



CAF PERFORMANCE TESTING

Highlights

- End-to-end testing solution with optional fully-managed services
- Open, standards-based approach
- Support across multiple access technologies
- Cloud-based software solution eliminates privacy concerns for end users
- Can be leveraged beyond CAF requirements to enhance user experience
- Optional end-to-end turnkey service simplifies and streamlines FCC Compliance

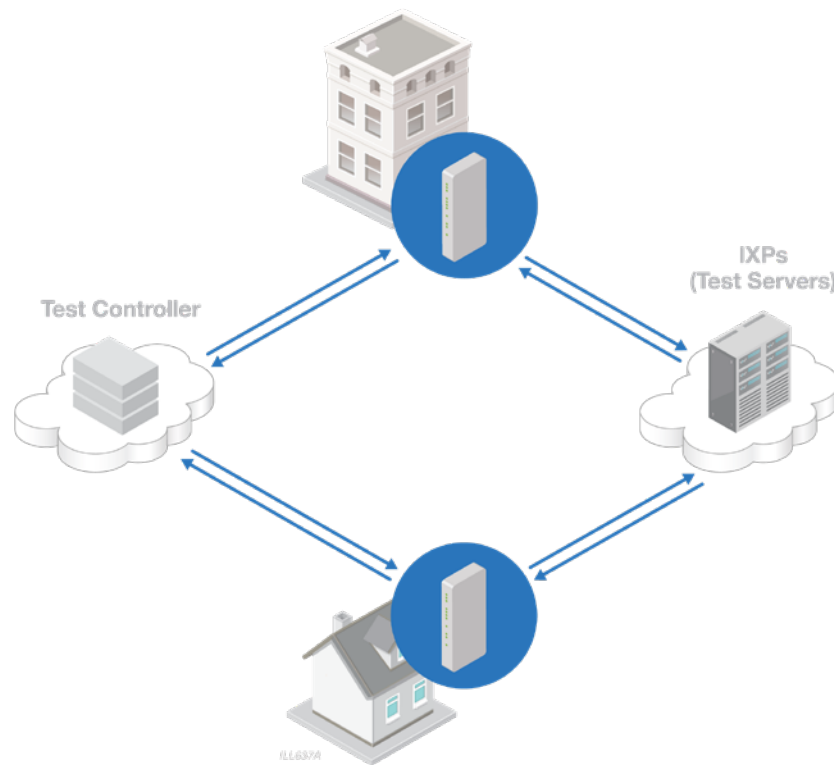
Overview

The ADTRAN Network Performance Testing solution helps service providers meet and manage FCC requirements without huge inconveniences or raising privacy concerns—all while offering enhanced data analytics to deliver an enhanced customer experience. The ADTRAN solution is a:

- Comprehensive, “zero-touch” solution that covers all aspects including automated test configuration and execution to collecting data to report generation and submission to the FCC
- Flexible, cloud-based software system accommodates multiple access technologies and supports CAF, Alternative Connect America Cost Model (A-CAM) and all broadband stimulus funding test requirements both now and in the future
- Non-intrusive and does not require additional “single-purpose” boxes sitting on the subscriber’s LAN, eliminating privacy concerns.

In addition, ADTRAN offers a “white-glove” fully-managed testing-as-a-service that takes care of all aspects of FCC compliance testing, report generation and submission, allowing service providers to focus on what they do best – deliver a great customer experience.

CAF PERFORMANCE TESTING



End-to-End Test Solution

ADTRAN Network Performance Testing is a comprehensive solution that takes care of each aspect of FCC compliance from automated test configuration and execution to collecting test data to report generation and submission to the FCC. The solution consists of:

- SmartRG Device Manager (Test Controller)
 - ◆ Cloud-based test controller software that automates programming, scheduling, retrieving and exporting test data
 - ◆ “Fire and forget” test approach minimizes manual errors and improves operational efficiency
 - ◆ Scalable, market-proven ACS that currently manages over 1.3 million endpoints globally
- SmartRG Gateways (Test Clients)
 - ◆ Portfolio of Wi-Fi 4 and Wi-Fi 5 xDSL, PON, Ethernet, DOCSIS and LTE residential gateways
 - ◆ Execute the upload, download and latency tests per FCC requirements
- Test Server-as-a-service
 - ◆ Cloud-based server-as-a-service that mirrors FCC mandated test server locations
 - ◆ Reduces administrative overhead for service providers by offering a lower-cost alternative
- Managed Testing Service
 - ◆ Fully-managed turn-key solution for network performance testing
 - ◆ Eliminates administrative burden related to FCC test compliance
 - ◆ Frees service provider staff to focus on subscriber experience

Key Features and Benefits

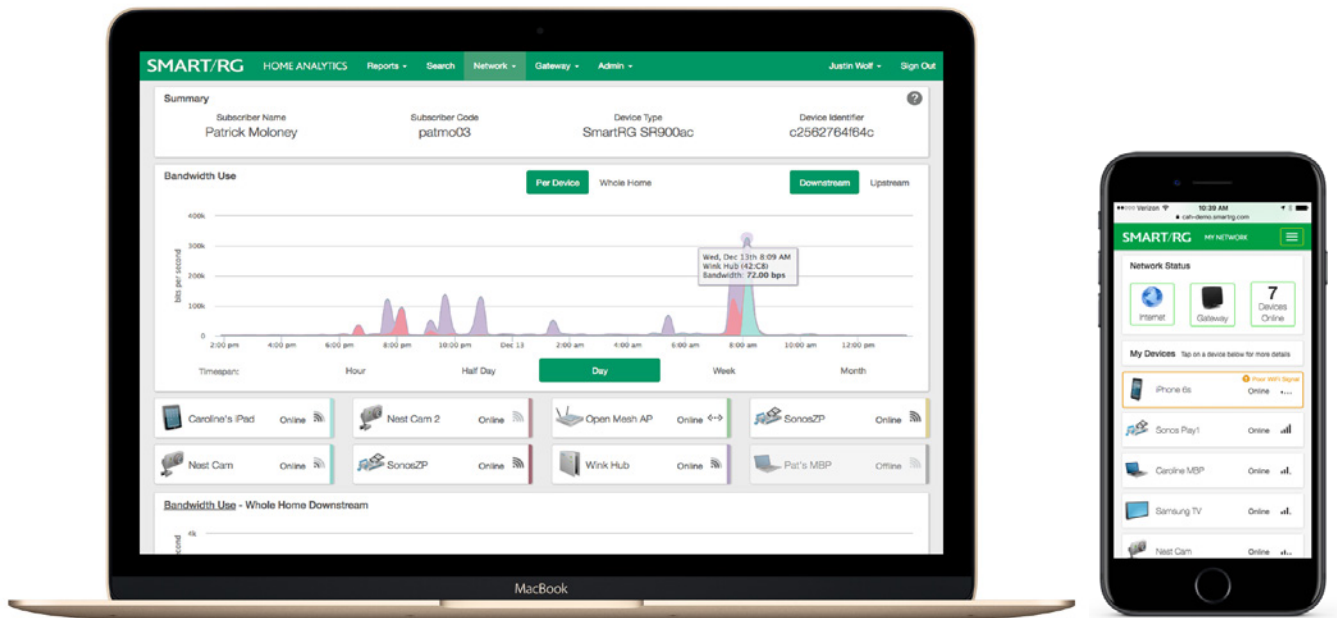
Complete	✓	End-to-end solution that includes test control software, clients, test server-as-a-service, and optional managed service
Flexible	✓	Software solution supports both current as well as future regulatory test requirements
Multiple Technologies	✓	Supports xDSL, Ethernet, DOCSIS, PON, LTE WAN
Standards-based	✓	Open solution that supports and extends TR-098/181, TR-143, and TR-069 standards
Subscriber Privacy	✓	Non-intrusive software solution does not require additional hardware within the subscriber's LAN
Subscriber Analytics	✓	Comprehensive device configuration, management and home analytics system provides functionality beyond CAF requirements
Managed Service	✓	Optional fully-managed testing service available

Turnkey Fully-Managed Service

ADTRAN also offers a one-stop, fully-managed testing-as-a-service that is a turnkey service designed to offload the entire testing process. The ADTRAN managed testing solution takes care of each aspect of FCC regulatory compliance from initiating the test to collecting data to report creation and submission to the FCC in the format needed. This “white-glove option” offers service providers peace of mind from having to deal with regulatory burdens, allowing them to focus on providing a superior subscriber experience. The fully-managed testing-as-a-service includes the cloud-hosted SmartRG Device Manager test controller software, test clients and the test servers, and is available as a cost-effective subscription service.

Beyond CAF Testing

The Network Performance Testing (NPT) test controller software is a part of the SmartRG Device Manager (DM) and Smart Home Analytics (SHA) system - a market proven solution that currently manages millions of end-points every month. Hosted in the cloud, the SmartRG DM and SHA systems offer automated configuration of subscriber devices, as well as providing comprehensive analytics to proactively identify and resolve issues, and delivery a great subscriber experience.





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AD10913B

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