

UPGRADES MADE BY NORDEX

SQL—Database Online Access

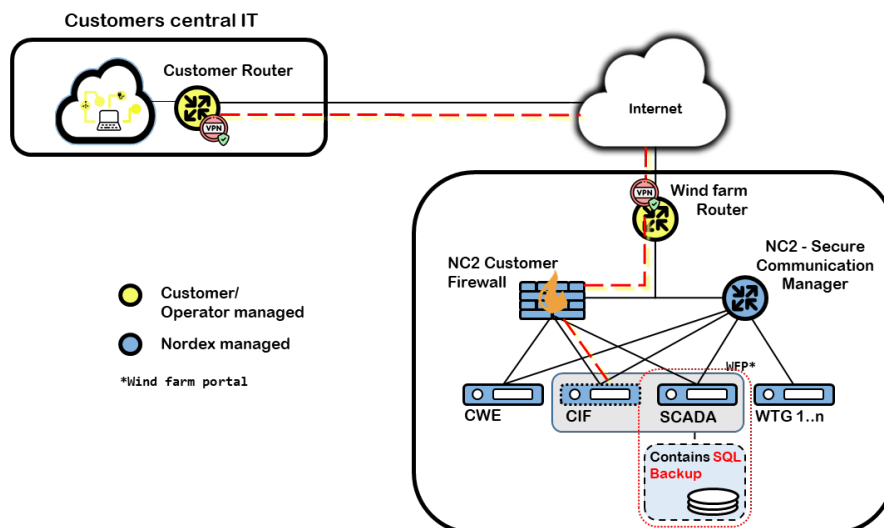
As the manufacturer, we know your turbines best. With our **Upgrades made by Nordex** we provide individually tailored retrofits. These upgrades improve the performance, the availability and the safety of your turbines, helping you to achieve even larger yields.

➤ Brief technical description

The SQL—Database Online Access is an optional module of the NC2 SCADA system. It allows the user access to historical data collected by the SCADA system modules of the windfarm. The data is stored on the backup instance of the central SCADA server, which is part of the NC2 SCADA system. With installation of the backup the data from the last 6 month is available and is consistently extended by the current data.

To install the module SQL—Database Online Access an appropriate and functioning communication network is a prerequisite. The following requirements have to be met: (1) A network inside the windfarm, (2) a transfer-network connection of the SCADA server, (3) a NC2 customer firewall and (4) a customer network including a VPN Router and a firewall.

The NC2 customer firewall, which is part of the module, protects the windfarm network from disruptions and unauthorized access. If there is no firewall available that can be used for the module it will be installed as part of the module. The installation of the access to the database depends on the operating system and the NC2 visualization version of the SCADA PC. From a visualization version of 14.xx.xx and windows 7 onward the installation is possible.



➤ Benefits

- Access to historical wind farm data
- Data of all SCADA system modules included
- Secure communication through integration of firewall
- Local and remote access supported