



Smart home and building solutions.
Global. Secure. Connected.

KNX CERTIFICATION

KNX Openline
30/06/2025

Ufuk Unal
Certification Manager





-
- Why certify your product?
 - KNX Registration procedure
 - Apply for KNX Membership
 - Request unique manufacturer code
 - Create a Manufacturer Tool project for your to be registered product
 - Request the registration in your MyKNX account
 - KNX Certification procedure



Why certify your product?

- **Interworking:** Your KNX device will work together with KNX devices from other KNX manufacturers.
 - Your push button can switch on the light which is controlled by a switching actuator of another KNX manufacturer.
 - Your room thermostat can control the valves from another KNX manufacturer.
 - **In other words, your KNX device becomes part of the KNX ecosystem.**
- **Conformity to KNX standards:**
 - **Hardware:** must meet the requirements from Volume 4/1. Test are performed inhouse at your company or at third-party test labs.
 - EMC (63044-5), Electrical Safety (63044-3) and environmental condition tests (50491-2).
 - **Application program:** must pass the Interworking & functionality tests. Tests are carried out by KNX accredited test labs.



Why certify your product?

- **One software tool, ETS (Engineering Tool Software):**
 - Your KNX device can be configured and parametrized using the ETS.
 - Integrators do not need to learn different software packages or configuration methods. Integrator only needs to be trained in one software tool, i.e., ETS.
 - Product databases of various products available in the Online Catalog of ETS.
 - ETS is **backward compatible**: integrator can still import product databases that were released 30 years ago in the new ETS.





KNX Registration Procedure

1. Apply for KNX Membership.

- KNX shareholders / KNX Royalty-per-Unit licensees
- Interested Party: ***not allowed*** to certify any products
- Is ISO 9001 of member company required for certification?
 - In the case of OEM product registration → NO
 - In the case of “MAIN” product registration → YES and NO
 - If ***own*** developed physical layer or stack, then YES
 - The member company does not have to be ISO 9001 certified provided that ***the physical layer or stack is already certified***. In this case the manufacturer can take recourse to a subcontractor that complies with ISO 9001 for the development and production of the product.



KNX Registration Procedure

2. Request unique manufacturer code.

- This 2-byte code is used by ETS to check whether the originator of the to be loaded application program corresponds with the originator of the device.
 - Manufacturer code can be requested “online” in MyKNX.



Request a Manufacturer's Code

Manufacturer name

Product groups

☐ KNX Devices

☐ ETS Apps

☐ Cable and/or Connectors

☐ System components (transceivers, KNX Stack, etc)

☐ KNX IoT 3rd Party API servers

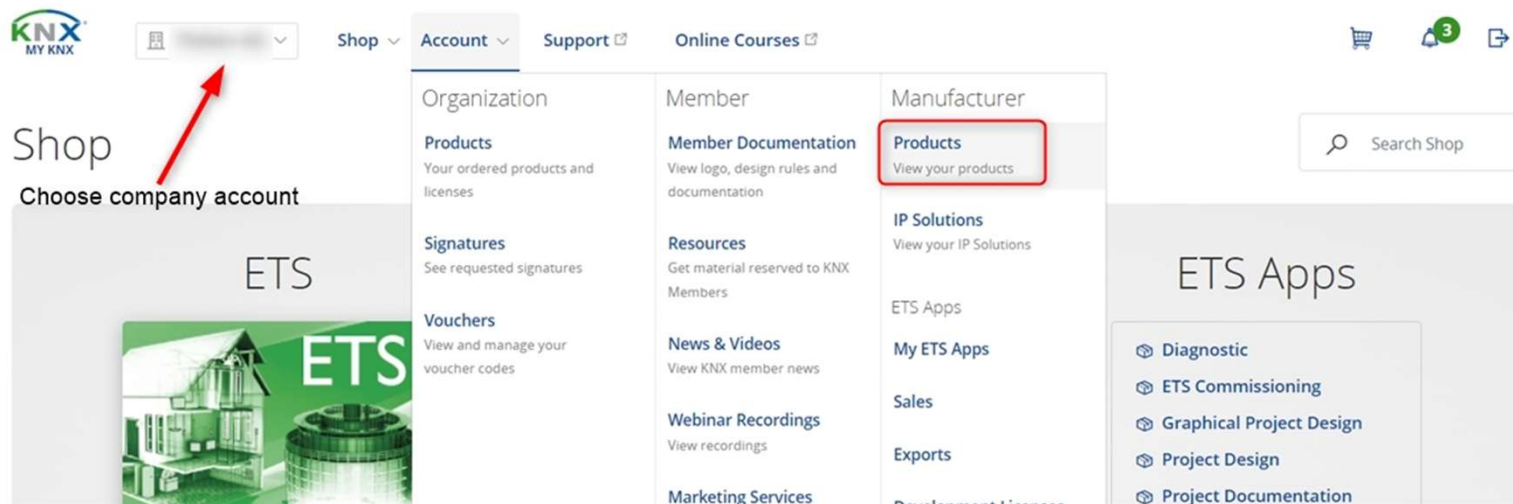
☐ Other IP servers/clients

Submit Request



KNX Registration Procedure

3. Create a Manufacturer Tool project for your to be registered product (see support.knx.org for video's).
 - Output file = knxei.
4. Request the registration in your MyKNX account.
 - Upload the knxei file in your MyKNX account.
 - Complete the online registration forms.





KNX Certification Procedure

– Registration Overview

- The imported data will always contain the registration overview of the

1. Hardware
2. Product
3. Application program

KNX MY KNX

Shop Account Support Online Courses

CED registrations

Details Knxel

Hardware list

Export registration

Name	Serial nr	Version	Bus current
MS_Inp	302515.2	2	10

MS_Inp

Product

Name	Order nr	Status	EIB logo	Show on website	Registration type
Multisensor	302515.2	Unregistered	✓	✗	New

Application

Name	Version	Status	Mask version	Registration type
Multisensor	6.1	Unregistered	System B	New



KNX Registration Procedure

1. Hardware data sheet:

- This online form shall be filled out for registration of any hardware master product (only for main certificates). It contains amongst others information on the:
 - Product scope
 - Product family and type
 - Test requirement class
 - Physical layer and stack
 - Connector type



KNX Registration Procedure

2. Product data sheet:

- EIB logo on KNX device required?
- Show on KNX website?

3. Application program data sheet:

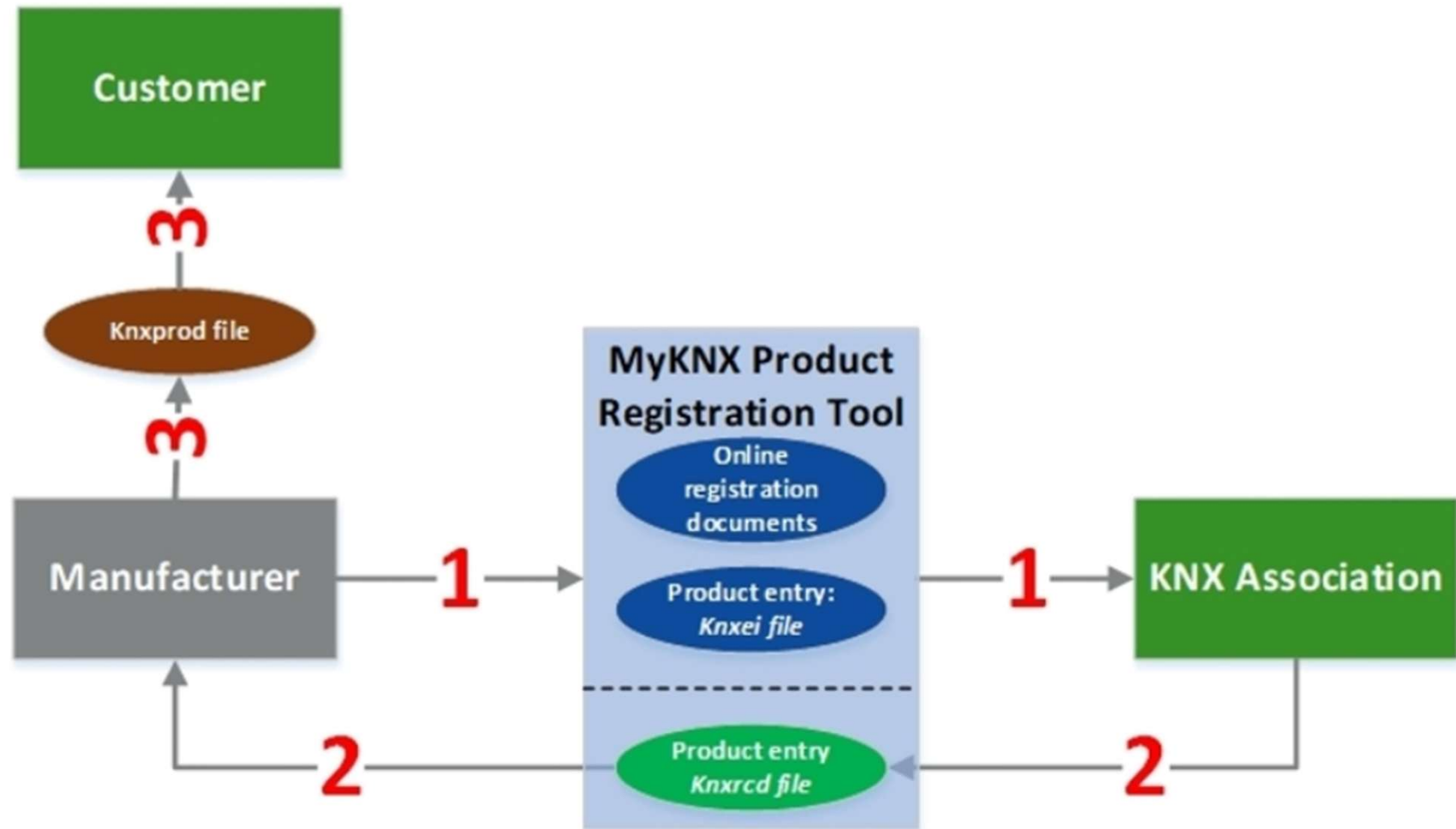
- Select Configuration Mode
- Select Functional Block compliance
- Select medium
- Lists all your objects together with their corresponding Datapoint types (DPTs)



KNX Registration Procedure

- Once knxei file uploaded and registration documents completed you need to request the official registration of your product:
 - After successful registration by KNX, manufacturer will receive:
 - a ***knxrcd file*** in his MyKNX account
 - An invoice for the registration fees. The registration fees can be found [here](#).
 - Manufacturer must import this knxrcd file in his MT project. Unregistered → "Registered".
 - Manufacturer can now distribute ***knxprod files*** to his customers.
 - For integration in Online Catalog, this knxprod file shall be uploaded in MyKNX.
 - Manufacturer can already sell the product with KNX logo for a ***quick market entrance. Within 6 months after registration a KNX interworking test report shall be provided to KNX.***

KNX Registration Procedure: Overview



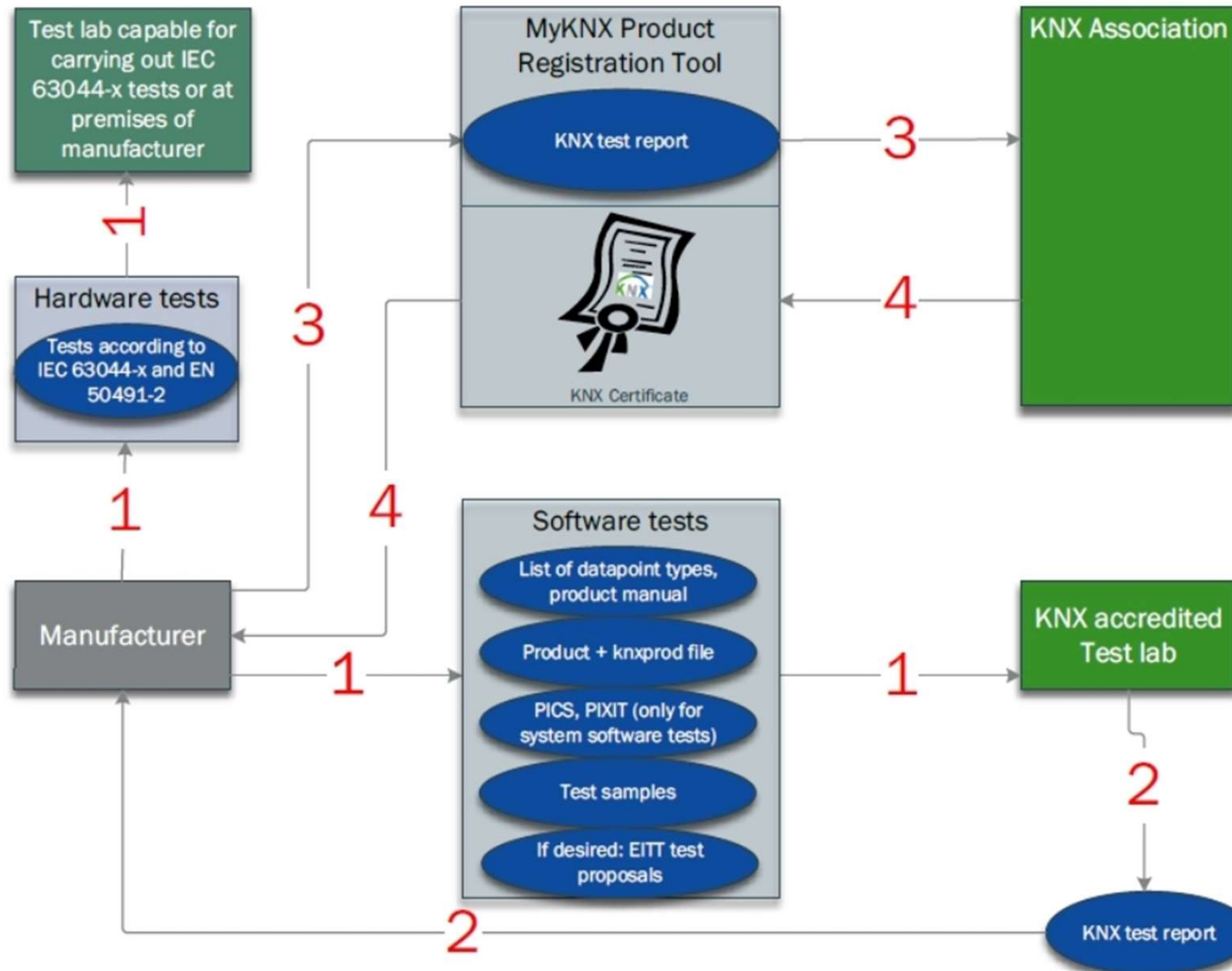


KNX Certification Procedure

Manufacturer now has 6 months time to provide KNX Association with:

- Interworking test report of the application program
 - Carried out by a [KNX accredited test lab](#), with EITT Test Tool available from KNX Association.
 - Which tests?
 - **Interworking and Functionality Tests:** it is checked whether
 - » the product functions as declared by the manufacturer and
 - » if declared data point types are conform to the KNX specifications
 - Behaviour on **initialisation, reset, power failure**
 - Value of **hop count** used in telegrams
 - **Telegram rate limitation** for cyclical functions

Certification procedure: Summary



Thanks.

Ufuk Unal

Certification Manager

+32.2 775 86 53

ufuk.unal@knx.org

For general questions:
info@knx.org – www.knx.org



Smart home and building solutions.
Global. Secure. Connected.

