

dS-ready Certification Overview

1 Scope

Based on the dS-ready certification procedure the digitalSTROM AG awards the dS-ready logo to qualified devices and services. The logo signals the end user that the device or service follows the digitalSTROM-Standard and seamlessly integrates with the digitalSTROM-System.



2 Certification Process Overview

The certification process is open to Partners of the digitalSTROM AG and follows 3 phases. Tailor made processes are applied according to the type of product to be certified. Please see chapter 3 Certification Process Types for details.

2.1 Preparation

- Become a partner of the digitalSTROM AG
- If your product does not meet the requirements for 3.1 Declaration based Certification:
Test proper functionality and interoperability of your device or application with the digitalSTROM System according to the relevant Norms.
- Relevant Norms for your product are listed in section in 4 Qualified Products.

2.2 Application and Testing

- Hand in your Application for Certification form, available at digitalSTROM AG.
- Provide your device or software application if needed.
- Certification tests will be run upon reception of the certification fees.

2.3 Certification

- If certification tests are successful, you will receive a Certificate of Conformity including the right to use and apply the dS-ready logo as specified in the digitalSTROM Certification General Terms and Conditions available at digitalSTROM AG. Your certified product will be listed on the web page of the digitalSTROM AG.
- If certification tests are not completed successfully, you will get a list of defects. Feel free to apply for certification again with the modified product.

3 Certification Process Types

The certification process is based on the digitalSTROM Standard publications and depends on the type of product and the interface used to integrate with the digitalSTROM System. All digitalSTROM Standard publications are published on www.digitalstrom.org/Alliance/standardisierung/.

3.1 Declaration based Certification

The digitalSTROM AG offers a simplified procedure for products that integrate fully dS-ready certified and unmodified HW modules. Thus certification is based on the declarations made by the partner member in the application form.

3.2 Test based Certification

This type of certification includes testing of the product with respect to the digitalSTROM Standard norms applicable for the specific product.

3.3 Recertification of a Product

This process is open to already certified products that are modified thru a hard- or software update.

The certificate holder shall list all changes to the product. He shall declare the conformity of the product to the newest versions of the digitalSTROM Standard norms applicable to the product. Relevant Norms for the product are listed in section 4 Qualified Products. Based on this information, the digitalSTROM AG Certification Department will decide whether a Test based Certification is needed for recertification or the Declaration based Process is sufficient to issue a Marks Approval for the updated product. Pricing is according to the certification process chosen for the product.

4 Qualified Products

The following products are qualified for dS-ready certification:

4.1 digitalSTROM Powerline based products

- **Test based certification** is applied for all digitalSTROM Powerline based products initially. digitalSTROM-certified HW modules can then be used for integration as follows:
- Hardware products that integrate dS-ready certified HW modules such as digitalSTROM terminal blocks built into Lamps, sun blinds, coffee machines and so forth.
Declaration based certification is applied for this type of product.

Applicable digitalSTROM Standard norm:

- digitalSTROM Standard Device Behavior. The product has to conform with one device profile.

- Hardware products that integrate the digitalSTROM Tiny Interface Module such as washing machines, refrigerators, stoves, presence detectors and so forth. **Test based certification** is applied for this type of product.

Applicable digitalSTROM Standard norms:

- digitalSTROM Standard Device Behavior. The product has to conform with one device profile.
- digitalSTROM Standard Communication Rules for the digitalSTROM Powerline Bus.

4.2 IP Devices in the local network

- Hardware products that integrate into the digitalSTROM system based on the virtual device container (vDC) interface. **Test based certification** is applied for this type of product.

Applicable digitalSTROM Standard norms:

- digitalSTROM Standard Device Behavior. The product has to conform with one device profile.
- digitalSTROM Standard Communication Rules for the digitalSTROM vdSM / VDC infrastructure. Certification tests verify correct registration, device representation and behavior while communicating with the digitalSTROM System.

4.3 Smartphone Apps and Web Applications

- Software products connecting to the digitalSTROM System thru the digitalSTROM Server JSON API (dSS JSON API). **Test based certification** is applied for this type of product.

Applicable digitalSTROM Standard norms:

- digitalSTROM Standard Device Behavior where applicable.
- digitalSTROM Standard rules on communication via the dSS JSON API. Certification tests verify correct registration, device representation and behavior while communicating with the digitalSTROM System.

- Software products connecting to the digitalSTROM System thru digitalSTROM cloud services. **Test based certification** is applied for this type of product.

Applicable digitalSTROM Standard norms:

- digitalSTROM Standard Device Behavior where applicable.
- digitalSTROM Standard rules on communication via digitalSTROM cloud service APIs. Certification tests verify correct registration, device representation and behavior while communicating with the digitalSTROM System.

Please note that not all of the described processes and are available as of now. Feel free to get in touch with our office in case of questions: info@digitalSTROM.org