



FTTH Testing - Centralized Construction and Provisioning using the ONMSi solution

A Centralized Solution not ONLY FOR Maintenance



Construction

- Certified network qualification
- Automatic method and procedure
- Automatic network inventory update
- Network construction tracking



Provisioning

- Instantaneous subscriber qualification
- Automatic method and procedure
- Subscriber self-install enablement
- Measurements are certified

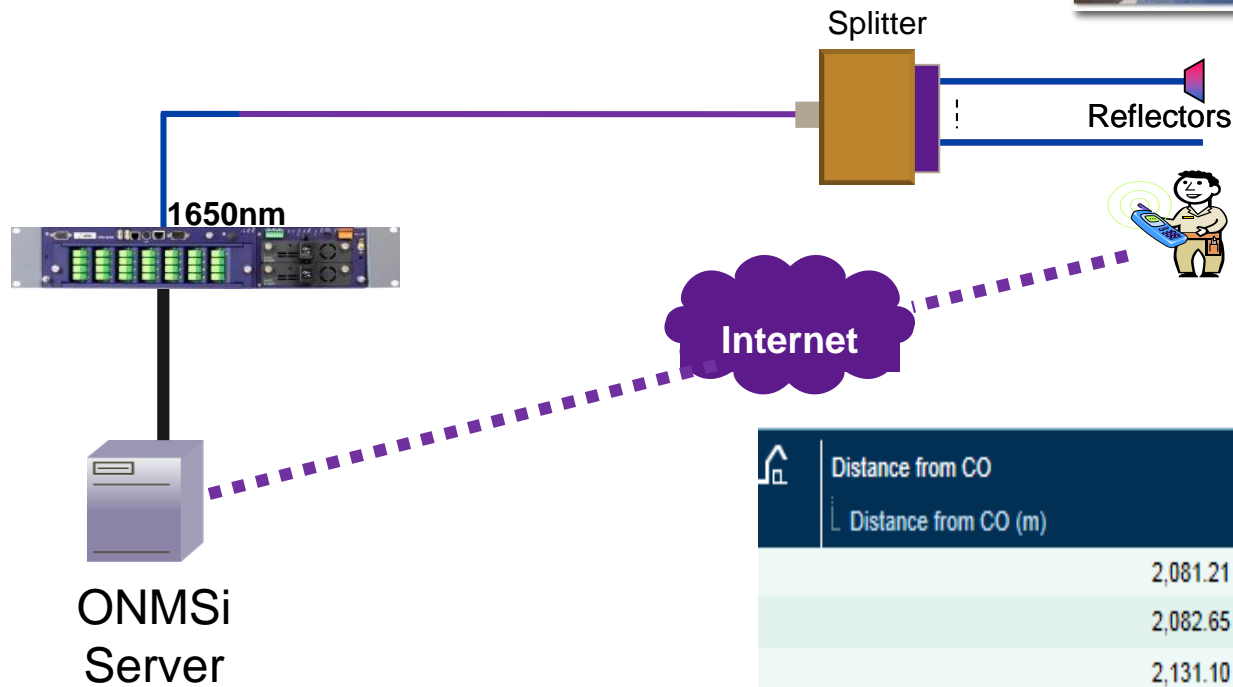


Maintenance

- Shorter mean time to repair
- Demarcation between ONT and Fiber fault
- Dispatch to fix not to understand
- Pro active maintenance

Network qualification

- ✓ Simple and effective process to qualify PON Construction
- ✓ All tests are automatically registered
- ✓ Measurement are certified
- ✓ Only one technician with basic optical qualification is needed.
- ✓ No test set is required
- ✓ Deployment follow up



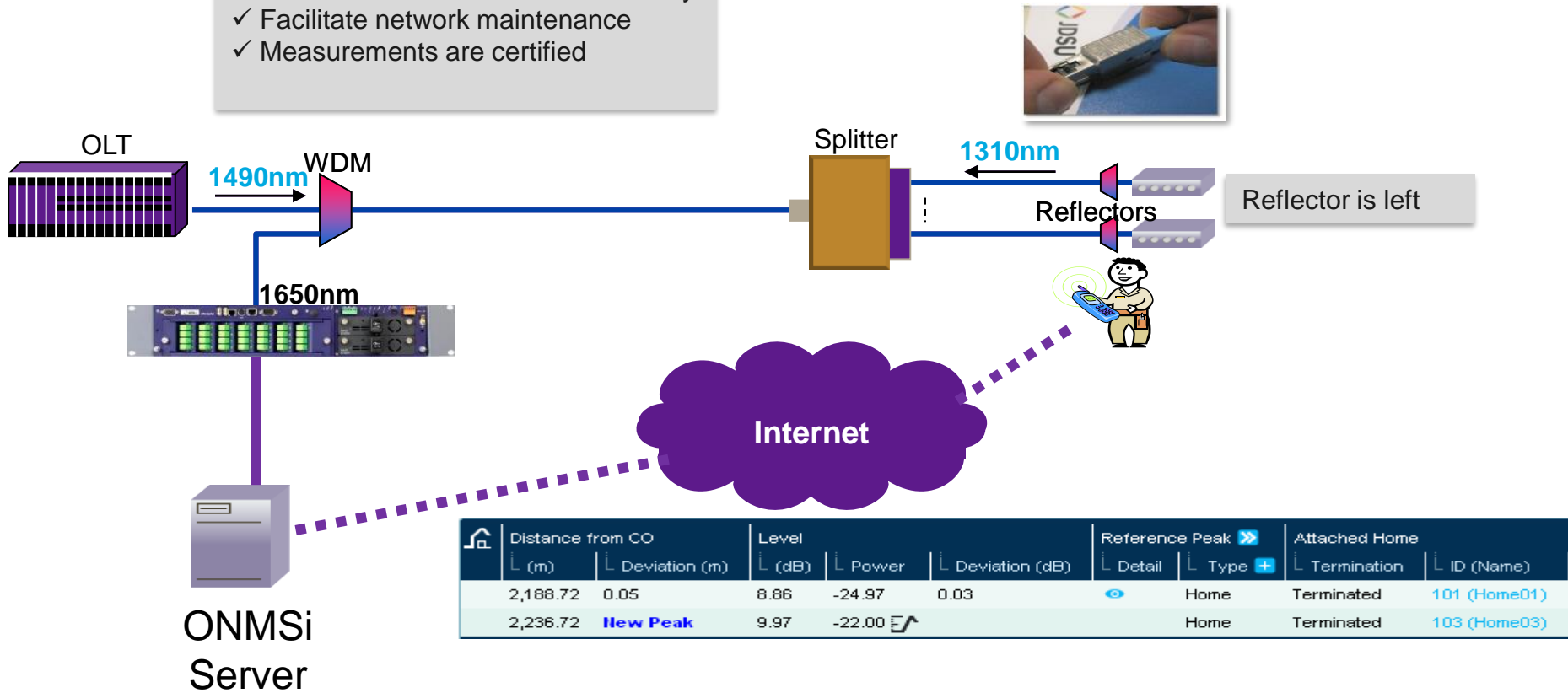
Reflector is moved from one termination to another or the reflector is left at each termination

Distance from CO	Measurements		
	Distance from CO (m)	Insertion loss (dB)	
	2,081.21	29.17	Failed
	2,082.65	24.15	Passed
	2,131.10	24.58	Passed

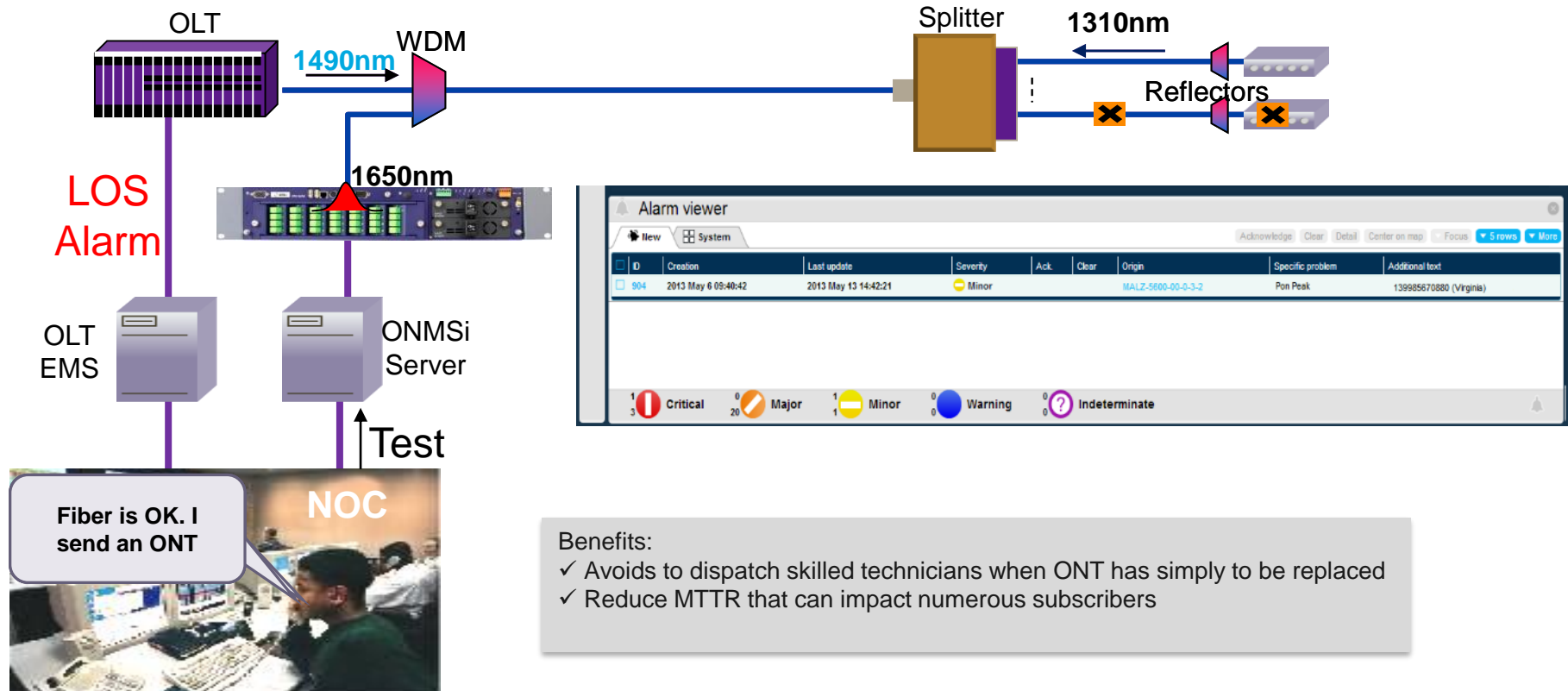
Network Provisioning

Benefits:

- ✓ Accurate record in network inventory
- ✓ Facilitate network maintenance
- ✓ Measurements are certified



Trouble shooting



Summary



- Proper care of fiber cabling
 - Dressing of cables
 - Bends, crushing, etc
 - Capping unconnected fibers
 - IBYC
- Having, and following established procedures – consistency of contract and internal work force
- Cable layout – documentation of as-built with “birth certificate”
- Correct routing of fibers – from splitter and hub (PON-ID)
- Technical skills/training – pre-defined test procedures, including pass/fail criteria and set-up parameters.
- Centralized monitoring/testing of fiber portion of PON network (one fiber fault can affect many customers)