CSD100 1.3.0.1

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Overview

The purpose of this document is to provide release-specific information for the 1.3.0.1 of CSD100.

Please note that the release note is cumulative and the information related to the previous patches may be included.

What's new with this release:

Improvements

Release CSD100-v1.3.0

[CSD100-1520]   [Communication redundancy] The device supports PRP redundancy (parallel redundancy protocol)

[CSD100-1519]   [Communication redundancy] The device supports HSR redundancy (high-availability seamless redundancy)

[CSD100-2334]   [Time synchronization] The device supports PTP protocol (precision time protocol)

[CSD100-1279]   [Authorization enforcement] The device supports authorization enforcement using role-based access control mechanism

[CSD100-1775]   [Security event logging] Security events can be viewed by a user with appropriate rights in a page of the web HMI

[CSD100-1774]   [Security event logging] Security events can be automatically sent to a remote Syslog server

[CSD100-1563]   [Security settings] Security related parameters can be set from a new section of the web HMI

[CSD100-1664]   [Concurrent sessions] Concurrent edition of settings using the web HMI is managed by a token with a limited duration

[CSD100-1294]   [Commissioning mode] : a "test mode" is implemented to perform commissioning tasks

[CSD100-1121]   [Commissioning mode] : commissioning mode is enabled by driving "test mode" binary input and enabling "test mode" function in web HMI

[CSD100-1122]   [Commissioning mode] : each circuit breaker pole/phase (CSD100 power outputs) can be operated individually using commissioning mode

[CSD100-1123]   [Commissioning mode] : circuit-breaker operating times (aux. contacts and main contacts) can be measured using commissioning mode

[CSD100-1124]   [Commissioning mode] : alarms output relays (bistable) can be activated individually using commissioning mode

[CSD100-1323]   [Commissioning mode] : Calibration of the travel sensors can be performed in commissioning mode

[CSD100-3084]   [Param file] Information fields in 'Settings/Information' section of the web HMI can now be set by param file upload (not allowed in previous versions)

[CSD100-1266]   [Web HMI] A gauge is added to inform the user of the remaining data storage capacity

[CSD100-1260]   [Web HMI] Maximum hydraulic pressure can be set in HMI alarm page

[CSD100-1259]   [Web HMI] Internal temperature of the device is displayed on HMI measurement page

[CSD100-1251]   [Web HMI] A button is added in HMI/Settings/Mechanical section to enable CB gas monitoring option

[CSD100-2978]   [Web HMI] out-of-range values for line reclose application settings are added

[CSD100-1846]   [Functional event logging] entries of the functional events journal are timestamped in UTC

[CSD100-1842]   [Functional event logging] CID file upload using web HMI is logged in the functional events journal

[CSD100-1841]   [Functional event logging] param file upload using web HMI is logged in the functional events journal

[CSD100-2378]   [Functional event logging] records download using web HMI is logged in the functional events journal

[CSD100-1539]   [Functional event logging] switching records deletion using web HMI I is logged in the functional events journal

[CSD100-1416]   [COMTRADE recording] COMTRADE records duration: pre-trigger and post-trigger minimum settable duration is set to 300 ms

[CSD100-1237]   [Alarm management] Electrical wear alarms are added in the web HMI, in the measure file, and in 61850 SCBR logical node

[CSD100-1026]   [Circuit-breaker monitoring] The device can monitor the circuit-breaker insulating gas density

[CSD100-1684]   [Opening operation monitoring] A button is added in HMI/Settings/Mechanical section to enable Electric Wear function

[CSD100-2096]   [Opening operation monitoring] Binary inputs advanced debouncing and filtering mechanisms are implemented

[CSD100-1187]   [Closing operation monitoring] Binary inputs advanced debouncing and filtering mechanisms are implemented

Fixes

Release CSD100-v1.3.0.1

[CSD100-3866]   [Web HMI] After several days of operations, HMI access was no longer possible

Release CSD100-v1.3.0

[CSD100-2645]   [Line switching application] Prearcing time set values were considered with opposite sign and wrongly applied

[CSD100-2665]   [Line switching application] closing commands were issued with an increasing error from the time elapsed since last reboot when reclose strategy was "min_beat"

[CSD100-2657]   [Line switching application] closing commands were not issued when there was one or less triplet of reclose opportunities/dates identified in the reclosing window

[CSD100-3169]   [Commissioning mode] Auxiliary contacts (52a) and main contacts operating time measured values were inverted in Web HMI display

[CSD100-2907]   [Closing operation monitoring] Closing time measured values were wrongly evaluated when closing impulse duration setting was lower than effective closing time

[CSD100-2655]   [Param file] accumulated electric wear values were reset when a new param file was uploaded using web HMI

Known issues

[CSD100-3233]   [Web HMI] : some fields of 'Settings/Information' page are not editable with mouse (must navigate with "tabulation" as a workaround)

[CSD100-2644]   [Interface] Rear ports optical fiber communication does not work at 100Mbits/s (use of optical SFP modules at 100MBits/s is not allowed).

[CSD100-1225]   [Alarm management] Alarm "arcing time" is triggered on three phases even if only one phase has operated

[CSD100-1184]   [Alarm management] "Closing reference frequency" and "Opening reference frequency" alarms are computed for set reference phase only and deliver wrong status on other phases

[CSD100-1529]   [Alarm management] Some alarms specific to controlled operations are refreshed upon uncontrolled operations.

[CSD100-1450]   [Alarm management] "Reference current" alarm is not raised when the measured frequency of the current is out of boundaries

[CSD100-2384]   [Alarm management] Alarms are refreshed upon manual archive creation

[CSD100-2337]   [Alarm management] Alarm "IEC 61850 MMS server" is persistent even if option is disabled

[CSD100-2333]   [Alarm management] Insulating gas leakage alarm hysteresis parameter is difficult to understand

[CSD100-2278]   [Alarm management] Alarms specific to some optional features (IEC61850 server, Electrical wear, Gas monitoring) are still active even if feature is disabled.

[CSD100-1865]   [IEC 61850 mms] : RDRE RcdMade value change is only visible when record duration is lower than 3s

[CSD100-2330]   [Operation recording] Units are missing for some analog values in file "measures.xml"

[CSD100-2887]   [Operation recording] Archive creation process impaired and error message "dsp not finished" is logged in case load-side VT scaling factor is set to zero or load-side primary voltage set to zero

[CSD100-1421]   [Operation recording] Archive creation is impaired and error message is logged when the number of connected reference/load voltages changes between two closing operations

[CSD100-1343]   [Transformer switching application] residual flux estimation: same algorithm is implemented for IVT and CVT

[CSD100-1344]   [Closing operation monitoring] Make time measurement with "voltage rise" method can deliver wrong values for transformers and loads with isolated neutral. As a workaround, a spread sequence with more than 1/4 cycle between switching angles has to be set.

[CSD100-1338]   [Closing operation monitoring] the use of travel sensor to measure circuit-breaker closing time and opening time is not functional

Version history

CSD100-v1.3.0   : 01/09/2023

CSD100-v1.2.0   : 20/12/2022

CSD100-v1.1.4   : 24/12/2022

CSD100-v1.1.3   : 01/04/2022

CSD100-v1.1.2   : 25/01/2022

CSD100-v1.1.1   : 03/12/2021

CSD100-v1.0.3   : 10/09/2021

CSD100-v1.0.2   : 06/08/2021

CSD100-v1.0.1   : 03/05/2021

CSD100-v1.0.0   : 26/11/2020

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