

Wyzartel
Leak-free networks



Introduction

- Carriers require dynamic, flexible and customized test services that can respond to their **evolving needs for data, voice, video and applications testing**.
- GPONDoctor has successfully provided **test solutions and services to leading FTTH carriers globally since 2009**.
- GPONDoctor helps design and implement the **most efficient and effective test strategies** tailored to each carrier specific needs.
- GPONDoctor has developed a comprehensive portfolio of engineering test and measurements services aimed **to support the launch of new devices or network features and applications**, as well as to **improve the Quality of Service and Quality of Experience** for end users.



Carrier Services Offer

- Carriers Acceptance Testing (CAT)
- Field Testing
- Laboratory Services
- Consulting/Outsourcing
- Test Plan & Test Cases Development
- Test Automation/Test Management/Tool customization



Carrier Acceptance Testing

Program Staff

- Staffing services (contractors)- Provide specific resources with the required skill set and only for the required time

Process Definition

- Generation of Test Requirements, Test Cases, Test Plans and Device acceptance process, policies and procedures

Process & Tools

- Process flow management including the development and implementation of the required supporting tools

Test Environment

- Definition and Implementation of Test Setup and equipment to perform the testing for the Carrier device acceptance process

Test Execution

- Execute the test program for all required devices (test execution, program management, reporting, bug tracking, etc.)

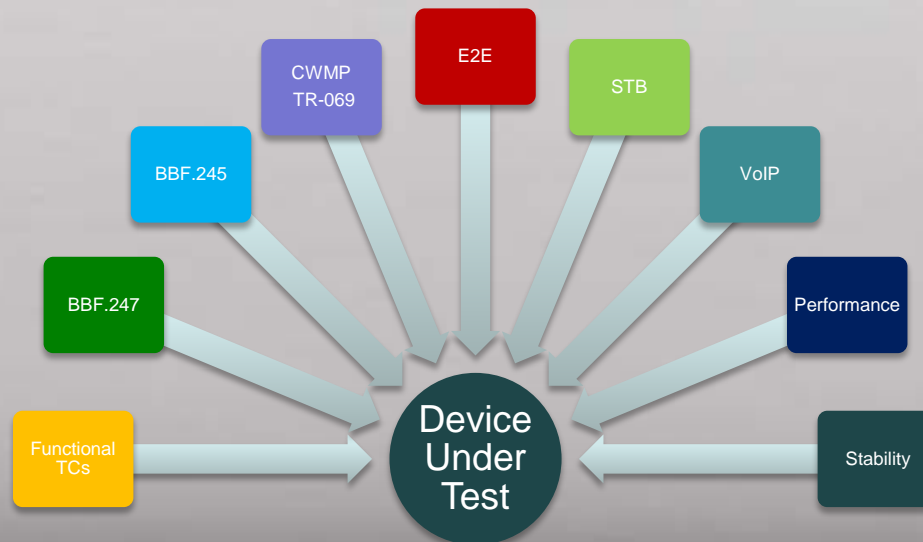
Acceptance

- Review of each device test result and documentation supporting the acceptance decisions



Test Plans and Test Case Development

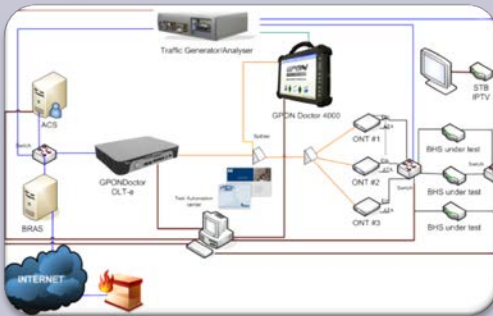
- GPONDoctor has extensive experience in the definition of test requirements, test plans and test procedures:
 1. Design the process control flow to be integrated into the Carrier testing process.
 2. Generation of Test requirements, plans and schedules based on product features capabilities, following carrier test strategy and specific requirements.
 3. Development of Test cases procedures based on carrier requirements, including integration, validation and maintenance.
 4. Definition of test systems and test infrastructure.



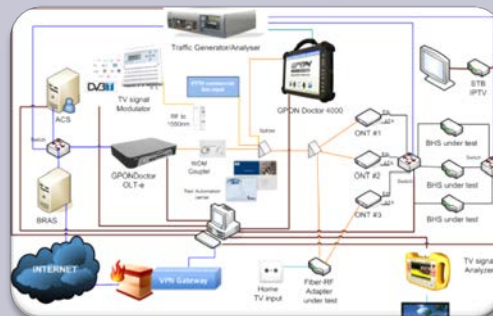


Test Automation

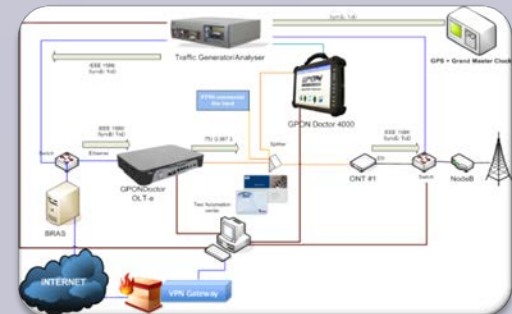
- Test Automation is critical to achieve the productivity and efficiency levels required in the highly competitive network industry. GPONDoctor has extensive experience in developing customs solutions to automate testing:
 1. Design an automated test setup based on customer specific requirements.
 2. Design and implement automated test solutions for specific projects.



Labs for
architectures



Labs for
services

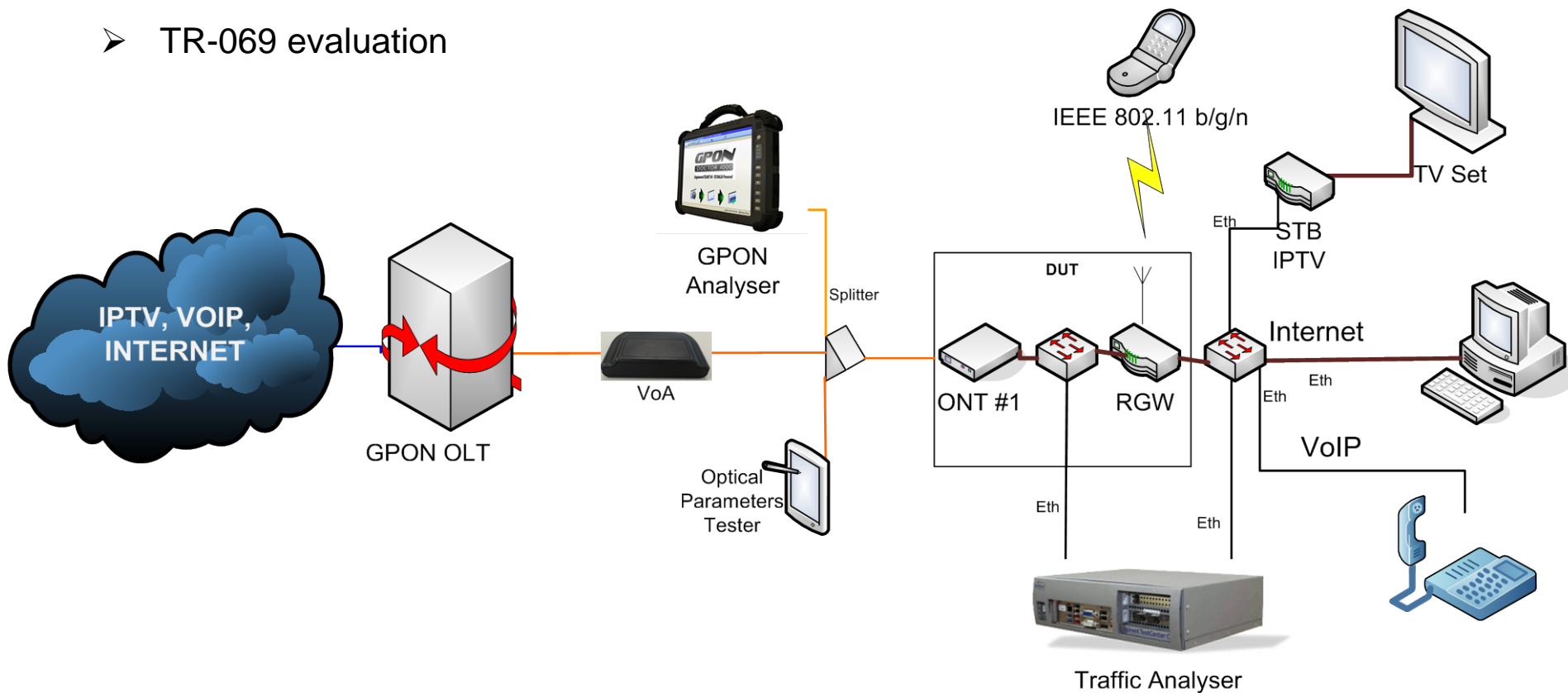


Labs for trials



Test Lab for Functional test

- Test Automation environment optimised for:
 - Interoperability evaluation
 - Functional evaluation
 - TR-069 evaluation





Automation Services Offer

- TR-247 TC Aut. Broadband Forum TR-247 (ONU conformance Test automation Software over Spirent iTest Platform)
- TR-255 TC Aut. Broadband Forum TR-255 (ONU interoperability Test automation Software over Spirent iTest Platform)
- TR-069 TC Aut. Broadband Forum TR-069 Test Plan Suite for Home Gateway devices



Screenshot of Automation

- Test Cases are run automatically
- Indication of Test Case PASS/FAIL (based on pre-established criteria)
- Report generation with the test result and reason for failure
- History recording per Test Case
- Storage of data collected during Test Cases execution for off-line analysis & debugging

The screenshot shows the iTest Execution interface for a successful test case. The main window displays the test report for 'project://TR-247/test_cases/6_3/TestCase-6.3.11.fttc'. The summary indicates a total of 121 report items, 13 total issues, and a 'Pass' result. The execution started at 2014/06/11 16:13:53 and completed at 2014/06/11 16:16:50. The 'Executed Steps' table shows a sequence of actions including 'call', 'comment', 'START_Sessions', 'CONFIGURE_TestCase', 'EVALUATE_Multicast Flows', and 'CLOSE_Sessions'. The 'Message' pane at the bottom shows a list of received multicast packets at the U Interface, all of which passed. The 'Response' pane shows the command 'call: main' and its output.

Action	Session	Description	Step
call	main		1
comment	main:1	Read configuration file and get Test Case Parameters	2i
call	main:2	START_Sessions	2i
call	main:3	CONFIGURE_TestCase -config %configPath -proc %procPath	2i
comment	main:4	EVALUATE_Multicast Flows	2i
call	main:5	EVALUATE_Results -tc %\$TC(0,0) -reportsPath %report	2i
call	main:6	CLOSE_Sessions	2i

The screenshot shows the iTest Execution interface for a failed test case. The main window displays the test report for 'project://TR-247/test_cases/6_2/TestCase-6.2.14.fttc'. The summary indicates a total of 194 report items, 9 total issues, and a 'Fail' result. The execution started at 2014/06/11 14:49:28 and completed at 2014/06/11 14:53:33. The 'Executed Steps' table shows a sequence of actions including 'call', 'comment', 'START_Sessions', 'CONFIGURE_TestCase', 'Execute Downstream test', and 'CLOSE_Sessions'. The 'Message' pane at the bottom shows a list of ONU-related messages, all of which failed. The 'Response' pane shows the command 'call: main' and its output.

Action	Session	Description	Step
call	main		1
comment	main:1	Read configuration file and get Test Case Parameters	2i
call	main:2	START_Sessions	2i
call	main:3	CONFIGURE_TestCase -config %configPath -proc %procPath	2i
comment	main:4	[string match %\$TC(0,1) "YESUP"]	2i
comment	main:5	Execute Downstream test, if required	2i
call	main:6	EVALUATE_Results -tc %\$TC(0,0) -reportsPath %report	2i
call	main:7	CLOSE_Sessions	2i



Some of our reference customers



GPONDOCTOR PARTNER

*Let's build something together.
Join our partnership program.*





GPONDOCTOR

FTTH analysis & monitoring tools

Thanks a lot for your attention

Do not forget to visit our web

www.gpondoctor.com

***Should you have any doubt.....
enrique.areizaga@gpondoctor.com***