



Release Information

CODESYS Control RTE

Profile: V3.5 SP8 Patch 2

Release Date: 17 March 2016

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1 General

This document contains information on a product version which was released in compliance with our quality guidelines.

1.1 Responsible for the release

Name	Role
Dieter Hess	Product Manager / CEO
Kevin Ketterle	Manager Product Development (Base Technology)
Hilmar Panzer	Manager Product Development (Application Technology)
Thomas Zauner	Manager Product Development (Systems)
Hubert Reichart	Quality Assurance

Responsibilities of the undersigned

- Product Management
(Confirmation that the content of the version to be released meets the requirements of the Product Management)
- Product Development
(Confirmation that the version to be released was developed in compliance with the relevant process description)
- Quality Assurance
(Confirmation that the version to be released was released in compliance with the relevant process description)

_____ (Dieter Hess)

_____ (Thomas Zauner)

_____ (Hubert Reichart)

Note: If you are updating from a version older than this release, then please ensure that you read the release information documents for all releases since your version.

2 Compatibility information

2.1 Runtime System

2.1.1 ComponentManager: safe mode [CDS-41257](#)

Safe mode is a state of the runtime system that is set if a serious error occurred during startup.

Serious errors includes the following:

- a) a required interface function could not be resolved
- b) an init hook of a component returns an error

In safe mode, the IEC application is not loaded and not started. This avoids any possible damage to the system.

OEM note:

1. There is a new hook CH_SAFEMODE that the component manager uses to inform all components that the system will switch to safe mode. This hook may be called on startup for two reasons:

- a) a required interface function could not be resolved
- b) an init hook of a component returns an error

2. On receiving this new hook CH_SAFEMODE every component that is involved in machine-critical operations should act according to safe mode.

CmpApp disables loading and starting the boot project; no login and no download are possible.

2.1.2 ComponentManager: [CDS-43828](#)

Return values of init hooks are checked and handled now (V3.5 SP8 and later):

Components that fail to initialize let the system go into safe mode (see [CDS-41257](#)).

2.1.3 Linking files to application needed to separate them from kernel files [CDS-35792](#)

There is a new setting to separate the application related files from the runtime system files:

[SysFile]

PlcLogicPrefix=1

This can also be predefined at compile time with:

```
#define SYSFILE_VALUE_INT_PLCLCLOGIC_PREFIX_DEFAULT 1
```

Values for SysFile.PlcLogicPrefix

1 [RECOMMENDED value for new controllers]: Create and use the new directory/file structure for SP8

0: Migrate to new directory/file structure when either reset origin device is chosen in device context menu or at startup on a PLC without any boot project and set PlcLogicPrefix=1

-1 [DEFAULT]: Keep the old flat directory/file structure.

OEM notes:

1. We recommend the setting [1] for new installations or new controllers. The new backup/restore feature for IEC applications works only because of this configuration.

2. When updating existing controllers or machines, we recommend that this setting is not specified in order to avoid incompatibilities in the position of storing and finding application-related files (because the default value is -1).

2.2 Compatibility information for end users

2.2.1 Runtime System

2.2.1.1 CmpOpenSSL: Extend CmpOpenSSL with a crypto interface [CDS-41694](#)

A new crypto interface has been created (see CmpCryptotlf.m4 for details). This interface can be used inside the PLC code using the CmpCrypto library.

2.2.1.2 OnlineUserManagement: Disable Rights Management [CDS-44563](#)

By default, the "Access Rights" page (device editor of a PLC) will not be displayed anymore. There are two ways to activate this page:

A new checkbox on the device editor options has been added to hide or show the "Access Rights" page.

A new target settings has been introduced to activate the "Access Rights" page from the device description. This setting overrides the setting in the device editor options.

```
<ts:section name="device-user-management">
  <ts:setting name="show-access-rights-page" type="boolean" access="visible">
    <ts:value>1</ts:value>
  </ts:setting>
</ts:section>
```

2.3 Compatibility information for OEMs

2.3.1 Runtime System

2.3.1.1 SoftMotion as an add-on [CDS-45543](#)

The placeholder definitions for SM3_ETC_ITF and SML_ETC_ITF have been removed from the PLC device descriptions. Starting with CODESYS V3.5 SP8, these placeholders are no longer resolved by the PLC device.

Please update your device descriptions accordingly.

3 Known Restrictions

Component	Description	JIRA ID

4 Features and Changes / Addressed Defects

The link below leads to an Excel sheet which contains information on the new implementations and changes in the current version:

Key, Summary, Description, Resolution, Priority, Issue Type, Components, Target User Group, Fix Version, Release Note

Special release information for OEM partners can be found in the RID note with the filter 'Target User Group' for 'OEM' or 'OEM and End User'.

[Features and Changes Addressed Defects CODESYS Control RTE V3.5 SP8 Patch 2.xls](#)

5 Release information

This section describes the tests that were conducted during the release of the above mentioned version and the corresponding results.

Test	Environment	Result
EtherCAT (Autotest)	Ethernet Chip RTL8169 Control RTE 64 AMP , Win7/64 Bit	Passed / Released
EtherCAT (Autotest)	Control RTE, Ethernet Chip Intel Pro 1000 Control RTE 64 AMP , Win10/64 Bit	Passed / Released
Recipe Manager (Autotest)	Control RTE	Passed / Released
Recipe Manager (Autotest)	Control RTE 64bit	Passed / Released

Document Release

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