Sentrion® v4 - Release Notes Rev 32

Table of contents

Sentrion® v4.9.4 ..... **3**

Corrections in v4.9.4 3

Sentrion® v4.9.3 ..... **3**

Corrections in v4.9.3 3

Sentrion® v4.9.2 ..... **4**

Corrections in v4.9.2 4

Sentrion® v4.9.1 ..... **5**

News in v4.9.1 5

Corrections in 4.9.1 5

Known limitations in v4.9.1 5

Sub unit version requirements in v4.9.1 5

Known upgrade limitations 6

Compatibility with v4.9.1 6

Sentrion® v4.9.0 ..... **8**

News in 4.9.0 8

Corrections in 4.9.0 8

Known limitations in 4.9.0 9

Sub unit version requirements in v4.9.0 9

Known upgrade limitations 10

Compatibility with 4.9.0 10

Sentrion® v4.8.2 ..... **12**

New features in 4.8.2 12

Corrections in 4.8.2 12

Known limitations in 4.8.2 12

Sub unit version requirements in 4.8.2 12

Known upgrade limitations 13

Compatibility with 4.8.2 13

Sentrion® v4.8.1 ..... **15**

New features in 4.8.1 15

Corrections in 4.8.1 15

Known limitations in 4.8.1 15

Sub unit version requirements in 4.8.1 15

Known upgrade limitations 16

Compatibility with 4.8.1 16

Sentrion® v4.8.0 17

New features in 4.8.0 17

Corrections in 4.8.0 18

Known limitations in 4.8.0 18

Sub unit version requirements in 4.8.0 18

Known upgrade limitations 18

Compatibility with 4.8.0 19

Upgrading Sentrion S3 from v3.x.x to v4.3.3 20

Sentrion v4.9.0: Upgrade procedure when using the "Encrypted with authentication" protocol 22

If *Encrypted with authentication* is used 22

If *Encrypted with authentication* and remote features are used 23

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Sentrion® v4 - Release Notes Rev 32

Sentrion® v4.9.4

Corrections in v4.9.4

- Logging – Both access cards are now logged when using dual card access in combination with operator approval.
- Alarm transmission – Alarms could be unnecessarily retransmitted when using the ISA2000 protocol.
- Alarm transmission – Alarm transmitter could stop responding when using the Safetel protocol.
- Global control panel – Fix for incompatibility with Sentrion v5.2.0 or later.
- Sanity check – Some issues have been eliminated and diagnostic information has been added.
    - Additional information is now logged for sanity check alarms to make it easier to identify errors.
    - A case where storage space could run out due to unnecessary disk writes has been eliminated.
- System - Security updates for system components (Sentrion S3)

Sentrion v4.9.4 is a point release and only includes the critical changes listed above. For further information about the version see the *Sentrion® v4.9.1* chapter below.

Sentrion® v4.9.3

Corrections in v4.9.3

- Night locks – Miscellaneous error corrections for the night lock feature in Sentrion. The changes primarily affect door environments and elevator floors.
    - *Night lock forced* was previously reported instead of or in addition to *Door open too long* in some cases where a passage took to long to complete. Now a passage is not considered completed until the night lock input returns to normal as well. This scenario is now covered by the *Door open too long* alarm rather than *Night lock forced*. Please note that *Door open too long* is not usually configured as a 24 hour alarm as opposed to *Night lock forced*.
    - Active door sensor or lock input could in some cases prevent a *Night lock forced* alarm.
    - *Night lock forced* alarms could in some situations be falsely triggered by initiating a passage but never opening the door.
- Remote link features – The function that restores remote links after a network failure is now more robust. Affects remote links, global control panels and remote alarm transmitters.
- Elevators – An elevator floor in an armed alarm area could prevent travel to other floors.
- Language support – Updated Finnish translations
- Commands – The selected system language could affect the function Command with valid card.
- Sanity check – Some issues have been eliminated and diagnostic information has been added.
    - A case where an alarm unnecessarily required a reboot to be resettable has been fixed.
    - Sentrion could previously unnecessarily trigger an alarm about too large log files.
    - Additional information is now logged for sanity check alarms to make it easier to identify errors.

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Sentrion v4.9.3 is a point release and only includes the critical changes listed above. For further information about the version see the *Sentrion® v4.9.1* chapter below.

Sentrion® v4.9.2

Corrections in v4.9.2

- Includes a fix for an issue where updating the firmware of the PACOM 8707 card reader may fail during the first attempt if Encryption is set to Scrambling on the DSS unit the card reader is connected to.
- Includes a fix to automatically correct a situation where Sentrion S4 would report the wrong memory size.

Sentrion v4.9.2 is a point release and only includes the critical changes listed above. For further information about the version see the *Sentrion® v4.9.1* chapter below.

Please note that in conjunction with the release of Sentrion v4.9.2 the documentation is updated to clarify some aspects of the support for Aperio units. Important updates include:

- Sentrion S3 and Sentrion S4 support up to three Aperio loops with each loop containing a recommended maximum of 15 Aperio units.
- Loops can be used for either DSS units or Aperio units. It is not possible to mix different unit types on a single loop.

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Sentrion® v4 - Release Notes Rev 32

Sentrion® v4.9.1

News in v4.9.1

- A new setting *Force buzzer on card read* has been added for card readers. Since some card readers do not automatically activate the buzzer when reading a card there is now a setting for forcing this behavior. The setting also allows the unit to force LED indications on card readers that require this. Please note that this setting does not affect the card reader's default behavior. If the card reader activates the buzzer by default, there is a risk of double beeps if the *Force buzzer on card read* setting is enabled. It is also not possible to disable the default behavior of a card reader by deactivating *Force buzzer on card read*. The feature requires DSS firmware v3.5.
- A new version of the DSS firmware is included. Version 3.5 is required for full compatibility with card readers that do not automatically activate the buzzer when reading cards.

Corrections in 4.9.1

- The system time can now be updated from PACOM Unison when the Sentrion language is set to Finnish.
- Detection of substitution of connected alarm transmitters now works correctly.
- A rare problem where DSS units can no longer receive firmware updates has been fixed.

Known limitations in v4.9.1

- A newly created *Entry/Exit* section that is force armed does not indicate this in the area status. Works properly once the DSS line has been restarted. Only applicable to sections that have just been created.
- Web: Rendering the *Alarm handling* page takes 10 seconds if the DNS configuration is incorrect.
- OSDP locks: Inputs must be configured as *Unbalanced* for reporting to work correctly.
- Updating the firmware of the PACOM 8707 card reader may fail during the first attempt if Encryption is set to Scrambling on the DSS unit the card reader is connected to. Works correctly on the second attempt.
- Downloading configuration data to card readers is not supported by the Sentrion web interface.
- Finnish translations are not available in the Sentrion web interface.
- In rare cases simultaneously powering on a Sentrion, a PACOM 8707 card reader and the DSS it is connected to may cause the screen of the card reader to not update correctly. Can be addressed by programmatically disabling and enabling the relevant DSS unit.
- In some cases when upgrading DSS devices in Sentrion Manager (Advanced mode) several deprecated firmware versions are shown. If the list of available firmware versions includes versions beginning with 3 and versions beginning with 1 then the versions beginning with 1 are deprecated. The upgrade process will not complete successfully if a deprecated version is selected and the current version will remain installed.

Sub unit version requirements in v4.9.1

The following versions are required for proper functionality of DSS units:

- DSS-Door2 (firmware: v1.10 or later required, v3.4 or later recommended)
- DSS-IO82 (firmware: v1.6 or later required, v3.4 or later recommended)
- DSS-IO28 (firmware: v1.6 or later required, v3.4 or later recommended)

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- DSS-IO21 (firmware: v1.6 or later required, v3.4 or later recommended)
- DSS19-IO85 (firmware: v1.12 or later required, v3.4 or later recommended)
- DSS-Touch (firmware: v4.0 or later required, v5.1 or later recommended)
- DSS-Ace (firmware: v1.2 or later required, v1.5 or later recommended)
- DSS-MUX (firmware: v1.6 or later required, v3.4 or later recommended)
- DSS-Door (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS-Door485 (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS19-IO (firmware: v2.13 or later required, v2.17 or later recommended)

NOTE that DSS version 1.13 is blacklisted since earlier because it can affect other units on the same line in some configurations!

If the site has older firmware in their DSS units than what is listed above, these can easily be upgraded using Sentrion Manager (v3.3.0 or later). All recent firmware files for all DSS types, except for DSS-Touch, are available in Sentrion v4.9.1.

Upgrades can be performed either on the individual unit or on a complete RS-485 line. The upgrade feature automatically suggests the recommended firmware version for each unit (see list above).

Known upgrade limitations

Not all units support upgrading over RS-485. These units are Milleteknik power supplies, Swanson power supplies, Aperio devices and DSS-Touch. These are upgraded using a USB connection.

Upgrading Sentrion units using the protocol ***Encrypted with authentication*** requires a specific upgrade procedure if the unit is running a version earlier than v4.9.0 (see *Sentrion v4.9.0: Upgrade procedure when using the "Encrypted with authentication" protocol*). Sentrion Manager v4.9.0 is required.

Before upgrading a unit running an S3 version earlier than v4.x, the unit must first be upgraded to v4.3.3 (see *Upgrading Sentrion S3 from v3.x.x to v4.3.3* for more information).

Compatibility with v4.9.1

Pacom Unison
Sentrion v4.9.1 requires PACOM Unison v5.4.0 or later.
PACOM Unison v5.11.2 or later is recommended for full functionality.

Sentrion Manager
Sentrion v4.9.1 requires Sentrion Manager v3.3.0 or later. v4.9.0 or later is recommended for full functionality. Note: Sentrion Manager v4.9.0 is ***required*** for upgrading to Sentrion v4.9.1 in some cases (see *Sentrion v4.9.0: Upgrade procedure when using the "Encrypted with authentication"* for more information).

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Pacom 8707 card reader
Sentrion v4.9.1 requires PACOM 8707 version 56.76 or later and DSS firmware version 3.4 or later for full functionality.

Chiron IRIS Touch 440/640
Sentrion v4.9.1 requires Chiron IRIS Touch 440/640 firmware v1.19.12 or later.

Dualtech alarm transmitter
Sentrion v4.9.1 requires Dualtech firmware v3.2.1.7 or later.

AddSecure DC (Safetel) alarm transmitter
Contact AddSecure for information on units and versions that support the ISA2000 protocol.

Milleteknik power supply with DSS support
To integrate a Milleteknik power supply with Sentrion/DSS its firmware must be version 4.18 or 4.29.6 or newer. Versions 4.19 through 4.29.5 have known issues concerning addressing using the DIP switch that cause address collisions on the DSS line. Separate documentation *(Sentrion Technical Information 20200904 - Milleteknik PSU integration)* describing the different power supply variants, firmware versions, and Sentrion support is available.
Contact Milleteknik for up-to-date information on firmware versions.

Swanson Gari G1/G2 power supply/battery backup
Gari G1/G2 is a power supply that provides uninterrupted power to 24VDC burglary and access control systems. Integration with Sentrion requires fw v1.0.0, but v1.8.0 is recommended.
For more information on Gari see:
www.swansonstelemekanik.se/produkter/certifierade-produkter/inbrottslarm---ssf---gari

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Sentrion® v4 - Release Notes Rev 32

Sentrion® v4.9.0

News in 4.9.0

- Communication security has been improved in 4.9.0 compared to earlier versions. Encryption features as well as certificate handling for authentication have been upgraded. These changes apply to both the communication between Sentrion and PACOM Unison and the communication between Sentrion units that use any form of remote features (such as remote alarm transmitters, remote control panels, remote links, etc.) As a result of this change, some Sentrion configurations will require a specific upgrade procedure (see *Sentrion v4.9.0: Upgrade procedure when using the "Encrypted with authentication" protocol* below)
- A new feature has been added so that inactivity tracking in areas better account for persistently active members (in addition to individual member activations as before). The new alarm area setting *Reset Inactivity when Active Member* means that the area stops counting inactivity as soon as any member is active. Individually disarmed members no longer affect inactivity tracking.
- A new way to combine disarming and passage has been introduced using the new card reader sequence *Disarm and Passage*. When an authorized person enters the sequence in the card reader, the alarm area controlled by the reader is first disarmed and then the door is automatically unlocked. This feature requires that the person has access to both the alarm area and the door.
- Access checks when reading a card have been optimized. An unauthorized person is now immediately denied access without first having to enter their PIN. This applies to both passages (requires access to the door) and arming and disarming procedures (requires access to the area). Note that the new behavior is only active if there are no additional actions available. For instance, the feature requires that no sequences beginning with card are set up for the card reader.
- Improved indications on card readers. For example, the PACOM 8707 card reader can now indicate Door Code security level and the indications for different steps during a sequence have been improved, including a new more neutral indication for when more than one action can be performed.
- New alarm area setting *Active Entry/Exit Prevents Arming*. The setting makes it possible to exclude entry/exit sections from the sections that prevent the arming procedure from starting. If active entry/exit is set to prevent arming, the active section must be force armed (if force arm is allowed) for the arming procedure to complete. If active entry/exit is not set to prevent arming, the arming procedure starts whether the section is active or not. Note that if the section is still active when the exit procedure is completed, other settings may still prevent the arming procedure from completing.
- Updated section number handling during alarm transmission. Section numbers are now transmitted with all SIA codes.
- Updated operating system. Mainly contains security improvements.

Corrections in 4.9.0

- A rare situation where the network connection was not automatically restored has been fixed.
- A case where connecting or disconnecting a node could cause communication fault to pulse has been fixed.

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- Fix for a case where night locks were unlocked when an elevator left the floor after having stopped without opening the door. Required the elevator to be configured with “Unlock automatically”.
- Fix for a situation where alarms were not sent to the alarm transmitter after configuration changes.
- Corrections for MEL event logging: Unlocking is now logged immediately when the lock becomes maneuverable, and locking is logged when the lock is made non-maneuverable when locked.
- The Sentrion web interface has been updated to prevent address collisions between inputs and outputs.
- A case where operator approval could be triggered by an invalid card has been eliminated.
- A reporting delay for Night lock forced has been fixed.
- The handling of card profiles has been corrected. Could cause some card profiles to be incorrectly interpreted and in some cases lead to issues during card manufacture in the Sentrion web interface.
- Improved support for fallback language. An incorrect language setting could cause log in issues in DSS Ace and DSS Touch. Note: Firmware upgrade on the devices is required for full functionality.
- Alarm transmitter: A filter has been introduced to prevent alarm transmission issues for node names containing a “+” character.

Known limitations in 4.9.0

- A newly created *Entry/Exit* section that is force armed does not indicate this in the area status. Works properly once the DSS line has been restarted. Only applicable to sections that have just been created.
- Web: Rendering the *Alarm handling* page takes 10 seconds if the DNS configuration is incorrect.
- OSDP locks: Inputs must be configured as *Unbalanced* for reporting to work correctly.
- Updating the firmware of the PACOM 8707 card reader may fail during the first attempt if Encryption is set to Scrambling on the DSS unit the card reader is connected to. Works correctly on the second attempt.
- Downloading configuration data to card readers is not supported by the Sentrion web interface.
- Finnish translations are not available in the Sentrion web interface.
- If the system language in Sentrion is set to Finnish, Unison cannot update the time. Works correctly once the system language is set to English or Swedish and the unit is restarted.
- In rare cases simultaneously powering on a Sentrion, a PACOM 8707 card reader and the DSS it is connected to may cause the screen of the card reader to not update correctly. Can be addressed by programmatically disabling and enabling the relevant DSS unit.

Sub unit version requirements in v4.9.0

The following versions are required for proper functionality of DSS units:

- DSS-Door2 (firmware: v1.10 or later required, v3.4 or later recommended)
- DSS-IO82 (firmware: v1.6 or later required, v3.4 or later recommended)
- DSS-IO28 (firmware: v1.6 or later required, v3.4 or later recommended)
- DSS-IO21 (firmware: v1.6 or later required, v3.4 or later recommended)

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- DSS19-IO85 (firmware: v1.12 or later required, v3.4 or later recommended)
- DSS-Touch (firmware: v4.0 or later required, v5.1 or later recommended)
- DSS-Ace (firmware: v1.2 or later required, v1.5 or later recommended)
- DSS-MUX (firmware: v1.6 or later required, v3.4 or later recommended)
- DSS-Door (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS-Door485 (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS19-IO (firmware: v2.13 or later required, v2.17 or later recommended)

NOTE that DSS version 1.13 is blacklisted since earlier because it can affect other units on the same line in some configurations!

If the site has older firmware in their DSS units than what is listed above, these can easily be upgraded using Sentrion Manager (v3.3.0 or later). All recent firmware files for all DSS types, except for DSS-Touch, are available in Sentrion v4.9.0.

Upgrades can be performed either on the individual unit or on a complete RS-485 line. The upgrade feature automatically suggests the recommended firmware version for each unit (see list above).

Known upgrade limitations

Not all units support upgrading over RS-485. These units are Milleteknik power supplies, Swanson power supplies, Aperio devices and DSS-Touch. These are upgraded using a USB connection.

Upgrading Sentrion units using the protocol ***Encrypted with authentication*** requires a specific upgrade procedure (see *Sentrion v4.9.0: Upgrade procedure when using the "Encrypted with authentication" protocol*). Sentrion Manager v4.9.0 is required.

Before upgrading a unit running an S3 version earlier than v4.x, the unit must first be upgraded to v4.3.3 (see *Upgrading Sentrion S3 from v3.x.x to v4.3.3* for more information).

Compatibility with 4.9.0

Pacom Unison
Sentrion v4.9.0 requires PACOM Unison v5.4.0 or later.
PACOM Unison v5.11.2 or later is recommended for full functionality.

Sentrion Manager
Sentrion v4.9.0 requires Sentrion Manager v3.3.0 or later. Sentrion Manager 4.9.0 is recommended for full functionality. Note: Sentrion Manager v4.9.0 is ***required*** for upgrading to Sentrion v4.9.0 in some cases (see *Sentrion v4.9.0: Upgrade procedure when using the "Encrypted with authentication"* for more information).

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Pacom 8707 card reader
Sentrion v4.9.0 requires PACOM 8707 version 56.76 or later and DSS firmware version 3.4 or later for full functionality.

Chiron IRIS Touch 440/640
Sentrion v4.9.0 requires Chiron IRIS Touch 440/640 firmware v1.19.12 or later.

Dualtech alarm transmitter
Sentrion v4.9.0 requires Dualtech firmware v3.2.1.7 or later.

AddSecure DC (Safetel) alarm transmitter
Contact AddSecure for information on units and versions that support the ISA2000 protocol.

Milleteknik power supply with DSS support
To integrate a Milleteknik power supply with Sentrion/DSS its firmware must be version 4.18 or 4.29.6 or newer. Versions 4.19 through 4.29.5 have known issues concerning addressing using the DIP switch that cause address collisions on the DSS line. Separate documentation *(Sentrion Technical Information 20200904 - Milleteknik PSU integration)* describing the different power supply variants, firmware versions, and Sentrion support is available.
Contact Milleteknik for up-to-date information on firmware versions.

Swanson Gari G1/G2 power supply/battery backup
Gari G1/G2 is a power supply that provides uninterrupted power to 24VDC burglary and access control systems. Integration with Sentrion requires fw v1.0.0, but v1.8.0 is recommended.
For more information on Gari see:
www.swansonstelemekanik.se/produkter/certifierade-produkter/inbrottslarm---ssf---gari

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Sentrion® v4 - Release Notes Rev 32

Sentrion® v4.8.2

New features in 4.8.2

Version 4.8.2 contains no new features, but the following corrections are included.

Corrections in 4.8.2

- Importing a card profile could fail in some cases and show an error message.
- Disruptions to the communication between Sentrion and card reader PACOM 8707 could lead to the card reader screen no longer updating.
- Includes a fix to correct a situation where Sentrion S4 would report the wrong memory size.

Known limitations in 4.8.2

- A newly created Entry/Exit section that is force armed does not indicate this in the area status. Works properly once the DSS line has been restarted. Only applicable to sections that have just been created.
- Web: Rendering the *Alarm handling* page takes 10 seconds if the DNS configuration is incorrect.
- OSDP locks: Inputs must be configured as *Unbalanced* for reporting to work correctly.

Sub unit version requirements in 4.8.2

The following versions are required for proper functionality of DSS units:

- DSS-Door2 (firmware: v1.10 or later required, v3.0 or later recommended)
- DSS-IO82 (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS-IO28 (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS-IO21 (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS19-IO85 (firmware: v1.12 or later required, v3.0 or later recommended)
- DSS-Touch (firmware: v4.0 or later required, v5.1 or later recommended)
- DSS-Ace (firmware: v1.2 or later required, v1.3 or later recommended)
- DSS-MUX (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS-Door (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS-Door485 (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS19-IO (firmware: v2.13 or later required, v2.17 or later recommended)

NOTE that DSS version 1.13 is blacklisted since earlier because it can affect other units on the same line in some configurations!

If the site has older firmware in their DSS units than what is listed above, these can easily be upgraded using Sentrion Manager (v3.3.0 or later). All recent firmware files for all DSS types, except for DSS-Touch, are available in Sentrion v4.8.2.

Upgrades can be performed either on the individual unit or on a complete RS-485 line. The upgrade feature automatically suggests the recommended firmware version for each unit (see list above).

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Sentrion® v4 - Release Notes Rev 32

Known upgrade limitations

Not all units support upgrading over RS-485. These units are Milleteknik power supplies, Swanson power supplies, Aperio units and DSS-Touch. These are upgraded using a USB connection.

v4.8.2 must not be used with Sentrion S4 DUO since upgrading to v4.8.2 renders the unit inoperative after restart. Please contact support if an upgrade has already been performed.

Note: This issue only affects Sentrion S4 DUO. Sentrion S3 and Sentrion S4 are not affected.

Please see *Sentrion Technical Information 20210817* for more information.

Before upgrading a unit running an S3 version earlier than v4.x, the unit must first be upgraded to v4.3.3 (see *Upgrading Sentrion S3 from v3.x.x to v4.3.3* for more information).

Compatibility with 4.8.2

Pacom Unison
Sentrion v4.8.2 requires PACOM Unison v5.4.0 or later.
PACOM Unison v5.11 or later is recommended for full functionality.

Sentrion Manager
Sentrion v4.8.2 requires Sentrion Manager v3.3.0 or later. Sentrion Manager 4.8.0 is recommended for full functionality.

Pacom 8707 card reader
Sentrion v4.8.2 requires PACOM 8707 version 56.73 or later for full functionality. For the corresponding DSS unit, firmware version 3.3 or later is recommended.

Chiron IRIS Touch 440/640
Sentrion v4.8.2 requires Chiron IRIS Touch 440/640 firmware v1.19.12 or later.

Dualtech alarm transmitter
Sentrion v4.8.2 requires Dualtech firmware v3.2.1.7 or later.

AddSecure DC (Safetel) alarm transmitter
Contact AddSecure for information on units and versions that support the ISA2000 protocol.

Milleteknik power supply with DSS support
To integrate a Milleteknik power supply with Sentrion/DSS its firmware must be version 4.18 or 4.29.6 or newer. Versions 4.19 to 4.29.5 have known issues concerning addressing using the DIP switch that causes address collisions on the DSS line. Separate documentation describing the different power supply variants, firmware version and Sentrion support, is available.
Contact Milleteknik for up-to-date information on firmware versions.

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Swanson Gari G1/G2 power supply/battery backup
Gari G1/G2 is a power supply that provides uninterrupted power to 24VDC burglary and access control systems. Integration with Sentrion requires fw v1.0.0, but v1.8.0 is recommended.
For more information on Gari see:
www.swansonstelemekanik.se/produkter/certifierade-produkter/inbrottslarm---ssf---gari

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Sentrion® v4 - Release Notes Rev 32

Sentrion® v4.8.1

New features in 4.8.1

Version 4.8.1 contains no new features, but the following corrections are included.

Corrections in 4.8.1

- A correction has been made so that an affected night lock (input) immediately triggers opening the day lock.
- The card reader must no longer be an area controller when configuring a door as entry/exit and allowing entry only for people who are authorized to disarm the area.
- The flash partition is now cleaned during installation (an addition to a previous correction to prevent logging unnecessary information to the partition).
- Improvements have been made to always include the date in SIA messages when this is possible (the message text is still prioritized).

Known limitations in 4.8.1

- A newly created *Entry/Exit* section that is force armed does not indicate this in the area status. Works properly once the DSS line has been restarted. Only applicable to sections that have just been created.
- Web: Rendering the *Alarm handling* page takes 10 seconds if the DNS configuration is incorrect.
- OSDP locks: Inputs must be configured as *Unbalanced* for reporting to work correctly.

Sub unit version requirements in 4.8.1

The following versions are required for proper functionality of DSS units:

- DSS-Door2 (firmware: v1.10 or later required, v3.0 or later recommended)
- DSS-IO82 (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS-IO28 (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS-IO21 (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS19-IO85 (firmware: v1.12 or later required, v3.0 or later recommended)
- DSS-Touch (firmware: v4.0 or later required, v5.1 or later recommended)
- DSS-Ace (firmware: v1.2 or later required, v1.3 or later recommended)
- DSS-MUX (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS-Door (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS-Door485 (firmware: v2.13 or later required, v2.17 or later recommended)
- DSS19-IO (firmware: v2.13 or later required, v2.17 or later recommended)

NOTE that DSS version 1.13 is blacklisted since earlier because it can affect other units on the same line in some configurations!

If the site has older firmware in their DSS units than what is listed above, these can easily be upgraded using Sentrion Manager (v3.3.0 or later). All recent firmware files for all DSS types, except for DSS-Touch, are available in Sentrion v4.8.1.

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Upgrades can be performed either on the individual unit or on a complete RS-485 line. The upgrade feature automatically suggests the recommended firmware version for each unit (see list above).

Known upgrade limitations

Not all units support upgrading over RS-485. These units are Milleteknik power supplies, Swanson power supplies, Aperio units and DSS-Touch. These are upgraded using a USB connection.

Before upgrading a unit running an S3 version earlier than v4.x, the unit must first be upgraded to v4.3.3 (see *Upgrading Sentrion S3 from v3.x.x to v4.3.3* for more information).

Compatibility with 4.8.1

Pacom Unison
Sentrion v4.8.1 requires PACOM Unison v5.4.0 or later.
PACOM Unison v5.11 or later is recommended for full functionality.

Sentrion Manager
Sentrion v4.8.1 requires Sentrion Manager v3.3.0 or later. Sentrion Manager 4.8.0 is recommended for full functionality.

Pacom 8707 card reader
Sentrion v4.8.1 requires PACOM 8707 version 56.73 or later for full functionality. For the corresponding DSS unit, firmware version 3.3 or later is recommended.

Chiron IRIS Touch 440/640
Sentrion v4.8.1 requires Chiron IRIS Touch 440/640 firmware v1.19.12 or later.

Dualtech alarm transmitter
Sentrion v4.8.1 requires Dualtech firmware v3.2.1.7 or later.

AddSecure DC (Safetel) alarm transmitter
Contact AddSecure for information on units and versions that support the ISA2000 protocol.

Milleteknik power supply with DSS support
To integrate a Milleteknik power supply with Sentrion/DSS its firmware must be version 4.18 or 4.29.6 or newer. Versions 4.19 to 4.29.5 have known issues concerning addressing using the DIP switch that causes address collisions on the DSS line. Separate documentation describing the different power supply variants, firmware version and Sentrion support, is available.
Contact Milleteknik for up-to-date information on firmware versions.

Swanson Gari G1/G2 power supply/battery backup
Gari G1/G2 is a power supply that provides uninterrupted power to 24VDC burglary and access control systems. Integration with Sentrion requires fw v1.0.0, but v1.8.0 is recommended.
For more information on Gari see:
www.swansonstelemekanik.se/produkter/certifierade-produkter/inbrottslarm---ssf---gari

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Sentrion® v4 - Release Notes Rev 32

Sentrion® v4.8.0

New features in 4.8.0

- Locks that support OSDP communication (such as the Safetron 6xxx series) can now be directly integrated with DSS-Door2 and DSS19-IO85. A separate control unit is no longer needed and much more information can be retrieved from the lock. Security is also radically improved since the communication is encrypted. The same communication channel that is used by OSDP card readers is used for this feature. A maximum of 2 locks and 2 card readers can be connected to a DSS unit. (Requirements: Unison 5.11, DSS 3.3. If card readers are connected to the same DSS unit as the locks, the card readers must use encrypted OSDP)
- Software download from Sentrion to PACOM 8707 card readers is now supported. (Requirements: DSS 3.3, Sentrion Manager 3.x.x, 8707 FW 56.73, and a FW file from the manufacturer)
- Local programming can be created for Sentrion. This makes it easy to create calculations with AND/OR functions that operate completely autonomously in Sentrion (Requirements: Unison 5.11)
- The *Passage Verify Request* event is now shown on the relevant card reader (in addition to the door) to indicate more accurately where the access request was made. (Requirements: Unison 5.11)
- How area selection is performed in control panels is now configurable. For instance, if the *Area Selection* is set to *Show all (all selected)* the user is presented with a list of all areas pre-selected for arm or disarm, or if the *Show all (none selected)* option is set no areas are pre-selected in the list. There is also an option to only allow selection of a single area. If no additional configuration is done, the feature will continue to behave as it did before upgrading to v4.8.0. (Requirements: Unison 5.11, DSS-Ace 1.4, DSS-Touch 5.2)
- The night lock feature has received a much-needed update with further refined functions. If night lock is used by a door with Entry/Exit function, the night lock was previously locked immediately when the exit period started. Now the night lock will only be locked once the exit period has expired. During entry into an armed area the night lock will be unlocked when the entry starts and remain unlocked. The night lock will lock again when the area is next armed regardless of whether the disarm during entry succeeded or not. The purpose of this change is to allow for night locks that should not be possible to open during entry/exit without a risk of being locked in by a failed arm or disarm procedure. Night locks for doors that do NOT have an entry/exit function will lock immediately on arm and open on disarm.
  Note that night locks for doors that are members of an area will only unlock if the area is disarmed AND the schedule for the night lock is active.
- Previously, a connected Milleteknik power supply was presented as a node with many inputs. The inputs represented different statuses. As of this version the power supply is represented by a single node, and the different statuses are presented as events on the node. Note that integration of older Milleteknik PSUs with controller card SSF-TEQ-COM will now require different procedures during programming and making operational when Sentrion is connected to a PACOM Unison system. For more information on these changes please refer to *Sentrion Technical Information 20200904 - Milleteknik PSU integration*, distributed September 4, 2020. (Requirements: Unison 5.10.2, Milleteknik PSU with controller card PRO1 TEQCOM v4.33.2, PRO2v3 or PRO3)

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Sentrion® v4 - Release Notes Rev 32

Corrections in 4.8.0

- DHCP has been improved and is now more tolerant during negotiation with DHCP servers. This makes the feature more robust.
- Local programming has been optimized to be more responsive.
- Corrections have been made to doors of type MEL and BSL, where some events could be misleading.
- Improvements have been made to how status is set on PACOM 8707 card readers.

Known limitations in 4.8.0

- A newly created *Entry/Exit* section that is force armed does not indicate this in the area status. Works properly once the DSS line has been restarted. Only applicable to sections that have just been created.
- Web: Rendering the *Alarm handling* page takes 10 seconds if the DNS configuration is incorrect.
- OSDP locks: Inputs must be configured as *Unbalanced* for reporting to work correctly.

Sub unit version requirements in 4.8.0

The following versions are required for proper functionality of DSS units:

- DSS-Door2 (firmware: v1.10 or later required, v3.0 or later recommended)
- DSS-IO82 (firmware: v1.6 or later required, v3.0 or later recommended)
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- DSS-IO21 (firmware: v1.6 or later required, v3.0 or later recommended)
- DSS19-IO85 (firmware: v1.12 or later required, v3.0 or later recommended)
- DSS-Touch (firmware: v4.0 or later required, v5.1 or later recommended)
- DSS-Ace (firmware: v1.2 or later required, v1.3 or later recommended)
- DSS-MUX (firmware: v1.6 or later required, v3.0 or later recommended)
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- DSS19-IO (firmware: v2.13 or later required, v2.17 or later recommended)

NOTE that DSS version 1.13 is blacklisted since earlier because it can affect other units on the same line in some configurations!

If the site has older firmware in their DSS units than what is listed above, these can easily be upgraded using Sentrion Manager (v3.x.0 or later). All recent firmware files for all DSS types, except for DSS-Touch, are available in Sentrion v4.8.0.

Upgrades can be performed either on the individual unit or on a complete RS-485 line. The upgrade feature automatically suggests the recommended firmware version for each unit (see list above).

Known upgrade limitations

Not all units support upgrade over RS-485. These units are Milleteknik power supplies, Swanson power supplies, Aperio units and DSS-Touch. These are upgraded using a USB connection.

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Sentrion® v4 - Release Notes Rev 32

Before upgrading a unit running an S3 version earlier than v4.x, the unit must first be upgraded to v4.3.3 (see *Upgrading Sentrion S3 from v3.x.x to v4.3.3* for more information).

Compatibility with 4.8.0

Pacom Unison
Sentrion v4.8.0 requires PACOM Unison v5.4.0 or later.
PACOM Unison v5.11 or later is recommended for full functionality.

Sentrion Manager
Sentrion v4.8.0 requires Sentrion Manager v3.3.0 or later.

Chiron IRIS Touch 440/640
Sentrion v4.8.0 requires Chiron IRIS Touch 440/640 firmware v1.19.12 or later.

Dualtech alarm transmitter
Sentrion v4.8.0 requires Dualtech firmware v3.2.1.7 or later.

AddSecure DC (Safetel) alarm transmitter
Contact AddSecure for information on units and versions that support the ISA2000 protocol.

Milleteknik power supply with DSS support
To integrate a Milleteknik power supply with Sentrion/DSS its firmware must be version 4.18 or 4.29.6 or newer. Versions 4.19 to 4.29.5 have known issues concerning addressing using the DIP switch that causes address collisions on the DSS line. Separate documentation describing the different power supply variants, firmware version and Sentrion support, is available.
Contact Milleteknik for up-to-date information on firmware versions.

Swanson Gari G1/G2 power supply/battery backup
Gari G1/G2 is a power supply that provides uninterrupted power to 24VDC burglary and access control systems. Integration with Sentrion requires fw v1.0.0, but v1.6.0 is recommended.
For more information on Gari see:
www.swansonstelemekanik.se/produkter/certifierade-produkter/inbrottslarm---ssf---gari

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Sentrion® v4 - Release Notes Rev 32

Upgrading Sentrion S3 from v3.x.x to v4.3.3

Recommended upgrade package is 4.3.3. Then upgrade to the desired version.

Required actions before upgrading:

- Make a note of the unit's IP address (two addresses if the unit uses two networks)
- Because of the security upgrades included in v4.x.x, Sentrion Manager v3.2.2 or later is required to (re)connect to the unit after upgrading.
- Make sure that the factory reset DIP switch (Sentrion S3 MKII: marked by "FD" printed on the circuit board) is not active/ON.
- Check that the firmware version on all sub units meet the minimum requirements. If not, upgrade the sub units first. This is most easily done by first upgrading to v3.6.11 or v3.7.11 (use v3.6.11 if the unit is running an earlier version of 3.x.x and use v3.7.11 ONLY if the unit is running an earlier version of 3.7.x).
- The following two files are needed for the upgrade:
  Step1 - preinstall-sentrion-upgrade-3.x-to-4.x-r2.s3u
  Step2 - sentrion-upgrade-3.x-to-4.3.3.s3u
- Step1 is quick and prepares Sentrion for the next step. The Step2 upgrade can take up to 15 minutes to complete. For most of this time regular functions will not work. Please ensure that this causes minimal disruption for the site.

WARNING! Make sure that Sentrion has a stable supply of power during the entire upgrade process. If the RUN-LED is not flashing, NEVER cycle the power without first contacting support!

Upgrade procedure:

1. Make backups, especially if no management system is used
2. Connect to Sentrion using Sentrion Manager v3.2.4 or later
3. Select menu item *Upgrade*
4. Select the file *Step1 - preinstall-sentrion-upgrade-3.x-to-4.x-r2.s3u* and click *OK*. This operation is quick!
5. Select menu item *Upgrade* again
6. Select the file *Step2 - sentrion-upgrade-3.x-to-4.3.3.s3u* and click *OK*. This operation normally takes about 7 minutes to complete, but may in some cases take up to 15 minutes to complete. During the procedure the LEDs RUN/TEST/ERR next to the Sentrion memory card (bottom right corner) will alternate flashing. The system will restart a few times, and this is normal. Make sure that Sentrion is powered during the entire procedure.
7. Wait for the RUN LED to flash on the circuit board.

If Sentrion does not start correctly after the upgrade, check the following:

1. Check if the unit has been reset to the default IP address (192.168.0.222). This may be caused by the factory reset DIP switch ("FD" printed on the circuit board) being active (ON). Set the switch to OFF and then set the correct IP address.

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2. If the LED RUN on the circuit board is flashing, try restarting Sentrion.
3. Call TLAB support on +46 (0)31-830088. Take no further actions before having been in contact with support.

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Sentrion® v4 - Release Notes Rev 32

Sentrion v4.9.0: Upgrade procedure when using the "Encrypted with authentication" protocol

Sentrion version 4.9.0 upgrades the communication security between Sentrion and PACOM Unison and between Sentrion units when remote features are used. Some special actions must therefore be taken when upgrading Sentrion units that use the "Encrypted with authentication" protocol because of the strict security requirements of the protocol.

The upgrade instructions are divided into two variants. If you are unsure if any remote features are used, the "If *Encrypted with authentication* and remote features are used" procedure is recommended.

Follow the instructions in "If *Encrypted with authentication* is used" if the Sentrion unit uses the "Encrypted with authentication" protocol but not any remote feature (i.e., the unit does not use any features provided by other Sentrion units and other Sentrion units do not use any features provided by the unit).

Follow the instructions in "If *Encrypted with authentication* and remote features are used" if the Sentrion unit uses the "Encrypted with authentication" protocol and remote feature (i.e., the unit uses features provided by other Sentrion units or other Sentrion units use features provided by the unit).

Sentrion Manager 4.9.0 (or later) is required since it is the first release that supports the feature "Break Unison pairing". The feature is required for the upgrade process.

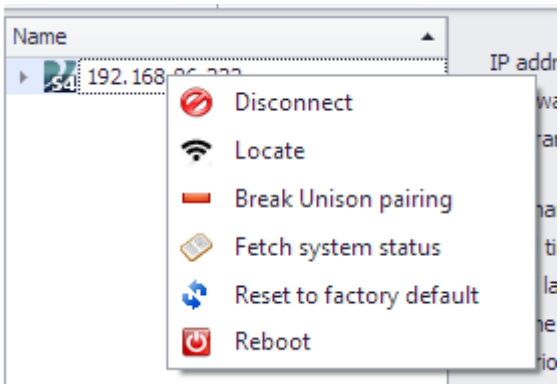
All steps described in the upgrade processes below should be performed on a secure network.

If *Encrypted with authentication* is used

Sentrion Manager

Perform the following steps in **Sentrion Manager 4.9.0**

- Upgrade the Sentrion unit to 4.9.0
- Wait for Sentrion Manager to reconnect to the unit and then another 2 minutes
- Select "Break Unison pairing" for the unit (right click on the Sentrion unit node)



PACOM Unison

Perform the following steps in PACOM Unison. Please note that PACOM Unison will not be able to reconnect to the Sentrion unit until the following steps have been performed.

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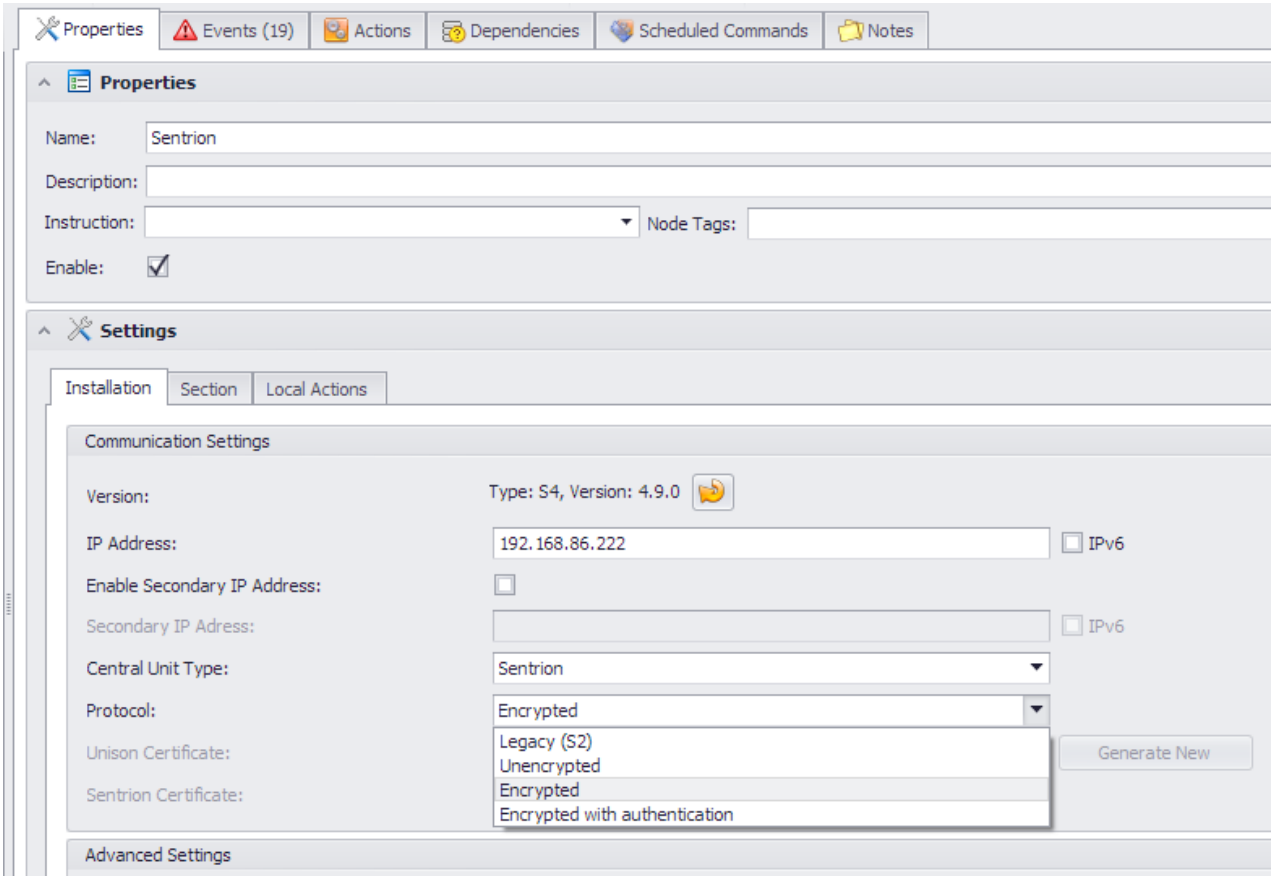
- Change the protocol to ”Encrypted” for the Sentrion unit
- Wait for PACOM Unison to reconnect to the unit
- Change the protocol to ”Encrypted with authentication” for the unit
- Wait for PACOM Unison to reconnect to the unit

The settings are available in the Explorer. Select the Sentrion unit node, Properties tab, Settings section.



If *Encrypted with authentication* and remote features are used

Use the following procedure if any of the listed features are used in combination with the *Encrypted with authentication* protocol:

- Remote alarm transmitter (alarm transmitter connected to another Sentrion)
- Remote control panel (control panel connected to another Sentrion)
- Remote links

Please note that all Sentrion units that communicate with each other (using remote features) must be upgraded to 4.9.0 using this procedure for the communication to be restored.

Sentrion Manager

Perform the following steps in Sentrion Manager 4.9.0 for each Sentrion unit

- Upgrade the Sentrion unit to 4.9.0

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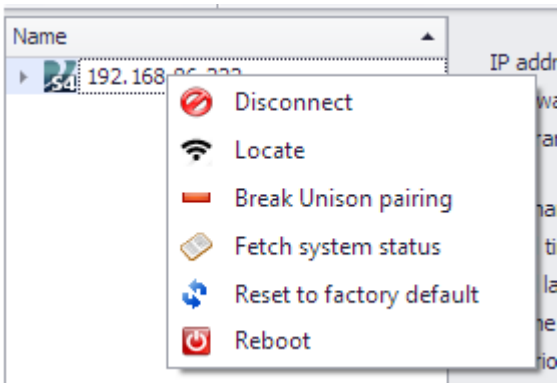
- Wait for Sentrion Manager to reconnect to the unit and then another 2 minutes
- Select “Break Unison pairing” for the unit (right click on the Sentrion unit node)



PACOM Unison

Perform the following steps in PACOM Unison for each Sentrion unit. Please note that PACOM Unison will not be able to reconnect to the Sentrion unit until the following steps have been performed.

- Change the protocol to ”Encrypted” for the Sentrion unit
- Wait for PACOM Unison to reconnect to the unit
- Change the protocol to ”Encrypted with authentication” for the unit
- Wait for PACOM Unison to reconnect to the unit

The settings are available in the Explorer. Select the Sentrion unit node, Properties tab, Settings section.

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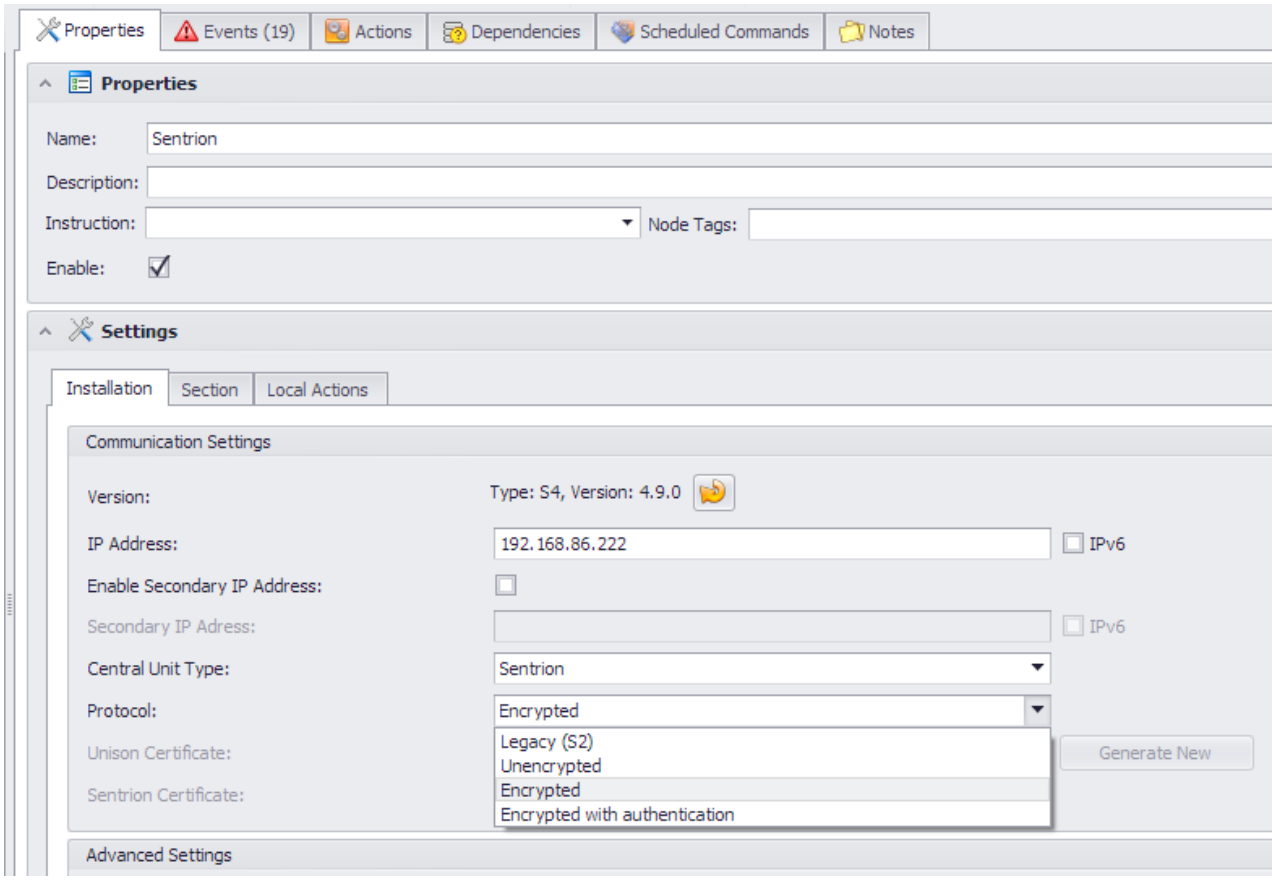
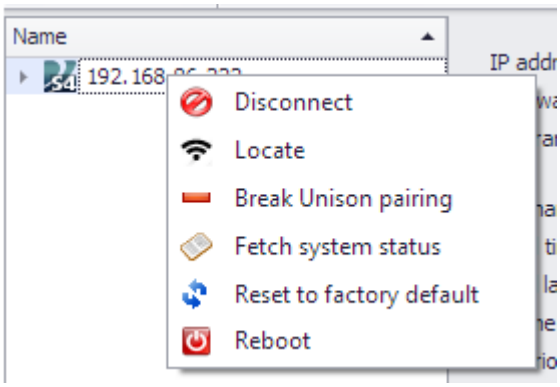


Sentrion Manager

Perform the following step in Sentrion Manager for each Sentrion unit

- Restart the Sentrion unit (right click on the Sentrion unit node)



Note

Please note that more types of alarms can be triggered during this process compared to a regular upgrade. For example:

- Communication fault for remote links
- Communication fault for remote alarm transmitters

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