ZS XPLORER SOFTWARE: v4.1.0 (PSS0048-23) SOFTWARE UPDATE NOTIFICATION

Introduction

This document details the release of ZS XPLORER software version 4.1.0 (PSS0048-23) for the Zetasizer Advance range of instruments. Here forward referred to as ZS XPLORER.

This release supports the Zetasizer Advance range of instruments only (including Pro (ZSU5800) and Ultra (ZSU5700) models).

ZS XPLORER is not compatible with the Zetasizer Nano series of instruments (Nano S90, Nano ZS90, Nano S, Nano ZS, Nano ZSE, Nano ZSP, Zetasizer µV and Zetasizer APS) nor can it read the *.dts file format from the Classic Zetasizer series software 8.02 or earlier.

For the latest version of this document please check our website at -https://www.malvernpanalytical.com/en/support/product-support/zetasizer-range/zetasizer-advance-range

Installation

It is assumed that you have authority to install or update software within your company's SOPs. If you do not have this authority, please consult with your I.T. support department before proceeding.

It is assumed that you have Administrator rights for the computer. This is required by the installation process. For ZS XPLORER software, Windows 10 and later will not allow an installation if the user does not have administrator access. This is in line with Microsoft's Logo policy and is standard practice.

IMPORTANT:

Only Windows 10 & Windows 11 64-bit Operating Systems are supported

Microsoft user accounts are not supported.

Before installation of the software, the instrument should be switched off and disconnected.

Regulated Environment customers upgrading to ZS Xplorer V2.3.1 or later, will need to also upgrade to OmniTrail and OmniAccess V1.4 or later.

In some cases, the installer will require the user to restart the PC, in this case it is required that the Administrator logs in to the PC for the first time, following the restart. Failure to do so may cause the software to crash. In this case reinstalling the software on the Administrator account will fix the issue.

Recommended System Requirements

The recommended computer system requirements for running this software are highlighted in table 1 below.

Table 1 Recommended system requirements for ZS Xplorer software.

Feature	Specification
Processor Type	8th Gen+ Intel Core i7 Processor (or better)
Memory	16 GB RAM
Solid State Drive	512GB or greater
Display Resolution	1920 x 1080 full HD screen resolution minimum
Connectivity	2 free USB2.0 or higher ports
Operating System *	Windows 10 or 11, 64 bit. * The ZS XPLORER software is not compatible with 32-bit Operating Systems

Supported operating systems

ZS XPLORER is compatible with Windows 10 & 11 (tested on Windows 10 Pro 22H2 Win11 Pro 24H2 26100.3775). Only 64-bit versions are supported.

ZS Xplorer has also been tested on Windows 11 with both core isolation mode enabled and disabled.

Supported Languages

- English (US)
- Chinese (simplified)
- Japanese

Note: New features may initially lack additional language support other than English.

Installation Instructions

Installation process

The software suite is available as a web download. The downloaded extractor contains the ZS XPLORER Setup, License Manager Setup and .NET Framework 4.8 Setup files. License Manager and .NET Framework 4.8 are prerequisites of ZS XPLORER, even if you are not using OMNITRUST regulated environment software suite.

When the extractor is run (see figure 1) it will extract the required installers to a folder named ‘MPInstallers’ in the location the extractor is run. The folder and a readme, with important information, will be opened (see figure 2).

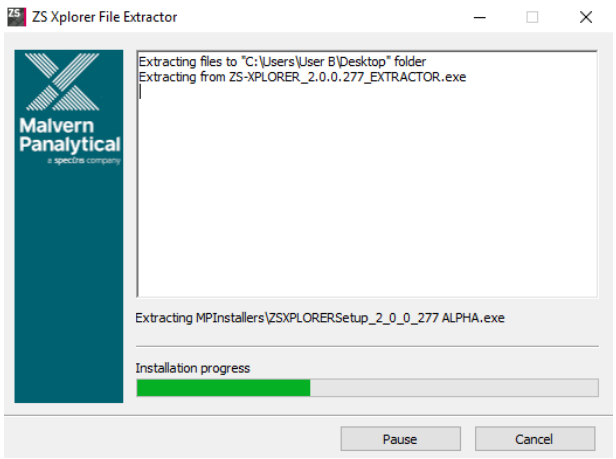

figure 1 ZS Xplorer Self-Extracting Installation files

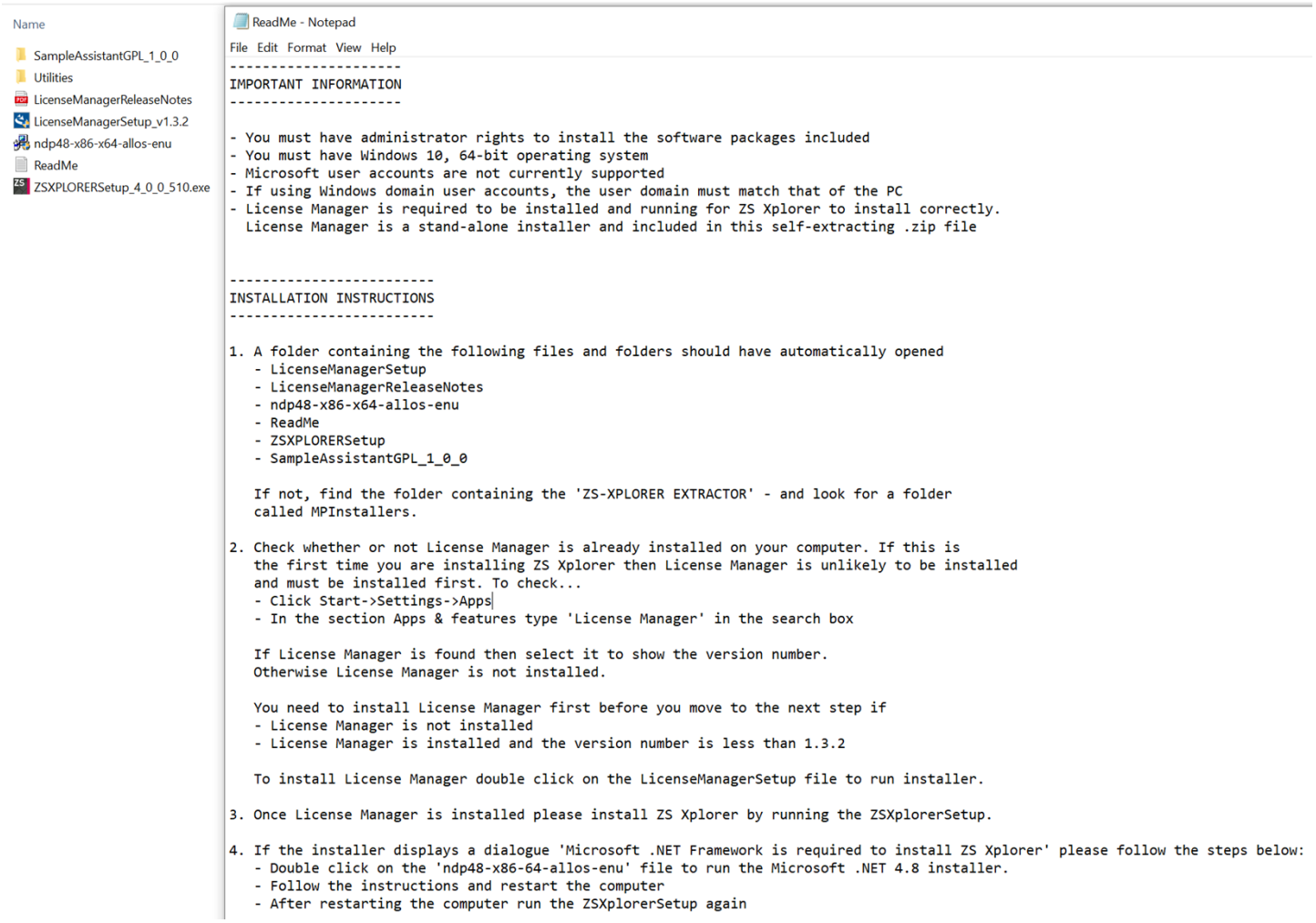

Figure 2 Extracted installation files and ReadMe file.

.NET Framework 4.8 Installation

Microsoft .NET Framework 4.8 component is a requirement for ZS Xplorer software to run correctly and must be installed prior to the installation of ZS Xplorer. If you do not have the correct version installed the ZS Xplorer installer will warn you and won't proceed until the correct version of .NET Framework is installed. Windows 10 versions from 1903 include .NET 4.8 or higher and will not require updating.

License manager Installation

The Malvern Panalytical license manager component is a requirement for the ZS Xplorer software to run correctly and must be installed prior to the installation of ZS Xplorer. Please note that users upgrading from 2.00 or later are not required to re-install License Manager. Those upgrading from ZS Xplorer vers.1.50 or earlier must install License manager.

ZS Xplorer Installation

During the installation process, you will be prompted with the following message (see fig.3).

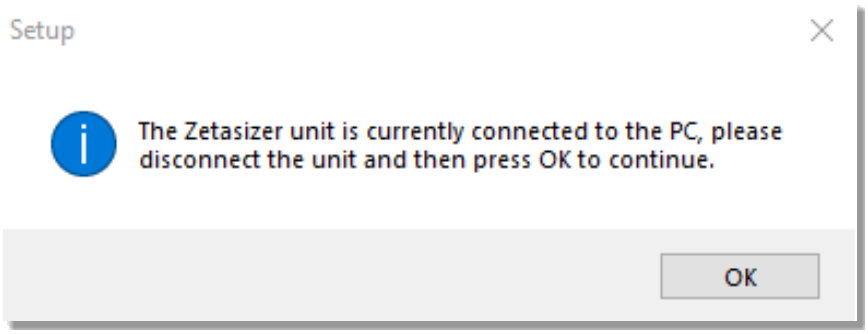

Figure 3 "Disconnect Zetasizer Unit" message.

Note:
You must unplug the USB cable from the computer or Zetasizer and then press OK. If you press the OK button without performing these previous steps, then the installation will not continue.

Microsoft C++ Redistributable

The Microsoft Visual C++ Redistributable must be installed for the ZS XPLORER software to run. This is installed during the ZS XPLORER software installation progress and under certain circumstances can involve the computer needing to restart. Completion of this stage of the installation can take a few minutes and may take over 10 minutes. Whilst these components are being installed a window such as below will be displayed, figure 4.

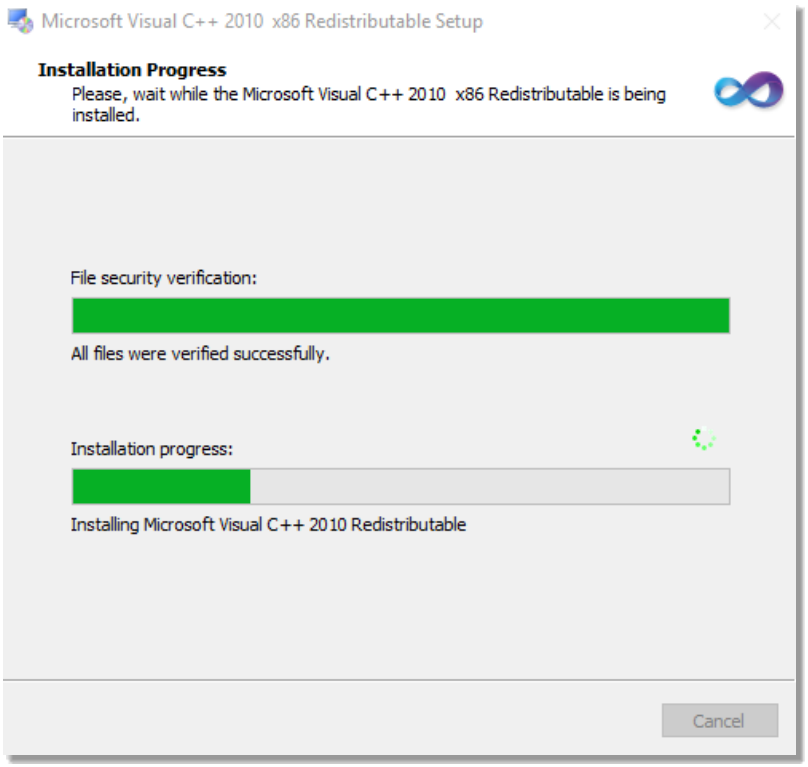

figure 4 Microsoft Visual C++ Redistributable Installation Window

ZS Xplorer Services

As part of the ZS Xplorer installation there are several Windows services and components that are installed. These are listed below:

Services Installed:

Display Name	Version	Description
Trends Analysis Service	1.4.4	Interface and analysis for trends services
Instrument Service	2.0.10	Instrument control layer
Malvern Panalytical Sample Assistant	1.2.0	Zetasizer Sample Assistant interface and control
License Manager	1.3.2	Manages licensing for extended features, such as OmniTrust
Malvern Panalytical Cloud Service	1.4.24029.10	Service that allows access to MP Smart Manager services
Malvern Panalytical Regulated Environment Service	4.2.1977	Authentication service via Windows Account Services
Trend Analysis Repository	4.4.3.0	MongoDB interface

Components Installed:

Name	Version	Description
ZS Xplorer	4.1.0	Main Application
MongoDB	4.4.3.0	Database component
SQLite	3.8.10.2	Database component

Smart Manager

During installation of version 4.1.0 of ZS Xplorer you will be asked if you wish to enable Smart Instrument. This is an optional component that will allow additional Smart Manager Services for your Zetasizer Advance system.

If you have an internet connection and have chosen to make your instrument a Smart Instrument during the ZS Xplorer software installation, your instrument will automatically start uploading key parameters to Malvern Panalytical Cloud Services. We only collect low-level telemetry data from your instrument. We don't collect any of your actual test data, and we can't control your instrument remotely. Our helpdesk uses the telemetry data to help you faster in case of issues.

The data that we do collect is safe with Smart Manager – it's stored and processed securely on the Microsoft cloud. With more certifications than any other cloud provider, Microsoft is committed to security, transparency, and regulatory compliance. And our own information security management system also complies with the strictest international security standards (ISO/IEC 27001:2013).

You can check the status of your connection by locating the Malvern Panalytical Cloud Service application on the Windows Task Bar Tray then right click and choose status.

If you did not allow the service to send data to Malvern Panalytical during the ZS Xplorer software installation, you can simply right click the same application, then click register to do so later.

To find out more about Smart Manager Services go to https://www.malvernpanalytical.com/en/connected-world/smart-manager

USB Driver Installation

During the installation of the USB drivers, you may be prompted several times with a message as shown in figure 5.

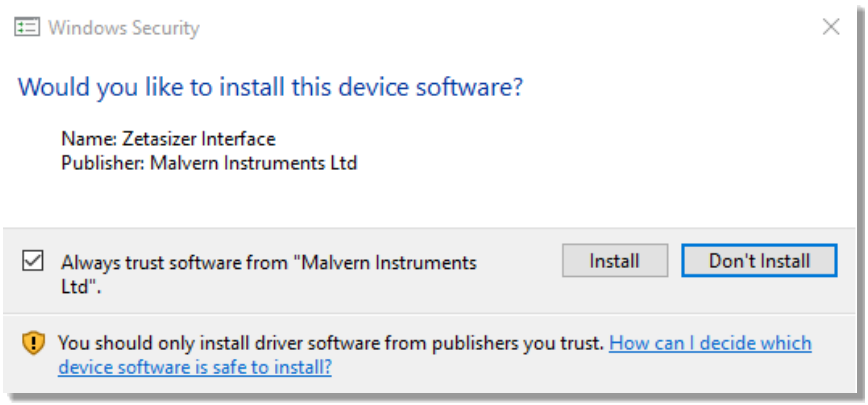

figure 5 Install USB window

This warning can safely be ignored as the software installation has been fully tested on Windows 10. Press **Install** to continue installation of the USB drivers.

Connecting the Zetasizer to the computer

When the software has been installed and the instrument has been connected via the USB port, and switched on, the ZS XPLORER software may need to upgrade the firmware on the Zetasizer, in which case the status icon on the lower right of the software screen will indicate such (see *figure 6*).

figure 6 instrument firmware updating status icon

Users should not disconnect or power off their PC or instrument during normal firmware updating. In some rare occasions the firmware may fail to update correctly, in such circumstances a notification will be displayed indicating the issue – please restart the instrument and software to reset and repeat the firmware upgrade process.

With the correct firmware version installed the Zetasizer will connect to the instrument. A successful connection is indicated with an icon in the corner of the software (see figure 7) showing green and with a tick.

figure 7 Instrument connected icon

Uninstall Procedure

The software can be uninstalled using the standard Apps & Features panel in Windows Settings.

Running the installer with the ZS Xplorer software running

If the installer is run whilst the software is running, the window in figure 8 will display.

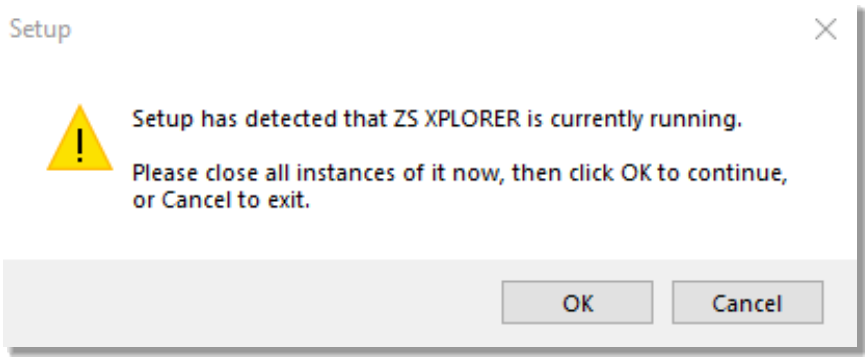

figure 8 Running installer with software open

Connecting the MPT-3 Titrator to the PC

Ensure the computer is turned on and connected to a Zetasizer Advance system.

Connect the MPT-3 Autotitrator to the computer using the USB cable provided, ensuring that it is turned on. Click on the settings button in the top left corner of the ZS XPLORER software (see figure 9).

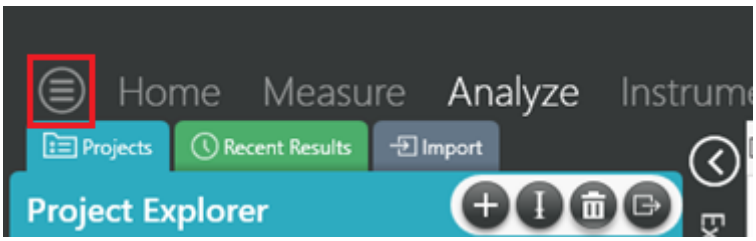

figure 9 Software options

Click Options and navigate to the Titrator tab as seen in figure 10.

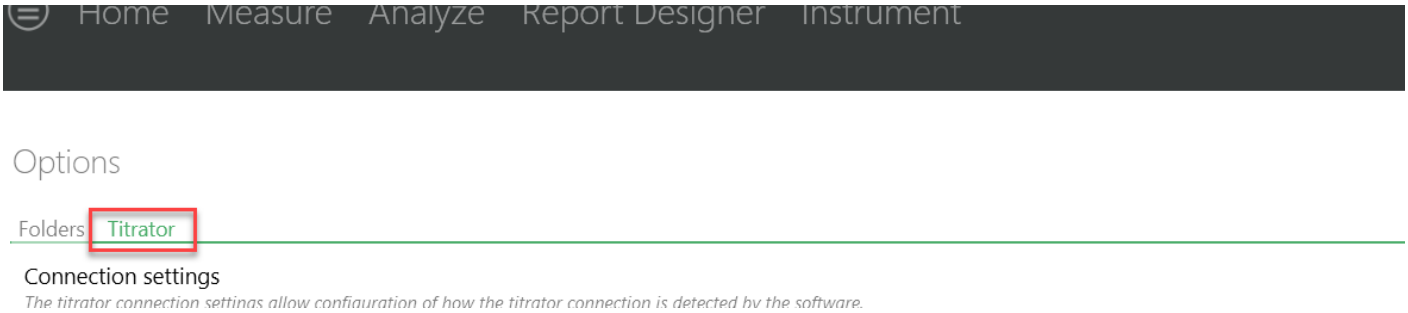

figure 10 Titrator options page

On the COM Port drop down menu, select USB Serial Port (COMXX), as shown in figure 11. (Note that the COM port number and description may vary). If the titrator has been detected on this port, then a green tick will be visible (see figure 11*)*.

figure 11 Titrator successfully detected

If the titrator is not detected on the selected COM port, then a red exclamation icon will be displayed with a message (see figure 12).

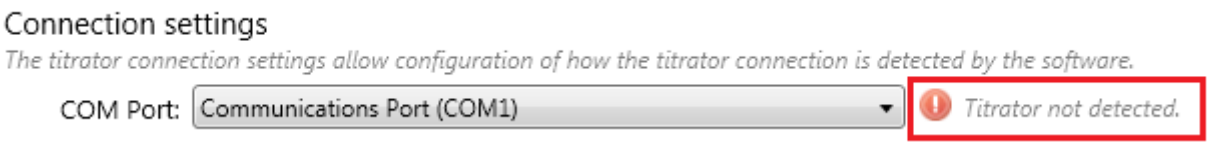

figure 12 Unable to detect titrator

Once the titrator has been detected, click to save the settings.

Once the settings are saved an icon and a saved message will appear next to the saved COM port as shown in figure 13.

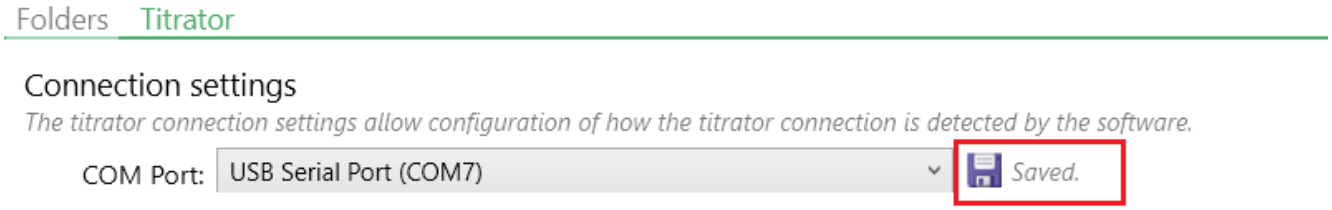

figure 13 COM port saved

The titrator icon at the bottom right of the screen should turn green indicating that the titrator is successfully connected as shown in figure 14.

figure 14 Titrator successfully connected

ZS Xplorer – Backup & Restore

What to backup

By installation default, this version of ZS Xplorer application uses C:\ProgramData\Malvern Instruments\ZS XPLORER and its subfolders for configuration and user created output files. For ease, we would suggest this is the simplest folder to backup and restore.

To create a backup, we recommend that you consult your IT department to select the best method to achieve this. For pharmaceutical regulated environments, you should also consult your validation department - as they may have specific compliance requirements, and/or recommendations. Backup frequency and type e.g., full, incremental, or differential, along with consistency checking, should be considered when choosing the most appropriate backup methodology.

Table 2 provides information on the location and details of the important files and folders used by ZS Xplorer as well as our recommendations on backing up of data.

It is at the discretion of individual organization to define a backup process that is appropriate to their needs and the criticality of their data.

All file types used by ZS Xplorer can be copied to a secure location, we recommend that this be done at times when the system is not in use. Backups should be full backups (not differential) and a history of backups is retained to avoid overwriting a good backup with a corrupt version.

How to restore

In this section we cover the two most likely reasons why you want to restore backup files. The first being accidental deletion of files, or to replacing corrupted files for a working installation of the ZS Xplorer application.
The second reason might be because the primary drive, on which the ZS Xplorer application was install upon, has been replaced or a fresh operating system has been installed, both of which requires the reinstallation of the ZS Xplorer application software.
It is important to note that when reinstalling the ZS Xplorer application, the version being installed must be same or later, as some files may not be backwards compatible with earlier versions of the application software.

Scenario 1 - restoring files to an existing installation:

1. Make sure the ZS Xplorer application is NOT running.

2. Restore/copy the required files from your backup to the destination folder, replacing the deleted or corrupted file/s.
3. Start ZS Xplorer and verify the recovered file/s are working as expected.

Scenario 2 – restoring files for a fresh reinstallation of ZS Xplorer.

1. If your backup contains the complete ZS Xplorer folder, subfolder, and files, simply restore/copy this folder to C:\ProgramData\Malvern Instruments\. This folder will need to be manually created.
2. Install your existing version of ZS Xplorer or later.
3. Start the application as normal and verify everything works as expected and that the software connects to the Zetasizer instrument.

Table 2 - ZS Xplorer file structure

File Name	File Extension	Location	Backup?
Cells	.data	*%ProgramData%\Malvern Instruments\ZS XPLORER\Cells*	Not required – auto-regenerated if deleted
Materials & Dispersants	.data	Shared: *%ProgramData%\Malvern Instruments/ZS XPLORER\Materials* Individual: *%userprofile%Documents\Malvern*	Defaults are auto-regenerated, however can be user configured – backup recommended
Measurement data (export location)	.zmes	*Location set via option in ZS Xplorer*	This is a temporary export location only – so user discretion on importance of any files here
Methods	.zskd	Shared: *%ProgramData%\Malvern Instruments\ZS XPLORER\Methods* Individual: *%userprofile%\Malvern Instruments\ZS XPLORER\Methods*	Recommended if custom methods used
Reports	.zrep	Shared: *%ProgramData%\Malvern Instruments\ZSXPLORER\CustomReports* Individual: *%userprofile%\Malvern Instruments\ZS XPLORER\Reports* For reports with custom headers or logos, there is an additional folder: *%ProgramData%\Malvern*	Default reports auto-regenerated on deletion – recommended if custom reports used
pH probe calibration	.cal	*%ProgramData%\Malvern Instruments\ZS XPLORER\Titrator*	Not necessary as can be re-calibrated
Scattering standard	.data	*%Program Data%\Malvern Instruments\ZS XPLORER\ScatteringStandards*	Recommended

Working file	.db	Shared: *%ProgramData%\Malvern Instruments\ZS XPLORER\Working File* Individual: *%userprofile%\Malvern Instruments\ZS XPLORER\Working File*	This is the main working database file that holds measurement records – highly recommended
Program data folder	various	*%ProgramData%\Malvern Instruments\ZS XPLORER*	This is the main programme data and can be restored by re-installation of the software
Titrator configuration	.xml	*%ProgramData%\Malvern Instruments\ZS XPLORER\Titrator*	Not required as can be readily set-up in ZS Xplorer
Storage configuration	.xml	*%ProgramData%\Malvern Instruments\ZS XPLORER\WorkingFileSettings*	Not absolutely required as can be set-up in ZS Xplorer
Studies	n/a	*C:\Program Files (x86)\Malvern Instruments\TrendAnalysisData\data*	Backup if performing Studies type measurements – see https://www.mongodb.com/docs/manual/core/backups for advice on backing up and restoring Mongo DB data
Sample Assistant Service	n/a	*C:\Program Files (x86)\Malvern Instruments\SampleAssistantService*	Not required as can be re-installed
Sample Assistant Configuration data	various	*%ProgramData%\Malvern Instruments\Sample Assistant*	Set-up configuration files: not strictly required to back-up as can be re-configured via software

New Features & Changes

Support for Thermoblocks for Sample Assistant

ZS Xplorer now supports a Thermoblock accessory that can now be installed in bays 1 and 4 of the Sample Assistant.

The position and limitation to two Thermoblocks is due to limitations where the physical geometry of the Cobots arm access becomes restricted.

NB. Adding one or two Thermoblocks will reduce the number of usable bays to four, from six, on the Sample Assistant.

Overview - Configuration

The bay panels on the configuration now display a drop-down which allows users to select the type of bay to be installed. For Bays 1 and 4 Thermoblock is listed as an available option, for bays 2, 3, 5, and 6 only Standard is available as an option.

NB. A standard bay is the existing form factor that was released with the launch of Sample Assistant.

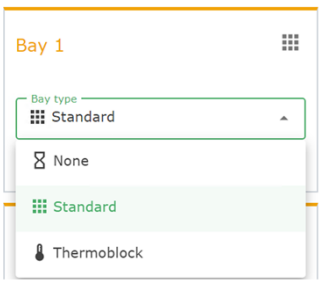

Figure 15 Example of configuration drop-down menu for bays 1 & 4

The user is informed of which bays are obstructed when they place a Thermoblock in either bay 1 or bay 4. The dialog for this is shown below.

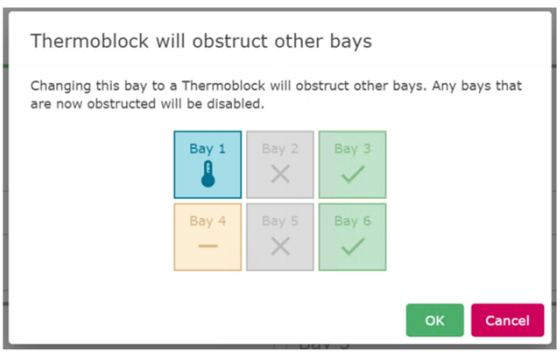

Figure 16 - dialog warning of obstructions to Bays 2 and 5 when Thermoblock fitted

Using a Thermoblock

The Sample Assistant software does not control the temperature of the Thermoblock accessory, users must use third-party software provided by the manufacturer of the Thermoblock to set and monitor temperature, please read the Sample Assistant user guide for tips on setting temperatures.

Once the user has configured a Thermoblock, they can use it within Sample Assistant in exactly the same way as any other bay type.

We have added a visual indicator (thermometer icon, upper right) to the main Sample Assistant page to reflect which bays are configured with thermoblocks.

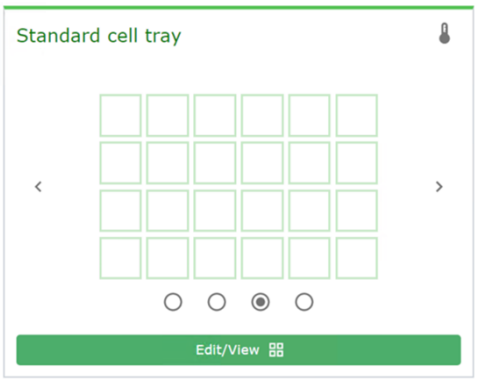

Figure 17 tray selection showing thermometer icon to indicate the bay is fitted with the Thermoblock

Pausing of Sample Assistant Sessions

Sessions in Sample Assistant can now be paused; this allows users to stop the session queue but wait for the current measurement to be completed. Previously the user could only stop the session queue, which would abort the currently running measurement.

The Sample Assistant stop button has been replaced with a pause icon.

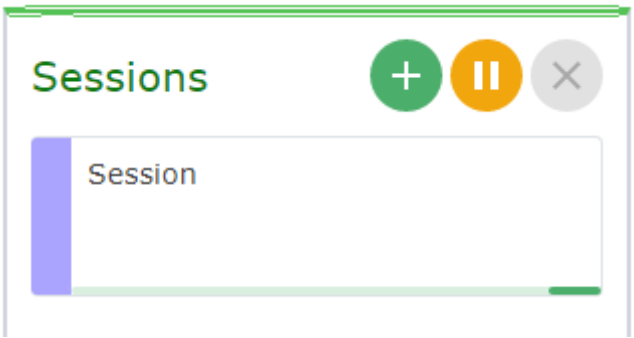

Figure 18 session controls showing new pause icon/control

When clicking the pause button, you will be asked whether you would like to abort the current measurement or wait for the currently running measurement to be completed (figure 19, below). The session can be continued after pausing but aborting the current measurement when pausing will mean that the sample that was being measured will not be re-measured. It is best practice to allow the current measurement to complete before pausing.

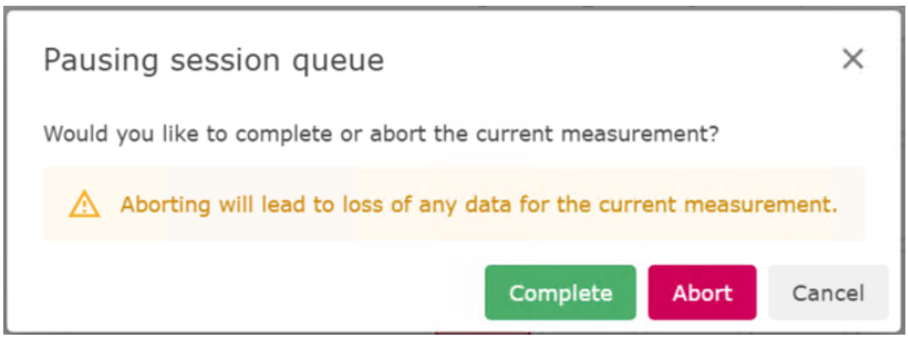

Figure 19 Options and warning on pressing session pause button

Sample Assistant support for project names

Previously the project name to which a measurement would be saved was set by the method used. This remains the case but now users may change the destination project without the need to edit the method.

The project name is now accessible as a column in the data grid when editing a session, by default this will display the project name from the method file.

Position	Method name	Project name	Sample name
A1	glass cuvette	Project 1	Sample (A,1)
A2	glass cuvette	Project 1	Sample (A,2)
A3	glass cuvette	Project 1	Sample (A,3)
A4	glass cuvette	Project 1	Sample (A,4)
A5	glass cuvette	Project 1	Sample (A,5)
A6	glass cuvette	Project 1	Sample (A,6)
A7	glass cuvette	Project 1	Sample (A,7)
A8	glass cuvette	Project 1	Sample (A,8)
A9	glass cuvette	Project 1	Sample (A,9)
A10	glass cuvette	Project 1	Sample (A,10)

Figure 20 Session grid editor showing new Project name column

We have added the capability for the user to edit this value, additionally we have provided a utility dialog that will allow the user to apply a change across all samples for that session (figure 21, below). Note the project name in the method will remain unchanged and the method will be unedited by use of the Sample Assistant project name metadata feature.

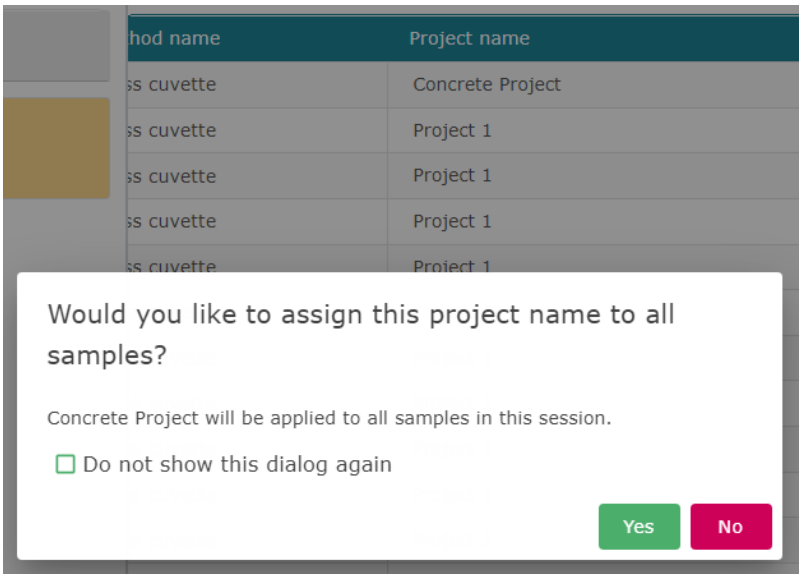

Figure 21 dialog showing ability to set all fields to the new project name in a session

Software rendering mode

This release of the software adds the ability to use software rendering, some CPU chips have a known issues with their in-built graphics that may cause ZS Xplorer to crash. These crashes do not occur if the application uses software rendering, customers can enable this option if they encounter such crashes.

The option can be found in the options section in the applications sidebar.

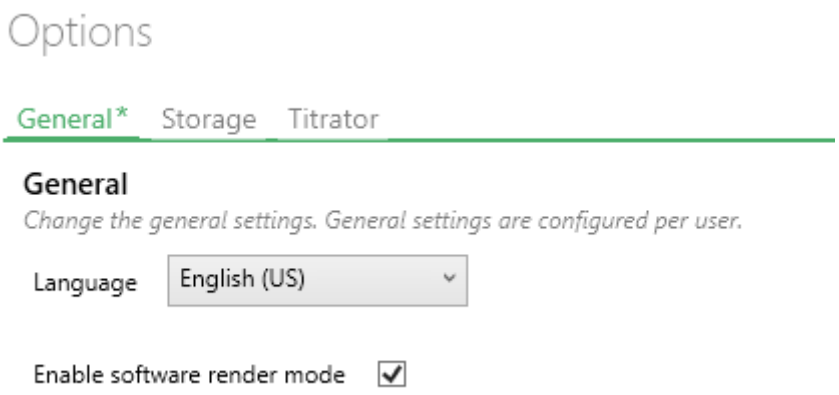

Figure 22 New option for software rendering within the Options menu of ZS Xplorer

NB. As with all applications, the best visual performance is offered through hardware rendering, so this option should only be enabled to work around said chipset issues.

Improved display of startup errors

Previously if ZS Xplorer encountered an error on startup, it would often abruptly close on the splash screen. For some errors we would display a message box that contains a technical description of the exception that was raised, this dialog has now been extended to show for all unrecoverable errors. This should aid in fault diagnosis. If you do encounter such issues, please capture the information in any warning issues and provide these to customer support.

.NET 8.0 Updates

The services for the Studies and Sample Assistant components of ZS Xplorer have been updated to run on .NET 8.0.

Sample Assistant was updated from .NET 7.0.

Studies was updated from .NET 6.0.

GAMP 5 Software categorization

In its standard mode of operation, the Zetasizer Xplorer software provides users with a series of standard interfaces and functions that enable the software to be configured to meet specific user business requirements. These interfaces include the ability to define Standard Operating Procedures (SOPs) for sample measurement and create report definitions using pre-defined functions. If users apply these functions, then the software can be considered to be a Category 4 product.

Security Advisories

The following section and table 3 detail any security updates that have been addressed in this release, including fixes for identified vulnerabilities.

Note:
We always recommend updating to the latest software version which will provide you with new features, bugfixes and most importantly, security updates.

Note:
Other products may also be affected by any issue described here. We recommend you regularly check the Software Updates Notifications (SUNs) for all your Malvern Panalytical products, and register on our website to receive updates.

Table 3 Security updates

Reference	Description	Recommendation
HEN-1042	Version 2.00 and earlier of the ZS XPLORER software contains a vulnerability which could allow an attacker to craft malicious measurement (.zmes) and schedule (.zskd) files. Loading one of these malicious files could result in arbitrary code execution. Version 2.10 introduces a fix to completely mitigate this vulnerability.	Upgrade to version 2.10 or later of the software. Never open files from an untrusted source, even if they appear to be non-executable.
HEN-572	Version 1.50 and earlier of the ZS XPLORER software contains a vulnerability in the reports feature which could allow an attacker to craft a malicious report file. Loading a malicious report file could result in arbitrary code execution. Version 2.00 introduces a fix to completely mitigate this vulnerability.	Upgrade to version 2.00 or greater of the software. Never open files from an untrusted source, even if they appear to be non-executable.

Known Issues

The following software bugs have been discovered within the software and will be investigated as part of a future release. Please follow the suggested work-around where they are provided.

Table 4 Known issues in ZS Xplorer version 4.1.0

Reference	Severity	Issue	Workaround
NA	Normal	Regulated Environment customers upgrading to ZS Xplorer v3.31 may need to also upgrade to OmniTrail and OmniAccess V1.4 or later if previous ZS Xplorer version earlier than v2.3.0	Check or Install Omnitrail V1.4 or later and OmniAccess V1.4 or later when using ZS Xplorer v3.31 in a regulated environment if upgrading from ZS Xplorer versions 2.3.0 or earlier
NA	Normal	ZS Xplorer may crash when making a measurement If project size becomes too large. Memory use may spike when a measurement is in progress and large projects can lead to out-of-memory issues.	Do not let project sizes become excessive. We recommend that projects contain a maximum of 500 measurement records, but this may vary dependent on make-up of the measurement types in a project
TFS-182966	Normal	Reports: Parameters path does not fit in list box boundary	Edit report template to allow more room for the parameter to display correctly, if possible
TFS-180690	Normal	Concentration Trends - After selecting multiple measurements, starting the measurement, accepting the solvent scatter dialog, and leaving the confirmation dialog alone while the scattering count measurement completes, the concentration dialog is modal and blocks the confirmation dialog but if you try to abort the concentration dialog, nothing happens.	Accepting the concentration point and then clicking the OK will abort the trend
TFS-180691	Normal	Edit study button may not reactivate at the end of a measurement	Navigate to an intermediate page to refresh the status
TFS-180699	Normal	Concentration trends - Can't see count rate trace during solvent scattering measurement	If you are in doubt about the cleanliness of solvent or buffer, then run the count rate tool and record the attenuation and count rate and use these as manual inputs.
TFS-180693	Normal	Studies not in order	No workaround
TFS-159682	Normal	ZS Xplorer hamburger menu can become obscured when in trends tab – issue with underlying component	No workaround
HEN-1866	Normal	Count rate live display is not showing during Concentration Trend measurements	No workaround
TFS-180695	Normal	Studies wont load – opening ZS Xplorer and going straight to Studies tab may prevent loading of any saved studies	Click retry and if this fails re-start ZS Xplorer

TFS-180692	Normal	Whilst a measurement is running UI can become slow if user navigates to study selector	Avoid using study selector whilst measurements are proceeding
TFS-172158	Normal	If a user includes a custom dispersant in a study and then updates the dispersant the change is not pulled into the open study until a new study is created or ZS Xplorer is restarted	Avoid editing custom dispersants during creation or measurement of a study without restarting software first
TFS-180693	Normal	Aborting a concentration trend measurement and then selecting all measurement points and re-running will cause the trend to start at the previously aborted measurement point and not the first	All measurement points are measured but may be confusing to users so be aware of issue.
TFS-180697	Normal	Crash after publishing studies measurements after renaming a study if the study name is changed between measurements	Clearing the method list in Measure tab after renaming a Study will prevent the crash/do not rename incomplete Studies
TFS-180672	Normal	Printing a custom report from Report Designer will only show graphs with single color	Print reports from Analyze-Reports tab to ensure correct behavior
TFS-180671	Normal	Trend Builder return to defaults button may not always reset to defaults	Click return to defaults a second time resets them to defaults
220441	Normal	Calibrating a holder that isn't physically installed causes subsequent tool holder calibration to fail	Press the stop button or move the robot arm such that it enters low power state and requires initialization. Follow the onscreen instructions and re-initialize the robot arm.
230891	Normal	Method watcher: Methods change assigned color when edited	No workaround. Ensure users are aware that this may occur and do not rely on color for method identification, check the method title.
214475	Normal	Sample Assistant Bay position 2 (rear center) calibration/use is not currently supported	No work around. Support will be added in subsequent release
N/A	Normal	Sample Assistant will fail to initialize if gripper is rotated out of range (> +/-900 degrees)	Rotate gripper head manually until back withing +/- 900 degrees range
207828	Normal	ZS Xplorer shows all instrument features as disabled on connection	Disconnect the Zetasizer and restart ZS Xplorer and reconnect

Error Reporting

Should persistent problems occur contact the local Malvern Panalytical Helpdesk. To speed up response time include all the following.

A full-screen screen shot of any error message and everything behind it.

Full description of what was happening at time of issue and ideally leading up to it.

Instrument serial number (e.g. MAL1060289), instrument serial number can be found inside the sample cell basin and on the instrument back panel.

The software version, which can be found as described in a section below.

The log information described below.

And, if relevant and possible, export the relevant measurement data as described in the last section below.

Extracting log information

If an error occurs, further information about the error can be found from the Windows Event Viewer.

Click the Windows Start Button.

Type Event Viewer and press enter.

Navigate to Applications and Service Logs/Zetasizer All Events.

The window will display the most recent errors that have occurred with the ZS XPLORER software.

Error information can be selected and then exported with the Save selected Events button allowing this information to be passed to the Malvern Panalytical team for troubleshooting.

The contents of the measurement log window are logged to file at: *Documents\Malvern Instruments\ZS XPLORER\logs*

For specific issues with Sample Assistant the logs maybe of use and these can be found at: *C:\ProgramData\Malvern Instruments\Sample Assistant\logs*

Software version

The Software Version is vital to determining the cause of problems. To retrieve the version number:

Click on **Application Menu** button (figure 23)

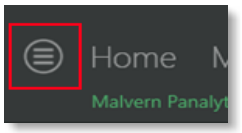

figure 23 Application Menu button

Click on the **About** button.

Read version number (figure 24)

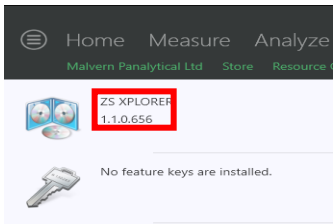

Figure 24 Software Version Number

Extracting measurement data to send

In situations where the errors appear to be related to a specific record or records, the affected records can be exported from the software by selecting them and pressing the export icon, see figure 18, and send the *.zmes file to the Malvern Panalytical team for investigation.

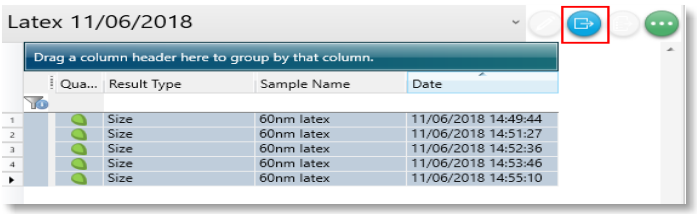

figure 25 Exporting selected record

End of Contents

MALVERN PANALYTICAL

Malvern Panalytical Ltd.
Grovewood Road, Malvern,
Worcestershire, WR14 1XZ,
United Kingdom

Tel: +44 1684 892456
Fax: +44 1684 892789

Malvern Panalytical B.V.
Lelyweg 1, 7602 EA Almelo,
The Netherlands

Tel: +31 546 534 444
Fax: +31 546 534 598

info@malvernpanalytical.com
www.malvernpanalytical.com