

SIEMENS

Siemens I IA SE S PV
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SINVERT

Communication concept

sales view

This document describes the communication concept of the SINVERT PV inverters from a sales point of view.

1 Concept

The SINVERT communication concept offers currently two options for the PV inverters:

- Basic communication
- Data logger (for internet portal)

1.1 Basic communication

Intention

The **Basic communication** offers the possibility to connect the inverter unit to an Ethernet network. This connection is needed to establish communication with the inverter from a remote location (outside of the inverter room). This communication connection is used by the **Data logger**, by monitoring systems (like WinCC) and for service purposes.

Communication Channels

If you want or need to run the communication of the PV plant through other communication channels (mainly DSL, analogue telephone, ISDN or GSM), then you need an additional interface for these channels. Usually, these interfaces are mounted outside of the inverter in a separate box. As these communication channels have a high variety, this additional function has up to date to be considered project specific and needs to be clarified for each single project.

Requirements

For using WinCC for your PV plant, all inverters have to be equipped with **Basic communication**. This option is a mandatory requirement for a service contract. This function requires two IP addresses for each Master on the PV plant communication level.

1.2 Data logger

Intention

The **Data logger** will collect data of the inverters, weather sensors (available as option) and current sensors in the junction boxes (available as option). The collected data is sent to an internet portal. In this portal, the data is shown in different graphs, covering all important aspects of your PV plant.

Internet portal

At the present time, the internet portal is operated by the company "meteocontrol". The portal is available in the following languages:

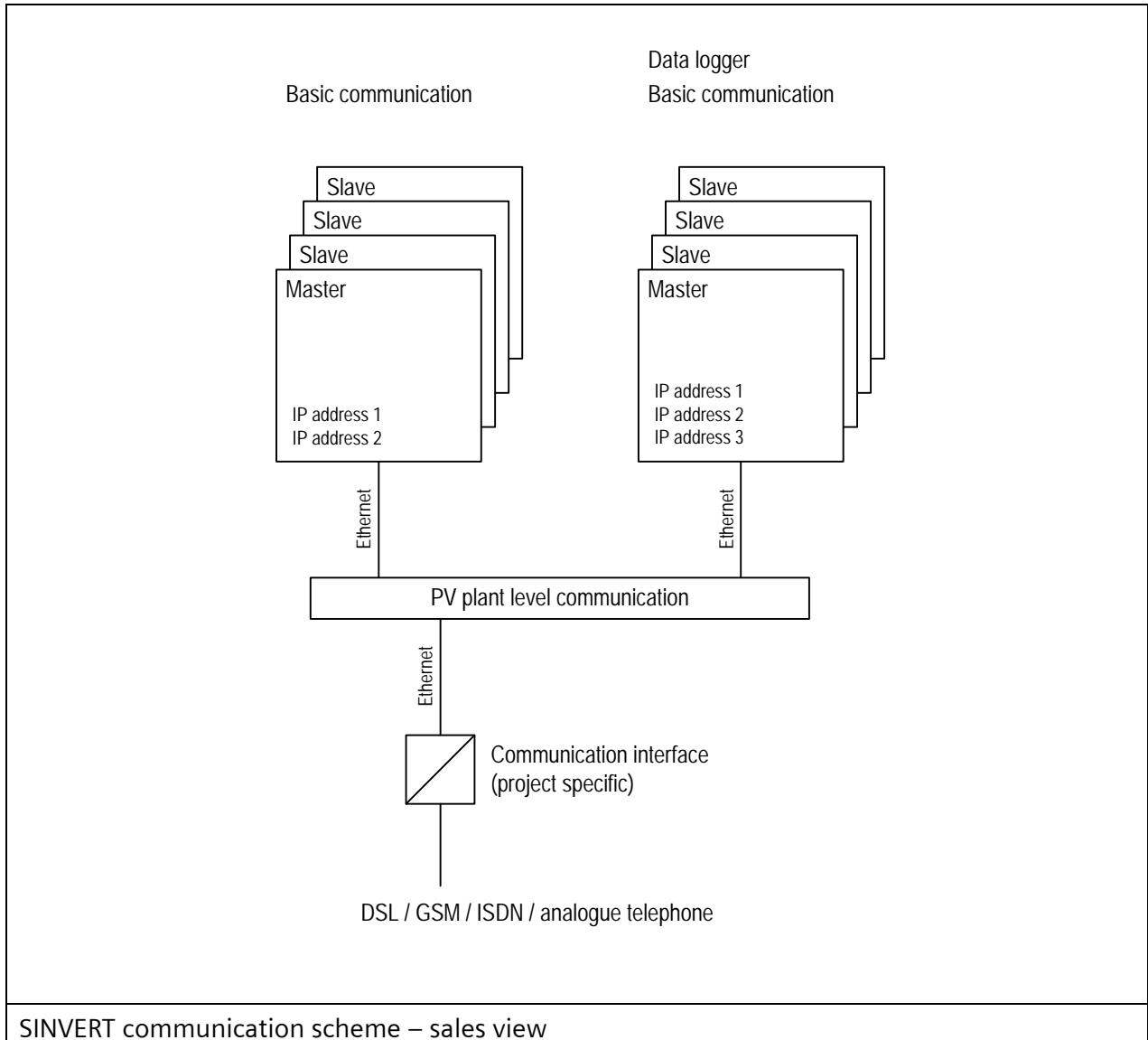
- English
- German
- Spanish

Using the portal is not free. There will be a yearly fee, according to the size of your PV plant. For this fee, you will sign a contract directly with the company "meteocontrol". The location of this company is the city Augsburg in Germany.

Requirements

The **Data logger** requires the option **Basic communication**. This function requires one IP address for each Master on the PV plant communication level.

2 Scheme



On the PV plant level, several inverters can be connected. Depending on the number of inverters connected, additional communication components may be required. These additional components usually are mounted in separate boxes outside of the inverter (to increase flexibility).