Your digital lab

TR-105

Modem CPE / DSLAM

ADSL2 / 2+

TR-105

Le rapport technique TR-105 a été rédigé par les experts du Broadband Forum.

Il fournit un ensemble de méthodes de tests pour vérifier les fonctionnalités implémentées par les modems ADSL2/ADSL2plus conformément aux recommandations ITU-T G.992.3 et G992.5, ainsi que les paramètres OAM (Opération, Administration et Maintenance) de configuration et de monitoring des performances, tels que définis dans l'ITU-T G.997.1.

Cette spécification de tests complète le TR-100 qui fournit les critères de performance et les conditions de tests des modems ADSL2/2+.

TR-105

The Technical report TR-105 has been written by Broadband Forum experts. It provides a set of test methods to verify a significant subset of the transceiver functional requirements of ADSL2/ADSL2plus modems implemented in accordance with ITU-T G.992.3 et G992.5, as well as physical layer OAM configuration and performance monitoring parameters defined in ITU-T G.997.1.

This test specification completes TR-100 which provides a set of region specific performance requirements and test methods for ADSL2/ADSL2plus modems.

Access

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Accès

Tests xDSL

Réf	Tests	Pack Start	Pack Confort	Pack Zen
5.1	Net Data rate Test			
5.1.1	Fixed data rate operation in the interleaved mode			•
5.1.2	Fixed data rate operation in the fast mode			•
5.1.2	Rate adaptive operation in the interleaved mode			•
5.1.2	Rate adaptive operation in the fast mode			•
5.2	Interleaving Delay Test	•	•	•
5.3	Impulse Noise Protection Test	•	•	•
5.4	Dual Latency Test (optional)			•
5.5	On-Line Reconfiguration Test			
5.5.1	Bitswapping Test			•
5.5.2	Seamless Rate Adaptation Test (optional)			•
5.5.3	Dynamic Rate Repartitionning test (optional)			•
5.6	Loop Diagnostics Mode Test Linear Channel			
5.6.1	Characteristics function (HLIN) Test		•	•
5.6.2	Logaritmic Channel Characteristics Function (HLIN) Test		•	•
5.6.3	Quiet Line Noise (QLN) Test		•	•
5.6.4	Signal-to Noise Ratio (SNR) Test		•	•
5.6.5	Loop Attenuation (LATN) Test		•	•
5.6.6	Signal Attenuation (SATN) Test		•	•
5.6.7	Signal-to-Noise ratio Margin (SNRM) test		•	•
5.6.8	Attainable Net Data Rate (ATTNDR) test		•	•
5.6.9	Actual Aggregate Transmit Power (ACTATP) Test		•	•
5.7	Power Management Mode Transition Tests			
5.7.1	Low Power Entry Test		•	•
5.7.2	Low Power Exit Test		•	•
5.8	LOW Power (L2) Mode		•	•
5.9	PSD Tests			
5.9.1	PSD Mask	•	•	•
5.9.2	Aggregate Transmit Power Test	•	•	•
5.9.3	In-Band Spectral Shaping Test			•
5.9.4	Downstream Power Back-off Test			•
5.10	Longitudinal Balance Test		•	•
5.11	Virtual Noise Test			•
5.12	ATU-R Inventory Information Test			•
5.13	EOC Communication Test			•

Réf	Tests	Pack Start	Pack Confort	Pack Zen
6.1	Configuration Parameter MAXSNRM			•
6.2	Configuration Parameter MINSNRM			•
6.3	Configuration Parameter TARSNRM			•
6.4	Configuration Parameter PSDMASK			•
6.5	Configuration Parameter CARMASK			•
6.6	Configuration Parameter MAXNOMPSD			•
6.7	Configuration Parameter MAXNOMATP			•
7.1	Performance Monitoring Counters for CV and ES	•	•	•
7.2	Performance Monitoring Counters for SES			•
7.3	Performance Monitoring Counters for FULL INITIALIZATION, LOSS-L and LOSS-LFE		•	•
7.4	Performance Monitoring Counters for UNAVAILABLE SECONDS			•
7.5	Performance Monitoring Counters for FAILED FULL INITIALIZATION			•
7.6	Verification of the Previous Data Rate Parameter			•
8.1	D-FMC TEST FOR G.992.5 ANNEX A			(1)
8.2	D-FMC TEST FOR G.992.5 ANNEX B			(2)

(1) : Tests réalisés pour un modem ADSL2+ over POTS

(1) : *Test realised for an ADSL2+ over POTS modem*

(2) : Tests réalisés pour un modem ADSL2+ over IDSN

(2) : *Test realised for an ADSL2+ over ISDN modem*

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La TR-105 est une spécification de tests élaborée par le Broadband Forum

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