Fact Sheet

Advanced Technology & Solutions Center

Field and interoperability verification and testing in a secure laboratory environment

Fujitsu ATSC Fast Facts
- Custom testing from component to service level
- Separate and partitioned lab, office and meeting space
- Highly secure remote VPN access for customers and partners
- Highly secure, access-controlled facility with 24-hour surveillance
- Replicates real-world network topologies
- Multivendor testing environment
- Dedicated, protected equipment testing spaces
- Multicertified, independent and dedicated technical staff
- Customizable test plans

Introduction
Integrating, testing and field qualifying equipment all present important challenges. Multivendor networks and diverse topologies are the new normal, together with the added demand for legacy technology support. Verifying equipment for performance, reliability, standards conformance and interoperability demands engineering and technical staff with hard-to-find expertise. Facilities and equipment configured to mirror field-deployment scenarios are also essential.

Fortunately, top-quality field and interoperability verification services are available to expedite time to revenue and enable service providers to deploy with confidence.

If you are performing vendor product qualification in your own labs, or if you require vendors to meet technical acceptance criteria, the Fujitsu Advanced Technology & Solutions Center (ATSC) solves the technical and operational challenges associated with testing complex, multilayer networks.

Responsive, Scalable Testing Capability
The ATSC is a secure, independent state-of-the-art testing facility providing a large Fujitsu reference network, available for our customers to perform testing on platforms manufactured by any supplier. This facility speeds up the necessary field qualification prior to deployment, resulting in faster time to market for new service offerings.

Vendor-Agnostic Methodology
The lab is located in Richardson, TX, set apart from other facilities by stringent security measures to protect customer confidentiality. The lab follows a strictly vendor-agnostic methodology, where any optical vendor can submit equipment for testing in a protected environment. From firewalls enforcing network partitions, to staff assignments that prohibit technicians from simultaneously testing competing products, the lab ensures that product confidentiality is protected.

Testing activity in the ATSC positions our customers to reduce deployment times and validate that video and data communications are reliable. With more than 30 years of innovative research and development experience and an unmatched number of optical patents, Fujitsu is uniquely positioned to host such a lab.

With the support of the expert engineering staff at the ATSC, carriers can be confident of thorough testing and verification that helps ensure successful deployment in their actual environments.
Comprehensive Testing Scope

Real-World Network Scenarios, Accurately Replicated
ATSC engineers designed the ATSC to replicate the different and evolving network topologies encountered in the field, such as DCI, metro, regional, long-haul and access. The ATSC supports the latest transport technologies, including DWDM, Ethernet, packet, DCI and OTN, at next-generation speeds including 40G, 100G, 200G, 400G 600G and higher.

Link-Level Connectivity
■ Basic traffic validation between direct-connected facilities
■ Command-provisioning compatibility testing
■ Performance monitoring and TCA behavior

Service-Level Performance
■ End-to-end client service traffic validation through multiple interconnections
■ Fault and alarm transfer performance testing
■ Protection switch performance validation
■ Vendor-agnostic OSS solution building
■ Management connectivity verification

Network-Level Connectivity
■ Client facility network encapsulation testing
■ Network-to-network traffic validation
■ Fault and alarm transfer testing
■ Management connectivity verification
■ OSMINE test support
■ Multivendor EMS and NMS software adapter development

Interoperability Testing and Product/Lab Certification
■ Able to offload recourse issue during peak testing times
■ Third-party product certification
■ Open product certification
■ Vendor product qualification on behalf of customer

Secure Remote-Access VPN Environment
Our exclusive Remote Access VPN Environment (RAVE) provides a secure, dedicated multivendor software testing environment. RAVE can be used for multivendor hardware and software demonstrations as well as for testing software with Fujitsu FLASHWAVE® and 1FINITY™ hardware platforms as well as equipment from other vendors.

RAVE offers a standard network/circuit configuration that supports testing of containerized software functionality in five key areas:
■ Inventory management.
■ Fulfillment, provisioning and activation
■ Network and service assurance
■ Planning and engineering
■ Open-source initiatives

End-to-End Optical Integration
The Fujitsu ATSC is a resource that can help network operators to handle difficult or hard-to-schedule tests. We ensure interoperability of the entire optical solution before it is turned over for final evaluation or deployment. The ATSC testing approach includes a custom test plan jointly developed with each customer team, which sets forth test scenarios, equipment, use cases, and scripts that address your unique business requirements.