



CSD100 1.3.4

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Overview

The purpose of this document is to provide release-specific information for the 1.3.4 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-v1.3.4

- [\[CSD100-3578\]](#) [Web HMI] 'Settings/Mechanical' improvement | Travel curve conversion to mm table is replaced by a linear equation to simplify the setting
- [\[CSD100-3553\]](#) [Operation monitoring] Accuracy of travel curve recording is improved in comtrade file
- [\[CSD100-2642\]](#) [Web HMI] 'Settings/Mechanical' improvement | Section 'Power outputs' is moved from 'Settings/General' page to 'Settings/Mechanical' page
- [\[CSD100-2641\]](#) [Web HMI] 'Settings/Mechanical' improvement | Section 'Sensor scaling' is moved



from 'Settings/General' page to 'Settings/Mechanical' page

[\[CSD100-2633\]](#)

[Web HMI] 'Settings/Alarm' page improvement | The page is divided in sections to improve settings visibility

[\[CSD100-2343\]](#)

[Web HMI] 'System/Date and time' section improvement | UTC is added in the list of timezone

[\[CSD100-1986\]](#)

[Web HMI] 'Network' setting improvement | It is now possible to deactivate the gateway on front and back ETH ports

[\[CSD100-1822\]](#)

[Operation recording] Timestamps of alarms triggering and release are added in measures file

[\[CSD100-1821\]](#)

[Operation recording] Timestamp of residual flux calculation is added in measures file

[\[CSD100-1588\]](#)

[LED signalling] Signalization improvement | Time synchronization status is now signaled by the SYNC LED

[\[CSD100-1565\]](#)

[Functional parameters] Digital transmitter (for pressure measurement) baudrate can now be set as a parameter

[\[CSD100-1449\]](#)

[IEC 61850 mms] Model improvement | LN LCCH (Physical communication channel supervision) is added in the model

[\[CSD100-1206\]](#)

[Web HMI] Download page improvement | It is now possible to filter by date and type the records that need to be downloaded and deleted

Release CSD100-v1.3.0

[\[CSD100-3084\]](#)

[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)

[\[CSD100-2978\]](#)

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



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- [\[CSD100-2859\]](#) [Line switching application] Line voltage phase and damping measured values during autoreclose are added to "measures.xml" file (new measurements)
 - [\[CSD100-2378\]](#) [Functional event logging] records download using web HMI is logged in the functional events journal
 - [\[CSD100-2334\]](#) [Time synchronization] The device supports PTP protocol (precision time protocol)
 - [\[CSD100-2096\]](#) [Opening operation monitoring] Binary inputs advanced debouncing and filtering mechanisms are implemented
 - [\[CSD100-1846\]](#) [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
 - [\[CSD100-1775\]](#) [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
 - [\[CSD100-1684\]](#) [Opening operation monitoring] A button is added in HMI/Settings/Mechanical section to enable Electric Wear function
 - [\[CSD100-1664\]](#) [Concurrent sessions] Concurrent edition of settings using the web HMI is managed by a token with a limited duration
 - [\[CSD100-1563\]](#) [Security settings] Security related parameters can be set from a new section of the web HMI
 - [\[CSD100-1539\]](#) [Functional event logging] switching records deletion using web HMI is logged in



the functional events journal

- [\[CSD100-1520\]](#) [Communication redundancy] The device supports PRP redundancy (parallel redundancy protocol)
- [\[CSD100-1519\]](#) [Communication redundancy] The device supports HSR redundancy (high-availability seamless redundancy)
- [\[CSD100-1416\]](#) [COMTRADE recording] COMTRADE records duration: pre-trigger and post-trigger minimum settable duration is set to 300 ms
- [\[CSD100-1323\]](#) [Commissioning mode] : Calibration of the travel sensors can be performed in commissioning mode
- [\[CSD100-1294\]](#) [Commissioning mode] : a "test mode" is implemented to perform commissioning tasks
- [\[CSD100-1279\]](#) [Authorization enforcement] The device supports authorization enforcement using role-based access control mechanism
- [\[CSD100-1266\]](#) [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
- [\[CSD100-1237\]](#) [Alarm management] Electrical wear alarms are added in the web HMI, in the measure file, and in 61850 SCBR logical node
- [\[CSD100-1187\]](#) [Closing operation monitoring] Binary inputs advanced debouncing and filtering



mechanisms are implemented

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

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

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

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

[\[CSD100-1026\]](#) [Circuit-breaker monitoring] : the device can monitor the circuit-breaker insulating gas density

Fixes

Release CSD100-v1.3.4

[\[CSD100-3844\]](#) [Network redundancy] PRP / HSR mode : Immediately after device restart, CSD100 was not configured as a redundant node for a short time before redundancy configuration was applied

[\[CSD100-3837\]](#) [Operation monitoring] There was a CB operation counters mismatch between HMI display, measurement file and MMS model

[\[CSD100-3733\]](#) [Alarm management] Alarm "reference current" was not considering CB position

[\[CSD100-3590\]](#) Serial Number of the device was not displayed correctly (trailing zeros missing)

[\[CSD100-3583\]](#) [Operation recording] Zip file could not be generated upon a "download all records" command when record memory was full

[\[CSD100-3569\]](#) [Closing operation monitoring] Closing counters of operations (controlled and



uncontrolled) were mismatched between CB1 and CB2 in measurements file

- [\[CSD100-3517\]](#) [Alarm management] Electric wear was computed when electrical wear monitoring optional feature was disabled.
- [\[CSD100-3348\]](#) [Web HMI] Front and rear ports could be disabled all together leading to loss of HMI access
- [\[CSD100-3347\]](#) [Web HMI] After firmware update web browser cache is now purged to maintain display consistency
- [\[CSD100-3233\]](#) [Web HMI] : Some fields of 'Settings/Information' page were not editable
- [\[CSD100-2900\]](#) [Web HMI] The "Apply" button was sometimes not displayed while using HMI to set the device
- [\[CSD100-2434\]](#) [Web HMI] There was no warning on HMI during firmware upgrade
- [\[CSD100-2337\]](#) [Alarm management] Alarm "IEC 61850 MMS server" was persistent even if option was disabled
- [\[CSD100-2333\]](#) [Alarm management] Insulating gas alarm hysteresis parameter was not implemented correctly
- [\[CSD100-2330\]](#) [Operation recording] Units were missing for some analog values in file "measures.xml"
- [\[CSD100-2278\]](#) [Alarm management] Alarms specific to Gas monitoring optional feature were still active even if option was disabled.
- [\[CSD100-1865\]](#) [IEC 61850 mms] : RDRE RcdMade value change was only signaled for record duration lower than 3s
- [\[CSD100-1658\]](#) [Web HMI] Archive creation was not visible in HMI/Download section without refresh



- [\[CSD100-1652\]](#) [Web HMI] "Apply" button was not appearing without a page refresh when uploading a param file
- [\[CSD100-1529\]](#) [Alarm management] Some alarms specific to controlled operations were raising upon uncontrolled operations.
- [\[CSD100-1450\]](#) [Alarm management] "Reference current" alarm was not raised when the measured frequency of the current was out of boundaries
- [\[CSD100-1190\]](#) [Line switching application] Trapped charge polarity was not reset to zero in measurements file for faulty phase(s)
- [\[CSD100-1184\]](#) [Alarm management] "Closing reference frequency" and "Opening reference frequency" alarms were delivering wrong status for non-reference phase

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

- [\[CSD100-3169\]](#) [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
- [\[CSD100-2665\]](#) [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



[\[CSD100-2655\]](#)

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

[\[CSD100-2645\]](#)

[Line switching application] Prearcng time set values were considered with opposite sign and wrongly applied

Known issues

Version history

CSD100-v1.3.0.1	: 01/03/2024
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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