DS Agile
Digital Substation

DS Agile system V7.7.3– Jan 2023
GE branded version

DS Agile System

Main Key feature

- **Performances & capabilities enhancements:**
    - More than 500 IEDs,
    - More than 240 simultaneous client/server associations,
    - More than 250 Logical Devices as per IED server,
    - Nominal data flow >300 events/second over 24 hours,
    - Maximum data flow >1000 events/second over 12 hours,
    - Logged and archiving with HMI servers >1000 events/second over 48 hours
    - Transmitted events to remote SCADA > 1000 events/second over 12 hours

- **Control with bypass:** DS Agile System IEC 61850 control model functions are validated in these use cases: Interlocking bypass with or without synchrocheck control for IEC 61850 Ed 2 BCU (C264-CPU4) and IED 61850 Ed 1 Generic IED (C264-CPU3)

DS Agile Gateway

Key new features

- **IEC/IEC 61850 Ed 2 gateway:** This product is now available in DS Agile System V7.7. It lets to extend the system capacity (500+ IEDs) by segregating Station Bus Network in multiple sub-networks.
- **IEC 61870-5-104 gateway Master:** DS Agile gateway is now able to communicate as a Master up to 4 slaves IEC 61870-5-104 links.
- **Up to 8 concurrent SCADA protocols:** DS Agile gateway has increased his limits to manage up to 8 concurrent SCADA protocols (IEC 61870-5-101 or 104 , Modbus RTU).

Other new features

- **Grouping logic can be sent to HMI functions:** DS Agile gateway IEC 61850 server has now the

capability to send MMS message on Station Bus network including logical computation of Grouping Logic. The SPS datapoint state-change can be logged in Sequence of Event list (SoE), used to generate alarms, archived in Historian and into Archives and reported in Event-Based Reports (EWS).

DS Agile HMI aView

Key new features
- **Alarm management**: aView alarm system manages a specific user acknowledgement right as per priority level. This can be done by configuration for local or remote HMI workstations.

DS Agile BCU C264

Key new features
- **New protection elements:** C264 is providing new protection elements: 6 x Phase overcurrent Protections (50/51/67) and 4 x earth fault overcurrent protections (50N/51N/67N). Time delayed protections can be set with DT & IDMT curves using the System Configuration Tool DS Agile SCE. For Directional element, Voltage Transformer Supervision (VTS) can block the protection elements. The features implemented, have been ported from MiCOM relay range protection element function to facilitate the customer homologation.
- **VTS and Pole Dead functions:** C264 is using Voltage Transformer Supervision and Pole Dead detection to be able to block or not Directional protection element or undervoltage, underfrequency protections. This is settable with System Configuration Tool DS Agile SCE.
- **Circuit Breaker Failure:** Standard Circuit Breaker Failure (50BF) has been added to monitor circuit breakers whether it has opened within a reasonable time delay. If fault current has not been cleared during a definite time, CBF will operate whereby the upstream circuit breakers are back tripped. To monitor circuit breaker, 50BF function can be initiated internally (Logical Inputs, I<, IN<) or externally. It can manage up to two circuit breaker failure per bays. This is settable with System Configuration Tool DS Agile SCE.

For questions or further product support, please contact the GE support team using:

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