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 Business Unit ABB Oy, Distribution Solutions
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Firmware update release 1.2.1 for SSC600 1.0 Feature Pack 2

Scope

Firmware update release 1.2.1 is for the following product:

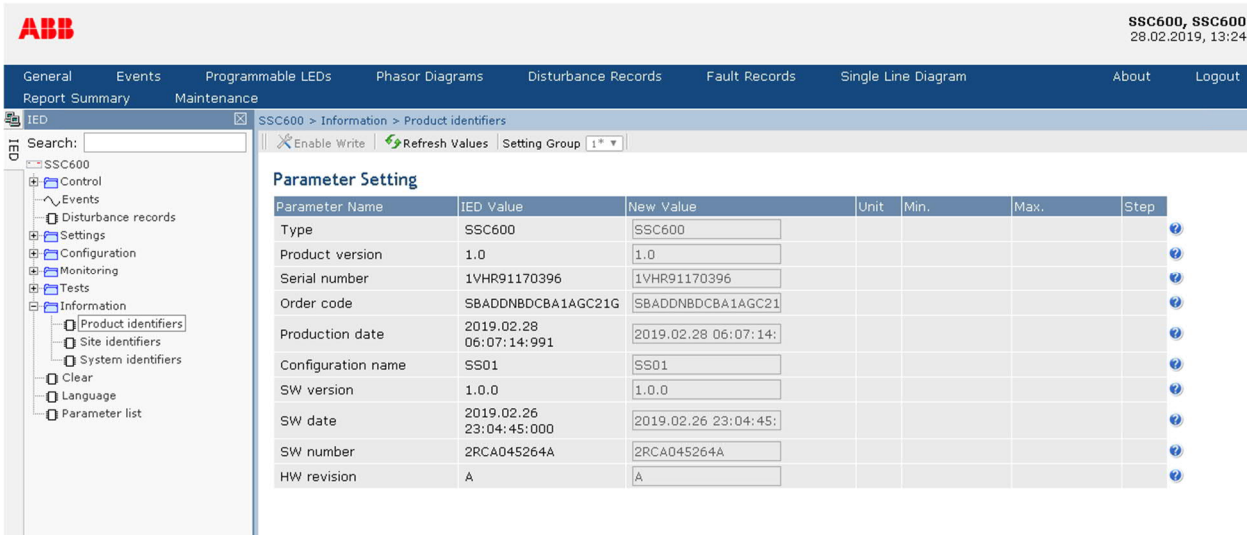
- SSC600 1.0 Feature Pack 2

To verify that the firmware update applies to the product version, ensure that the last two characters of the order code on the human-machine interface (WHMI) match the corresponding characters of the order code in Fig. 1.

SBAxxxxxxxxxxxx3G
 ↑↑

Fig 1. Order code of the SSC600 protection relays

To identify the current firmware revision of the SSC600, please refer to Fig. 2.



The screenshot shows the ABB WHMI interface for an SSC600 device. The 'Parameter Setting' table is displayed, showing various parameters and their current values. The 'Order code' parameter is highlighted, showing the value 'SBADDNBDCBA1AGC21G'.

Parameter Name	IED Value	New Value	Unit	Min.	Max.	Step
Type	SSC600	SSC600				
Product version	1.0	1.0				
Serial number	1VHR91170396	1VHR91170396				
Order code	SBADDNBDCBA1AGC21G	SBADDNBDCBA1AGC21				
Production date	2019.02.28 06:07:14:991	2019.02.28 06:07:14:				
Configuration name	SS01	SS01				
SW version	1.0.0	1.0.0				
SW date	2019.02.26 23:04:45:000	2019.02.26 23:04:45:				
SW number	2RCA045264A	2RCA045264A				
HW revision	A	A				

Fig. 2 Current firmware revision of the SSC600 product

Implemented usability improvement

The firmware update release includes usability improvement but introduces no new functionality. Firmware updates are cumulative.

The following improvement has been implemented:¹

Firmware update release 1.2.1:

Communication

- Added tap changer (OLATCC1) end position reached indications.
- Added possibility for routable communication through Service port (LAN7) and Process ports (LAN3 and LAN4). Before firmware version 1.2.1 the 'Default Gateway' -setting affected only Rear port (LAN5). In version 1.2.1 the 'Default gateway' -setting is used with the port in the same subnetwork.
- Improved robustness of 'Software reset' over MMS communication. With earlier firmware version the device restart may fail after software reset when multiple network interfaces enabled.

HMI

- Restricted access to WHMI simultaneously from multiple ports. Disabled the possibility that two user sessions could be opened simultaneously on SSC600 WHMI, which was possible in firmware version 1.2.0.

Update procedure

Firmware updates represent an integral part of ABB's life cycle management of distribution protection and control relays. The updates ensure optimized usability throughout the relay's entire life cycle by offering the latest improvements. The ideal time for a firmware update would be during periodical testing or a maintenance break.

All SSC600 1.0 Feature Pack 2 (3G) product deliveries dispatched later than March 12, 2021 include the stated relay firmware update 1.2.1. Process of updating the latest firmware to the SSC600 can be found in the Engineering Manual, Chapter 4.6 "IED Update".

Please note that ABB will not be liable for any direct or indirect costs related to the firmware update procedure. The update procedure shall be performed at the sole responsibility of the possessor of the devices.

¹ The relay firmware update may also include some minor usability improvements not listed in this note.