



SMA Data Manager M Version Notes

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Versions affected: EDMM-10, EDMM-US-10, from Version 1.15.13.R

New or changed functions in 1.15.13.R

1. Extension of Modbus server by other registers, bug fixes. In this context, creation of new documentation, register list based on HTML, no separate GMS register documentation (is contained in the standard documentation)
2. Extension of the interface for the STPS-60 regarding register 1510, "Hysteresis for SoC Threshold charging mode" (via Inverter Manager)
3. Support SMA EV Charger Business charging station (double and single loader) via EDMM. Monitoring via Modbus is now possible.
4. PAC2200 meter profile is now implemented as standard Modbus profile (normal and inverse). The polling rate is 1 s.
5. Implementation of the Power Coordinator for the individual control of device groups. This function is not compatible with systems which contain CORE-2 or SMA Data-1/RS485 inverters. Here, the previous control processes take effect.
6. New country data sets are available:
Australia / NZ, USA IEEE 1547, Sweden, Chile (NT_Ley20571)
7. Cyber security measures:
 - Closure of port 80. This one had been forwarded to port 443 (https) up to now. Consequence: the address in the web browser must now always be prefixed "https://"
 - Track&Trace in the webserver was turned off
8. Subordinate network analyzers (meters) via Modbus can be read out after appropriate configuration via UnitIDs 10 to 19 in the Modbus server of the EDMM:
 - 30581: Summary consumption counter
 - 30583: Summary feed in counter
 - 30865: Power drawn
 - 30867: Power grid feed-in
 - 31253: L1 voltage
 - 31255: L2 voltage



- 31257: L3 voltage
- 31259: Power feed in L1
- 31261: Power feed in L2
- 31263: Power feed in L3
- 31271: Reactive power feed in L1
- 31273: Reactive power feed in L2
- 31275: Reactive power feed in L3
- 31277: Reactive power feed in

9. Devices of the type "SolTrk" (solar tracker for module alignment tracking) are also supported for channel list version "SOLTRK40"
10. The parameter "Parameter.PlntCtl.SmpTm" (controller cycle time), which must be set to 1.0 when using CORE-2 with Janitza UMG604Pro, PQPlus UMD705 or 200ms SMA EnergyMeter-20 is now available on installer level

Rectified irregularities:

1. Missing values of Modbus register 30517 "Daily yield"
2. Settings for digital inlets could be lost under certain circumstances
3. Country standard [CL] NT_Ley20571 cannot be set
4. Modbus SunSpec - IP address change is only adopted after restart
5. The active power limit for the entire system manually set by Modbus register 41167 only output NaN values.
6. Power failure could lead to data loss in individual cases

General Information

Grid management services

- a. After the update, the settings of the grid management 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 was detected during the update when the previous configuration was applied and the settings were deactivated as a precaution. After the grid management service settings are reconfigured, the system works again as required.



- b. If grid management service specifications are sent via the Modbus server interface, there must be an interval of at least 1 second between 2 commands for the system to work correctly.
- c. The meter configuration currently does not prevent identical channels from being selected for grid feed-in and grid-supplied power.
- d. Although no grid management services are configured, it may occur that the GMS widget is shown in Sunny Portal. In this case, the user can hide the GMS widget via Widget configuration.
- e. If a current $> 20 \text{ mA}$ or $< 4 \text{ mA}$ is applied to the analog input, this input cannot be assigned to the GMS configuration. An error message appears that the input is not configured. If the current is between 4 mA and 20 mA , an input assignment is possible.
- f. If manual reactive power is set in the EDMM via the GMS assistant, then the setpoint also specified in the GMS assistant only applies to the "export" area. If reactive power is to take place at "zero power" and/or "power consumption," the setpoint registers, which can only be accessed via the system parameters, must be set to the desired values in addition to the operating mode registers.
- g. If the digital inlets of the EDMM are used for active power decrease, it is now also possible under certain circumstances to use so-called "transient signals" (the signals are only present for a short time, at least $> 1 \text{ s}$). There is additional information on the use and configuration via the SMA Service Line. A manual in PDF format is in preparation and will be available shortly in the download area on the product page of the Data Manager M.

Network

- a. During operation of the Wi-Fi access point, the DNS name resolution is not supported. The user must use the static 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 window. The EDMM-xx-10 must then be opened again in a new browser window.
- c. It may happen that it takes some time (30 to 60 seconds) to display the revision of device names when a Speedwire device is being registered.

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 must be changed via the inverter's WebUI.



- b. Parameters for setting times only works if a UTC value in seconds is entered (if necessary, convert with the help of an online service, e.g., <https://www.epochconverter.com>).
- c. After the country standard has been changed in the inverter, it may happen that some inverter parameters can no longer be displayed because the inverter does not provide them since the setting methods have been altered. In such cases, please consult the SMA document "GridGuard 10.0" available in 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. Parameterization of the STP-60- subsystem must be carried out locally using the LCS Tool required for this

Speedwire Encrypted Communication (SEC)

- a. As of version 1.6.x, the Speedwire Encrypted Communication function for communication with SMA Speedwire devices cannot be enabled.
- b. The function can only be enabled if all SMA devices (except SMA Energy Meter devices) support the Speedwire Encrypted Communication function.
- c. In a network, the function may only be enabled in exactly 1 system with exactly 1 EDMM-xx-10. If the function is enabled with several EDMM-xx-10 in the network, it may not be possible to add devices to the system or communication may be disturbed during operation.
- d. If the Speedwire Encrypted Communication function was enabled in the EDMM-10 and the EDMM-10 is now reset to default 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

To be able to use the sensors for the performance ratio function, the sensors must be assigned in the Sunny Portal using the sensor assignment for performance ratio menu item. Likewise, the meteorology values are only available on the local Modbus interface of the Data Manager M after the sensors have been assigned in Sunny Portal.



Other

- a. If the device reset button is pressed at the same time as the user has the user interface open, it may be that the user interface is not updated and therefore displays incorrect data. This can be because there is still data stored in the browser cache. In this case, restart the web browser and empty the web browser cache if required (F5 on Windows PCs).
- b. If the administrator account is reset via the WebUI, it may happen that after restarting the device, the login page is displayed instead of the home page of the installation assistant. Only after some time the home page of the installation assistant will be displayed. When resetting the administrator account via the device button, the home page of the installation assistant 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 is possible that the installation assistant will not run through from step 4 onwards. In this case, the device must be disconnected from all voltage sources and restarted.
- d. For some user interface texts related to SMADData1 support, translations into the other supported languages still need to be provided (partly only DE and EN).
- e. The revised manual Modbus profiles for the Siemens Sentron PAC2200 that can be obtained from Service may only be imported into the EDMM once the update to 1.14.12.R has been carried out.

Known irregularities

Completion of missing data

In very large installations, it may take several minutes to fill in missing data. The amount of time depends on the number of inverters and duration of the missing data (up to 7 days). While this action is in progress, the response speed to user interactions via the web interface is reduced.

Update via SMA Update Portal

In case of high grid load, a remote update via the SMA Update Portal may be delayed by an additional waiting time of up to 23 hours.

Grid management services

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



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