Content

1   New HIMatrix M45 I/O Operating System Version V1.6

1.1   Operating System Versions for the Modules

The new version V1.6 includes the following operating system version:

OS version	Product designation in the revision list (Device-Type)/ File name	Description
V1.6	M45_IO-HA-L1-CPUBS / m45_io_bs_v1.6.ldb	Safety-related operating system for HIMatrix M45 I/O modules

Table 1:   Operating System Version for the I/O Modules

1.2   Overview

- Chapter 2 describes the new functions of V1.6.
- Chapter 3 describes the migration procedure from the previous version.
- Chapter 4 specifies references to other documents.

1.3   Compatibility

The functionality of the M45 I/O operating system V1.6 is the same as the functionality of the previous version V1.4.

HIMatrix M45 controllers must be programmed with SILworX V6 and higher.

2   Problems Corrected in V1.6

1 Continuous operation of the system bus connection

In the previous version, the system bus connection could be interrupted 49.7 days after an I/O module had been started. The outputs adopted the safe state and the global variables assigned to the inputs were set to the safe value. [HE26374]

3 Migration to V1.6

The operating systems can only be upgraded in the STOP state.

3.1 Procedure

The order described below must be absolutely observed!

The described upgrade procedure must be followed for all the I/O modules.

Upgrading HIMatrix M45 I/O Modules to V1.6

1. Stop the resource if still in RUN.
2. In the Hardware Editor online view, connect to the processor module (system login).
3. Upgrade the operating system of all I/O modules to V1.6. For every module, proceed as follows:
   – In the online view of the Hardware Editor, right-click the module icon to open the context menu.
   – Select the submenu for **Maintenance/Service.**
   – In the submenu, select **Module: Load Operating System.**
   – A file selection window appears. Select the file containing the operating system.
   The operating system is loaded and the I/O module restarts.
4. Once all the I/O modules have been upgraded, restart the resource.

The procedure for upgrading the M45 I/O modules to V1.6 is completed.

4 References

- HIMatrix M45 system manual, document number HI 800 651 E
- HIMatrix M45 M-CI 8 01 manual, document number HI 800 667 E
- HIMatrix M45 M-DI 8 01 manual, document number HI 800 661 E
- HIMatrix M45 M-DO 2 01 manual, document number HI 800 663 E
- HIMatrix M45 M-DO 8 01 manual, document number HI 800 665 E