

Adtell Integration

Managing your network so you don't have to ...

Integration, Testing, Fusion Splicing, Fiber
Characterization

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Network Services, When You Need Them, How You Need Them

RADIUS is a comprehensive suite of network enabling professional services from Adtell Integration, an industry leader with over 30 years test, measurement, and integration/installation experience. Adtell Integration's network optimization and performance monitoring services (RADIUS), non-intrusively support all network technologies, while the RADIUS Integration and Project Management team assists with Adds / Moves / Changes or Network builds. RADIUS's flexibility enables us to provide you with the level of support you need, whether it be for a single project or a managed service on a 24/7 basis, RADIUS is there for you.

RADIUS works with you to provide only those services that you need, when you need them. We peacefully co-exist with your existing systems and business partners. Our goal is to assist your staff in being better informed, equipped and prepared to meet emerging situations, so they can be addressed quickly and easily, before they become mission critical.

Our engineering staff provides the expertise, objectivity and dependability that you've come to rely. Together, our engineers work with your staff to provide the insight, analysis maintenance needed to ensure that your network is operating at peak performance.

Save Time and Money, While Improving Network Operations

In any organization, time is money. The reality is your company is losing money every time your network is not performing at its optimum level. An inefficient network means that you're not providing your customers with the service levels that they require to meet their business goals. RADIUS's network diagnostics save time and money by pinpointing the source of a problem, especially when it is not obvious, all on a 24/7 basis. Whether it's a fiber cut that requires immediate attention or a network's traffic flow showing abnormal trends, Adtell Integration's RADIUS Team is there to provide the answers you need. RADIUS's performance monitoring services help you solve complex problems when time to resolution is most critical. All of our services are flexible and can be provided to you for a one-time project or as a continuous 24/7 managed service.

By assisting your staff with the monitoring, testing and maintenance of the network, RADIUS helps improve the efficiency of your staff, allowing them to concentrate on the restoration of services or working with their customers as the events require. As experts in test and measurement, Adtell Integrations's RADIUS Team stays up to date on all the latest technologies, developing the services that you require in order to meet the needs of your network.

Using RADIUS's Network Optimization Services you are assured of faster identification of any network problem, ensuring the survivability and sustainability of your network. Faster problem identification saves you time, money and your company's reputation. RADIUS's solutions allow you to improve your network's operation in a wide variety of ways, from characterization of both lit and dark fiber through the provisioning of services.

RADIUS's non-intrusive Performance Monitoring Services save you money by proactively providing a clear picture of your network's activity. By knowing exactly what's happening on the network, you can accurately forecast how and when to make upgrades to your network.

Network Optimization Services:

The need to deliver new services, on-time and on-budget, while optimizing your existing network has never been greater. Working with your staff, RADIUS's Network Optimization Services enable you to reduce your time to market, lower equipment costs, reduce network downtime and plan for future upgrades. RADIUS offers a wide variety of Network Optimization Services including, but not limited to Fiber Characterization, Trace Analysis and Gigabit Ethernet Testing.

Fiber Characterization:

RADIUS's Fiber Characterization Service is a series of tests taken on a fiber optic span to determine the integrity of the fiber, installation practices and performance of a desired transmission rate and/or Service. Tests that can be performed include: OTDR - Multiple wavelengths, Bi-directional; Power Meter and Light Source - Multiple wavelengths, Bi-directional; Chromatic Dispersion - 10nm wavelength increments, Uni-directional; Polarization Mode Dispersion - Single wavelength, Uni-directional; Optical Return Loss - Single wavelength, both directions.

RADIUS's Fiber Characterization team is staffed to be able to respond to your needs on a timely basis. Analysis of the acquired data and corresponding reports are provided almost immediately after the testing is completed. The RADIUS team has the expertise to provide real-time, on-site corrective action when problems are identified. For example, if the fiber plant under test has any deficiencies, the RADIUS team is often able to assist you with immediate resolution by either dealing with the issue directly or providing root cause analysis. The result is an optimized network without having to redeploy crews at a later date, adding to the time needed for project completion. Typical problems resolved on-site by RADIUS engineers include Reflectance Optimization and Loss Optimization. The number one failure or marginal specification in the field is Optical Return Loss (ORL). Adtell Integrations engineers can work with you to isolate and correct or improve the major contributors to ORL while on-site.

Trace Analysis:

RADIUS's Trace Analysis Service provides an analysis of all your OTDR traces and quickly provides a clear, concise report detailing all necessary OTDR trace data to properly commission your fiber optic cables. This is especially important when conducting dual wavelength, bi-directional testing of fiber optic cables that results in hundreds or thousands of OTDR trace signatures. Trace analysis can be conducted on any size cable.

Spectral Analysis:

RADIUS's Spectral Analysis Service provides an analysis of your DWDM network that enables you to optimize the operation, upgrade and performance of your DWDM system, ensuring maximum performance and reliability. RADIUS takes into consideration such parameters as Optical Signal to Noise Ratio, System Gain Tilt and Total Power in order to optimize the system and avoid potential non-linearities.

SONET/SDH Testing:

SONET/SDH rings are still a dynamic design implemented in today's fiber rings to provide redundancy and diversity. However, the proper test times and required equipment can be quite costly, both in capital and operational expenses. RADIUS's SONET/SDH Testing Service can help alleviate this situation by providing the equipment, engineers and time required to properly test and exercise your network. Our proactive approach saves you time and money and ensures reliable service.

Gigabit Ethernet Testing:

Today, 10/100 Mbps Ethernet networks power over 90% of the world's Enterprise LANs. With the advent of Gigabit data rates, new applications include interconnecting LANs, providing high speed Internet connections, MAN backbone and access technology, SAN server interconnect and server aggregation in Campus Area Networking or Data Center environments. These applications require more extensive testing to be performed at the time of installation. Proper testing and characterization ensure that the vast amounts of data transported reach their destination successfully and reliably. RADIUS's Gigabit Ethernet testing service follows the Internet Society's "RFC2544 Benchmarking Methodology for Network Interconnect Devices" to provide such tests as Throughput, Frame Loss and Latency, and Traffic generation/monitoring. In addition, Adtell Integrations provides both full global and channel statistics to facilitate fast, efficient troubleshooting and maintenance.

For Installation and Commissioning engagements, RADIUS engineers conduct active tests on such things as Continuity, Configuration, Throughput, Frame Loss, Back-to-Back Frames and Latency. For Maintenance and Troubleshooting engagements, RADIUS engineers non-intrusively monitor the network, observing the nature of the traffic on the network to gain important insights into the cause of the problem.

Performance Monitoring Services:

RADIUS's Performance Monitoring Services encompass the equipment, resources and highly skilled staff necessary to help you understand, analyze and optimize your LAN,WAN or ATM network fast, with minimal interruption to your everyday operations. RADIUS engineers focus on providing a broad spectrum of objective analyses ranging from, but not limited to capacity planning, network configuration evaluations, network migration and application deployment assessments, network optimization audits and troubleshooting. Performance Monitoring services are customized to fit your exact needs. Performance Monitoring Services available include:

Capacity Planning:

Utilizing JDSU's monitoring equipment; RADIUS's capacity planning services can provide you with the historical trend data necessary to make informed decisions about your network. Our engineers will work with you to analyze your network's trends so that you can accurately forecast the build-out of your network. JDSU's equipment has been independently lab certified as the provider of the most granular traffic flow data available on the market.

Corrective Audits:

Designed to address your concerns when your network is experiencing unexplainable behavior, a Corrective Audit utilizing JDSU's powerful, proactive network monitoring solution can provide the answers that you need to get your network back on track. Real-time troubleshooting, superior data granularity, trend analysis and reporting provide you with the information needed to correct almost any type of network problem.

Network Migration Assessments:

Is your company planning to deploy a new business critical application? Are you confident that the application will perform as needed? Let Adtell Integration show you the pros, cons, and potential "show stoppers" that could impact deployment. We provide strategies that will enable you to proceed with confidence.

Network Optimization Audits:

Do you need to verify that your WAN carrier is providing the agreed upon level of QoS? Do you need to identify the areas of your organization that are reducing the QoS you can deliver? RADIUS network optimization audits can thoroughly analyze the data flow of your network in order to suggest optimization strategies, set-up your base-lining and define relevant QoS indicators.

Training Services:

As your partner in fiber optic testing, FiberOptic.com / Adtell Integration understands how important it is that your staff remains up-to-date on the latest network technologies and how to test them. To help you achieve this goal, FiberOptic.com / Adtell Integration offers a variety of training courses that can be customized to meet your needs. Training can take place via WebEX, at FiberOptic.com's 1,600 sq ft fiber optic training room, or at a location of your choice for increased convenience and reduced downtime.

When getting training via WebEx, you will receive one-on-one attention from one of RADIUS's engineers trained specifically in the area for which you desire training.

Training at FiberOptic.com / Adtell Integration's facilities is a cost effective way of providing training when only a few members of your staff require training or when space is not available at your facility for on-site training.

When conducting on-site training at a facility of your choice, our staff works with you to customize the course material to meet the needs of your staff. Discussions can be tailored to your specific applications. Your staff learns in their own environment, they spend less time away of their work and it allows them to apply what they have learned more quickly.

Engineering & Design Services:

In today's competitive environment, your network must be cost effective, reliable and expandable to meet today's business requirements, while guaranteeing a roadmap for future needs without wholesale capital expenditure requirements.

Be it the latest cutting edge technologies or traditional ones, RADIUS's Network Engineering and Design Services can help you analyze, design, deploy, test, manage and support your network. We help you eliminate your networking troubles before they begin so that you can focus on other important business matters like meeting your implementation milestones and timelines.

Our engineers have in-depth expertise in network architecture, Virtual Private Networks (VPN) technology, wireless, security, network integration, business continuity planning and operational support. We bring the future to the present.

Network Consulting:

With the extensive network experience you need, Adtell Integration's RADIUS Team provides you with key insight and analysis you can count on. RADIUS can assist you with everything from Security Consulting to IP Telephony Network Assessment to LAN/WAN Planning and Design. We identify the security, performance, and sustainability needs of the network to meet your business requirements.

Network Design:

RADIUS only employs certified network design engineers with years of experience. They make the most complicated networking problems seem simple, with robust and effective solutions. We'll work with you to develop solutions that expand your reach, enable new market opportunities, deliver superior end-user experiences and scale for the future.

Network Setup and Installation:

RADIUS's Network Setup and Installation Services can provide you with the insight that you need to build or expand your network. We help you chose the right design, technology and hardware that suits your business needs and is within your Capital Expenditure budget requirements. We work with you from network setup through maintenance and support.

Network Upgrade and Data Migration:

RADIUS helps you upgrade to the latest technologies with minimal overhead. Our certified professionals are specially trained for network upgrade and data migration services. We make sure the process is fast, smooth and adds value to the bottom-line of your business.

Network Management:

Our Network Management Services provide ongoing network monitoring, problem resolution and system administration services for your voice and/or data networks. RADIUS's flexibility let's you choose the services you need to augment your networking staff. RADIUS's services complement other industry testing and monitoring tools, thereby preserving your prior investments. With the advanced processes, tools and methodologies from RADIUS, you can experience support services at a level that matches your business requirements. We will work with you to establish Service Level Agreements that define your expected levels of service.

Network Test Planning:

The importance of network test plans is nothing less than that of a network design. Your network is all about reliability and the only way you can make sure your network is reliable is by developing great test plans. As a world leader in network testing equipment, RADIUS engineers can work with you to develop world class test plans.

Field Engineering & Installation Services:

Whether your fusion splicing project is around the corner or around the world, we're interested in having a discussion to see how our involvement may bring value to your final objectives. We've worked in central offices, downtown districts, and even in the Amazon rain forest, so if the job needs to get done, we'll be there!

Our engineers have in-depth expertise in network architecture, Virtual Private Networks (VPN) technology, wireless, security, network integration, business continuity planning and operational support. We bring the future to the present.

Fusion Splicing:

With extensive experience and state-of-the-art fusion splicing equipment, Adtell Integration's RADIUS Team provides individuals and insight you can count on. RADIUS can assist you with everything from aerial and underground to premise splicing anywhere in the United State or abroad. We identify the security, performance, and sustainability needs of the project to meet your business requirements.

Connectivity / Installation:

Fiber optic terminations come in many varieties, so working with an experienced crew is paramount to being able to adapt to any environment the situation presents. Whatever your fiber project, 24 count fiber running into a single location or a multiple entry application with thousands of terminations like a data center, we'll make sure everything comes together as planned.

Setup and Installation Services:

RADIUS's Network Setup and Installation Services can provide the resources to build or expand your network. We help you chose the right design, technology and hardware that suits your business needs.

- ONT and ONU placement for FTTP projects
- Premise wiring for FTTP projects
- Emergency Maintenance agreements
- Network Audit Services (what do we have in the field?...)

Conclusion:

RADIUS can provide you with a wide array of services to help you ensure that your network is operating at peak performance, enabling you to save time and money. But most importantly, we're flexible and will work with you and your partners in whatever capacity that you need. We can do as much or as little as you need.

To Learn More:

To learn more about Adtell Integration's RADIUS suite of professional services, please contact us at 215-499-8959 or visit us online at www.AdtellIntegration.com/