HIMA

SMART SAFETY.

HIMatrix®F

Release Notes V17.2/V22.2

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1 HIMatrix Operating System V17.2/V22.2

The new versions only support devices with enhanced performance:

- F10 PCI 03 (discontinued).
- F30 03.
- F31 03 (discontinued).
- F35 03.
- F60 CPU 03.

This chapter describes the improvements, new functions and restrictions of the following HIMatrix operating system versions (V17.2/V22.2):

OS version	File name	Description
V17.2	L3CPU_HA1_L3_OS_V17.2.ldb	Safety-related CPU operating system for F30 03, F35 03 and F60 CPU 03 controllers
V22.2	L3COM_HA1_L3_OS_V22.2.ldb	COM operating system for F30 03, F35 03, F60 CPU 03 controllers

Table 1: Modified Operating System Versions

2 New Functions

- The COM operating systems offer OPC UA Server functionality.
  The CPU operating systems have been extended with an interface for the OPC UA Server to enable access to system events.

  The OPC UA Server functionality requires its own license.

3 Firmware Improvements

- After a reload, the SOE function did not report the first occurrence of a scalar event threshold being exceeded to the X-OPC Server. This problem was fixed with processor module operating system V13 (HIMatrix V17).

4 Firmware Restrictions

- In very seldom cases, if one or more communication protocols such as Modbus or ComUserTask are used under load control and the controller or COM module changes from RUN to STOP, the COM module may reboot.

- Restriction with respect to reload licenses:
  Features that are used in a COM module with a demo license, cannot be activated by performing a reload of the controller (CPU-Module) with a full license. The message displayed in the license management of the CPU module reports that a regular license is available, but a DEMO license is in use. This behavior occurs if no reload or cold reload is performed for the COM module itself.
  The full license is only used and properly reported after a restart of the controller (CPU module), a reload or cold reload of the COM module.

5 Upgrading from a Previous Version

5.1 Upgrading from V16.xx/V21.xx to V17.2/V22.2

Only processor and communication operating system versions that were released together can be used together.

The operating system of processor and communication modules can only be upgraded in the STOP state.

HIMA recommends upgrading all modules to the current operating system version and upgrading the associated OS loaders as well.

5.1.1 Upgrading the HIMatrix system to V17.2/V22.2

i The order described below must be absolutely observed!

1. Stop the resource if still in RUN.
2. In the Hardware Editor online view, connect to the communication module (system login) and upgrade the OS loader to V22.2.
3. Upgrade the communication operating system to V22.2.
4. Connect to the processor module by logging in to the system and upgrade the OS loader to V17.2.
5. Connect to the processor module and upgrade the processor operating system to V17.2. The resource reboots.

The upgrade of the HIMatrix system to V17.2/V22.2 is completed.

6 References

- HIMatrix system manual (HI 800 141 E).
- HIMatrix safety manual (HI 800 023 E).
- Communication manual (HI 801 101 E).

Zstandard License Terms

The CPU operating systems contain a Zstandard decompression algorithm provided with the following license terms:

BSD License

For Zstandard software

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6.2 Apache License

The COM operating system includes an SSL/TLS library Mbed TLS licensed by ARM Limited.

http://www.apache.org/licenses/LICENSE-2.0

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Release Notes

HI 800 797 E

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