Network WAN optimisation testing from Evolved

As businesses search for more efficient and cost effective technology solutions to meet their strategic objectives there is increased pressure on IT departments to optimise their existing infrastructure. This has resulted in an increasing trend of organisations adopting a more holistic approach to their communications needs through installing a single IP based unified network.

The demand for always on connectivity across mobile, data, voice and video applications is one of the main reasons why network optimisation is taking on more importance in today's converged environment.

Before any IT infrastructure can be modified, expanded or moved it is essential that diagnosis tests are carried out to identify the current efficiency and performance of the network.

Everything you need

In order to remain profitable in a highly competitive market Evolved looks to provide new services that they can offer to customers. Before these services can be adopted it is often essential that network performance tests are undertaken. Evolved are able to offer a complete field testing solution that combines all the apparent interfaces and technologies from SDH and PDH testing to ATM and IP, GSMLeased Line, X21 & E1 testing and UMTS testing.

All our testing equipment allows us to analyze both signals out and back at the same time, across all interfaces. This process highlights any issues quicker and more efficiently, reducing network downtime and disruption.
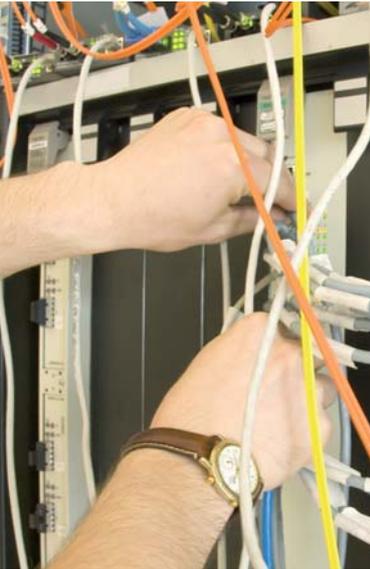
Optimising your network infrastructure

Because Evolved have invested in the latest testing equipment, all of our field support professionals are fully equipped to deal with a wide and diverse range of network technologies and protocols. This saves valuable time, resource and costs when it comes to testing connectivity, performance measurement, monitoring and load testing.

Evolved's comprehensive approach delivers a unique ability to test, maintain and optimise existing networks while they are in operation. Due to advances in technology Evolved also provides an unsurpassed upgrade path to cater for the changing needs of a business.

Service overview

> Test installations at the provisioning stage
> Test physical lines
> Emulate network traffic
> Carry out load testing
> Performance measurement
> Voice readiness audits
> Reporting tools

Reduce costs and increase operational efficiency

Having to revisit a field site due to inadequate testing equipment or inexperienced support staff is the quickest way to lose money and customer confidence. Evolved has the infrastructure in place to ensure quality of service which in turn provides increased profitability and greater opportunities for customers.
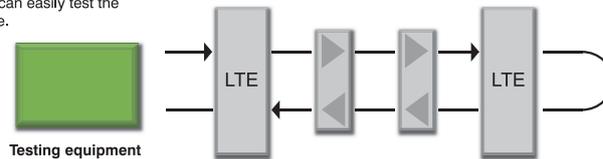
At a glance – technical specification

> E1, E3, SDH (STM-1/-4)

> STM-16, E4 (future)

> Alarm and error monitoring

> Overhead byte analysis

> Mapping and de-mapping

> BER testing

> Ethernet 10/100/1000

> Traffic generation and analysis

> Automated RFC 2544 test

> Network monitoring

> V-series data interfaces (X21)

Technologies
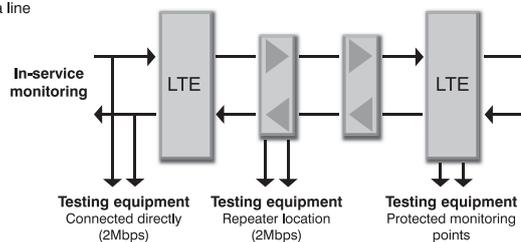
> GSM

> GPRS/EDGE

> UMTS

> ATM and IP testing

Out-of-service installation testing
By looping back a test signal from the testing equipment at the far end, you can easily test the quality of a communication line.

Testing equipment

In-service troubleshooting and analysis
To locate problems on the communication path, it's essential to monitor both directions of a line simultaneously. Everything needs to run smoothly both ways to ensure optimal communication.

In-service monitoring

Testing equipment
Connected directly
(2Mbps)

Testing equipment
Repeater location
(2Mbps)

Testing equipment
Protected monitoring
points

Signal analysis
With simultaneous, bi-directional monitoring of a line, you can use the testing equipment protocol decode options to analyze network signaling.

Signaling analysis

Testing equipment

For more information please contact us today:

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