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GSF8372 DNP application note

GSF8372 DNP router can be used in various fields/applications such as Water, Power and Energy. It supports protocol conversion from Modbus RTU / Modbus TCP to DNP3 IP. Various Modbus field devices e.g. Energy meter, Flowmeter, IED's. can be connected to GSF8372 DNP router for communication with DNP3 IP protocol based SCADA. VPN tunnel is used for security.

For Energy meter parameters like Voltage, Frequency, Power factor, Active power, Active energy can be monitored. Flowmeter, parameters like Instant flow, Flow totaliser, Flow totaliser reset can also be monitored on SCADA.

Router supports storage of upto 8MB. When internet connection is not available router will store events in the memory and once the internet connectivity is restored it will send DNP3 events to SCADA. All the events will be stored with timestamp using RTC.

Router supports configuration of Modbus queries for polling data of field devices and supports Register type coil, Digital inputs, Input registers and Holding registers. For DNP3 protocol, it supports Analog inputs, Binary inputs, Analog outputs, Binary outputs and Analog event data types.

Application diagram:

