

Software module H4U.app Position Force

H4U.app xF / software version 1.0.1



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1 General

1.1 About this documentation

These Release Notes refer to **H4U.app xF** in the version 1.0.1 which is offered for the target Beckhoff. This software release is provided exclusively for the target system Beckhoff TwinCAT3.

Siemens TIA Portal

Software designation	Release date	Versioning
SWA-HYD-T-XF-TC3-01-RS-NN-N	2025-12	1.0.0

Beckhoff TwinCat 3

Software designation	Release date	Versioning
SWA-HYD-T-XF-TC3-01-RS-NN-N	2025-12	1.0.0→ 1.0.1

1.2 Software designations

The following table shows various characteristics of the **H4U.app xF**:

Table 1: Type code

Product	¹⁾	Category	Target system	Version	Export code
SWA-HYD	T	XF	TIA	01-RS-NN	N
SWA-HYD	T	XF	TC3	01-RS-NN	N

SWA-HYD Software for hydraulic applications

T ¹⁾Technology library

XF Position/force control

TIA Target system Siemens TIA Portal

TC3 Target system Beckhoff TwinCat3

01-RS-NN Version identifier

N Standard

1.3 Required and supplementary documentation

Title	Document number	Document type
Software module for position/force control of a hydraulic actuator	01939	Data sheet
Software module H4U.app Position Force H4U.app xF - TwinCat 3	01939-01-Z	Quick Start Guide
Software module H4U.app Position Force H4U.app xF - TIA Portal	01939-02-Z	Quick Start Guide

These documents are available in the Media Directory at <https://www.boschrexroth.com/de/de/download-center/>



The functions of the H4U.app xF and the handling of parameter sets are explained in the Application Manual "Software module H4U.app Position Force, R.01939-FK".

2 Software version 1.0.1



IMPORTANT INFORMATION!

- When upgrading from version 1.0.0 to version 1.0.1, you must take note of the renaming in the output interface:

V 1.0.0 H4UApp.Status.StatusLicensing.StatusSignatureVerification.LicenseHashInvalid

V 1.0.1 H4UApp.Status.StatusLicensing.StatusSignatureVerification.SignatureInvalid



- The function/meaning of the variables has remained unchanged. Merely the identifier was changed.
- The license acquired for version 1.0.0 may still be used for version 1.0.1 without any restrictions.

2.1 Bug fixing



The classification into the individual levels of severity is explained in [Chapter 3 "Explanation of the severity level"](#) on page 7.

2.1.1 Initialization behavior for the target system Beckhoff TwinCAT 3 is faulty.

Characteristics

SWA-HYD-T-XF-TIA-01-RS-NN-N

SWA-HYD-T-XF-TC3-01-RS-NN-N



Bug ID:

1136938

Severity:

K4

Description

When using the **H4U.app** xF on the target system Beckhoff TwinCAT3, the license check as part of the initialization may not always be completed successfully in certain constellations despite a valid license file. In this case, the status bit *H4UApp.Status.StatusLicensing.StatusComparator.InvalidHostID* = TRUE.

Bug fixing

The initialization behavior was corrected in version 1.0.1, so that initializing is completed successfully with a valid license.

2.2 Changes in functions

2.2.1 Status bit for faulty signature in license files renamed

Characteristics

SWA-HYD-T-XF-TIA-01-RS-NN-N	---
SWA-HYD-T-XF-TC3-01-RS-NN-N	✓

Description

The status bit *LicenseHashInvalid* was renamed *SignatureInvalid*. The function remains unchanged from version 1.0.0.

V 1.0.0	H4UApp.Status.StatusLicensing.StatusSignatureVerification.LicenseHashInvalid
V 1.0.1	H4UApp.Status.StatusLicensing.StatusSignatureVerification.SignatureInvalid

2.2.2 Adapted behavior for output of StatusLicensing status bits

Characteristics

SWA-HYD-T-XF-TIA-01-RS-NN-N	---
SWA-HYD-T-XF-TC3-01-RS-NN-N	✓

Description

In version 1.0.1, the behavior of the *Licensing* status bits follows the *Execute-Done* behavior. If *ExecuteInitialisation* is not permanently active, then the status remains valid for only one cycle.

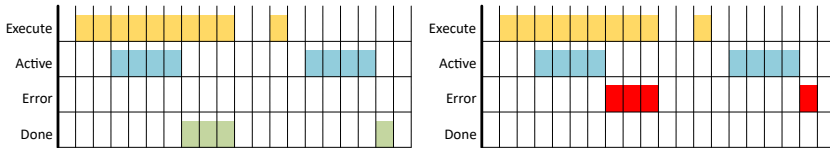


Fig. 1: Adapted behavior for output of StatusLicensing status bits

Diagram on the left Edge-triggered function block with final processing; processing successfully completed

Diagram on the right Edge-triggered function block with final processing; processing aborted with error

3 Explanation of the severity level

Error classes severity level

This refers to the "severity" of an error, i.e. this is where you select how critical the effects of the error may be (e.g. risk to life and body, machine damage etc.). The following classes are distinguished:

Severity level: Criticality of a problem or error at the customer Explanation

K1 – Safety-relevant function	Customer problem or error affects safety-relevant function
K2 – Serious malfunction	Major malfunction → Error in an important function
K3 – Malfunction, no workaround	Malfunction, no workaround available
K4 – Malfunction, with workaround	Malfunction, workaround possible
K5 – Non-critical error	Not a critical problem

4 Service and support

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Preparation of information

We can help you in a fast and efficient way if you keep the following information available:

- Details about the product concerned, particularly the type code and serial number.
- Your contact details (phone number, e-mail address)

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