SMA Data Manager M Version Notes

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Versions affected: EDMM-10, EDMM-US-10 Version 1.14.16. R

New or changed features in 1.14.16.R

1. Provision of the 18-month recording of the active power set points by grid providers and direct marketers on a local USB stick (in addition to the previous documented storage methods)

2. Provision of maximum available active and reactive power according to VDE AR-N 4110 (2018) with and without sensors in the Modbus server

3. Extension of the interface to the STPS-60 (via Inverter Manager)

4. Extension Modbus Server Profile

5. Improvement of the behavior of the FTP push service

6. Addition of the reference voltage control to the Q(U) wizard

Bugfixing:

- Manually created Modbus client profiles for meters/grid analyzers can now also be used for measurement at the grid connection point (previously, the feed-in energy was counted twice)

- Correction PAC2200 meter profile and addition of the alternatively inverse measuring profile, are provided as manually importable profiles by SMA Service department.

- Avoidance of unnecessary events when operating with inverters connected via the COM gateway

- A problem in existing plants where the plant power is incorrectly set to 0W has been fixed. In this case, the system output is automatically adjusted to the sum of all inverter AC max. outputs within 24 hours.

General information

Grid Management Services (GMS)

a. After the update, the settings of the network system service should be checked. In rare cases, these are no longer displayed, and the display of the energy balance is also missing in this case. If these functions are no longer displayed, a problem with the transfer of the previous configuration was detected during the update and the settings were deactivated as a precaution. After reconfiguring the network system service settings, the system works again as required.

b. If GMS setpoints are sent via the Modbus server interface, there must be a time lag of at least 1 second between 2 commands for the system to work correctly.

c. The counter configuration does not currently prevent identical channels from being selected for feed and purchase.

d. Although no GMS are configured, it may happen that the GMS widget is displayed in the Sunny Portal. In this case, the user can hide the GMS widget via the widget configuration.

e. If there is a current > 20mA or < 4mA at an analog input, this input cannot be assigned in the GMS configuration. An error message appears stating that the input is not configured. If the current is in the range 4mA - 20mA, an assignment of the input is possible

f. If manual reactive power is set in the EDMM via the GMS Assistant, then the setpoint value also specified in the GMS Assistant only applies to the "Feed-in" area. If reactive power is to take place at "zero power" and / or "power consumption", the setpoint registers, which can only be reached via the system parameters, must be set to the desired values in addition to the operating mode registers.

g. If the digital inputs of the EDMM are used for active power reduction, it is now also possible under certain circumstances to use so-called "wiper signals" (the signals are only available for a short time, at least >1s). For use and configuration, there is additional information about the service line.

Network

a. When operating the WLAN access point, DNS name resolution is not supported. The user must use the fixed IP address 192.168.12.3 to access the login page.

b. If the user changes the IP address, the user interface is not automatically redirected to the new address. The user must close the browser fixed and then call the EDMM-xx-10 again in a new browser window.

c. It may happen that the display of the change of device names during a Speedwire device capture takes a certain time (30 to 60 seconds).

Setting inverter parameters

a. In some cases, the array parameters of an inverter cannot be changed via the EDMM-xx-10. In this case, the parameter change must be made via the WebUI of the inverter.

b. Parameters for setting times only work if you enter a UTC value in seconds (if necessary, convert with an online service, e.B. https://www.epochconverter.com).

c. After changing the country settings in the inverter, it may happen that some inverter parameters can no longer be displayed because the inverter does not deliver them because the setting methodology has been changed. In such cases, please consult

the SMA document "GridGuard 10.0" from the SMA download area.

d. For STP-60 systems (connected via an inverter manager) it is generally not possible to set parameters. Only setpoints for active and reactive power can be transmitted. A parameterization of the STP-60 subsystem must be carried out locally via the lcS tool required for this purpose

Speedwire Encrypted Communication (SEC)

1.1. Starting with version 1.6.x, the Speedwire Encrypted Communication function can be enabled for communication with SMA Speedwire devices.

1.2. The function can only be activated if all SMA devices (except SMA Energy Meter) support the Speedwire Encrypted Communication function.

1.3. In a network, the function may only be activated in exactly 1 system with exactly 1 EDMM-xx-10. If the function is activated for several EDMM-xx-10 in the network, it may happen that devices cannot be added to the system or communication during operation may be disturbed.

1.4. If the Speedwire Encrypted Communication function has been activated in the EDMM-10 and the EDMM-10 is now reset to factory settings, all inverters of the system must first be decrypted again with Sunny Explorer (with installer PUK) before the devices can be registered again in the EDMM-10 (encrypted or unencrypted).

Sensor Configuration

In order for the sensors to be used for the Performance Ratio function, the sensors must be assigned to the Performance Ratio in the Sunny Portal via the Sensor Assignment menu item. Likewise, the meteorology values are only available after the sensor assignment in the Sunny Portal on the local Modbus interface of the Data Manager M.

Other
a. If a device reset is performed via the button on the device while the user has opened the user interface, it may happen that the user interface is not updated and therefore incorrect data is displayed. This may be due to the fact that data is still stored in the browser cache. In this case, restart the browser, clear the browser cache if necessary (F5 for Windows PCs).

b. If the administrator account is reset via the WebUI , it may happen that after restarting the device, not the start page of the installation wizard, but the login page is displayed. Only after some time will the start page of the installation wizard be displayed. When resetting the administrator account via the device button, the start page of the installation wizard is displayed directly.

c. If the buffer battery in the EDMM-xx-10 is completely discharged (if the device has not been supplied with voltage for more than 2 weeks) and the device is then put into operation, it may happen that the installation wizard is no longer run from step 4 onwards. In this case, the device must be disconnected from voltage and restarted.

d. For some user interface texts in the environment of SMAData-1 support translations into the other supported languages are still missing (partly only DE and EN).

e. The revised service-related manual Modbus profiles for the Siemens Sentron PAC2200 may not be imported into the EDMM until the update to 1.14.12.R has been carried   out.

Known abnormalities

Filling data gaps

For very large plants, filling data gaps can take several minutes. The time depends on the number of inverters and the duration of the data gap (up to 7 days). During this action, the responsiveness to user interactions through the web interface is reduced.

- **Update via SMA Update Portal**

During high network loads, a remote update via the SMA update portal can be delayed by an additional waiting time of up to another 23 hours.

Grid management services

a. After an update and automatically triggered restart of the EDMM-xx-10, it may happen that the last setpoint received via Modbus is not used. The Modbus setpoint from the external control device must be sent cyclically.

b. Grid management services (active and reactive power control) in systems with Core-2 inverters require a Core-2 firmware version 1.0.8.R, 1.0.9.R or 1.0.10.R.

Additional items

SMAData devices connected via RS-485.

Devices of the type "SolTrk" (solar tracker for module alignment tracking) from their list version SOLTRK40 are only incompletely supported