SMA Data Manager M (EDMM-20) Version Notes

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From version 2.7.32.R

Information: An update to 2.7.32.R is only possible from version 2.6.40.R.

Firmware version 2.7.32.R offers the following new functions and improvements compared to the previous version:

- **New integrated energy management for optimized energy use**

  With the new firmware, new energy management functions are available based on the ennexOS platform.

  Energy Planner (manual)

  The Energy Planner, previously available under the name "Scheduler", is activated by default and optimizes the solar self-consumption around the clock. System operators can also:

  - specify time-dependent thresholds for the limitation of load peaks,
  - manually plan the charging and discharging behavior of the battery.

  The designations of the individual operating modes have been adapted to make their functions easier to understand.

  Energy Maximizer (automatic)

  The Energy Maximizer controls the energy system fully automatically and intelligently with the goal of reducing the electricity costs for the system operators. It takes into account, among other things:

  - PV yield forecasts,
  - consumption forecasts,
  - dynamic electricity tariffs.

  On this basis, the Energy Maximizer optimizes the use, storage and procurement of energy.

- **Control of energy consumption and energy generation via EEBUS**

The EEBUS applications LPC and LPP can now be implemented via an EEBUS control box and the System Manager/EDMM-20:

  - **LPC – Limitation of Power Consumption**: Limitation of the energy consumption
  - **LPP – Limitation of Power Production**: Limitation of the energy production

This allows energy consumption and energy generation via EEBUS to be specifically limited, e.g. to meet the requirements of Section 14a (Energy Industry Act).

- **More robust Modbus communication**

The robustness of the Modbus communication has been improved overall.
In SCADA systems, parameters can now be sent at a high frequency even if their values do not change with each transmission. If a value remains unchanged, no additional events will be logged.

- **New Modbus server standard profile**

As of this version, the Modbus server profile management allows a choice between the new standard profile and a compatibility mode.
The standard profile is recommended for all new systems commissioned with firmware version 2.7.32.R or later. For existing systems as well as when replacing devices within an existing system, the compatibility mode should still be used to ensure the compatibility with present system components.
The new standard profile is basically identical to the compatibility mode; the profile in the compatibility mode however remains at the level of firmware version 2.6.40.R and is no longer maintained. Future enhancements will only be available in the standard profile.

- **Faster and centralized diagnosis**

In systems with devices based on the ennexOS platform, diagnostic files of subordinate devices can now be retrieved centrally via the System Manager/EDMM-20.
This simplifies the analysis of the overall system as the diagnostic files no longer have to be retrieved from each individual device separately.

You will find further information on the separate functions at
https://www.sma.de/en/products/energy-management/sma-data-manager-m-20