



IP FABRIC



IP Fabric | Správa Železnic

How SŽ sped up incident resolution and got a clear overview of its infrastructure thanks to IP Fabric



Revenue

34 Billion CZK per annum



Size

17,000 permanent staff



Network

6,300 connected sites



About

SŽ's main task is to ensure the operation, maintenance, modernization and expansion of the Czech Republic's railway network, with a current total length of over 9,377km. This includes amongst other items 6,719 bridges, 166 tunnels and 1,082 train stations.



Challenge

SŽ needed a solution that could help the documentation and inventORIZATION of their network, which is widely distributed amongst thousands of locations across the Czech Republic. Another key requirement was that the chosen tool or platform should drastically improve and simplify troubleshooting, reduce downtime, improve security support easy network operation.



Solution

A complete inventory of the network was created during the first day that the platform was implemented. The process was entirely automatic and SŽ got a complete overview of it's network and it's state. This saved hundreds of man hours and increased accuracy.

SŽ, a company with over 17,000 employees distributed across over 6,300 location, uses it's network to manage and operate it's expansive national infrastructure and to ensure save and reliable operation. The company is made up of a number of organizational team, which use the network for a number of different tasks, such as the collection, analysis and logging of data about rail transport, energy management, investment and inventory monitoring, distributing documentation, managing building projects, electronic communications and video conferences and IP telephony.



Challenge

The size and complexity of a very widely distributed network made inventorization and management very difficult to do manually.

Another impulse to find an automated inventory and audit solution was the need to simplify and improve the tenders for external service organizations.

A key requirement was that beyond inventorization, the tool could also be used for network management and to prevent downtime and improve security.



Solution

After the solution was installed on a virtual service and the initial setup was completed, IP Fabric completely mapped the whole of SŽ's network and all it's devices.

IP Fabric automatically discovered and highlighted weak points in the network topology and configuration and enabled their simple resolution, which improved network stability & security.

Thanks to an awareness of the current network state and clear identification of requirements, the process of choosing external service providers and organizations was greatly simplified.





Benefits

Automation discovery of new network components or devices simplifies the process of handing over new modernized implementations and sites from suppliers. The ability to compare the current and historical state of the network at the topology level and even down to the individual device configuration level ensures any human error is clearly flagged.

IP Fabric's clear and intuitive user interface ensures key information is presented in an easy to understand manner and enables this data to be shared with other teams or external organizations.

The platform's network verification functionality not only helps with operations, but also with network security.



IP Fabric significantly reduces required time and human resources and enables the rapid response to internal requirements or network incidents.

IP Fabric enabled my team to save a lot of time during the diagnosis and identification of issues in our network. A huge advantage is the ability to generate network map diagrams, which provide a clear overview of connections protocols, devices and simplify the identification of non-standard setups or situations. The automatic report generation completely freed up the hands of my team during regular device and network inventORIZATION.

— Miloš Matějka Network Operations & Diagnostics Manager, Správa Železnic





About IP Fabric

IP Fabric is a vendor-neutral network assurance platform that automates the holistic discovery, verification, visualization, and documentation of large-scale enterprise networks, reducing the associated costs and required resources whilst improving security and efficiency.

It supports your engineering and operations teams, underpinning migration and transformation projects. IP Fabric will revolutionize how you approach network visibility and assurance, security assurance, automation, multi-cloud networking, and trouble resolution.



Don't take our word for it

See how assurance can transform your approach to network management.

[Access the demo](#)



Support & Documentation
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