

# TR - 067

M o d e m C P E / D S L A M  
A D S L

## TR - 067

Le rapport technique TR-067 a été rédigé par les experts du Broadband Forum.

Il définit un ensemble de conditions de tests permettant de valider les fonctionnalités et les performances de la couche physique ADSL, ainsi que des tests sur des couches plus élevées permettant de valider les capacités de transmission d'un modem ADSL conforme aux recommandations ITU-T G992.1.

Un système ADSL est composé de multiplexeurs DSL (DSLAMs), de filtres insérés des deux cotés de la boucle locale, et de modems clients.

Ces systèmes sont testés pour être dynamiquement interopérables sur un ensemble de boucles et de conditions de bruits permettant de couvrir une large gamme de conditions représentatives de déploiements d'opérateurs.

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*The Technical report TR-067 has been written by Broadband Forum experts. It provides a set of test methods to verify the transceiver functional requirements and the physical layer performances of an ADSL modem implemented in accordance with ITU-T G.992.1. Higher layer functionality test cases are also defined in this document.*

*An ADSL system consists of DSLAMs, filters and splitters located at both ends of the local loop, and CPE modems.*

*These systems are tested for dynamic interoperability on a set of loops and noise conditions which allows a large covering of loop conditions representative of network operator's deployments.*

# Access

## Contact

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# Tests XDSL

Ref	Tests	Pack Start	Pack Confort	Pack Zen
8.1	<b>ADSL Fonctionnalité</b>			
8.1.1	Basic Functional Bit Swap Test	•	•	•
8.1.2	Verification of CRC error reporting by ATU-R	•	•	•
8.1.3	Check ADSL Diagnostic Tools	•	•	•
8.1.4	Dying gasp		•	•
8.1.5	Modular connector pins			•
8.1.6	Ethernet Connector pins		•	•
8.1.7	Upstream Power Cutback			•
8.1.8	ATU-R Register Reporting via EOC		•	•
8.1.9	Request Downstream Power Cutback			•
8.2	Sudden Application Of RFI			•
8.3	DSL Noise Spikes/Surges Tests			•
8.4	Stress Test		•	•
8.5	<b>Electrical Compatibility Tests</b>			
8.5.1	Analogue Front End Power	•	•	•
8.5.2	PSD Measurement	•	•	•
8.5.3	Longitudinal Balance—LCL			•
8.5.4	Longitudinal Balance—LOV			•
9.1	<b>ATM Connectivity Test</b>			
9.1.1	Loopback at ATU-R		*	
9.1.2	Maximum number of VC's			
9.1.3	Maximum VPI/VCI Range			
9.1.4	Default VPI/VCI			
9.1.5	QoS Support for CBR/UBR Traffic			
9.1.6	QoS Support for rtVBR/UBR Traffic			
9.1.7	QoS Support for nrtVBR / UBR Traffic			
9.1.8	F5 OAM Support		*	

Ref	Tests	Pack Start	Pack Confort	Pack Zen
9.2	<b>LAYER 3 ETHERNET OR USB Interface RFC 2684 [10] bridged mode</b>			
9.2.1	Packet Throughput Test			•
9.2.2	Packet Latency Tests			•
9.3	RFC2516 [11] PPPoE End-to-End Connectivity Test		*	
9.4	RFC 2364 [12] PPPoA End-to-End Connectivity Test		*	
9.5	RFC 2684 [10] End-To-End Connectivity Test		*	
9.6	<b>Usability Test</b>			•
9.6.1	PC Re-boot			•
9.6.2	Power Cycle Test			•
9.6.3	Link Cycle Test			•
9.6.4	Verify 10/100 Ethernet Auto-negotiation (802.3u)			•

Ref	Tests	Pack Start	Pack Confort	Pack Zen
A2	<b>European Test Set (ANNEX A)</b>			
A2.1	CPE Margin verification tests		• (1)	• (1)
A2.2	Verification of Downstream Fine Gain Values			• (1)
A2.3	Loop Tests with Ports Set for adaptative Rate	• (1)	• (1)	• (1)
A2.4	Loop Tests with Ports Set for Fixed Rate	• (1)	• (1)	• (1)
B2	<b>European Test Set (ANNEX B)</b>			
B2.1	CPE Margin verification tests		• (2)	• (2)
B2.2	CO Margin verifications tests		*	
B2.3	Verification of Downstream Fine Gain Values			• (2)
B2.4	Loop Tests with Ports Set for Fixed Rate	• (2)	• (2)	• (2)
B2.5	Loop Tests with Ports Set For Flxed Rate	• (2)	• (2)	• (2)

\* : A la demande, non pris en compte dans les packs  
 \* : On demand, not included on our packs

(1) : Tests réalisés pour un modem ADSLoPOTS  
 (1) : Tests realised for an ADSLoPOTS modem

(2) : Tests réalisés pour un modem ADSLoISDN  
 (2) : Tests realised for an ADSLoISDN modem

# Accès

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