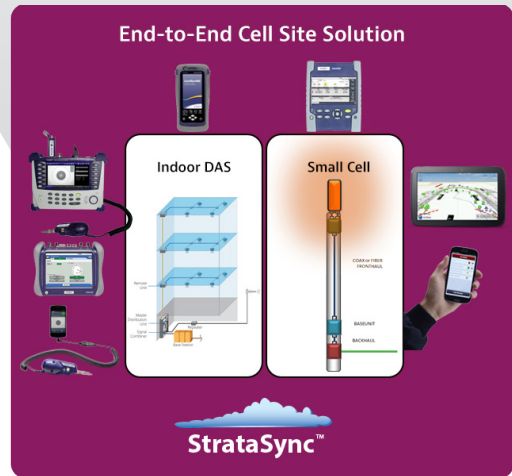


Comprehensive Solutions for HetNet Deployments

Workforce automation and empowerment



Increasingly, it takes HetNets to deliver the capacity and enhanced coverage needed to meet the staggering increases in bandwidth-hungry mobile apps, particularly in public venues and commercial buildings such as stadiums, shopping malls, airports, and enterprises. HetNet architectures vary significantly and use a wide variety of physical media for connectivity. This creates a complex environment which, if not tested, validated, managed, and optimized, can have a detrimental effect on an end user’s mobile experience and can significantly reduce ROI for the operator.

Viavi has been working closely with mobile service providers to create comprehensive test solutions for installing and maintaining HetNets. Our solutions cover almost every aspect of HetNet deployment and maintenance, from fiber installation to RF optimization and everything in between.

Key Benefits

- Reduce deployment costs and increase automation with end-to-end solutions
- Simplify and streamline complex HetNet deployments
- Eliminate costly delays in extracting and uploading results
- Increase accuracy and efficiency through streamlined workflows and greater visibility
- Eliminate unnecessary repeat site visits with Rubix™ cloud-based, real-time data post-processing

Key Features

- Automatic fiber and coax line testing using new StrataSync™ DAS features
- Integrated support for T-BERD and CellAdvisor
- Automatic test-configuration setup, user and asset management, test-data management, and work flow record management
- Cloud-based, real-time data post processing
- Simple and easy to use GUI clients

Applications

- HetNet deployments
- Indoor antenna validation reports
- RF walk-test data processing
- Network troubleshooting

	Deployment Step	Resource	Solutions
	Design and RF survey	RF engineer	IBWave CellAdvisor/scanner CW transmitter
	Installation	PM Construction crew Technicians	Design docs CellAdvisor Fiber/backhaul test
COMMISSIONING	Validation of DAS completion	PM Construction crew RF engineers	Sweep test report OTDR report PIM results
	Baseline measurement	Construction crew RF engineers	CW transmitter CellAdvisor
	DAS parameter normalization CW testing	RF engineers	CW transmitter CellAdvisor
	Maximize sensitivity	RF engineers	CW transmitter CellAdvisor
	RAN integration Pre-optimization testing	RF engineers Cell technician	TrueSite Matrix Rubix
	On-air optimization Acceptance	PM RF engineers	TrueSite Matrix Rubix

Steps for successfully deploying DAS, resources used, and solutions required

FTTA Certification

- SmartOTDR™— compact, easy, upgradeable OTDR for installing and troubleshooting FTTA networks
- SmartClass™ Fiber — a single handheld device that integrates all essential fiber test tools
- P5000i fiber microscope — an automated fiber inspection and analysis probe with pass/fail capabilities
- CWDM OTDR module for the T-BERD® platform — combines up to 8 CWDM wavelengths to trace individual wavelength routes in-service while locating network faults
- PowerChek™ — an innovative optical power meter that eliminates the need for a test lead



Backhaul Commissioning

- T-BERD® 5800 — handheld network testing for backhaul
- PacketPortal® and Ethernet service assurance — comprehensive, full life-cycle solutions for Ethernet service deployment including turn-up acceptance, SLA/performance monitoring and reporting, testing, and troubleshooting



Spectrum Analyzer and Sweep Test Solution

- CellAdvisor™/Spectrum Analyzer — a base station analyzer that safely maintains cell-site performance, expedites service, and minimizes tower climbs with unique RFoFiber™ capabilities
- StrataSync® features for DAS — cloud-enabled asset and test-data management streamlines complex deployments and commissioning projects



Real-Time RF Data Post Processing

- RANAdvisor™ PC — the industry's most customizable and scalable solution for optimizing wireless networks
- TrueSite™ — compact, discreet, and highly-portable optimization that lets engineers test in complex indoor environments using a single smartphone or tablet-based controller
- TrueSite Matrix — portable, Android-based multi-device software that controls up to six handheld devices and a single receiver
- Rubix® — native cloud-based post-processing solution that delivers real-time KPIs and reports without user intervention



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