

What's new in LogTag® Analyzer 3.1

Thursday, July 25, 2019 - relates to LogTag® Analyzer Version 3.1r6

We are pleased to announce the latest update for LogTag® Analyzer, now released as version 3.1. This update supports upgraded products, but also contains bug fixes and has some new features as well as improved functionality.

It also introduces the ability to connect LogTag® Analyzer with LogTag® Online, LogTag® Recorders' new cloud-based monitoring system providing alarm notifications, compliance, record storage and reporting functions.

We have compiled this information sheet for those who have already used earlier versions and wish to familiarise themselves with the new functionality of version 3.1.

Please also refer to the LogTag® Analyzer User Guide, which can be found in the **HELP menu** of the LogTag® Analyzer software. Both User Guide and Help File are continually updated so you can access concise and accurate information about our products.

LogTag® Online

LogTag® Online (LTO) is a Cloud-based, real-time online monitoring system providing alarm notifications, compliance, record storage and reporting functions.

LTO allows its users to download data from LogTag® data loggers, view the data in the cloud, and allows the sharing and securing of the data based on users' permissions.

LogTag® Analyzer offers several integration features with LogTag® Online, allowing you to upload data from loggers via your desktop interface cradle.

The LogTag® Analyzer User Guide details these integration features, particularly the connection to LogTag® Drive, one of the features of LogTag® Online. You will learn how to:

- Sign in and out of your LogTag® Online account directly from Analyzer
- Upload files directly to the LogTag® Online Drive from Analyzer
- Upload data to LogTag® Online locations
- Opening files stored in the LogTag® Online Drive from Analyzer
- Working with multiple LogTag® Online Teams

Please refer to the section [Integrating LogTag® Analyzer with LogTag® Online](#), or on the LogTag® website at logtagrecorders.com/online.

Support for new Models in Revision 3.1r6

Version 3.1r6 adds support for two new humidity loggers, the UHADO-16 and the HASO-8.

UHADO-16

USB PDF Temperature and Humidity Logger with Display



HASO-8

Single use Temperature and Humidity Logger



Support for new Models in revision 3.1r5

UTRED30-16

USB PDF 30-day Logger with Display



UTRED30-Wifi

USB PDF 30-day Wireless Logger with Display



TREL30-16

Low Temperature Logger with Display



For more detailed information please refer to the User Guides for each specific product, available from the LogTag® Recorders website at logtagrecorders.com/products.

Addition of French

(introduced in version 3.1r5)

We are delighted to announce that French has been added to the list of display languages for LogTag[®] Analyzer version 3.1 release 5. This brings the list of fully supported languages to 5:

- English
- French
- German
- Russian
- Spanish

We would not be able to offer these translations without the help of our distributors, so a big thank you to all involved for making this possible.

We will endeavor to support more languages in the near future.

Resettable Min/Max Display

(supported in version 3.1r5)

LogTag[®] Analyzer Version 3.1 adds support for a new feature, which has been introduced in to a number of products, such as the TRED30-16R, TREL30-16, UTRED30-16 and UTRED30-Wifi. It will allow these models to show trip minimum/maximum temperatures, which the user can reset while the unit is still logging.

During configuration, you can enable this new feature for TRED30-16R and TREL30-16 loggers by selecting [Show user resettable Min/Max](#). in the [Advanced logger options](#).

If enabled, two additional screens are shown when reviewing the statistics on the device display. These screens contain the minimum and maximum temperature values recorded since the device was started. These values can be cleared on the device, and new Min/Max temperatures will be recorded from the time the values were cleared.

UTRED30-16 and UTRED30-Wifi automatically display these values on the display during logging; for these two products you can [Allow a user to reset trip Min/Max values](#) in the [Advanced logger options](#).

For more detailed information how the values are displayed and how you can clear them please refer to the User Guides of the respective products, available from the LogTag[®] Recorders website at <http://logtagrecorders.com/products>.



If the option is not presented in the [Advanced Options](#) Dialogue, the product does not support this feature.

Multi Chart Data Tab

(introduced in 3.1r5)

Data listings are now available when viewing a multi chart. Here, the data listings for the individual loggers are combined into a single list, with each line representing one reading from a single logger.

Index	Serial #	Date	Time	Elapsed	Humidity %RH	Temperature °C	Events	Comment
73	FF18E20425	23/08/2011	1005:00	0005:00		7.2		
74	0060D20511	23/08/2011	1005:00	0005:00		9.9		
75	7000040085	23/08/2011	1005:00	0005:00		8.4		
76	23278M	23/08/2011	1005:00	0005:00		1.9		
77	0018230625	23/08/2011	1005:00	0005:00		0.9		
78	5010000827	23/08/2011	1006:00	0006:00		9.0		
79	5010002909	23/08/2011	1006:00	0006:00		9.4	Below Alert	
80	FF18E20425	23/08/2011	1006:30	0006:30		7.2		
81	0060D20511	23/08/2011	1006:30	0006:30		9.9		
82	7000040085	23/08/2011	1006:30	0006:30		8.4		
83	23278M	23/08/2011	1006:30	0006:30		1.8		
84	0018230625	23/08/2011	1006:30	0006:30		0.9		
85	5010000827	23/08/2011	1006:00	0006:00	41.2	9.0		
86	5010002909	23/08/2011	1006:00	0006:00	37.9	9.4	Below Alert	
87	FF18E20425	23/08/2011	1006:00	0006:00		7.2		
88	0060D20511	23/08/2011	1006:00	0006:00		9.9		
89	7000040085	23/08/2011	1006:00	0006:00		8.4		
90	23278M	23/08/2011	1006:00	0006:00		1.8		
91	0018230625	23/08/2011	1006:00	0006:00		0.9		
92	5010000827	23/08/2011	1006:30	0006:30	53.5	9.0	Above Alert	
93	5010002909	23/08/2011	1006:30	0006:30	69.6	9.5		
94	FF18E20425	23/08/2011	1006:30	0006:30		7.2		
95	0060D20511	23/08/2011	1006:30	0006:30		9.9		
96	7000040085	23/08/2011	1006:30	0006:30		8.4		
97	23278M	23/08/2011	1006:30	0006:30		1.8		
98	0018230625	23/08/2011	1006:30	0006:30		0.9		
99	5010000827	23/08/2011	1007:00	0007:00	48.3	9.0		
100	5010002909	23/08/2011	1007:00	0007:00	57.9	9.5		
101	FF18E20425	23/08/2011	1007:00	0007:00		7.0		
102	0060D20511	23/08/2011	1007:00	0007:00		9.9		
103	7000040085	23/08/2011	1007:00	0007:00		8.4		
104	23278M	23/08/2011	1007:00	0007:00		1.8		

Marks, text and background colors are shown in the same way as for single file lists.

Readings are initially sorted and indexed chronologically, but can be sorted by clicking one of the column headers. This can be useful, for example, when you want to look at all readings from a specific logger. If you wish to return to the original chronological sort order, simply click the Index column header.

You can add a comment for each reading. This comment will be stored against the reading when you save the file. In the row for which you wish to add a comment, click in the **Comment** column and type your text. Copy and Paste functions work identical to the single file data tab.

Printing Calibration Certificates

Starting with version 3.1.6, you can view and print a logger's factory calibration certificate directly from LogTag[®] Analyzer.

You can access the certificate:

- by clicking **Show Certificate** from the report tab after the logger was downloaded
- by clicking **Certificate of Calibration** during configuration of the logger

The certificate issue date is the date the logger was first configured.

You can also access the factory calibration certificate from the report tab when opening a saved data file, provided the recorded data are from the period during which the certificate was still valid.



You will **not** be able to access the certificate:

- before the logger is configured for the first time. You will not be able to click **Show Certificate** until the configuration is uploaded successfully to the logger
- after the logger was adjusted by a third-party calibration laboratory using LogTag[®] Calibrate
- if the logger is configured after the factory calibration certificate has expired
- if a logger was manufactured before 1. April 2019
- for indicator products
- on a multi chart report



If a logger was first configured with a version of LogTag[®] Analyzer prior to 3.1r6 you may still be able to view the calibration certificate. Please note, however, that the certificate date may differ from that on the certificate issued by your distributor. In this case, the distributor issued certificate is correct.

New email and file upload options

(introduced in version 3.1r5)

Office365 email support

LogTag[®] Analyzer can now connect to Office365's SMTP server using your Office365 account.

To use this method, select [Email settings](#) in [Edit - Options - Automation](#).

Complete SMTP Server, Port and SSL/TLS fields as follows:

Server Name: smtp.office365.com

Port Number: 587

Encryption Method: Enable SSL/TLS

Click [Use User Name and Password](#) and type your Office365 account email into the User Name field and your Office365 account password into the Password field.

You can now complete the remaining entries in this window.

FTP Settings when connecting via SFTP

SFTP (SSH File Transfer Protocol) creates an FTP link using a secure data stream. In addition to authentication via [Username](#) and [Password](#), LogTag[®] Analyzer offers authentication via a [Public/Private Key Pair](#).



If you wish to know more about asymmetric cryptography please refer to one of the many books or articles available on the topic.

When selecting Password, you provide the same details as you would for a standard FTP connection, except that the default port is now 22.

The screenshot shows the 'FTP Server Settings' dialog box. The 'FTP Server' field contains 'SFTP Server.domain' and the 'Port' is set to '22'. Under 'User Name', 'sftpuser' is entered. The 'Password' radio button is selected, and the password field contains several asterisks. The 'Private Key' radio button is unselected. The 'Remote Folder' is 'Uploads' and the 'Create folder' checkbox is unchecked. The 'Security protocol' section has radio buttons for 'none', 'SSL', 'TLS', and 'SFTP', with 'SFTP' selected. A 'Test connection' button is at the bottom.

When selecting Private Key, the entries change to allow you to specify the key pair for the authentication.

The screenshot shows the 'FTP Server Settings' dialog box with the 'Private Key' radio button selected. The 'FTP Server' is 'SFTP Server.domain' and 'Port' is '22'. 'User Name' is 'sftpuser'. The 'Password' radio button is unselected. The 'Private Key' radio button is selected, and there are fields for 'Private Key' and 'Key Password'. There are 'Load key...' and 'Generate key' buttons. The 'Remote Folder' is 'Uploads' and 'Create folder' is unchecked. The 'Security protocol' section has radio buttons for 'none', 'SSL', 'TLS', and 'SFTP', with 'SFTP' selected. A 'Test connection' button is at the bottom.

The key pair is provided via one of three methods:

1. The key pair is generated on the SFTP server, and the **public key** is added to the list of authorized keys that the server allows by the server administrator.

You will need to obtain and import the **private key** into LogTag[®] Analyzer. To do this, click **Load Key...** and browse to the private key file you have received. LogTag[®] Analyzer accepts OpenSSH and PuTTYGen keys. If the key was sent to you in OpenSSH format the file name may not have a file extension, and may not be displayed in the file explorer window that opens after you click **Load key...**. In this case, click the down arrow next to **Private Key File** and select All files.



The key may be protected by a password. You can enter this password in the **Key Password** field.



Note: If the key is protected by a password, you must enter this in the password field before you load the key, or you will receive an error message.

You should now be able to test your connection.

2. The key pair is generated by LogTag[®] Analyzer and the **private key** is instantly added to LogTag[®] Analyzer.

Generate the key pair by clicking **Generate keys**. If you wish to protect the private key with a password enter it before generating the key.

A file explorer window opens and you are asked to save the **public key** to a file. Browse to a suitable location, enter the name for the key and click **Save**.

Forward this file to the administrator of the SFTP server, so you can be included in the list of authorized users. LogTag[®] Analyzer generates a 2014-bit RSA key (stronger keys can be generated via method 3).

We recommend you create a backup copy of the **private key** and store it in a safe location. To do this, click anywhere in the private key field and press CTRL-A, then CTRL-C to copy the key to the clipboard. Press the Windows button (⊞) on your keyboard, type notepad and press Enter. Press CTRL-V to insert the contents of the clipboard. Save the file to a private location on your PC. Enter "yourkeyname.ppk" (including the quotation marks) as the file name to save it as a Private PuTTY Key.

Testing your connection cannot be done until the server administrator has advised you that the key has been added to the list of authorized users.

3. A third-party program is used to generate they key pair, such as PuTTYgen or SSH-keygen. This would require you to generate the key pair, save send the **public key** to the server administrator and import the **private key** into LogTag[®] Analyzer with the method described above.

Please discuss any further issues with your network administrator.

Improvements

As always, we have made some improvements and corrected some bugs from previous versions.

Prioritise download over file generation

(implemented in version 3.1r5)

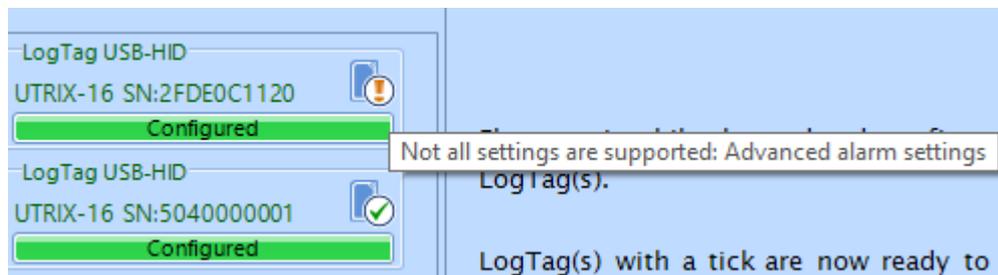
We have removed this configuration parameter for all USB loggers. It will now always get enabled during configuration.

Warning for unsupported configuration settings

(implemented in version 3.1r5)

We added more detailed information about unsupported configuration settings when using configuration profiles or configuring multiple loggers.

When the configuration panel shows a warning, a tooltip now shows information which of the settings cannot be applied for a specific logger, for example when configuring loggers with different alarm capabilities:



Themes

(implemented in version 3.1r5)

Regrettably we had to remove the support for the selection of themes, as they were causing issues with a number of the software's features, that we were unable to resolve.

USB Logger Description field

(implemented in version 3.1r6)

Until version 3.1r5, the description field in USB loggers only accepts ASCII characters due to a lack of font support in the on-board PDF. Some clients found this too restrictive, so effective version 3.1r6, LogTag[®] Analyzer allows entry of Unicode characters into the description (and password) fields. As a result, you may see unrecognizable characters in the on-board PDF file, while LogTag[®] Analyzer will display the correct characters on-screen.

Bug Fixes

As with every release you, our clients, have identified several issues, which we fixed with this release. Thank you to all who have brought these to our attention. Here is a complete summary of the changes.

3.1 release 6

- Option to view and print a calibration certificate is available for loggers manufactured after April 2019.
- All Loggers: In **File - Properties**, corrected the "Data originally acquired" field. In some cases this could use the wrong time zone.
- All USB Loggers: Improved robustness to recover from logger memory corruption. There will be fewer instances of corrupt calibration errors.
- All USB Loggers: Allow Unicode characters in USB/PDF logger description field to allow localized content (Note: Unicode characters are not currently supported by USB logger firmware, so PDF files generated may contain unrecognizable characters).
- USRIC-4 (firmware version 4.02.01 or earlier): Add "push button start from hibernation" start mode to allow start delay to be configured and used. Use this mode instead of standard push button start as this firmware may start immediately even if start delay is configured in standard push button start mode.
- USRIC-4 (firmware version 4.02.01 or earlier): When start delay is configured, automatically set to "Push button start from hibernation" and disable pre-start logging. This works around an issue in these firmware versions. Corrected automatically in later USRIC-4 firmware versions.
- USRIC-4/USRIC-8/UTRIX-16/UTRID-16: Corrected statistics for zoomed values for USB multi-alarm loggers.
- TRIL-8/TREL-8/SRIL-8: These loggers can no longer be configured together or with each others profiles. This avoids unexpected results during configuration.
- HAXO-8: Corrected behaviour where in rare circumstances an extra fictitious reading would be shown.
- TRID30-7/TRED30-16R: Upper and lower alarm thresholds now use more accurate values. This prevents readings reported as acceptable to trigger an alarm and vice versa.
- Several improvements to file open and save behaviour where non-existent, or invalid file path are used.
- Use correct decimal place symbol (e.g. comma ',' or period '.' character) as defined by the local PC region settings. Effects both LogTag Analyzer and exported files.
- All USB Loggers: The brand name displayed on the on-board PDF report and in the file names is now as intended.

3.1 release 5

- Added the option to generate Factory Calibration Certificates for loggers and files
- Added Data view for Multi-Charts with up to 10 files
- Added French Language for selection
- A configuration profile issue for USRIC-4 loggers has been resolved
- Corrected the number of starts displayed in Report for multi-use loggers
- Aligned data list display of alarm readings with LogTag® Analyzer version 2
- Corrected chart display of sensor disconnected readings for TREX-8 and TREL-8 loggers to match the display of LogTag® Analyzer version 2
- Updated the Set Timezone method for Vaxtag® loggers
- Corrected various issues when importing and exporting option settings
- Aligned HAXO-8 low battery display with LogTag® Analyzer version 2

3.1 release 3

- Battery test during configuration of TRIL-8 and SRIL-8 loggers has been improved.

3.1 release 2

- Corrected an issue where, in some cases, temperature loggers that were adjusted using LogTag® Calibrate showed incorrect values near both ends of the product's temperature range.

3.1 release 1

- Corrected download for USB loggers started via push button without start delay
- Update imported profiles to show correct start delay in edit profile dialog.
- Corrected issue with temporary files that caused non-admin user being unable to open .ltd files with Explorer double-click.

3.1 release 0

- Added information about unsupported configuration settings when using configuration profiles or configuring multiple LogTags together
- Added SFTP protocol for file upload
- Added support for new products TREL30-16, UTRED30-16 and UTRED30-Wifi
- Added support for user resettable Min/Max, including chart displays and Report Event info
- Corrected "Push button start from Hibernation" setting in profile
- Corrected Auto-download button behaviour according to configuration
- Corrected email settings that lead to rejection of support emails sent from Gmail accounts
- Corrected total log duration calculation in Configuration Log

- Fixed a bug with the 3.0r8 installer where additional user accounts are prompted to run the installer again to verify files.
- Fixed program freezing issue with Analyzer when a computer exited sleep mode
- HAXO chart: Show correct x-axis labels for humidity chart when temperature chart is disabled
- Improved display markers for re-calibrated readings for USB-LogTags
- Improved display of sensor disconnected readings in file exports
- Improved handling of page margin units in Page Setup dialog
- Improved Hibernate function
- Improved overall stability of the application
- Improved PDF export: Removed empty pages, improved receiver notes, page number positions
- Improved Report and PDF Report layout for languages German, Spanish and Russian
- Re-set HAXO re-calibrated markers on configuration
- Sending emails: Added support for Office365 mail servers
- Themes are no longer supported
- USB LogTags: Configuration now always enables the "Prioritise download over file generation"