

# **HIMatrix**®**F**

# Release Notes







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All the current manuals can be obtained upon request by sending an e-mail to: <a href="mailto:documentation@hima.com">documentation@hima.com</a>.

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# 1 HIMatrix Operating System V16/V21

The new versions only support devices with enhanced performance:

- F30 03
- F35 03
- F60 CPU 03

This main chapter describes the improvements and new functions of the following operating system versions:

OS version	File name	Description
V16.2	L3CPU_HA1_L3_OS_V16.2.ldb	Safety-related CPU operating system for F30 03, F35 03, F60 CPU 03 controllers
V21.4	L3COM_HA1_L3_OS_V21.4.ldb	COM operating system for F30 03, F35 03, F60 CPU 03 controllers

Table 1: Current Operating System Versions

#### 1.1 New Functions

#### PROFIsafe V2.6MU1:

The operating system supports Basic Protocol Mode (BP), Loop Back Protocol Mode (LP) (F-Host only) and Expanded Protocol Mode (XP) (GSDML file as of V2.32 / SILworX code generation V11b).

Separate licenses are required for the PROFIsafe Host V2.6MU1 (LP, XP) and PROFIsafe Device V2.6MU1 (XP) functions. Additionally, a connection license is required for each configured protocol connection.

The Basic Protocol Mode additionally supports HIMA F-Devices with 10 and 12 bytes.

Restriction: The Basic Protocol Mode with more than 12 bytes and 4-byte CRC is no longer supported.

Due to the tight schedule of a customer project, PROFIsafe could not yet be certified by a PI-accredited testing institute.

The gateway IP address can be configured via DCP set. When establishing a PROFINET connection and the IP address of the PROFINET Device does not match the configured IP address (DCP set), the gateway IP address of the PROFINET Device is set in accordance with the configured IP address.

#### 1.2 Firmware Improvements

Improved behavior of Reset PROFIsafe connection state (for Host).
The connection states of up to 32 PROFIsafe connections can now be reset simultaneously.

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#### 1.3 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 concerning the reload licenses

If only a demo license is available to load a feature required by a module, it may occur that the feature is not updated properly when a reload with a regular license is performed. The message displayed in the license management of the CPU module indicates that a regular license is available, but a demo license is being used.

This behavior occurs when the module itself is not subject to reload or cold reload.

The new license is only used and properly reported after a new restart, reload or cold reload of the module.

## 1.4 Upgrading from a Previous Version

#### 1.4.1 Upgrading from V15.x/V20.x to V16/V21

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.

When upgrading the operating systems, HIMA recommends upgrading the associated OS loaders as well.

## 1.4.1.1 Upgrading the HIMatrix system to V16.x/V21.x

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 V18.x.
- 3. Upgrade the communication operating system to V21.x.
- 4. Connect to the processor module by logging in to the system and upgrade the OS loader to V11.x.
- Connect to the processor module and upgrade the processor operating system to V16.x. The resource reboots.

The upgrade of the HIMatrix system to V16.x/V21.x is completed.

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#### 1.5 References

- HIMatrix system manual (HI 800 141 E).
- HIMatrix safety manual (HI 800 023 E).
- Communication manual (HI 801 101 E).
- HIPRO-S V2 manual (HI 800 723 E).
- ISOfast manual (HI 801 465 E).
- PROFIBUS manual (HI 801 523 E).

#### 1.6 Zstandard License Conditions

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

**BSD License** 

For Zstandard software

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Appendix Release Notes

# **Appendix**

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