Release Notes (Security Hotfix) (Solar-Log™ 4.2.8 Build 117, 30.05.2022)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

Bug fixes

Critical security vulnerability closed.

Solar-Log GmbH • info@solar-log.com • www.solar-log.com

Subject to change without notice. EN | 05.2022 | Version 4.2.8

Release Notes
(Solar-Log™ 4.2.7 Build 116, 19.02.2020)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

New

E3DC:

- Series S10:

    S10 E, S10 E Pro, S10 Mini.

Growatt X Generation:

- MIN Series:

    MIN 2500TL-X, MIN 3000TL-X, MIN 3600TL-X, MIN 4200TL-X, MIN 4600TL-X, MIN 5000TL-X, MIN 6000TL-X, MIN 2500TL-XE, MIN 3000TL-XE, MIN 3600TL-XE, MIN 4200TL-XE, MIN 4600TL-XE, MIN 5000TL-XE, MIN 6000TL-XE, MIN 2500TL-XH, MIN 3000TL-XH, MIN 3600TL-XH, MIN 4200TL-XH, MIN 4600TL-XH, MIN 5000TL-XH, MIN 6000TL-XH.

- MID Series:

    MID 15KTL3-X, MID 17KTL3-X, MID 20KTL3-X.

- MAC Series:

    MAC 30KTL3-X LV, MAC 40KTL3-X LV, MAC 50KTL3-X LV, MAC 60KTL3-X LV, MAC 50KTL3-X MV, MAC 60KTL3-X MV, MAC 66KTL3-X MV, MAC 70KTL3-X MV.

- MAX Series:

    MAX 50KTL3 LV, MAX 60KTL3 LV, MAX 70KTL3 LV, MAX 80KTL3 LV, MAX 60KTL3 MV, MAX 70KTL3 MV, MAX 80KTL3 MV, MAX 90KTL3 MV, MAX 100KTL3 MV.

Extensions

INVT:

- New US models

    BG7KTR, BG9KTR, BG10KTR, BG12KTR, BG15KTR, BG17KTR, BG20KTR, BG25KTR, BG30KTR.

Omnik:

- Omniksol TL2-Serie: Omniksol-1k-TL2-M, Omniksol-1.5k-TL2-M, Omniksol TL3-Serie: Omniksol-2k-TL3-S, Omniksol-2.5k-TL3-S, Omniksol-3k-TL3-S, Omniksol-3k-TL3, Omniksol-3k-TL3, Omniksol-3.68k-TL3, Omniksol-4k-TL3, Omniksol-5k-TL3, Omniksol-6k-TL3.

Azzurro:

- AZZURRO 20000TL-G2, AZZURRO 25000TL-G2, AZZURRO 30000TL-G2, AZZURRO 33000TL-G2.

Bugfixes

Sungrow:

- Data recording from devices with a maximum of 3 MPP trackers works again.

Fronius Symo Hybrid:

- Improved recorded value for foreign batteries.

System error:

- Fixed when operating with devices from Kostal (Modbus TCP), QCells or SMA Sunny Island.

Huawei V2:

- Read out correct DC values, even if not all trackers are connected.
- The tracker values are now correctly recorded for 3-20KTL size models marked with M0, M1 and M2.

Various manufacturers:

- Daily yield was sometimes not correctly summed.

Ingeteam:

- Communication stability improved.

Supplement

With version 4.2.5 Build 114 - 20.08.2019 the following models have already been released:

- Huawei V2:
  SUN2000-3KTL-M0, SUN2000-4KTL-M0, SUN2000-5KTL-M0, SUN2000-6KTL-M0, SUN2000-8KTL-M0, SUN2000-10KTL-M0, SUN2000-12KTL-M0, SUN2000-15KTL-M0, SUN2000-17KTL-M0, SUN2000-20KTL-M0, SUN2000-3KTL-M1, SUN2000-4KTL-M1, SUN2000-5KTL-M1, SUN2000-6KTL-M1, SUN2000-8KTL-M1, SUN2000-10KTL-M1, SUN2000-8KTL-M2, SUN2000-10KTL-M2, SUN2000-12KTL-M2, SUN2000-15KTL-M2, SUN2000-17KTL-M2, SUN2000-20KTL-M2.

Solar-Log GmbH • info@solar-log.com • www.solar-log.com

Subject to change without notice. EN | 02.2020 | Version 4.2.7

Release Notes
(Solar-Log™ 4.2.6 Build 115, 15.10.2019)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

Extensions

Sungrow:
- SG33CX, SG40CX, SG50CX, SG110CX.

Adaptions

- Improved system stability during data processing.

GoodWe:
- For devices with 4 mpp-trackers the tracker values are now recorded separately.

sonnen Eco 8:
- The Solar-Log™ can communicate with devices using sonnen Firmware 1.11.

Bugfixes

- Improved the HTTP-export with big amounts of data.

Components:

SolaXPower:
- The X3 series is available again.

Sungrow:
- The data aquisition is functional again.

Elkor MKII:

- The function to change the metering direction in bi-directional mode now works as expected.

Keba:

- The target power required to start charging is now correctly calculated for vehicles that charge with less than 3 phases.

SMA Sunspec:

- The detection did not work anymore. Fixed.

SMA Core1:

- Fixed recording wrong values in cases of communication failures.

Fronius TCP:

- Increased the fault tolerance when reading the battery values.

Solar-Log GmbH • info@solar-log.com • www.solar-log.com

Subject to change without notice. EN | 10.2019 | Version 4.2.6

Release Notes
(Solar-Log™ 4.2.5 Build 114, 20.08.2019)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

NEW

Kostal Modbus TCP:

- Piko IQ 4.2, Piko IQ 5.5, Piko IQ 7.0, Piko IQ 8.5, Piko IQ 10
- PLENTICORE plus 4.2, PLENTICORE plus 5.5, PLENTICORE plus 7.0, PLENTICORE plus 8.5, PLENTICORE plus 10.0

Extensions

- New certificates for smtp servers of gmx and web.de

Kaco:

- blueplanet 87 TL3, blueplanet 92 TL3, blueplanet 110 TL3, blueplanet 125 TL3, blueplanet 137 TL3, blueplanet 150 TL3

SolarMax:

- SolarMax 17SHT, SolarMax 20SHT, SolarMax 22SHT, SolarMax 25SHT, SolarMax 28SHT, SolarMax 30SHT
- SolarMax 6SMT, SolarMax 8SMT, SolarMax 10SMT, SolarMax 13SMT, SolarMax 15SMT
- SolarMax 1000SP, SolarMax 1500SP, SolarMax 2000SP, SolarMax 2500SP, SolarMax 3000SP, SolarMax 3600SP, SolarMax 4000SP, SolarMax 4600SP, SolarMax 5000SP

Adaptions

Huawei V1:

- All Firmware versions of the Huawei inverters 8-40 KTL can now communicate with Solar-Log™.

Bugfixes

- The timezone GMT +10:00 resulted in a wrong system time. Fixed.

Webinterface:

- Configuration / Devices / Configuration / Configuration:

  Pyranometer can be configured again (The form validation failed before).

Components:

- Janitza via Ethernet:

  From now on in all cases of communication errors the connection will be closed.
- Sonnen Eco 8:

  Extended the range of meter values.
- SAJ:

  Fixed Power Management functionality.
- Fronius TCP:

  Improved the fault tolerance when reading the battery values.
- RCT Power:

  All power reduction modes are now supported.
- Sofarsolar:

  The yield is now correctly shown for models Sofar50000TL, Sofar60000TL und Sofar70000TL-HV.
- Chintpower (Modbus), Solectria (V4), Canadian Solar (CSI-CT):

  Improved behaviour in case of communication errors.
- Varta:

  Improved the detection routine for Varta flex.
- RCT Power:

  The sum of the cosumption meter does not show 0 anymore, but the correct value instead.
- SMA (RS485):

  Fixed a bug that was introduced with FW 4.2.4-04.06.2019. The driver can be used again

Release Notes
(Solar-Log™ 4.2.4 Build 113, 04.06.2019)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

NEW

Kostal via Sunspec:

- Piko IQ 4.2, Piko IQ 5.5, Piko IQ 7.0, Piko IQ 8.5, Piko IQ 10

Huawei SUN2000:

- 70KTL-C1, 75KTL-C1, 50KTL-M0, 60KTL-M0, 65KTL-M0, 70KTL-INM0, 50KTL-JPM0, 63KTL-JPM0, 50KTL-JPM1

Autarco:

- SX Series: SX1500, SX2000, SX2500
- MX Series: MX3000, MX3600, MX4600, MX5000
- LX Series: LX6000, LX10000, LX15000
- XLX Series: XLX20000, XLX25000, XLX30000
- UX Series: UX50000, UX60000
- SX Mark II Series: SX700-MII, SX1000-MII, SX1500-MII, SX2000-MII, SX-2500-MII, SX-3000-MII, SX-3600-MII
- MX Mark II Series: MX3000-MII, MX3600-MII, MX4000-MII, MX4600-MII, MX5000-MII

Ginlong:

- Solis-Mini-3600-4G

RCT Power:

- New Inverters: Power Inverter 4.0, Power Inverter 5.0, Power Inverter 6.0
- New Hybrid Systems: Power Storage DC 4.0, Power Storage DC 5.0, Power Storage DC 6.0
- New Battery Systems: Power Storage AC 4.0, Power Storage AC 5.0, Power Storage AC 6.0

SMA Modbus:

- Sunny Tripower Modbus Series: STP 3.0-3AV-40, STP 4.0-3AV-40, STP 5.0-3AV-40, STP6.0-3AV-40

SAJ:

- R5 Series: R5-3K-S2, R5-3.6K-S2, R5-5K-S2, R5-6K-S2, R5-7K-S2, R5-8K-S2, R5-4K-T2, R5-5K-T2, R5-6K-T2, R5-8K-T2, R5-9K-T2, R5-10K-T2, R5-12K-T2, R5-13K-T2, R5-15K-T2, R5-17K-T2, R5-20K-T2

ABB:

- Microgrid MGS100

Adaptions

- my-PV: AC Elwa-E with replacement power electronics are now detected.

Webinterface:

- If the Solar-Log™ does not answer a request within 30 seconds, this request is not cancelled anymore. Instead a notice is shown. This way the Solar-Log™ can be accessed better using slow connections.

Bugfixes

JFY:

- Increases stability in the case of faulty communication with the inverter.

ABB Sunspec:

- Powermanagement via RS485 now works reliably.

Huawei:

- For the 8KTL-28KTL Series, Idc, Iac and Uac were not recorded correctly. Fixed.

All ethernet based devices:

- The range during detection now considers the subnet mask to be able to search smaller ranges than class C.

SMA Sunny Island:

- The -12 series had an „Unknown"-Error. This, however was the code for „no Error" and is now treated correctly.

Secure Meters:

- Error codes are now processed correctly.

Keba:

- During re-detection a changed ip-address is considered correctly.

SMA Data1:

- Increased the stability of the Solar-Log in cases of faulty inverter communication.

Elkor Wattson:

- Elkor Wattson is now recorded correctly.

Yield Data / Finances

- Fixed a data overflow in the calculations.

Smart Energy:

- When using the power reduction types „Adjustable reduction with the calculation of self-consumption" as well as „Remote controlled with the calculation of self-consumption" the irradiation value of an irradiation sensor is now being considered as available production. Thus consumers can be activated and the inverters are limited less via the power management.

- The currency of Macau is now shown as MOP instead of Pat.

Extensions

- Instead of ADAM4022-T IO-Boxes, ADAM-6022 devices can now be used. (Adaption of wiring and correct configuration of the ADAM-6022 are needed)

- New Country: Vietnam.

Solar-Log PRO380:

- Adding additional data channels for accounting purposes (climkit): Etotal Forward, Etotal Reverse, Etotal Raw.

Solar-Log GmbH • info@solar-log.com • www.solar-log.com

Subject to change without notice. EN | 06.2019 | Version 4.2.4

Release Notes
(Solar-Log™ 4.2.3 Build 112, 12.02.2019)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

NEW

Kehua - models:
- SPI3600-B2, SPI4600-B2, KF-SPI3600-B2, KF-SPI4600-B2

Sineng String - models:
- SP-8K, SP-10K, SP-12K, SP-20K, SP-40K, SP-50K, SP-60K, SP-40KLB, SP-50KLB, SP-60LB, SP70KLB

Extensions

SMA Sunny Tripower Core1 - new models:
- STP33-US-41, STP50-US-41, STP62-US-41

Adaptions

SMA Sunny Tripower Core1:
- Only Parameters marked as „Parameter for Plant Control" can be written repeatedly.

Bugfixes

HiQ Solar:
- The dc current is now being scaled correctly.

CanadianSolar:

- The models CSI-4KTL1P-GI und CSI-5KTL1P-GI will now be detected.

SMA Solid Q:

- The AC power is now being shown correctly when it reaches higher values.

SMA RS485:

- On Plants with more than 16 inverters the data was sometimes not recorded correctly anymore. Fixed.

Extensions

New countries:

- Hongkong, Macau

Adjustments

Webinterface:

- When saving changes, texts that exceed the maximum length will not be truncated anymore. Instead they will be discarded.
- If individual values could not be saved the will now be highlighted in red.

Bugfixes

- Changed the resolution of the data channel for self consumption to Watthours to prevent overflow.
- Very Big Data Backups could not be restored. Fixed.

Webinterface:

- Configuration / System / Licenses: it is again possible to upload *.lic license file. This was aborted since Firmware 4.2.1 with unknown error 99.

Release Notes
(Solar-Log™ 4.2.2 Build 111, 11.12.2018)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

NEW

CanadianSolar models:

- CSI-15KTL-GI-LFL, CSI-20KTL-GI-LFL, CSI-25KTL-GI-L, CSI-30KTL-GI-L, CSI-4KTL1P-GI, CSI-5KTL1P-GI, CSI-7KTL1P-GI-FL, CSI-8KTL1P-GI-FL, CSI-9KTL1P-GI-FL, CSI-10KTL1P-GI-FL, CSI-700KTL1P-GI, CSI-1KTL1P-GI, CSI-1.5KTL1P-GI, CSI-2KTL1P-GI, CSI-2.5KTL1P-GI, CSI-3KTL1P-GI

Ginlong models:

- Solis-15K-LV, Solis-20K-LV, Solis-25K-LV, Solis-30K-LV, Solis-1P4K-4G, Solis-1P5K-4G, Solis-1P7K-4G, Solis-1P8K-4G, Solis-1P9K-4G, Solis-1P10K-4G, Solis-Mini-700-4G, Solis-Mini-1000-4G, Solis-Mini-1500-4G, Solis-Mini-2000-4G, Solis-Mini-2500-4G, Solis-Mini-3000-4G

JFY models:

- SUNTREE 25000TL+, SUNTREE 28000TL+, SUNTREE 50000TL+

HiQ Solar models:

- TS208-5K75, TS480-8K (Kommunikation erfolgt nur über ein TrueString Gateway)

Extensions

Keba:

- Charging with 2 phases is now supported (e.g. needed for VW e-Golf).

Bugfixes

Rishabh Radius:

- The yield is now recorded correctly.

Schneider Electric EM6400NG:

- When configured as consumption meter the communication with other devices could be distorted. Fixed.

Benning:

- Faults reported by the inverter will now show the device status „Fault" instead of „Undetermined".

JFY:

- The model SUNTREE 30000TL+ is now correctly detected with 3 MPP trackers instead of 2.

Bugfixes

Webinterface:

- The contents of deactivated input fields is now readable in Safari webbrowser (Different grey tones are used now).

Solare Datensysteme GmbH • info@solar-log.com • www.solar-log.com

Subject to change without notice. EN | 12.2018 | Version 4.2.2

Release Notes
(Solar-Log™ 4.2.1 Build 110, 20.11.2018)

for Solar-Log 50

–

Release Notes
(Solar-Log™ 4.2.1 Build 109, 13.11.2018)

for Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

NEW

SAJ - Models:

- Suntrio 4K-60K.

Ingeteam - Series:

- Ingecon 3Play 100K

Kehua - Models:

- SPI3000-B2, SPI4000-B2, SPI5000-B2, SPI6000-B2, SPI7000-B2, SPI8000-B2, KF-SPI3000-B2, KF-SPI4000-B2, KF-SPI5000-B2, KF-SPI6000-B2, KF-SPI7000-B2, KF-SPI8000-B2, SPI8K-B, SPI10K-B, SPI12K-B, SPI15K-B, SPI17K-B, SPI20K-B, SPI30K-B, SPI33K-B, SPI36K-B, SPI40K-B, SPI50K-B, SPI60K-B, SPI40K-BHV, SPI50K-BHV, SPI60K-BHV, SPI70K-BHV, SPI80K-BHV, KF-SPI8K-B, KF-SPI10K-B, KF-SPI12K-B, KF-SPI15K-B, KF-SPI17K-B, KF-SPI20K-B, KF-SPI30K-B, KF-SPI33K-B, KF-SPI36K-B, KF-SPI40K-B, KF-SPI50K-B, KF-SPI60K-B, KF-SPI40K-BHV, KF-SPI50K-BHV, KF-SPI60K-BHV, KF-SPI70K-BHV/KF-SPI80K-BHV

JFY - Models:

- SUNTREE 5000TL, SUNTREE 6000TL, SUNTREE 8000TL, SUNTREE 10000TL, SUNTREE 12000TL, SUNTREE 15000TL, SUNTREE 17000TL, SUNTREE 20000TL, SUNTREE 30000TL, SUNTREE 5000TL+, SUNTREE 6000TL+, SUNTREE 8000TL+, SUNTREE 10000TL+, SUNTREE 12000TL+, SUNTREE 15000TL+, SUNTREE 17000TL+, SUNTREE 20000TL+, SUNTREE 30000TL+

SMA - Model:

- SOLID-Q 50

Canadian Solar - Models:

- CSI-25KTL-GS-FL, CSI-30KTL-GS-FL, CSI-36KTL-GS-FL, CSI-40KTL-GS-FL, CSI-40KTL-GS, CSI-50KTL-GS-FL, CSI-50KTL-GS, CSI-60KTL-GS-FL, CSI-66KTL-GS-FL

Ginlong - Models:

- Solis-5K-4G, Solis-6K-4G, Solis-8K-4G, Solis-9K-4G, Solis-10K-4G, Solis-12K-4G, Solis-15K-4G, Solis-17K-4G, Solis-20K-4G, Solis-5K-4G-LV, Solis-10K-4G-LV, Solis-25K-4G, Solis-30K-4G, Solis-33K-4G, Solis-40K-4G

Adaptions

Ingeteam: Ingecon Sun Smart TL (3-phase):

- Adapted the detection to the inverter architecture (3* Ingecon Sun Lite TL 1-phase).

ABB (Sunspec):

- Stability improvements.
- Changed communication to prevent damaging the inverter.
- Power reduction and reactive power commands are now sent individually to each inverter.

Bugfixes

TBEA:

- Since Firmware 4.1.2 the inverter selection was not filled correctly:
  - Sunoasis 10k-20k, Inverter selection is now „Sunoasis 10-20k"
  - Sunoasis 50KTL-S, Inverter selection is now „Sunoasis 50/60KTL"

KACO:

- The DC voltage of the inverters („KACO Standard protocol") is reported correctly again.

Keba:

- In mode ‚Surplus Charge' it could happen that the charging process was repeatedly stopped and started. Fixed.
- If the available surplus vanishes, the charging process will continue until the configured power-off delay using the current that was used up to that moment instead of the minimal charging current.

- The configured maximum charging current is now used correctly in mode „Surplus Charge".

Mikro:
- The consumption in Bi-Directional mode is now being calculated correctly.

Delta-Sunspec:
- Reactive power control did not work correctly if the first configured device was not a delta inverter. Fixed.

Growatt (Modbus):
- The serial number is now being read correctly during detection.

Generic Sunspec-Protocol:
- In combination with this protocol the data aquisition for other components was sometimes disturbed.

ABB (Sunspec):
- In combination with this protocol the data aquisition for other components was sometimes disturbed.

Adaptions

Webinterface:
- Configuration / Plant / Plant groups:
  - If plant groups are activated, at least one valid plant group must be configured from now on.
  - Inactive plant groups are not shown anymore. New Plant groups can be added using the (+) icon and deleted using the (-) icon.
  - The function „distribute automatically' from now on only assigns unassigned devices to groups. (Empty groups are preferred.).
- Configuration / Feed-In Management / Reactive power:
  - For functiosn requiring a utility meter, a warning is shown if the utility data is missing.
- Configuration / Feed-In Management / Active power + Reactive power:
  - The warning „No interface assignment chosen!" is not shown for deactivated control anymore.

Bugfixes

Webinterface:

- Configuration / Plant / Plant groups:
  - Due to a bug it was possible to assign more than 15 device. Fixed.

HTTP-Export:

- After a manual data correction the data for the first corrected day was not transmitted automatically. Fixed.
- The data for the very first day of data aquisition as well as in certain scenarios where a manual data correction was performed were not always transmitted correctly. Fixed.

Remote configuration:

- Configuration / Notifications / Power & Failure:
  - The accidentally shown options for sending email and short message notifications and option for maximum notifications per day were removed as the Solar-Log 50 does not send those notifications itself.

Release Notes
(Solar-Log™ 4.2.0 Build 108, August 28, 2018)

for Gateway Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other Devices

New

Schneider Conext CL125 (new Inverter):

- Schneider Conext CL125 via Sunspec protocol (includes power reduction and reactive power management).

Rishabh Radius (new Inverter)

TBEA (new Inverter):

- TS50KTL-s

SiNeng (new Inverter):

- CP-1000-B, EP-1260-A, EP-0500-A, EP-0630-A, EP-1000, EP-1000-B.

Universal Sunspec protocol:

- Universal Sunspec protocol. Selection of Manufacturer: Solar-Log, Type: Sunspec via RS485 or Ethernet.

Kostal via Sunspec as beta version

Secure Meters (new Meter):

- Secure Meters: Elite 440 series (440-445, 440-446, 440-447, 440-448).

Adaptions

- Changed interface assignment selection from ABB:PVS to ABB:PVS Central.
- SMA Sunny Tripower Core1 (STP 50-40): The detection is now limited to Device Type ID CORE1.

M&T Sensor:
- The insolation value is now recorded as a raw value.

SolarEdge:
- Matched the communication timing when using modbus protocol to the changed behaviour of the inverters (after a firmware update on the inverters).

Solar-Log™ Pro:
- The detection routine processes unused addresses faster now.

Bugfixes

SMA Speedwire:
- The inverter detection now considers the subnet mask to search in a smaller range than Class C if suitable.

Sonnenbatterie Eco 8:
- During an automatic redetection due to communication problems it could happen that a wrong ip addres was saved. Fixed.

Solar-Log Pro1-Mod:
- The data channel Pac1 is now filled correctly. Until now it was empty.

Delta-Sunspec:
- Reactive power control now works with all inverter firmware versions.

SolarEdge:
- The Error codes of the inverters is now correctly read by Solar-Log 50 devices.
- The power values of the inverter is now correctly read by Solar-Log 50 devices.

Schneider Electric EM6400S:
- The Device showed a wrong status. Fixed.

Extensions

New Countries:
- Palestine
- Philippines

Adaptions

- The values of a manual data correction will be transmitted to the portal automatically with the next http transfer.
- Until now more than one battery system was allowed during detection. Fixed.
- The languages Dutch and Turkish will not receive new translations. New labels will only be shown in english.

Webinterface:
- Diagnostics / Inverter Diagnostic / Modulefield Comparison:
  - The legend is now shown below the plot to accomodate a bigger number of lines.
  - The mouseover of a line now also shows the device name in addition to the tracker index.
  - The number of lines is now limited to 50 (Performance reasons).
- Configuration / Internet / Portal: As the red „X" (retrieve portal server automatically) was hardly recognizeable as a button it was replaced by a button.
- Configuration / Network / Ethernet: When de-/activating DHCP the browser will now forward to http://solar-log-XXXX or the configured ip address.
- Configuration / Plant / Forecast: If plant groups were activated without configuring a valid plant group, a warning is now shown instead of an empty yearly target table.

Bugfixes

- The NTP time synchronisation is now always active and can not be deactivated.
- Date and time can not be set manually anymore.
- The device now reacts quickly even without internet access. With previous version each try to resolve a servername blcoked 40 second.
- Changes to the network settings are now active immediately without a reboot.
- After changing the ip addres the device can be accessed via http://solar-log and http://solar-log-XXXX without the need for a reboot.

Webinterface:
- Assistant: Device Detection: The deactivated button „continue" can not be clicked anymore.

Release Notes

(Solar-Log™ 4.1.2 Build 107, July 10, 2018)

for Gateway Solar-Log 50

Inverter/SCBs/Meter/Battery Systems/other devices

Bugfixes

- During device detection it could happen that the process went on for over 30 minutes and thus the Solar-Log was restarted. Fixed.

Keba

For certain kinds of vehicles a low power factor caused the charging process to be too slow. The power factor is now considered when determining the charging current.

Bugfixes

Webinterface:

- Configuration / Plant / Tariff: When using plant groups, any of the groups (but only one of them) can be assigned the modes „Feed-in tarif & Self-consumption refund", „Feed-in tarif & Self-consumption" oder „Consumption of self-produced power" again. (With Firmware 4.1.1 these modes could only be assigned to the first group).
- The changes for the LCD progress during firmware updates mentioned in firmware 4.1.2 Build 106 - 03.07.2018 were not active. Fixed.

Solare Datensysteme GmbH • info@solar-log.com • www.solar-log.com

Subject to change without notice. EN | 07.2018 | Version 4.1.2

Release Notes
(Solar-Log™ 4.1.2 Build 106, July 3, 2018)

for Gateway Solar-Log 50

Inverters/SCBs/Meter/Battery systems/other Devices

New

ABB (Sunspec)

Support for Modbus Sunspec via TCP/IP

Added support for the following models

- S (1 MPPT) and SX2 (3 MPPTs) models of TRIO-TM-50.0-400, TRIO-TM-60.0-480, TRIO-TM-60.0-480-US
- UNO-DM-5.0-TL-PLUS
- UNO-DM-6.0-TL-PLUS, UNO-DM-6.0-TL-PLUS-US
- UNO-DM-3.8-TL-PLUS, UNO-DM-3.8-TL-PLUS-US
- UNO-DM-4.6-TL-PLUS
- UNO-DM-4.0-TL-PLUS
- UNO-DM-3.3-TL-PLUS-US
- UNO-DM-2.0-TL-PLUS
- UNO-DM-1.2-TL-PLUS
- TRIO-50.0-TL-OUTD-US-480
- SIRIUS PVS-120.0-480-EU
- SIRIUS PVS-100.0-400-EU

Extensions

QCells

Added support for power reduction.

Bugfixes

Keba

Added support for Keba Firmware version „3.9.10". This is now the recommended Firmware version for the charger.

Fronius-Sunspec

DC-Values were not recorded correctly on Solar-Log 50. Fixed.

Sunways NT10000

Added status codes 42-44 (Relais error 1-3).

ABB Sunspec

The protocol only worked for address 1 via RS485. Fixed.

Extensions

- Power reduction (with and without consideration of self-consumption) is now available without an additional licence.
- The Solar-Log 50 is no longer tied to the Solar-Log WEB Enerest™ XL. All devices which are produced after July 1, 2018 can be added to every package on the Solar-Log WEB Enerest™.

Bugfixes

- The progress of a firmware update via USB was not shown on the display. Fixed.
- Data aquisition is not blocked for over 30 minutes anymore (Problem with certain devices, especially Meters in mode consumption- or utility-meter).

Webinterface

- Diagnostics / Components / SCB Monitor: The correct table header will now always be shown for the corresponding table content.

Release Notes
(Solar-Log™ 4.1.1 Build 105, 15.05.2018)

for Solar-Log 50

Inverters/SCBs/Meter/Battery systems/other Devices

New

QCells

Support for the following devices from the Q.HOME+ ESS-G1 series

- ESS-G1 3.6
- ESS-G1 5.0
- ESS-G1 8.0
- ESS-G1 Scalable

Adaptions

- The values from a manual data correction will now be transmitted to the portal with the next transmission.

Bugfixes

- When using the „Dynamic control for different module orientations", no dynamic control was applied if the Maximum AC Power of the inverters was not configured. Fixed.

Solar-Log 50
- When a consumption meter and an inverter were configured on the same 485 bus with active power control the data aquisition was faulty. Fixed.

Webinterface
- Configuration / Plant / Grafics: The switches to use „Graphic autoscale" as well as „Consumpti-

on: Line graphics" can be used again and shows the correct state of the configuration. (Faulty in Firmware 4.1.1 Build 104)

- Configuration / Devices / Definition / SCB: ABB can be chosen as SCB type again, if the correct SCB license is installed, or rather this configuration will not be shown as faulty anymore. (Faulty since Firmware 4.1.0)

Release Notes
(Solar-Log™ 4.1.1 Build 104, 02.05.2018)

for Solar-Log 50

Inverters/SCBs/Meter/Battery systems/other Devices

New

Azzuro (new Inverters):

- 1100TL, 1600TL, 2200TL, 2700TL, 3000TL
- 10000TL, 15000TL, 17000TL, 20000TL
- 30000TL, 33000TL, 40000TL
- 50000TL, 60000TL, 70000TL
- 3000TLM, 3680TLM, 4000TLM, 4600TLM, 5000TLM, 6000TLM
- 4.4KTL, 5.5KTL, 6.6KTL, 8.8KTL, 11KTL, 12KTL
- 3KTLM, 3.6KTLM, 4KTLM, 4.6KTLM, 5KTLM, 6KTLM

Polycab (new Inverters):

- PSIS Series: 0.7K, 1K, 1.5K, 2.0K, 2.5K, 3K, 3.6K, 4K, 4.6K, 5K, 3K-ST, 3.6K-ST
- PSIT Series: 6K, 10K, 15K, 20K, 25K, 30K, 36K, 40K, 50K-DC

Extensions

Huawei (added support for the following models):

- SUN2000-45KTL-US-HV-D0, SUN2000-55KTL-HV-D1, SUN2000-55KTL-IN-HV-D1, SUN2000-55KTL-HV-D1-001, SUN2000-60KTL-HV-D1-001, SUN2000-60KTL-HV-D1, SUN2000-33KTL-US, SUN2000-36KTL-US, SUN2000-40KTL-US.

Varta:

- The integrated current sensor of the Varta Pulse models is now used as a consumption meter.

Ginlong:

- Extended support for the Solis Three Phase Series to support the following models:
  - Solis-33K, Solis-40K, Solis-50K, Solis 60K-HV, Solis-70K-HV.

KStar:

- The Series „KSG" and „KSG DM" will now record data for single AC-Phases, DC-Voltages and DC-Currents.
- The summed up AC-values were removed.

Omnik:

- Added support for communication via RS485.

SMA Sunny Tripower Core1 (STP 50-40):

- It is now possible to enter the SMA Gridguard Code if it is neccessary for Powermanagement.

Bugfixes

Schneider EM6400NG:

- Values were always "0" on Solar-Log 250/300/1200/1900/2000. Fixed.
- The yield calculation was wrong in the meter mode „Consumption meter (bi-directional)". Fixed.

Sonnen Eco 8:

- The meter modes for the 2 additionally detected meters (Consumption & Generation) were not restricted to useful values. Fixed.
- The re-detection in case of communication errors was not working correctly. Fixed.

GoodWe:

- Negative temperature values were displayed incorrectly. Fixed.

my-PV - AC ELWA:

- Under certain circumstances the Smart-Energy-Control did not work with the my-PV heatrod. Fixed.

SMA Sunny Island:

- The device detection did not work correctly. Fixed.

Keba: Webinterface / Device Configuration:

- The switch „Forced charge via Switch (X1)" was not correctly initialized when loading the page (It was always activated initially, independant of the actual configuration). Fixed.

Phonosolar:

- The available meter modes for the integrated consumption meter is restricted to useful values.

Janitza / Inepro / Schneider Electric EM6400S / Iskra / L&T / Mikro / Solar-Log™ Meter:

- When several meters of the same type were connected on different buses it could lead to communication errors. Fixed.

Ingeteam:

- Some inverters were detected with 0 MPP-Trackers. Fixed.

SMA Data1 Protocol:

- If a SMA-MeterBox was used the consumption value was sometimes reset to 0. Fixed.

Solar-Log™ Pro380:

- Fixed problems during detection and data aquisition for old versions of the Pro380 meters.

Extensions

- Improvement of the option "Dynamic control for different module orientations" when mixing Inverters with more and less connected DC power that the nominal DC power of the inverter.

FTP-Export:

- With an activated FTP-Export license the minute data CSV-Format of the current day will now be exported with every transmission.

Webinterface:

- Input fields now contain the unit of the value (e.g. Watt or Volt).

Restoring system settings from a backup:

- The handling of faulty backups was improved.

Adaptions

Webinterface:

- Several small changes and optimizations.
- The error message for an invalid text input field will now be displayed with an mouseover on the input field instead of an extra icon.
- Configuration / Internet / Backup & Configuration / Notifications / Yield:
  - The checkboxes to de-/select days were replaced by buttons.
- Configuration / Plant / Tariff & Configuration / Plant / Electricity costs:
  - To increase clearness, only the used entries are shown in the tables.
- Configuration / Devices / Configuration / Configuration:
  - The module field can now be chosen via a select box instead of textual input.
  - The field for connected generator power was removed for pyranometers and weather stations.
  - The field for connected generator power was removed for sensors.

Bugfixes:

- On plants with an irradiation sensor installed, it could happen that failure emails were sent mistakenly. Fixed.
- New email certificates for T-Online und Gmail.
- In the setting for Device Notifications the setting „Activate after X readings" could change by itself.

FTP-Export:

- The exported CSV files only contained values for 3 MPP-trackers. Fixed.

Webinterface:

- Fixed some mistakes in the translations.

- Diagnostics / Inverter diagnostic / Modulefield comparison:
  - If only MPP-trackers greater 3 of an inverter were assigned to a modulefield, the corresponding curve was not shown. Fixed.
- Diagnostics / Inverter diagnostic / Tracker comparison:
  - Instead of the voltages of the MPP-trackers, 0-values or power values of trackers with higher numbers for devices with more than 3 MPP-trackers were shown. Fixed.
- Configuration / Plant / Forecast:
  - With Firmware 4.1.0 in combination with the Safari webbrowser an error message was shown and the page was not useable anymore. Fixed.
- Configuration:
  - The cancel button did not reset switch elements correctly. Fixed.
- Configuration / Devices / Configuration / Configuration:
  - When changing MPP-tracker values the total generator power was recalculated after leaving the input field. This is now done immediately.
  - The module field for meters in mode „Generator Photovoltaic" as well as „Total plant meter" is now editable again.
- The following pages caused an error when the cancel button was pressed:
  - Configuration / Devices / Definition / SCB.
  - Configuration / Notifications / Power & Failure.
  - Configuration / Feed-In Management / Active power.
  - Configuration / Feed-In Management / Reactive power.

Configuration / Notifications / Device Notifications & Configuration / Notifications / Power & Failure:

- When leaving the page or changing the device after using the options "Save all…" or "Save multiple…" the notification about unsaved changes will not be shown anymore.

Licenses:

- Without a working internet connection, previously synchronized licenses were removed. Fixed.
- If the maxmimum alowed plant size was increased by a license a restart of the device was necessary. Fixed.
- For licenses that activate a driver, a restart of the device and reload of the webinterface was necessary. Fixed.

Release Notes
(Solar-Log™ 4.1.0 Build 103, 28.02.2018)

for Solar-Log 50

Inverters/SCBs/Meter/Battery systems/other Devices

Bugfixes

Solar-Log™ Pro380:

- The data query only worked in the mode „Consumption meter". Fixed.

Sungrow:

- Active power reduction did not work correctly for all models. Fixed.

SolarEdge:

- With Firmware 4.1.0-102 too many MPP trackers were created for these devices. Fixed.

Schneider EM6400NG:

- The name for this device was wrong in the interface assignment. Fixed.

Varta:

- The production values were not transmitted to the battery system. Fixed.

Bugfixes

Webinterface:

- With Firmware 4.1.0-102 the Page Configuration / Devices / Configuration / Plant passwords was not shown although SMA inverters were in use. Fixed.

- The page Configuration / Devices / Definition / Large external display was not shown with Firmware 4.1.0-102. Fixed.
- Some options were shown in the user menu, although the proper permissions were missing. Fixed.
- Diagnostics / Inverter diagnostic / Modulefield comparison: With negative module temperatures too high sensor values were shown. Fixed.

Data Backup:

- Devices with more than 3 MPP trackers caused problems during the creation of a data backup. Fixed.

Release Notes
(Solar-Log™ 4.1.0 Build 102, 13.02.2018)

for Solar-Log 50

Inverters/SCBs/Meter/Battery systems/other Devices

New (Pre-Release)

Ingeteam:
- New Models: Ingeteam 1Play/3Play Series.

SMA:
- SUNNY TRIPOWER CORE1 (STP 50-40) (including Active & Reactive Power Management).

Sofarsolar (New inverters):
- TL Series:
  Sofar1100TL, Sofar1600TL, Sofar2200TL, Sofar2700TL, Sofar3000TL, Sofar10000TL, Sofar15000TL, Sofar17000TL, Sofar20000TL, Sofar30000TL, Sofar33000TL, Sofar36000TL, Sofar40000TL, Sofar50000TL, Sofar60000TL
- TL-X Series:
  Sofar4.4KTL-X, Sofar5.5KTL-X, Sofar6.6KTL-X, Sofar8.8KTL-X, Sofar11KTL-X, Sofar12KTL-X
- TL-HV Series:
  Sofar70000TL-HV
- TLM Series:
  Sofar3000TLM, Sofar3680TLM, Sofar4000TLM, Sofar4600TLM, Sofar5000TLM, Sofar6000TLM, Sofar7.5KTLM
- TLM-G2 Series:
  Sofar3KTLM-G2, Sofar3.6KTLM-G2, Sofar4KTLM-G2, Sofar4.6TLM-G2, Sofar5KTLM-G2, Sofar6KTLM-G2

Solectria:

- New Models PVI3800TL/PVI5200TL/PVI6600TL/PVI7600TL
  (Selection in interface assignments ‚Solectria_V5').

Schneider Electric:

- New Meter EN6400NG.

ABB:

- New Model TRIO 50.0 TL OUTD (Selection in interface assignments ‚Sunspec').

Rainwise:

- Support for the weather station PV-Met™-200.

Solar-Log:

- New Meter: Pro1-Mod, Pro2-Mod.

SMA:

- New battery System: Sunny Island SI3.0M-11/SI4.4M-11/SI6.0H-11/SI8.0H-11.

Bugfixes

Sonnen Eco 8:

- If no device was found the detection could not be completed. Fixed.

Extensions

Webinterface:

- Diagnostics / CSV-Export: Added the option to export the units to the csv header.
- Extended the usable range for the finacial overview.

Adjustments

- Increased the speed when changing a static ip address to another static ip address on the device.

Bugfixes

- Yield Data / Current values / Cockpit: The axis labeling of the weekly overview was wrong for language selection Chinese and Turkish. Fixed.
- After changing the interface assignments the Plant/Connected DC power was not immediately recalculated. Fixed.
- Assistant / Device Detection: A subsequent change of the interface assignments was not always applied and the Solar-Log™ thus searched on the old interface.
- The left navigation was not being rebuilt after login/logout which lead to some elements only being shown after an additional click in the title bar.

Bugfixes