DT Logger Host Release Notes

Aug 01, 2023 - Version 1.20.0

Num	Description
1	**DTSAA Logger Updates** The DTSAA Logger updates included the following changes: • Removed the manual setup buttons such as "Upload to Logger" from the DTSAA setup tab dialog. These functions were removed as they are not required for configuring the logger and would avoid potential data logger memory corruption issues.

May 31, 2023 - Version 1.19.9

Num	Description
1	**DT2485 Logger Updates** The DT2485 Logger updates included the following changes: • Added option allowing IPI2/3/4 to coexist on the same bus in DT2485 logger sensor configuration

Mar 22, 2023 - Version 1.19.8

Num	Description
1	**DT2011B/DT2055B Logger Updates** The DT2011/2055 Logger updates included the following changes: • Updated the calibration coefficients labels to match the current vibrating wire sensor calibration sheets.

Jan 26, 2023 - Version 1.19.7

Num	Description
1	**General** • Microsoft libraries are automatically installed with the correct versions during the installation wizard. • Updated the security patch for the Installation Wizard.
2	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • Added support for Tilt meter products using the STM32 processor (IPI engine). • Updated the tilt meter labels column in the data file. • As requested by Beaded Stream, the instrument name was changed to "beadedstream".
2	**DTSAA Logger Updates**

	The DTSAA Logger updates included the following changes: • Fixed bug associated with missing magnetometer data in the data file.

Nov 25, 2021 - Version 1.19.5

Num	Description
1	**DT2306** Added DT2306 Logger into the DT Logger suite of data loggers.
2	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • Applied miscellaneous bug fixes associated with the Beaded Stream instrument interface.

Aug 25 , 2021 - Version 1.19.3

Num	Description
1	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • Improved the Generic Modbus features checking for NAN (not a number) data fields, Modbus registers displayed in hex values and other miscellaneous updates. • Added support for the Beaded Stream thermistor array instrument. • Fixed a bug related to the IPI duplicate addressing check.
2	**DTSAA Logger Updates** The DTSA Logger updates included the following changes: • Improved power management on the DTSAA logger. The DTSAA “Delay before scan” is automatically changed to when the “Read top segment last” is updated. If “Read top segment last” is enabled, the “Delay before scan” is set to 0.3 seconds. If the “Read top segment last” is disabled, the “Read top segment last” is set to 5 seconds. • The SAA data files are automatically copied to the SAAfileBackup directory to ensure data files are backed up. • The DTSAA monitor saves data based on the received segment number.

Feb 11, 2021 - Version 1.19.1

Num	Description
1	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • The IPI3/IPI4 Discovery feature was removed from the Advanced options due to reliability of discovering IPI with a large number of IPI nodes.

	• Fixed IPI Modbus bug associated with updating the modbus addressing in the DT2485 logger. • Added duplicate IPI address checks and alerts user when duplicate address are detected. • Added improvements to the generic Modbus interface.

Jan 15, 2021 - Version 1.19.0

Num	Description
1	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • The IPI3/IPI4 Discovery feature was added to the Advanced options. The discovery feature interrogates the logger for all the IPI3/IPI4 serial numbers in the chain. • The IPI3/IPI4 Sort option was added in the Advanced options. The sort feature sorts the IPI3/IPI4 by its serial number or by its Modbus address. • The IPI3/IPI4 listing displays a red color if there are duplicate serial number or modbus addresses listed. The red color is intended to give a warning to the user of a problem to be reviewed. • In this version, if the IPI3/IPI4 lists contains duplicate serial numbers, the Modbus address update is not permitted. An error prompt is displayed for the user. • In the previous version, while in the data monitor mode, the Host PC may sometimes display a large number such as 2147483348 as the displacement. This value indicates the logger was unable to update the displacement value. In this version, instead of displaying an invalid number, this version displays three dashes "---" to reduce confusion. • Added an additional user prompt to confirm that the IPI3/IPI4 sensors are connected to the logger prior to performing the Modbus Address Update feature. • Added checks to ensure that the sensor configurations are consistent between the logger and the Host PC software before the Modbus Address update is applied.
2	**DTSA Logger Updates** The DTSA Logger updates included the following changes: • In the previous version, the user must manually press the Reconnect button to initiate a logger reconnection. In this version, the Host PC software automatically initiates a reconnection to ensure that the logger refreshes the DTSA array. • Added an additional checkbox for the user to select or de-select the reading of the top segment as the last read in the read cycle. The top segment may be read as the last node in the read cycle as the top segment contains additional sensors that require a longer delay after power up. This new parameter is located in Advanced → Adjustment General tab.
3	**All Loggers** For all loggers, this version included following changes: • In previous versions, some of the dialogs used the bitmap based font type. On some laptops, these bitmap font types may cause some of the dialog content to be hidden from the view. In this version, all bitmap based font type have been changed to a Truetype font such as the Microsoft Sans Serif type.

Nov 10, 2020 - Version 1.18.5

Num	Description
1	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • IPI3/IPI4 sensor verification with ASCII and Modbus address. This feature incorporates a configuration timestamp that is exchanged between the DT Logger Host and the DT2485 Logger. This timestamp is used to synchronize if the DT2485 logger should to re-synchronize the Modbus

	address. The DT Logger Host compares if the Modbus addressing is more current than the DT Logger's last configuration update. If the configuration on the Host had recently been updated, then the DT Logger Host updates the Modbus address configuration on the Logger with the latest configuration. • IPI4 negative temperature display. The Host PC incorrectly converted the temperature reading from the IPI4 sensors when the reading is less than 0 degree Celsius. The Host PC would either show a large positive temperature reading or NAN. In this version, this problem is resolved.
2	**DTSA Logger Updates** The DTSA Logger updates included the following changes: • Corrected the DTSA temperature display in the data log file and temperature. This version incorporates the updated temperature decoding algorithm. • The maximum number of segment is set to 200 as this is the limit of the DTSA. • The number of current segment count displayed excludes the status segment. Thus, the total number of segment always indicate the number of sensors in the array. In the previous version, the number of segments count also included an additional status segment which may introduce confusion for the users. • The DT Link option is disabled in this version as the DTSA logger does not support the DT Link capability.
3	**DT2350 Logger Updates** The DT2350 Logger updates included the following changes**:** • The graph radio buttons have been removed from the monitor dialog as the graphing capability is not available for this logger.
4	**All Loggers** For all loggers, this version included following changes: • Logger firmware version check and notification. In this version, the DT Logger Host reads the firmware version on the logger and compares the firmware version with the latest available version from the RST online repository. If the logger version is old, the DT Logger Host generates a notification on the description of the change and the option for the user to automatically download the latest version to the logger.

Aug 20, 2020 - Version 1.18.2

Num	Description
1	**Introduced the Shape Array DTSA Logger** The DTSA Logger configuration and monitor pages were introduced to interface with the Shape Array sensors. This allow the Shape array discovery, configuration, monitor and data logging capabilities for the DTSA Logger. The user's manual was also updated to revision L.
2	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • Introduced support for the IPI4 (Gen 4). The IPI4 communication mode is set to Modbus as a default • Added the ability to update the Modbus address for IPI3/IPI4 that are configured for the Modbus communications mode. • Added the ability to associate an IPI serial number to distinguish between IPI types where IPI4 have serial numbers greater than 80000, IPI3 have serial number ranges from 60000 to 79999, legacy IPI have serial numbers less than 60000. • Corrected the display of random/erroneous loggers in the DT Bus and Monitor display that was introduced in a version patch 1.17.3. This problem is resolved in this version.

April 08, 2020 - Version 1.17.1

Num	Description
1	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • Added the ability to configure the IP3 settings such as the delay and retry parameters. • Added the ability to cache the IPI3 configurations. • Added ability to monitor and graph the IPI3 data log.

Mar 25, 2020 - Version 1.17.0

Num	Description
1	**DT2485 DT-BUS Logger Updates** The DT2485 Logger updates included the following changes: • Introduced support for the IPI3 (Gen 3).