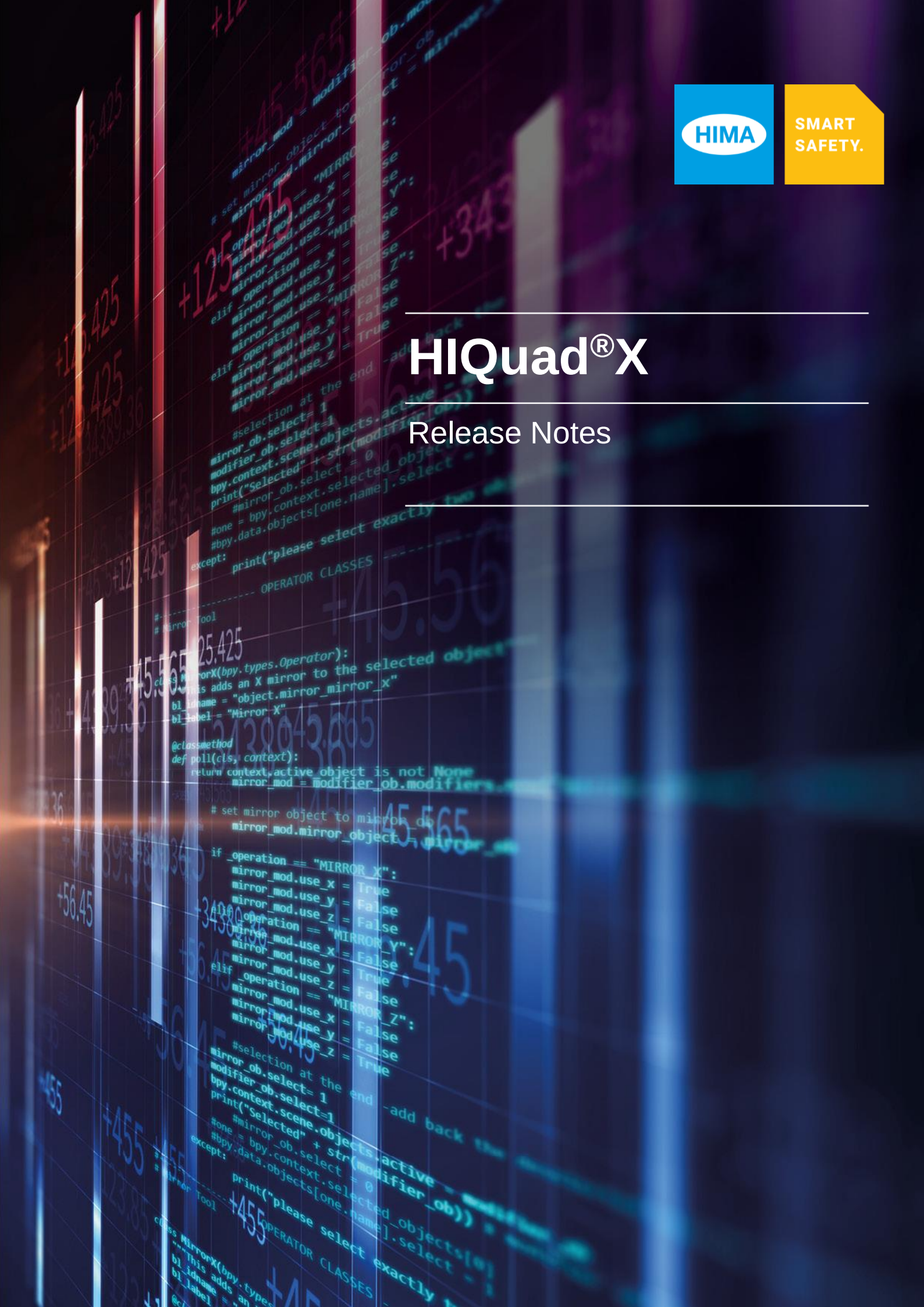

HIQuad®X

Release Notes

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Table of Contents

1 HIQuad X Operating System Version V11 5
2 Compatibilities 6
2.1.1 Compatibilities with Previous Versions 6
2.2 New Functions 6
3 New Functions 7
4 Firmware Improvements 8
5 Firmware Restrictions 9
5.1 Zstandard License Conditions 10
Appendix 11
Index of Tables 11

1 HIQuad X Operating System Version V11

This chapter describes the improvements and new functions of the following HIQuad X operating system V11 compared to the previous ones:

OS version	File name	Description
V11.8	HQXCPU51_HA1_OS_V11.8.ldb	Safety-related operating system for F-CPU 01 processor modules
V10.24	HQXIOP_HA1_OS_V10.24.ldb	Safety-related operating system for the F-IOP 01 I/O processing modules
V11.6	HQXCOM_HA1_OS_V11.6.ldb	Operating system for F-COM 01 communication modules

Table 1: Modified Operating System Versions

The operating system versions not mentioned in Table 1 are listed in the previous release notes.

2 Compatibilities

2.1.1 Compatibilities with Previous Versions

HIMA recommends upgrading all modules to the current operating system version.

2.2 New Functions

The new functions described in this chapter require the use of SILworX V11 and higher.

3 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.

- For Modbus slave V2, up to 20 TCP connections to one Modbus master can now be configured. 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.

- The F 3349 I/O module is approved for use in HIQuad X systems with operating system V11, see Table 1.

4 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 access permissions of some PADT commands have been corrected.

  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.
- The F 3237 and F 3238 I/O modules no longer report faulty channel values. An external open-circuit or short-circuit is reported with correct channel values.
- The F 6217 I/O module no longer switches off if external overscale errors occur (ERROR STOP). Diagnostic entries relating to channel faults and overscale errors in individual channels are already written when the F 6217 module is started.

5 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.

5.1 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

Index of Tables

Table 1: Modified Operating System Versions 5

Release Notes

HI 803 237 E

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