

# **TLN WRO Certification type Document**

< Certification procedure for the AO STB DVB-C  
signaling subsystem to enable usage of the TLN  
ROTV/AIDTV >



## Document Housekeeping

### Document Category and type

CAT	TYPE	DOC ID	Comment
I(DTV)	CERT	TLN-WRO-TA-I-C-PAAC	Certification type documents (-CERT) describe the certification process and methodology (so not the interfaces or protocols, those are found in the specification type documents)

### Document Authorization

EDITION	DATE	APPRAISAL AUTHORITY	STATUS	ORIGINATOR
0.6	10.09.2012	Director TLN Wholesale	Draft	TLN WRO Engineering

### Document Effective Date

This document has come into effect as of xx/xx/2012 and remains valid until a valid subsequent Telenet Wholesale Reference offer, substituting this document is published.

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None

## List of Appendixes

This document may refer to further detailed documents that are added in Appendixes to this document.

A reference to an appendix is in this document highlighted with grey background.

The list with appendixes of this document:

A. Appendix A, < APP-I-C-PAAC-A > contains :

1) Appendix A1 - <Test List>

## List of References

This document may refer to external documents or information sources.

A reference to an external document or information source is in this document highlighted with grey background.

The list of referred external documents or information sources in this document:

Reference 1: TLN WRO CAT: i(DTV): TLN-WRO-TA-I-S-PAAC

Reference 2: TLN WRO CAT: General:

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# 1 Abstract

Certification type documents have as purpose to describe the roles and responsibilities in the certification process of Telenet and the AO, the test procedures and the interaction between TLN and AO throughout the product lifecycle of AO Customer Premises Equipment (CPE) with as main goal to ensure at any moment in time correct interoperability between the AO CPE and TLN infrastructure according to the relevant specifications. The same types of certification documents and procedures are also applicable for TLN network to AO network level of interconnections.

Generic sections specifying certification procedures applicable to all AO CPE or network equipment that will be connected to the TLN network are described in General Certification Procedures Document [TLN-WRO-TA-G-C-PDAA](#).

Section 2 defines the specific test set applicable to the AO CPE or network equipment which is the subject of this specific document.

The feasibility of the technical designs and methods described in this document are subject to verification by a Proof of Concept (POC) test organized by Telenet and may be changed or updated depending on the outcome of this POC.

## **2 Test Specifications for the certification procedure for the AO STB DVB-C signaling subsystem to enable usage of the TLN ROTV/AIDTV**

### **2.1 Introduction**

- (1) The tests will cover all of the requirements specified by TLN in the specification document with identification `TLN_WRO_TA_I_C_PAAC`.

### **2.2 Test list**

- (2) The test list for this AO equipment is included in `Appendix A1` to this document

## 2.3 Test score card

CONFORMANCE TEST SCORE CARD					
Conformance Test Score Card Number	TLN-WRO-TA-TSC-C-PAAC				
Test Identification					
Test Execution Date					
Test Run Type	Full / Reduced <sub>(without OOS cases)</sub>				
Device / Equipment / Interface Name					
Device / Equipment / Interface Type / Class					
AO Device / Equipment / Interface Identification					
Software Version					
Tested by					
Overall Result Status	Pass / Fail				
Applicability	Select 1 or more : ROTV / ROBB / AIDTV				
CONFORMANCE TEST ITEM LIST					
Test Cases Summary	FORMAT	IN SCOPE	MAN	PASS/FAIL	REM
			"Y/N"	"P/F"	(*xy)
<b>4. AO STB General Functional Requirements</b>	<b>HO</b>				
4.1. General			Y		
4.2. DVB-C Normative References	NA		Y		
4.3. TLN DVB-C Signalling for AO STB			Y		
4.4. AO Device Management by TLN Requirements	NA		Y		
<b>5. AO STB General Non-Functional Requirements</b>	NA		Y		
<b>Remarks</b>					
(*xy) : "Remark explanation comes here"					

# Appendix A1

Test list for the certification procedure for the AO STB DVB-C signaling subsystem to enable usage of the TLN ROTV/AIDTV, reference code: **TLN-WRO-TA-I-C-PAAC**.

Test reference or description	OK/KO /NA	Comment
<b>4 DVB-C signalling Functional Requirements</b>		
<b>4.1 General</b>		
4.1.1.1 Check if STB tunes to correct MUX properly		
4.1.1.2 Check if Selected TV service is correctly displayed		
4.1.1.3 Check if Selected Radio service is correctly displayed		
4.1.1.4 Check if Selected Data service is correctly displayed		
<b>4.2 DVB-C normative references</b>	NA	
<b>4.3 TLN DVB-C signalling for AO STB</b>		
<b>4.3.1 General</b>		
4.3.1.1 Check if MPEG-2 transport streams are properly displayed		
4.3.1.2 Check if MPEG-2 transport streams are properly displayed		
4.3.1.3 Check if 64 QAM Modulation runs properly on AO STB DVB-C Module		
4.3.1.4 Check if 256 QAM Modulation runs properly on AO STB DVB-C Module		
<b>4.3.2 NIT signalling structure</b>		
4.3.2.1 Check if NIT search process runs and installs channels properly		
4.3.2.2 Check if Search menu displays NIT information (frequency, modulation etc.) in NIT search menu		
<b>4.3.3 TLN DVB-C home channel</b>		
4.3.3.1 Check if AO STB is able to tune to the home mux		
4.3.3.2 Check if Software upgrade services start properly via home mux tuning		
<b>4.3.4 PSI/SI signalling tables</b>		
4.3.4.1 Check if Program names and numbers(LCN) are correctly displayed		
4.3.4.2 Check if CA information belonging to a program is correctly displayed to user		
<b>4.3.5 EPG/EIT signalling</b>		
4.3.5.1 Check if EPG events are updated properly		
<b>4.3.6 Software update and reboot</b>		
4.3.6.1 Check if AO STB finalizes initial configuration properly		
4.3.6.2 Check if AO STB downloads initial software properly		
4.3.6.3 Check if AO STB boots after software update services properly		

4.3.6.4 <i>Check if AO STB Software is upgraded properly</i>		
4.4 <i>AO Device Management by TLN Requirements</i>	NA	
<b>5    AO STB non-Functional Requirements</b>	NA	