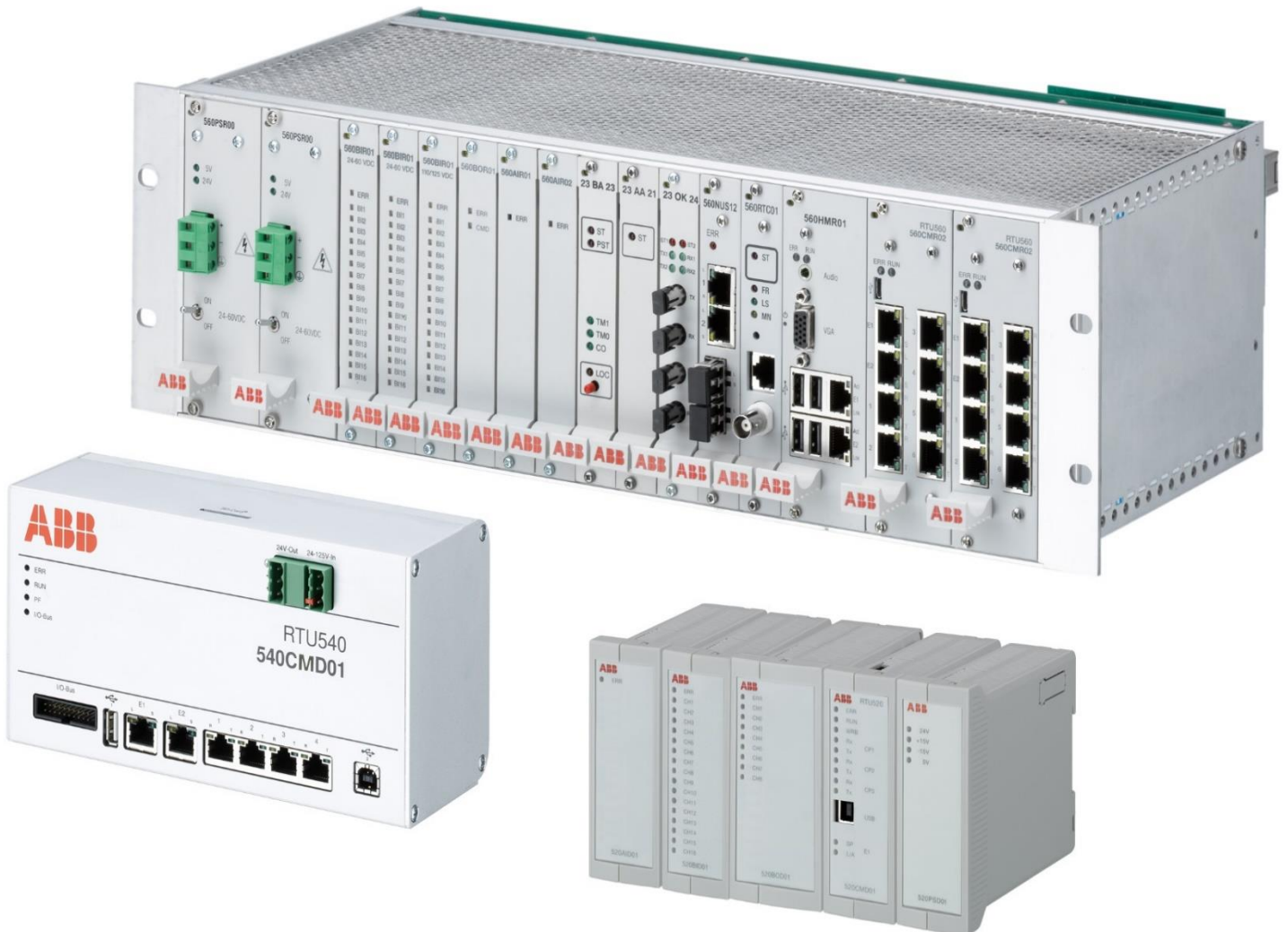


RELEASE NOTE; Document ID: 4CAE000823

# RTU500 Series

## Release 12.6



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# RTU500 12.6

## Release Note

### Introduction

This RTU release 12.6 includes several new features and corrections for functional issues in RTU500 series related to cyber security, fleet management, engineering improvements and protocol improvements.

### Technical requirements and supported products

This release is supported by the RTU500 series with the product lines RTU560, RTU540 and RTU520.

### Ordering and delivery information

The new release 12.6 is available for download in the ABB Library and partner portal.

More information will be provided by the responsible sales manager [link](#) or your local ABB sales representative and during the offered webinars.

### Documentation

Following documentation is available for download:

- Updated Web server user manual
- Updated Security Deployment Guideline
- Updated IEC60870-5-104 protocol description
- Updated Function descriptions
- RTU500 Rel12.6 release notes

For Firmware and software download please go to:

ABB library → [link](#),

RTU Partner portal → [link](#)

RTU External pages → [link](#)

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## RTU500 12.6

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### RTU500 12.6 release (2019-12)

#### New functions:

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**Script interface:** to support fleet management of installed RTU's related to file handling of:

- RTU configuration files
- RTU firmware
- RTU HMI files
- PLC project packages
- Password files
- Support of MultiCMU configuration

The up- and download and activation of the files is supported. The scripts are running in Microsoft PowerShell environment.

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**IEC 60870-5-104** protocol supports now secure authentication based on IEC62351-5. By configuration the support of IEC62351-3 (TLS) and IEC62351-5 (secure authentication) can be selected. (contact hotline team for feature key)→[Flyer](#)

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#### **PLC parameter management:**

It is possible now to change predefined PLC parameters during runtime via web browser.

This simplify the testing and commissioning process of PLC logics based on predefined PLC functions/libraries (symbolic PLC)

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#### **PLC deployment:**

PLC programs can be downloaded as PLC project package with web browser and script interface to RTU500. Multiprog 5 is no more required for the file download to RTU500.

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#### **New integrated HMI launcher:**

The new integrated HMI launcher allows the usage of the newest Java version (e.g. Rel.11, 13). Commercial agreements for commercial use of Java 8 are no more required. The start of the integrated HMI can be done from desktop by batch file or as application.

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**VxWorks vulnerability IPnet URGENT/11** is solved with this release. See separate announcement under [link](#) and further information [here](#)

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#### **Queue monitoring for IEC60870-5-104 host communication**

The filling status if the IEC60870-5-104 host communication is monitored now. If the filling state reaches 75% a system event is generated.

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#### **Brute force attack monitoring and protection:**

In case of several unsuccessful login attempts to RTU500 (wrong password and/or user name) the login will be blocked for a time period. Function can be configured (number of attempts, enable/disable) and the settings will be distributed together with the password file/password policy

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#### **Protect manipulation of configuration data:**

Download of configuration data is only possible with valid username and password. Manipulation with card reader are detected and refused by RTU500

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#### **Monitoring of SD card:**

If SD card is unplugged during operation a system event is created. Based on that system event an alarm can be initiated.

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**MODBUS host communication:**

Function codes 15 and 16 are now supported for host communication. This function supports industrial SCADA projects based on MODBUS communication.

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**DNP3 host communication:** A configurable waiting time improves the support of radio net works

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**New Multimeter 500CVD90:** For secondary distribution (SDA) application a new multimeter with detection functions, power quality monitoring and disturbance recorder function with COMTRADE file support is available. For details please check the [datasheet](#)

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**ATS function:** For secondary distribution automation a PLC library function for automatic transfer switch function with 5 different modes is available. Function is pretested and works according this description. Function can be ordered on pricelist (BOL)→ [Flyer](#)

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**PLC issue:** With this release the cache function is enabled to provide the full performance for the PLC function (Process logic control according IEC61131-3). The cache memory of the ARM based CMU's (RTU540 and RTU560) was temporally disabled in former release to solve a bug in the PLC function.

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ABB Power Grids Germany AG  
P.O. Box 10 01 64  
68128 Mannheim, Germany  
Phone: +49 621 381-3000  
Fax: +49 621 381-7622

Email: [rtu-sales-support@de.abb.com](mailto:rtu-sales-support@de.abb.com)

[www.abb.com/remote-terminal-units](http://www.abb.com/remote-terminal-units)