

StableNet Case Study

Your IT enables all the revenue generating processes within your organization.

Well-performing IT-systems are crucial to your organization's business efficiency.

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Case Study - WAN MAN/Management

- Managing WAN/MAN networks effectively with SLAs
- Active and Passive Performance Measurement
- Automated Fault Detection and Alarming
- Reporting and Trending



Optimized Networks

StableNet Solutions

Case Study: WAN/MAN

SIEMENS

MAN/WAN Management

Within the context of a datacenter consolidation project at Siemens Division Automation & Drivers during 2003/2004, one of the major tasks was to design, build and operate a Metropolitan Area Network.

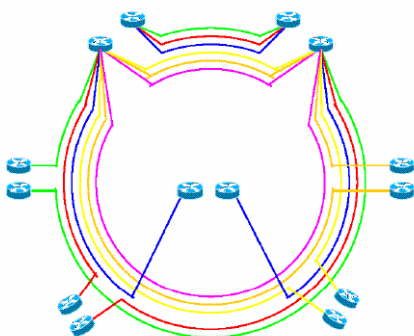
The Siemens Requirements

During the definition phase of the whole project it was decided to define functionality and services of the solution as well as of the operational processes using a Service Level Agreement. The approach taken was the result of longstanding experiences with SLA Management in IT-projects with many customers.

Siemens required to have access to methods to identify SLA violations quickly and have the option to avoid such situations. The essential statements about SLA fulfillment required the following measurements:

- Delay/Accessibility: TCP Connect with evaluation of accessibility and delay from network components, in addition to application of the Cisco Service AssuranceAgents (SAA) on the network components. These measurements are setup against selected network components and important servers of the IT-Infrastructure (Domain- Controllers).
- Downtime/Availability: TCP-Connect
- Bandwidth Utilization of the 3 zones: SNMP LAN MIB 2

The A&D division of the Siemens AG put a redundant Metropolitan Area Network (MAN) into operation in 2004. The topology is shown below:



Foundation of this MAN is a double ring build with Gigabit Ethernet Technology, connecting all major sites of A&D in southern Germany.

The Network Monitoring System

The relevant components for the monitoring and the importance of the reported monitoring values differ according to the focus group. One focus group are the controllers of the contractually fixed properties, another one are the service providers, operating the infrastructure. The SLA Monitoring Infrastructure should be capable of providing data for both focus groups.

The controllers continuously need evidence of coverage of the contracted values. The service providers need detailed information, to assess the „health“ of components and to be able to proactively handle quality problems, before the service quality for the users goes down.

The Solution

StableNet PME offered the required functionality and was designed for MAN monitoring. It was deployed with one Measurement Agent per site.

End-to-End Delay measurements of the links are used to measure the availability. Bandwidth and load measurement require reading out of internal information of network components. The mechanism for reading those values (Simple Network Management Protocol), as well as the meaning of the underlying values is defined in a vendor neutral standard (e.g. Remote Monitoring „LAN MIB 2“).

With Cisco SAA (Service Assurance Agent) technology very wide spread means are available to use the network components themselves to check accessibility of other components.

A specific product component of StableNet: EEM (Event & Error Management) detects violations of thresholds of all StableNet agents on all sites and sends a notification to the central network management event console. From there the notification is forwarded to a „round the clock“ support service.

With StableNet, Siemens is able to operate the WAN/MAN economically in an SLA-oriented mode with adequate measurement, control and alarming functionality.



Infosim StableNet

About

About Infosim

Infosim is internationally recognized as a company at the forefront of network performance management and optimization. Superior technology, products and an unrivalled commitment to innovation, have culminated in a long standing reputation of excellence for quality and performance. As a privately owned cooperation, Infosim quickly developed into a technology leader in the OSS market. Today, many world leading enterprises like Siemens or German Telekom rely on Infosim technology.

Based on the latest scientific results Infosim develops efficient and reliable solutions for the planning, the management and the optimization of communication networks. All our efforts aim at providing our customers with a perfectly adjusted, absolutely reliable management solution for their IT. Therefore Infosim has developed a broad range of services: from the optimization of existing networks to the installation of a completely new network with all necessary hardware and software components - whatever you need, we make it possible!

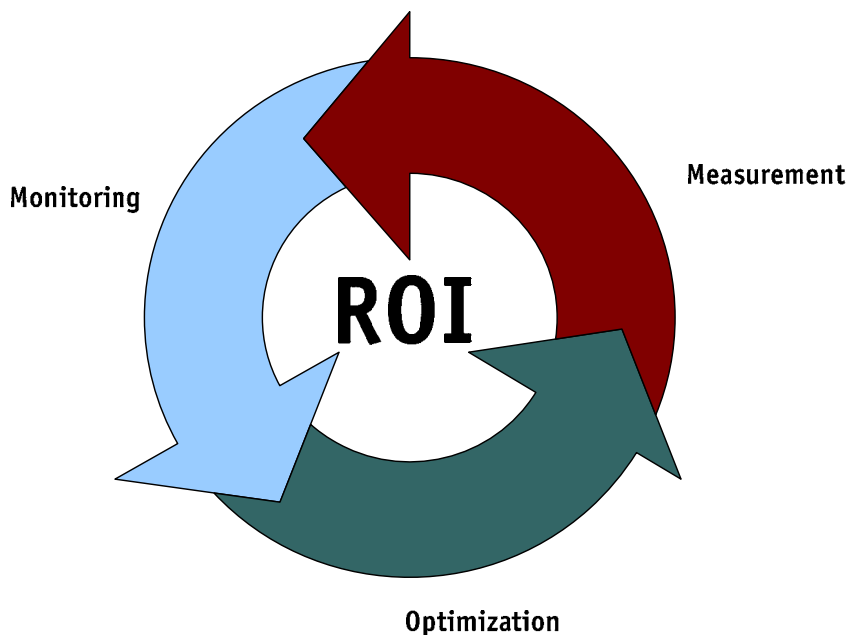
About StableNet

Supported by our StableNet® software suite and a large number of service components, Infosim facilitates an optimal utilization of your network's capacity - at the highest possible level of stability. The Infosim solutions integrate seamlessly into existing network management systems, no further changes of hardware or software are necessary.

Innovative technology guarantee smooth and stable network operation. Our intelligent software effectuates an entirely flexible and steady flow of traffic. Bottlenecks are localized and eliminated far in advance, so that link overload and connection loss can be avoided. Network availabilities of over 99,99% are now attainable. This does not only lead to an improvement of network efficiency but also to a reduction of administrative costs.

Due to its modular structure the StableNet® software suite enables an integrated network management; all relevant administrative tasks can now be monitored and controlled by means of a clear graphical user interface.

With the StableNet® software suite and state-of-the-art service components Infosim is setting up new standards in networking technology.



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