

# **TLN WRO Certification type Document**

< Certification procedures for interconnection  
between AO IP backbone network and the TLN  
network >



## Document Housekeeping

### Document Category and type

CAT	TYPE	DOC ID	Comment
Broadband	CERT	TLN-WRO-TA-B-C-PAAD	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
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### 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-B-C-PAAD-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: Broadband: TLN-WRO-TA-B-S-PAAD

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

## Restricted information

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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 procedures for interconnection between AO IP backbone network and the TLN network**

### **2.1 Introduction**

- (1) The tests will cover all of the requirements specified by TLN in the specification document with identification **TLN\_WRO\_TA\_B\_C\_PAAD**.

### **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)
<b>4. AO IP Interconnect Solution Functional Requirements</b>	<b>HO</b>				
4.1. General Architecture			Y		
4.2. Regional Interconnect Zones			Y		
4.3 AO Interconnect Links			Y		
4.4 AO IP Range / Address Space			Y		
4.5 GRE Tunnel Concentrator (GTC)			Y		
4.6 AO Data and Management Links			Y		
4.7 AO Traffic Management			Y		
4.8 Restrictions			Y		
4.9 Operational Procedures			Y		
<b>Remarks</b>					
(*xy) : "Remark explanation comes here"					

## Appendix A1

Test list for the certification procedures for MAC and IP layer connection of AO Euro-Docsis 3.0 equipment to the TLN network, reference code: **TLN-WRO-TA-B-C-PAAD**.

Test reference or description	OK/KO /NA	Comment
<b>4 AO IP Interconnect Solution Functional Requirements</b>		
4.1 General Architecture		
4.1.a Check if AO IP Interconnect Solution design is proper according to the related Specification Document		
4.2 Regional Interconnect Zones		
4.2.a Check if AO CPE is not able to get service in case of moving in another region that CPE is not registered.		
4.2.b Check if AO CPE is able to get services in a region that AO is registered		
4.3 AO Interconnect-Links		
4.3.a Check if LAG with LACP is configured properly in case of multiple 1 Gbps link connections between AO and TLN Networks		
4.3.b Check if TLN forwards traffic to AO first even if the destination is in TLN network		
4.3.c Check if the network continues to function in case of single point of interface card failure in a specific region		
4.3.d Check if the traffic is rerouted to other appropriate RPOI in case that one region interconnection fails completely		
4.4 AO IP Range / Address Space		
4.4.a Check if AO Cable Modem /STB is assigned a Public IP address from the declared IP Address Pool from AO for a specific region		
4.5 GRE Tunnel Concentrator		
4.6 AO Data and Management Links		
4.7 AO Traffic Management		
4.8 Restrictions		
4.9 Operational Procedures		
4.9.a Check if AO adapts and run properly in case of changes on the IP interconnect infrastructure		