

NTV Norwegian DTT Validation process

2.0

1. Validation Process

1.1 Step 1 – Non Disclosure Agreement

The first step in the process is to get an NDA in place between the manufacturer and RiksTV. The NDA can be retrieved by sending a request to validation@rikstv.no. Once the NDA is agreed upon and signed it is valid for all new products coming in for validation from the same manufacturer, hence the NDA only needs to be signed once.

When the NDA is signed, the following documents will be sent to the manufacturer:

[1] - NTV validation standard Terms & Conditions

This document states the Terms and Conditions that the manufacturer agree upon when ordering the validation services.

[2] - NTV Basic IRD Specifications DTT Norway

Specification stating all requirements for Basic IRD's intended for the Norwegian DTT network.

[3] - PVR Specifications DTT Norway

Specification stating all requirements for IRD's with PVR functionality intended for the Norwegian DTT network.

[4] – NTV SSU Rules of Operations

Document that explains the SSU Rules of Operations for the Norwegian DDT network.

[5] – SSU enhanced and simple profile signaling to manufacturers

This document is filled out by the manufacturer and states the manufacturer specific signalling to be used when testing SSU functionality.

Specifications, requirements and tables may be subject to change. The manufacturer is responsible for obtaining the latest updated version of the relevant specifications. Please refer to www.rikstv.no/validation for further information.

1.1 Step 2 – Validation

The manufacturer contacts one of the approved testing facilities directly to arrange the necessary tests of the IRD. At the time of writing this document, the following labs are available:

Labwise: info@labwise.fi

Sofia Digital: info@sofiadigital.com

Any updates can be found on <https://www.rikstv.no/validation/>.

Payment for the Validation Test is handled directly between the manufacturer and the testing facilities.

The Validation Test is an extensive test where the end user device is tested and validated against the NTV specifications as well as selected part of the Nordig specifications.

The manufacturer is provided with the test results upon completion of the test. The manufacturer must correct reported problems if the end user device fails in the test. Depending on the severity of the problems, RiksTV will decide if the test is to be started from the beginning or if the problems can be retested one by one.

The validation purchase order form shall be accompanied with the following documents in digital version:

1. *Conax SE certificate (If embedded Conax)*

If the end user device has embedded Conax CA, a certificate from Conax stating that the end user device has passed Conax security test.

2. *Conax CT certificate (If embedded Conax)*

If the end user device has embedded Conax CA, a certificate from Conax stating that the end user device has passed Conax conformance test.

3. *SSU enhanced and simple profile signaling to manufacturers [8] (If OTA is used)*

The “SSU Configuration” document shall be completed with the SSU configuration matching the device.

4. *MHP test results (if MHP functionality is supported)*

Test report or certificate from external test house or MHP middleware provider, stating conformance to the MHP version detailed in the NTV MHP specifications. The testing shall be done by running the MHP test suite on an end user device with the final SW implementation. A general statement for a given middleware version is not acceptable. This requirement only applies to end user devices where MHP is implemented.

5. *Pairing provisioning files (If embedded Conax)* Both the “Conax production file” (xml document) and the “Serial number” file (txt document) shall be delivered. The files must contain the information about the end user devices to be used during the validation.

1.3 Step 3 – PVR compliance test (if end user device has PVR functionality)

The PVR Compliance Test is designed for validating that the end user device supports the PVR functionality as specified in the “PVR Specifications DTT Norway” [5]. This test is only mandatory for end user devices where PVR functionality is implemented

The manufacturer is provided with the test results upon completion of the test. The manufacturer must correct reported problems if the end user device fails in the test. Depending on the severity of the problems RiksTV will decide if the test will have to be started from the beginning or if the problems can be re-tested one by one. The received end user device units may in this case, upon request by the

manufacturer within 2 weeks after notification of negative test results, be returned to the manufacturer at its cost.

Ordering of the PVR Compliance Test shall be done by using the purchase order form that can be found as Appendix A in the “RiksTV Lab services” document that can be found at <http://www.rikstv.no/validation>. This document also contains the pricelist.

1.4 Step 4 – MHP compliance test (if end user device has MHP functionality)

The MHP Compliance Test is designed for validating that the end user device supports the MHP functionality as specified in the “MHP Specifications DTT Norway” [4] and the applications used in the Norwegian DTT network. This test is only mandatory for end user devices where MHP is implemented

The manufacturer is provided with the test results upon completion of the test. The manufacturer must correct reported problems if the end user device fails in the test. Depending on the severity of the problems RiksTV will decide if the test will have to be started from the beginning or if the problems can be re-tested one by one. The received end user device units may in this case, upon request by the manufacturer within 2 weeks after notification of negative test results, be returned to the manufacturer at its cost.

Ordering of the MHP Compliance Test shall be done by using the purchase order form that can be found as Appendix A in the “RiksTV Lab services” document that can be found at <http://www.rikstv.no/validation>. This document also contains the pricelist.

1.5 Step 5 - Approval.

The final test report shall be sent to validation@rikstv.no. If the results are approved, RiksTV will reply with a “letter of approval” containing NTV approval number and NTV model number. These numbers will be required when registering the platform on our website.

The manufacturer has to register the platform on <http://www.rikstv.no/validation> themselves, and include all current models. Future models that need to be added to the platform can be added by sending them to validation@rikstv.no.

On approval, RiksTV will request a production sample. This will mainly be used for testing if issues are reported from customers.

Delivery address of RiksTV:

RiksTV AS
Att: Martin Skaugen / +47 936 08 684
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0580 Oslo
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