

VIAVI

Considering R-PHY?

Let VIAVI Simplify Your Transition

With major changes coming to the HFC plant and the signals carried over it, service providers globally will be challenged to maintain their increasingly complex and heterogeneous plants during and after this time of unprecedented transition.

The VIAVI holistic approach to HFC maintenance and performance analysis provides the visibility and insight you need to smoothly transition to the networks of tomorrow. Whether it's rolling out DOCSIS® 3.1, fiber-deep, and/or distributed access architectures (DAA) like [Remote PHY](#), VIAVI is the only source for vendor and architecture-neutral solutions which can enable consistent and repeatable test practices as these plant changes are rolled out.

Why VIAVI For Your DAA Rollouts?

- **Complete Portfolio:** VIAVI enables end-to-end network coverage from ingest through in-home testing, including [StrataSync](#) to tie it all together.
- **Designed for DAA:** Not just a collection of point solutions, VIAVI has designed systems and instruments to work together to simplify monitoring and maintenance of your entire network. Providing a consistent workflow and user experience in legacy and DAA networks simplifies the transition to future network technologies.
- **Industry Leadership:** In addition to being first to market with solutions at all major HFC inflection points, our solutions have proven the easiest to roll out due to extensive work with early adopter MSOs during their technology planning and early development phases.
- **You Still Need to Test:** Even as amplifier cascades get shorter, customers will continue to tinker with their home wiring, cars will still be hitting utility poles, and squirrels won't lose their appetites. Some longstanding problems will reduce in frequency/severity, but most will remain. The networks of tomorrow will still require test, and VIAVI has you covered with solutions for the unique test requirements that they will present.

Benefits

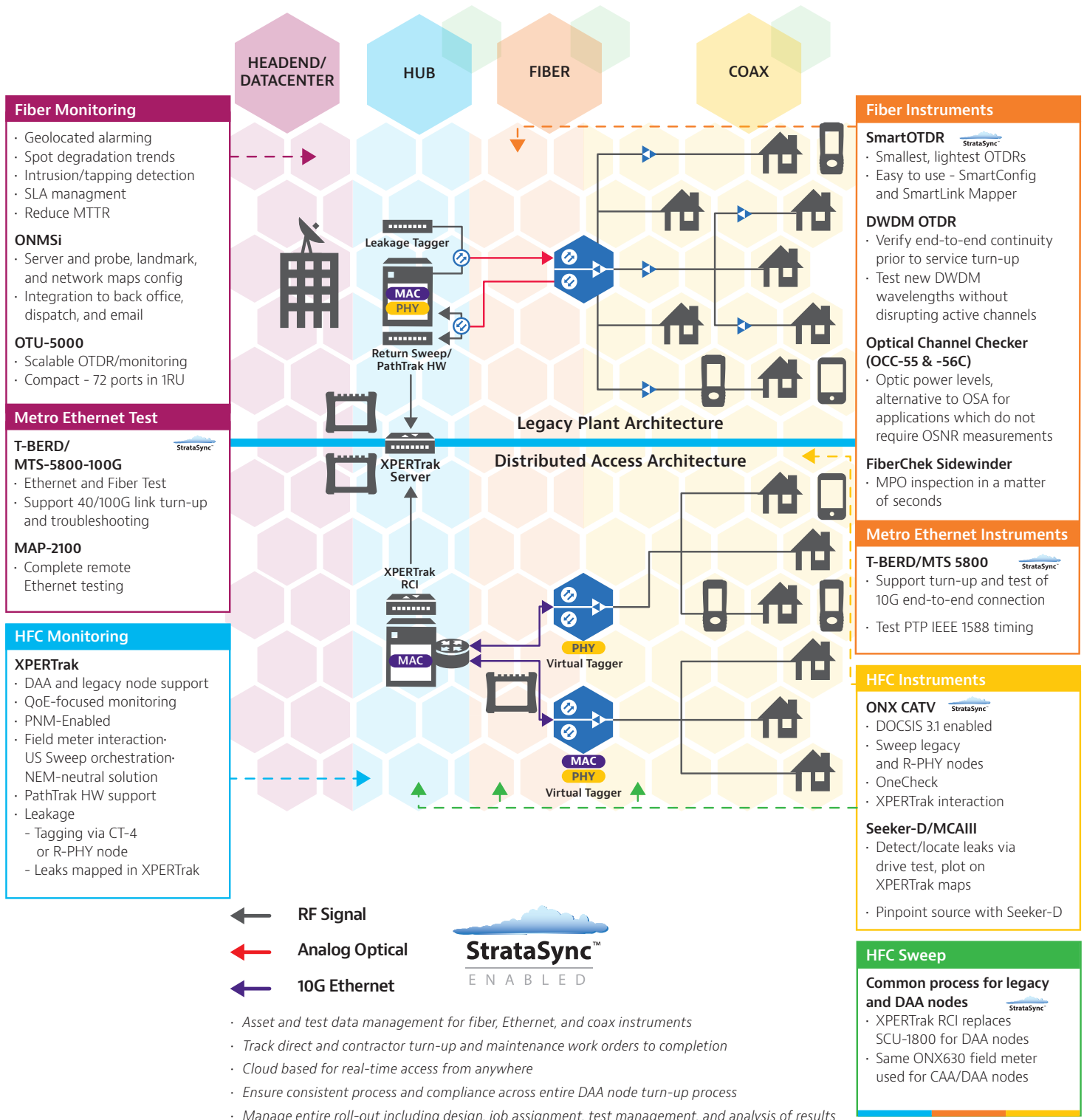
- Enables continuity of test with minimal disruption to existing processes
- Insulates technicians from the underlying complexities of mixed plant architectures
- Works equally well with all CMTS/CCAP/R-PHY CPE vendors gear
- Provides seamless transition to Remote PHY with vendor architecture-neutral approach

Features

- End to end coverage – complete DAA-ready portfolio available today from VIAVI
- Identical workflows for many tasks for legacy and DAA networks
- Scalable model to enable smooth staged rollout of DAA over many years
- Consistent system-wide network performance assessment, vendor neutral

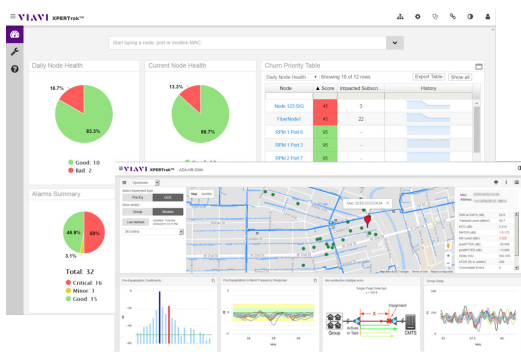
Applications

- Early pre-deployment evaluation of different DAA vendors gear
- Monitoring and maintaining HFC plant throughout DAA transition
- Proactive plant maintenance including sweep and leakage for legacy and DAA nodes alike
- Preparing plant for rollout of new services
- Verify fiber and fiber connection integrity before turning up service
- Test critical PTP timing, throughput and packet loss as part of service turn-up



Complete DAA-Ready Portfolio

HFC Monitoring – XPERTrak is a complete HFC monitoring and maintenance solution for all HFC systems regardless of underlying architecture. XPERTrak simplifies the DAA transition by presenting the technician the same user interface and workflow, whether the node is monitored by PathTrak hardware or leverages CMTS/CCAP or Remote PHY units as monitoring points.



Sweep – With over 20 years the industry standard, the VIAVI Stealth Sweep is now duplicated and improved for DAA by leveraging the Remote PHY Unit (RPU) as the new return sweep receiver, with XPERTrak serving in an orchestration role. The field instruments and workflows are identical for reverse sweep whether a node is a legacy or DAA node.



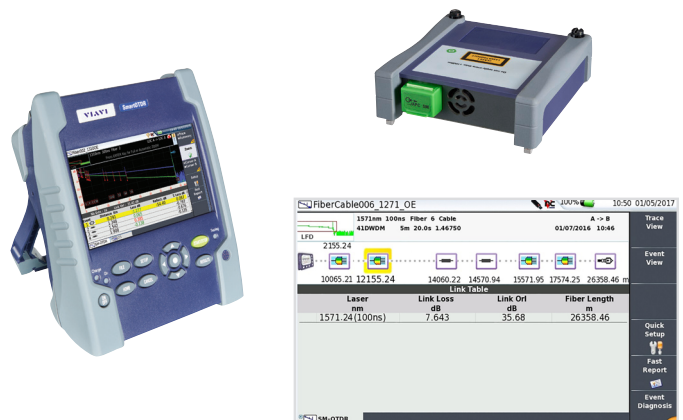
Field Instruments – In addition to being fully DOCSIS 3.1 capable, the OneExpert CATV sweeps using both legacy and virtualized DAA sweep processes. It supports automated fiber inspection scope and optical power meter accessories for techs who only have basic/occasional fiber test/inspection needs.



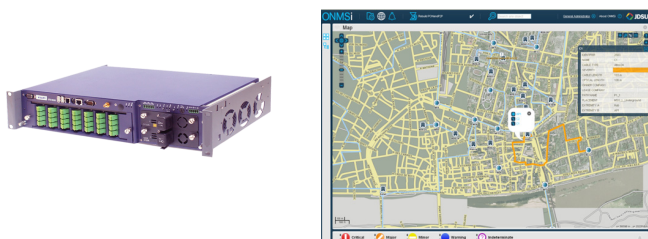
Leakage Detection – Detect plant leaks and overlay location and severity of each on XPERTrak maps. Leverages RPU as tagger enabling seamless transition to RPHY architectures.



Fiber Instruments – Smallest, lightest, most compact OTDRs available including DWDM test. Smart configurations simplify setup and Smart Link Mapper (SLM) simplified trace interpretation with icon-based display of a fiber link. Available as standalone instruments or modules for T-BERD/MTS Metro Ethernet instruments



Fiber Monitoring – Identify fault in headend/hub fiber feeds with geolocated alarms to speed MTTR. Avoid SLA penalties by spotting degradations via proactive monitoring or fixing faster through fault insight provided.



Fiber Inspection – Automated fiber inspection tools including MPO connectors to prevent dirty connections from impairing services.



Ethernet Test – Simple enough for installation use but capable enough for the master technician, the T-BERD series can validate DAA Ethernet connection turn-up including critical PTP timing and speed future optical link troubleshooting.



StrataSync – Manage assets and test data for both HFC, fiber, and Ethernet instruments in a single system. Simplify assignment and tracking of R-PHY turn-ups for direct and contractor workforce by managing fiber, coax, and Ethernet testing with StrataSync Workflow/Compliance.



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