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# HIMax<sup>®</sup>

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## Release Notes

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# 1 HiMax Operating System V12

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

OS version	File name	Description
V12.2	HIMAXCPU_HA1_OS_V12.2.ldb	Safety-related operating system for X-CPU 01 processor modules
V12.2	HIMAXCPU31_HA1_OS_V12.2.ldb	Safety-related operating system for X-CPU 31 processor modules
V12.4	HIMAXCOM_HA2_OS_V12.4.ldb	Operating system for X-COM 01 communication modules

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.

### 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.  
[Restriktion  
HE29163 ]
  
- Restriction concerning the reload of I/O modules with an operating system version  $\leq$  V5  
Reload of I/O modules with operating system version  $\leq$  V5 must not be performed in conjunction with a protocol change, a change to the X-COM or the deletion of modules.  
Workaround:  
If I/O modules with operating system version  $\leq$  V5 are to be changed or added to the configuration by performing a reload, the reload must not include any additional changes.
  
- Restriction concerning the event transmission priority  
In redundant systems, only select the value 1 for the Events priority, or problems may occur during synchronization.

## 1.4 References

- HiMax system manual (HI 801 001 E).
- HiMax safety manual (HI 801 003 E).
- Communication manual (HI 801 101 E).
- HIPRO-S V2 manual (HI 800 723 E).
- PROFIBUS manual (HI 801 523 E).

## 1.5 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**

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## Release Notes

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### HI 801 530 E

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