Information - network integration
Safe integration via VLAN

The following explanation is for your IT-administrator and explains how Solarfox displays can safely be integrated into the IT networks.

Provided that uncertainties or concerns regarding the safety of EDP hardware resp. of the integration into networks exist, it is recommended to integrate the equipment into a guest net. This can be compared to a "guest WLAN" which is already used by many companies.
In this case, a separate VLAN or a dedicated port at the firewall is activated which can only access external resources. By doing so it becomes impossible for the connected devices to access the company intern network.

In case your responsible network administrator has any questions, please contact us using the contact information below:
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Therefore the following configurations are possible:

- Virtual interface "guest" with dedicated VLAN-ID is created.
- Firewall rule: "Allow guest-subnet to ! localnets / allow guest-interface to external interface"
- Corresponding switch port for guest devices is created on the VLAN-ID

Due to the isolation via VLAN (Access-Port with corresponding PVID) other ports of the switch can't be accesses. The incoming traffic at the access port is automatically assigned a corresponding VLAN-ID and will be forwarded at the trunk port of the firewall.

Advantages

An internet based data communication offers many advantages compared to a connection which is only locally:

- Energy data and general information can be visualized independent of the location of the equipment.
- The data interface for the respective monitoring system is web based. In case of future updates by the manufacturer (inverter, data logger firmware), the device software does not need to be updated or maintained on side.
- New software features are added from the server side and are automatically available on the display.
- The contents of the Solarfox displays can be administered and changed through a central administration (e.g. marketing department).

- Different generating installations can be visualized on a display regardless of the location of the equipment.
- ountless current information from the internet can be displayed: weather forecast, news, etc.
- The display can flexibly be used for own information (e.g. marketing content, memos) as an "innovative notice board".
- ll data is saved online. In case of hardware failure, the data can be restored quickly.
- Information regarding network integration
- Safe integration via VLAN

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