

Basen

T-Mobile CZ is part of **Deutsche Telekom** with **six million customers**

BaseN enables T-Mobile's **Ethernet**, VMware and virtual hosting

BaseN and offers an **IP VPN data transmission** service

Building solid customer trust

BaseN offers accurate and timely performance feedback to T-Mobile customers

T-Mobile assembles the latest technology ranging from basic voice and data to complex virtual private networks and managed data center services. BaseN provides T-Mobile foundations for performance and status monitoring of data services, of VIP care and of non-telco devices.

T-Mobile Ethernet service helps customers to meet the growing demand for ethernet transport technology in a flexible and cost effective matter. This may be within a metropolitan environment or even where customers are looking to take raw bandwidth between their off-net sites over long distances with Ethernet interfaces instead of traditional Leased Line services.

T-Mobile Virtual Hosting enables organizations to outsource computing equipment and maintenance. This allows customers to purchase computing units that fit current needs and that can easily scale in the future. Customers can either have single Virtual Private Servers (VPS) or a whole Virtual Hosting Environment (VHE). VHE contains a pool of above mentioned resources and a number of Virtual Machines. T-Mobile CZ Virtual Hosting relies on the VMWare vSphere solution.

WHAT

- Migrating multiple existing solutions from different monitoring systems into one
- Data collection through PE switches and Customer Edge (CE)
- Providing real-time measurements of network availability and performance indicators to T-Mobile customers

WHY

- Fast incident response and issue management system for the Network Operations Center (NOC)
- Enabling T-Mobile to offer performance monitoring as optional,value-adding service
- Provide T-Mobile with a foundation to develop new services

HOW

- BaseN obtains data displaying it as easily understandable graphs in real-time to T-Mobile and their
- end customers
- Rapid and flexible deployment through BaseN's SaaS (Software-as-a-Service) business model

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High levels of autodiscovery and enriched data





A high level of auto-discovery is expected from BaseN - T-Mobile gives BaseN only the customer IDs.

BaseN builds inventory and checks for changes regularly to discover new virtual machines etc.

The method of retrieving inventory and statistics is via APIs. The APIs, specifically the vSphere API for the statistics, taps into the database (DB). One of the important goals of the BaseN implementation was the preservation of resources (minimize impact on the vCenter and DB).

APIs needed are vCloud Director vCloud API (inventory) and vCenter vSphere API (statistics) Inventory is created by asking the vCloud Director via vCloud API. The performance statistics of Virtual Machines is obtained from vCenter via vSphere API.

T-Mobile selected BaseN because it is cost-effective, scalable, flexible and the best fit to T-Mobile needs. There is also a strong synergy because T-Mobile end customers already have other services that are monitored by BaseN.

BaseN additionally enriched the monitoring by including other T-Mobile virtual elements like Hosting Center Network Interfaces. VHE network statistics are special to BaseN's implementation at T-Mobile. BaseN system proved to be flexible enough for quick adjusting to heterogeneous reading while giving T-Mobile customers flexible and unified outputs. All that without compromising reliability or scalability.

For more information visit www.basen.net

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