



Test Sentinel: DSL and Gfast Test Automation Platform

Run automated testing for your lab for DSL & Gfast testing with our new Test Sentinel Software. Increase confidence in your products including interoperability with repeatable testing. DSLAM/DPU user interface for all supported devices; you can configure one or multiple lines. Supported test equipment includes loop simulators, noise generators and traffic generators. Online results database provides instant access to test data and regression results.

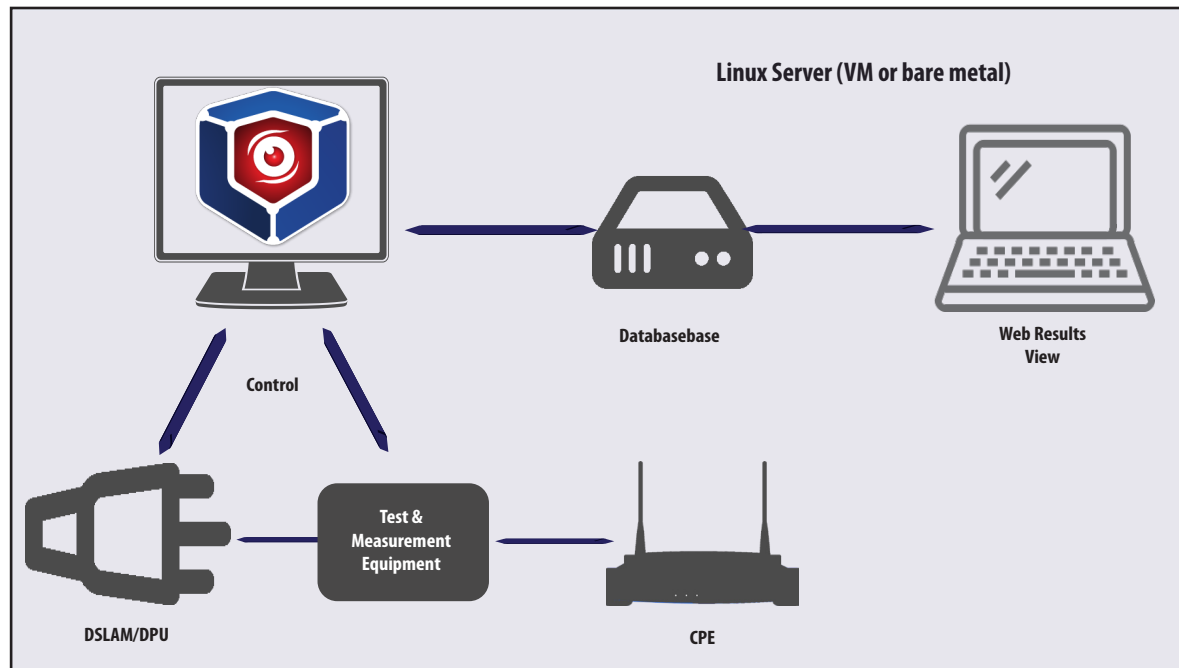
Key Benefits:

- All test results written to online database
- Regression testing
- Web results interface
- Review test history in full detail
- Provides multiple user controls
- Configure 1 or multiple lines

Supported Test Plans:

- BBF IR-337: Gfast Certification
- BBF TR-067: ADSL Performance
- BBF TR-100: ADSL2/2plus Performance
- BBF TR-114: VDSL2 Performance
- BBF TR-115: VDSL2 Functionality (*coming soon*)
- BBF TR-273: xDSL Bonding (*coming soon*)
- BBF TR-249: G.vector Performance (*coming soon*)
- BBF TR-400: Gfast Bonding (*coming soon*)
- Custom Rate vs. Reach Testing (single line/bonded)

Architecture:



Contact:

Lincoln Lavoie
llavoie@iol.unh.edu
+1-603-674-2755
www.iol.unh.edu



Supported Equipment:

DSLAM	ADTRAN hix5625	Calix E Series
	ADTRAN Total Access 1248V	Ericsson EDN Series
	ADTRAN Total Access 3000	Huawei SmartAX UA5000
	ADTRAN Total Access 5000	Huawei SmartAX MA5603
	Calix B Series	Nokia ISAM 7300 Series
	Calix C7 Series	Nokia ASAM 7300 Series

DPU	ADTRAN 508G
	ADTRAN 516G
	Calix E5-16F
	Huawei MA5811S
	Nokia SX-16F

Noise Generator	Spirent DLS-5500 Noise Generator
	Telebyte 4901 Noise Generator
	Telebyte 4902 Noise Generator

Traffic Generators	Digital Lightwave EAHD
	Spirent TestCenter (version: 4.75)
	XENA Layer 2-3 Test Platform

Multipair Cross-talk Systems	Telebyte CFA-24
	Telebyte VxT-48DC+
	Telebyte 4902 Noise Generator

Line Simulator	Spirent DLS-410A ADSL2/2plus North American Loops	Telebyte 458-LM-A1-30-AWGN2
	Spirent DLS-414E ADSL2/2plus European Loops	Telebyte 458-LM-E2-36
	Spirent DLS-8130 VDSL2 North American Loops	Telebyte 458-LM-E1-30-TP100
	Telebyte 458-LM-A1-30-TR114	Telebyte 458-LM-E1-30-04+

Additional equipment testing is available upon request. Please contact us at www.iol.unh.edu for more information.

Test Packages:

Feature	Lite	Professional	Advanced
BBF Gfast Certification Testing (IR-337)	✓	✓	✓
BBF VDSL2 Performance Testing (TR-114)	✓	✓	✓
BBF ADSL & ADSL2/2plus Performance Testing		✓	✓
Custom Rate vs Reach Testing		✓	✓
BBF VDSL2 Functional Testing (TR-115) <i>(coming soon)</i>			✓
BBF VDSL2 Vectoring Performance (TR-249) <i>(coming soon)</i>			✓

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All packages include basic operational support (installation, configuration, etc.); advanced debugging and failure analysis is provided through the UNH-IOL DSL & Gfast Testing Service memberships.