



Calisto Manager

End-user Release Notes

Version 1.8.0

MS MORGAN
SCHAFFER
A DOBLE COMPANY



November 15, 2018

The following end-user release notes are intended to help you manage a software and firmware upgrade within your organization.

Summary


The end-user release notes apply the following Morgan Schaffer products:

Product name	Models
Calisto	C76, C76A, C76G, C150
Calisto 2	C85, C85A, C250
Calisto 5	C500, C501
Calisto 9	C900, C900S, C901

The following software and firmware are now available:

Software / Firmware name	Versions
Calisto Manager software	1.8.0
Calisto and Calisto 2 firmware <i>(carried by Calisto Manager)</i>	Main: 3.80
Calisto 5 and Calisto 9 firmware <i>(carried by Calisto Manager)</i>	Main: 2.70 GC: 2.70
Power supply firmware <i>(carried by Calisto Manager)</i>	PSU (AC): 2.2.0 (C76 and C85) PSU AC/DC: 2.6.2 (C76A, C76G, C85A, C150, C250, C500, C501, C900, C900S and C901) PSU 2: 1.0.0 (All)

They can be downloaded from our website at <https://www.morganschaffer.com>. Please enter your client login information and navigate from the "Technical Support" tab to the "Software, Manuals & Specifications" page.

	Highlights of this release
✓	<p>All Calisto monitors:</p> <ul style="list-style-type: none"> A new window is now available to see DNP3 and Modbus communication statistics to troubleshoot issues when communicating with external devices. A new PSU 2 is supported that increases reliability, reduces start up inrush current and is much easier to replace in case of a power supply failure of an old monitor.
✓	<p>Calisto 5 and Calisto 9:</p> <ul style="list-style-type: none"> Supports continuous-cleaning gas plumbing configuration
✓	<p>Calisto and Calisto 2:</p> <ul style="list-style-type: none"> A new Main I/O board is supported that provides higher voltage isolation on RS-485 port, 4-20 mA analog inputs and outputs.

Technical support

If you have any questions regarding this release, please contact your Morgan Schaffer Authorized Representative or Morgan Schaffer technical support:

Web: <https://www.morganschaffer.com>

E-mail: support@morganschaffer.com

Telephone: +1.514.739.1967

Toll-Free (USA and Canada): +1.855.861.1967

Software compatibility

The following operating systems are supported by Calisto Manager:

- Microsoft Windows XP® SP3
- Microsoft Windows Vista®
- Microsoft Windows 7®
- Microsoft Windows 8®
- Microsoft Windows 10®

Instructions

Software upgrade

Recommendations:

1. Before upgrading Calisto Manager, review all changes in these notes to ensure compatibility with your needs.
2. Upgrade all Calisto Manager installations within your organization to the new version.

Warning: The database used by Calisto Manager may be updated in a manner that cannot be reverted to the previous format.

To install Calisto Manager, double-click on the Calisto Manager installation file and follow the on-screen instructions. At the “Choosing Components” step of the installation, be sure to check the “USB Drivers” box. If a notification window appears, choose the “Continue Anyway” option.

Firmware upgrade

Recommendations:

1. Before upgrading the Calisto firmware, review all changes in these notes to ensure compatibility with your needs.
2. Upgrade all Calisto units in your organization with new firmware. This is accomplished by connecting to each one with the new version of Calisto Manager and following the upgrade instructions.

Warning: Firmware upgrade is irreversible.

To upgrade the Calisto firmware:

- Start the new Calisto Manager version.
- In the Calisto Manager main window, double-click the Calisto to upgrade.
- Calisto Manager will ask to do the firmware upgrade.
- After the upgrade, Calisto Manager will restart the Calisto.

Related documents

All Calisto monitors	Revision	Updated?
Calisto Manager User Guide	21	Yes
IEC 61850 Configuration Tool User Guide	04	Yes
IEC 61850 Communication Kit Installation & Configuration Manual	08	Yes

Calisto and Calisto 2	Revision	Updated?
Calisto-Calisto 2 DNP3 device profile	5.1	Yes
Calisto-Calisto 2 Modbus device profile	1.10	Yes
Calisto-Calisto 2 IEC 61850 device profile	2.0	Yes
Calisto-Calisto 2 IEC 61850 configuration	2.0	Yes
Calisto-Calisto 2 Error codes and recommended actions	01	No

Calisto 5 and Calisto 9	Revision	Updated?
Calisto 5-Calisto 9 DNP3 device profile	6	No
Calisto 5-Calisto 9 Modbus device profile	1.11	No
Calisto 5-Calisto 9 IEC 61850 device profile	2.0	Yes
Calisto 5-Calisto 9 IEC 61850 configuration	2.0	Yes
Calisto 5-Calisto 9 Error codes and recommended actions	03	Yes

Changes

Calisto Manager Software

Calisto Manager			Version: 1.8.0
Type	Models	Introduced version	Description
Minor	C500 C900 C900S C501 C901	1.7.2	Carrier gas Low Pressure Error minimum setting. Changed Carrier gas Low Pressure Error (Enable Below) value to accept a minimum value at 70 psi. It was previously limited to 200 psi. If a value below 200 psi was required, the workaround was to use the web server to change the setting.
Enhancement	All	N/A	Transformer information added to email. Added transformer information to email sent for Calisto events. The timestamp is now in local time.
New feature	C500 C900 C900S C501 C901	N/A	New Calisto 5 and Calisto 9 error codes: <ul style="list-style-type: none"> • Bypass Flow • Detector Current Low Please see Calisto 5-Calisto 9 Error codes and recommended actions document for more details.
New feature	All	N/A	Add a new window to show DNP3 and Modbus communication statistics. This new window is a great tool to help customers troubleshooting communication issues that might occur when communicating with external devices. This is only available in Advanced mode in the Calisto / Advanced menu.
New feature	All	N/A	Support of a new Calisto PSU. The PSU 2 is a new power supply design for the Calisto product family that increases reliability and reduces required inrush current at start up. In case an existing Calisto power supply would fail in the field, it could be replaced by a PSU 2 in a much easier manner.
New feature	All	N/A	Exposed Reset window in Advanced mode. In the Calisto / Advanced menu, it is now possible to perform a software reset of the monitor. It has to be understood that a customer must have a good reason to perform such action since it could prevent the monitor to perform measurements for several minutes.

Hash codes to verify the integrity of the file:

MD5	2CE0025B682C994E66D424F28F4D77DC
SHA-1	15C01A395F74A4DF261F417684EFA91184BC1B19
SHA-256	7CE5308F1B1C09ECEC89E1EFBD9F91027DE1EC0CFC2D222EF5E27E4C1F81EEEE

Calisto and Calisto 2 firmware

Main			Version 3.80
Type	Models	Introduced version	Description
Major	All	Initial release	PSU stuck in bootloader. A rare condition could occur where the PSU stays in bootloader after a firmware upgrade. This release fixes this issue.
Minor	All	N/A	Update device profile. For Modbus, DNP3 and IEC 61850 the device profile have been updated with the latest error names specified in the Calisto-Calisto 2 Error codes and recommended actions document .
Enhancement	All	N/A	Support new IEC 61850 module. The new module provides faster IEC61850 configuration transfer and faster data

			availability.
Enhancement	All	N/A	Support new Main I/O. A new Main I/O board is supported by this release. This new Main I/O will provide better voltage isolation for RS-485, 4-20 mA inputs and outputs.

Calisto 5 and Calisto 9 firmware

Main			Version 2.70
Type	Models	Introduced version	Description
Major	All	Initial release	PSU stuck in bootloader. A rare condition could occur where the PSU stays in bootloader after a firmware upgrade. This release fixes this issue.
Major	All	2.30	GC I/O synchronization error. A rare GC I/O synchronization error could occur for firmware version 2.30 and later releases. This release fixes this issue.
Major	All	2.30	GC I/O communication errors. A rare GC I/O communication errors error could occur for firmware version 2.30 and later releases. This release fixes this issue.
New feature	All	N/A	New information available on web server page: <ul style="list-style-type: none"> Gas consumption rates for both cylinders. Modbus and DNP3 last error.

GC			Version 2.70
Type	Models	Introduced version	Description
Critical	C501 C901	N/A	Supports continuous-cleaning gas plumbing configuration. This release supports an improved gas flow configuration that continuously cleans the gas chromatograph while still achieving 4 years of carrier gas life time and while keeping the gas detector always on.
Minor	C500 C900	Initial release	Gas cylinder change procedure not always completed. When maintenance procedure was initiated more than one time to change the carrier gas cylinder or to change both gas cylinders, the Calisto did not complete the procedure. This release fixes this issue.

Power supply firmware

PSU 2			Version 1.0.0
Type	Models	Introduced version	Description
Enhancement	All	N/A	PSU 2 initial firmware release. This firmware is required if a PSU 2 has been installed in a monitor. The addition of the new PSU card and the firmware is improving reliability of the monitor power supply.

Types of changes

Type	Description
Critical	Change that fixes a problem that affects a basic functionality and does not have a workaround. It requires an upgrade.
Major	Change that fixes a problem that affects a basic functionality and has a workaround. It requires an upgrade if the workaround is not applicable.
Minor	Change that fixes a problem that affects a non-basic functionality and may have a workaround. It does not necessarily require an upgrade.
Enhancement	Change that improves an existing feature that brings new value.
Change	Change that does not fix any problem or bring any new value.
New feature	Change that adds new capabilities.
Security	Change that fixes a problem related to security. It usually does not have an impact on normal operation. The customer must decide if it requires an upgrade.