
HIMatrix[®]F

Release Notes



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All the current manuals can be obtained upon request by sending an e-mail to: documentation@hima.com.

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1 HiMatrix Operating System V15/V20

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 (V15/V20):

OS version	File name	Description
V15.8	L3CPU_HA1_L3_OS_V15.8.ldb	Safety-related CPU operating system for F30 03, F35 03 and F60 CPU 03 controllers
V20.6	L3COM_HA1_L3_OS_V20.6.ldb	COM operating system for F30 03, F35 03, F60 CPU 03 controllers

Table 1: Modified Operating System Versions

2 New Functions

- **MultiForcing**
This new access mode allows up to 5 users to write force data (force values and force switches) for global variables.
The access permission can be denied or granted using the enable switch in the project during a download or online, and using a system variable at runtime.
- **Modbus slave V2**
Up to 20 TCP connections to one Modbus master can now be configured for Modbus slave V2. The total number of TCP connections to all the masters may not exceed 20. The number of currently used TCP connections to a Modbus master, is displayed in the online view.

3 Firmware Improvements

- The configuration download and reload have been optimized so that a significant time saving can be expected in most cases, especially in conjunction with larger projects.
- The following commands require *Administrator* access:
 - Resetting the module factory settings.
 - Changing the mono-redundant start-up switch.

Commands that stop or change the system, require at least *Write* access:

- Transition from RUN to STOP.
- Stop of a user program.
- Stop of system operation.
- Transition to Test Mode and Single Cycle.
- Reload, despite set *ReadOnly* system variable.

Commands that maintain the system in operation require at least *Operator* access:

- All force commands, despite set *ReadOnly* system variable.
- P2P statistics reset.

The changed permissions are only active if all CPUs in system operation are upgraded to V11.

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 change 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.

4.1 Upgrading from a Previous Version

4.1.1 Upgrade from V13.x/V18.x to V15/V20

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.

4.1.1.1 Upgrading the HiMatrix system to V15.x/V20.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 V20.x.
4. Connect to the processor module by logging in to the system and upgrade the OS loader to V11.x.
5. Connect to the processor module and upgrade the processor operating system to V15.x. The resource reboots.

The upgrade of the HiMatrix system to V15.x/V20.x is completed.

4.2 References

- HiMatrix system manual, document number HI 800 141 E
- HiMatrix safety manual, document number HI 800 023 E
- Communication manual, document number HI 801 101 E
- HIPRO-S V2 manual, document number HI 800 723 E
- ISOfast manual, document number HI 801 465 E

4.3 Zstandard License Conditions

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

BSD License

For *Zstandard* software

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