

TLN WRO Certification type Document

< Certification procedure for AO STB CAS
subsystem to enable usage of TLN ROTV/AIDTV >



Document Housekeeping

Document Category and type

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

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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-PAAB-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-PAAB

Reference 2: TLN WRO CAT: General: TLN-WRO-TA-G-C-PDAA

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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 CAS 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_PAAB`.

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-%-P%%%				
Test Identification					
Test Execution Date					
Test Run Type	Full / Reduced(without OOS cases)				
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)
4. AO STB CAS Subsystem Functional Requirements	HO				
4.1. General			Y		
4.2. 3 rd Party CA System to TLN VHE Interface			Y		
4.3. CA Provisioning			Y		
4.4. CA Restrictions			Y		
4.5. TLN CA Operational Procedures			Y		
4.6. AO Device Management by TLN Requirements			Y		
5. AO STB General Non-Functional Requirements	HO				
Remarks					
(*xy) : "Remark explanation comes here"					

Appendix A1

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

Test reference or description	OK/KO/NA	Comment
4 AO STB CA Subsystem Functional Requirements		
4.1 General		
4.2 3 rd Party CA System to TLN VHE Interface		
4.2.1 General		
4.2.2 DVB-C Normative References		
4.2.3 TLN DVB-C SimulCrypt Specifications		
4.2.3.1 Check if AO CAS is compatible with SimulCrypt signals		
4.2.3.2 Check if TLN STBs' are unaffected from AO CAS signalling and data stream		
4.2.3.3 Check if AO STB ignores card-less CAS specific signals		
4.2.3.4 Check if AO STB ignores card-less CAS specific data stream		
4.2.4 CA System Signalling Connection		
4.2.4.1 Check if the data path between TLN-CPPS_AO and AO CAS is a secure IP connection configured with IPSEC or PKI		
4.2.4.2 Check if AO STB is capable of process different EMM/ECM messages from different CAS systems simultaneously (Simulcrypt)		
4.2.5 3 rd Party CA System Explicit Operational Requirements		
4.2.5.1 Check if AO CAS is capable of Disabling Decoder		
4.2.5.2 Check if AO CAS is capable of Enabling Decoder		
4.2.5.3 Check if AO CAS is capable of Disabling SmartCard		
4.2.5.4 Check if AO CAS is capable of Disabling Software CAS		
4.2.5.5 Check if AO CAS is capable of Enabling SmartCard		
4.2.5.6 Check if AO CAS is capable of Enabling Software CAS		
4.2.5.7 Check if AO CAS is capable of Disabling Program Service (Package)		
4.2.5.8 Check if AO CAS is capable of Enabling Program Service (Package)		
4.2.5.9 Check if AO CAS is capable of Sending Message to Decoder (i.e. IRD)		
4.2.5.10 Check if AO CAS is capable of Sending Message to Decoder for Individual Program Service		
4.2.5.11 Check if AO CAS is capable of broadcasting Radio Transport Streams		
4.2.5.12 Check if AO CAS is capable of broadcasting Video Transport Streams		
4.2.5.13 Check if Customer's ID card is visible from AO STB CA Menu		
4.3 CA Provisioning		

4.3.a	Check if the 3 rd Party CA System Design is proper related to TLN standards specified in Specification Documents		
4.3.b	Check if the Check if the 3 rd Party CA System Message Flow is proper related to TLN standards specified in Specification Documents		
4.3.c	Check if AO CAS is capable of processing the pairing of an AO STB with a Smartcard on the provisioning Flow		
4.3.d	Check if AO CAS is capable of performing Activate STB Flow		
4.3.e	Check if AO CAS is capable of performing Add Package Flow		
4.3.f	Check if AO CAS is capable of performing Remove Package Flow		
4.3.g	Check if AO CAS is capable of performing Deactivate STB Flow		
4.3.h	Check if AO CAS is capable of performing Add a Channel from a Package Flow		
4.3.i	Check if AO CAS is capable of performing Remove a Channel from a Package Flow		
4.3.j	Check if the data path between TLN-CPPS_AO and AO CRM is a secure IP connection configured with IPSEC or PKI		
4.3.k	appendix case, validation of the API messages		
4.4	CA Restrictions		
4.4.a	Check if all AO STBs connect CA Servers via IP Return Path when the CA system is software based - TLN Audit for security level		
4.5	TLN CA Operational Procedures		
4.5.a	Check if TLN is capable of Disabling Decoder for AO CA System		
4.5.b	Check if TLN is capable of Enabling Decoder for AO CA System		
4.5.c	Check if TLN is capable of Disabling Smartcard for AO CA System		
4.5.d	Check if TLN is capable of Disabling Software CAS for AO CA System		
4.5.e	Check if TLN is capable of Enabling Smartcard for AO CA System		
4.5.f	Check if TLN is capable of Enabling Software CAS for AO CA System		
4.5.g	Check if TLN is capable of Disabling Program Service (Package) for AO CA System		
4.5.h	Check if TLN is capable of Enabling Program Service (Package) for AO CA System		
4.5.i	Check if TLN is capable of Sending Message to Decoder (i.e. IRD) for AO CA System		
4.5.j	Check if TLN is capable of Sending Message to Decoder for Individual Program Service for AO CA System		
4.5.k	Check if TLN is capable of broadcasting Radio Transport Streams for AO CA System		
4.5.l	Check if TLN is capable of broadcasting Video Transport Streams for AO CA System		
4.6	AO Device Management by TLN requirements		
4.6.a	Check if AO STB is accessible via IRD Messages over AO CA System		
5	AO STB non-Functional Requirements		