Score Method Options

Presets available for various common scoring methods.

Support for Large Text Sizes

With support for large text sizes as commonly used with larger screen resolutions (e.g., 3000x2000 displays).

SheetName option per TransformContent Element

This allows transform content elements to appear on different sheets (e.g., Fit Chart and Best Fit table can now appear on separate sheets).

Export Plug-In Option

Export Wizard includes option to select Export Plug-In Option to use for output.

Infinite Weight

When using a zero standard in the fit, e.g., so the calibrator is (0,0), if using a weight method such as $1/y^2$, then this will result in an infinite weight that can skew the fit. When this occurs, a warning message appears.

Also, this can be resolved using advanced XML setting for Standard Curve Fit to replace any infinite weight with the maximum finite weight in the set optionally multiplied by a factor, e.g.:

WeightInfinityResolution="MaxFiniteMultipliedByFactor"

WeightInfinityReplacementFiniteMaxFactor="2"

Enhancements since v1.0.621.602

Feature Licensing

Multiplex feature now requires a specific license type. If you do not have a multiplex license contact support for an updated license.

Cached Tab Selection

Switching between the main tabs in the Analysis window is now even faster.

Flags View

View flagged items from Flags view option (available after any point or position is flagged).

Units Specification

Currently via XML only.

Transform Output Variables

For referring to transform calculations and evaluations in expressions.

Enhancements since v1.0.593.182

Layout Editor Update

The Layout Editor has been replaced with a faster implementation that no longer requires Silverlight.

Best Fit Feature

The Standard Curve Fit transform now offers the Best Fit fit method. You also can select a Scoring Method to use to sort fit results and pick the best.

Support for Comma Decimal Separator Systems

The application now works with the system's current culture settings. Any numerical values (including data and parameters) should be specified using the system's culture settings. For example, "1,23" on a typical European configuration is equivalent to "1.23" on a US-based system.

Faster Tab Selection

Switching between the main tabs in the Analysis window is now faster.

Integrated Transform Help

In the configured transforms list, a help icon is now available to open the help page associated with the transform.

Known Issues in R6

With Enhanced Security: Session Connection Lost | Connection to the service was lost. Please log in again...

The MyAssays Desktop Enhanced Security Sync Service, is used to synchronise user sessions and handle automatic time-out enforcement. This is implemented using inter-process communication. If this process is impacted due to system hibernation, network connectivity interruption or other reasons, MyAssays Desktop will end the current Enhanced Security session and display a message box advising: **Connection to the service was lost. Please log in again...**

This action is taken to ensure that any existing session is terminated (to avoid any data security issue). Windows will normally automatically restart the Sync Service after a short delay. Therefore, if this occurs launch MyAssays Desktop and log in again to resume the session. If you continue to see this message then wait for 1 minute and then 5 minutes before retrying (these are the intervals Windows uses to restart the service).

If the message: **Security management could not be initialized. Please contact support for assistance.** appears then this is because Windows was not able to restart the service automatically or did not attempt to. In this case, the service can be restarted manually, either by restarting the system or by following these steps with an administrator account:

1. From **Start | Run** type **services.msc**
2. Locate **MyAssays.Security.SyncService** and identify its status. If it is not marked as **Running** then double-click on the item and press **Start**.
3. Launch MyAssays Desktop

Further information about why the SyncService was stopped can be found in Event Viewer (**eventvwr**) under **Windows Logs | Application** (use **Find** option to search for **MyAssays.Security.SyncService.exe**)

System Hibernation or Network Connectivity Interruption During an Enhanced Security Log-In Session Will End Session

Please refer to section above.

Critical Error in MAA Due to High Memory Consumption

In some cases, when a large number of MAA windows run at the same time, the application could throw Critical Error exception due to high runtime memory consumption. This issue is now partly fixed and in the process of further fixing.

For now, please avoid calculating too many results versions during single MAA run, i.e., restart the application every 10-20 calculations if possible.

Dose–Response Curves for EC50 Changing Dose Replicates Does Not Update the Doses Setting

When working with Dose–Response Curves for EC50, changing the **Dose Replicates** in the **Doses** tab might not visually update the **Doses** drop-down display of Dose–Response Curves transform and vice versa. This occurs only if new value is a divisor of the previously selected value. This is just a visual desynchronization and does not affect calculations at all.

Keyboard Occasionally Loses Control Focus When Editing Certain Property Values

To resolve this, press **Esc** key to continue with keyboard entry.

Best Fit Search Is Not Valid. Fit Method Could Not Be Detected.

This message occurs if a protocol was created with a version before the Best Fit feature was added but is then changed to use the Best Fit method. To resolve this, the easiest solution is to select a different fit method or recreate your protocol with the new installation to use the Best Fit feature.

Alternatively, insert the following XML snippet under the **StandardCurveFit** element in the XML editor.

```xml
<BestFitSearch xmlns="http://www.myassays.com/bestfitsearch"
WeightCSV="None,1/y2,1/x2,x2,y2" ScoreMethod="R2">
    <Method FactoryName="4PL" DisplayName="4PL" />
    <Method FactoryName="5PL" DisplayName="5PL"/>
</BestFitSearch>
```