

Customer:



Industry:

Metropolitan area network

Challenge:

- ▶ 10Gbps backbone data network
- ▶ 150 km of optical lines
- ▶ Connection to the internet using free independent ISPs
- ▶ A total of 80 employees
- ▶ Administration of about 5000 PCs in hundred organizations
- ▶ Responsibility for the operation and security of large data network

Solution:

- ▶ Backbone elements Cisco Catalyst 6500 switches supporting NetFlow
- ▶ Flowmon Collector R5-6000 Pro
- ▶ Flowmon ADS Business

Benefits:

- ▶ Basis for capacity planning of data network and connectivity of individual organizations
- ▶ Teamwork and task delegation
- ▶ Quick problem isolation on the level of configuration, data network, application
- ▶ Proof of service quality and availability
- ▶ Automatic incident and anomaly detection
- ▶ Support for regulatory compliance
- ▶ Complete operation history for several months with the possibility of tracking trends and analyzing

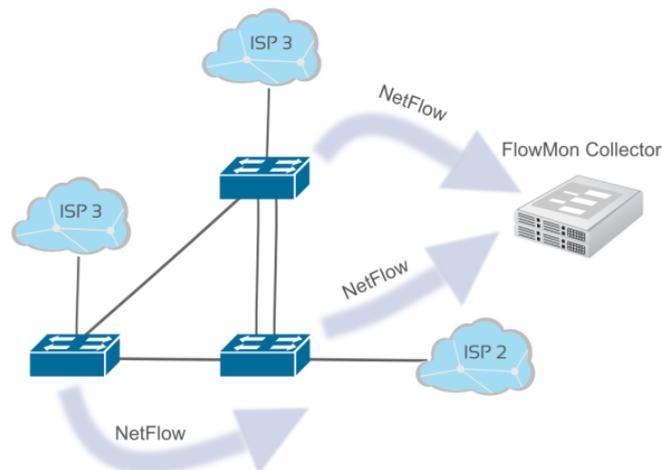
ICT administration of city Pilsen is an organization established by the Statutory City Of Pilsen providing comprehensive services in the field of information technology for organizations established by the city. SITMP maintains an extensive metropolitan data network comprising 150km of optical lines and provides connectivity to approximately 100 organizations such as municipal district offices, schools, cultural institutions and others.

Infrastructure

Metropolitan area network is built as a redundant with a pair of independent data centers. For connection to the internet SITMP uses three different operators, each of them linked to a different node of the backbone network. This ensures high availability and reliability of connection. Backbone elements consist of Cisco Catalyst 6500 switches supporting NetFlow and linked to the speed of 10Gbps.

Deployment

For monitoring of operations of the data network SITMP uses native NetFlow version 9 support on Cisco Catalyst switches. The collection of NetFlow statistics is provided by Flowmon solution – Flowmon collector R5-6000 Pro with disk capacity of 6TB and Flowmon ADS Business for automatic traffic analysis and detection of security incidents and operational anomalies of network traffic.



Customer Review

Jan Klička, a specialist in network management reviewed Flowmon solution:

“We use Flowmon solution for detection of security incidents and routine operational problems. The main advantage we see is the global and detailed comparison of the current network behavior and behavior in history.

This comparison is invaluable opportunity for capacity planning, evaluating trends, detection of infected stations and other unwanted behavior, as well as for finding bugs in network configuration of servers and services.

Short deployment time, the usage of traffic statistics of data network thanks to existing Cisco elements and professional support were really imported to us.”