IP FABRIC

AUTOMATED NETWORK ASSURANCE PLATFORM

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IP Fabric | Air Navigation Services of the Czech Republic

Air Navigation Services of the Czech Republic streamlines network operations with automated network assurance to save manual effort and vital time

## About Air Navigation Services of the Czech Republic

The Air Navigation Services of the Czech Republic is responsible for ensuring that air traffic services across Czech airspace and the Czech Republic's 4 international airports remain safe. Being part of a continuously evolving transportation environment means ANS' network estate has to match this dynamism. With a multi-vendor network spread across the Czech Republic, with approximately 500 devices, the ANS team needed a way to make sure that their estate was free from issues, visible, and secure as it continues to grow.

What ANS CZ loves about IP Fabric:

- → Multi-vendor device support
- → Uniform standardization and application of security measures
- → Reduced manual documentation
- → Ad-hoc network comparisons
- → Improved device lifecycle management
- → Reduced troubleshooting times
- → Multicast support

Let's dive into the specifics on how IP Fabric has helped ANS CZ save time and effort to focus on optimizing their networking operations.

TROUBLESHOOTING

Challenge

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Benefits

→ 40% reduction in troubleshooting times/MTTR

→ Simplified process for identifying and diagnosing network issues

→ Reduced Mean Time to Innocence (MTTI) when the network is not at fault

Solution

Using IP Fabric's network assurance platform, ANS CZ can identify issues in their network within minutes. After visualizing their entire network estate, they utilize ad-hoc snapshots to compare their network against its current state and pinpoint changes that are impacting their network, allowing them to proactively troubleshoot the issue as opposed to reacting to it. Furthermore, ANS CZ have been able to identify previously unknown misconfigurations that caused symptoms within their network long before they were detected.
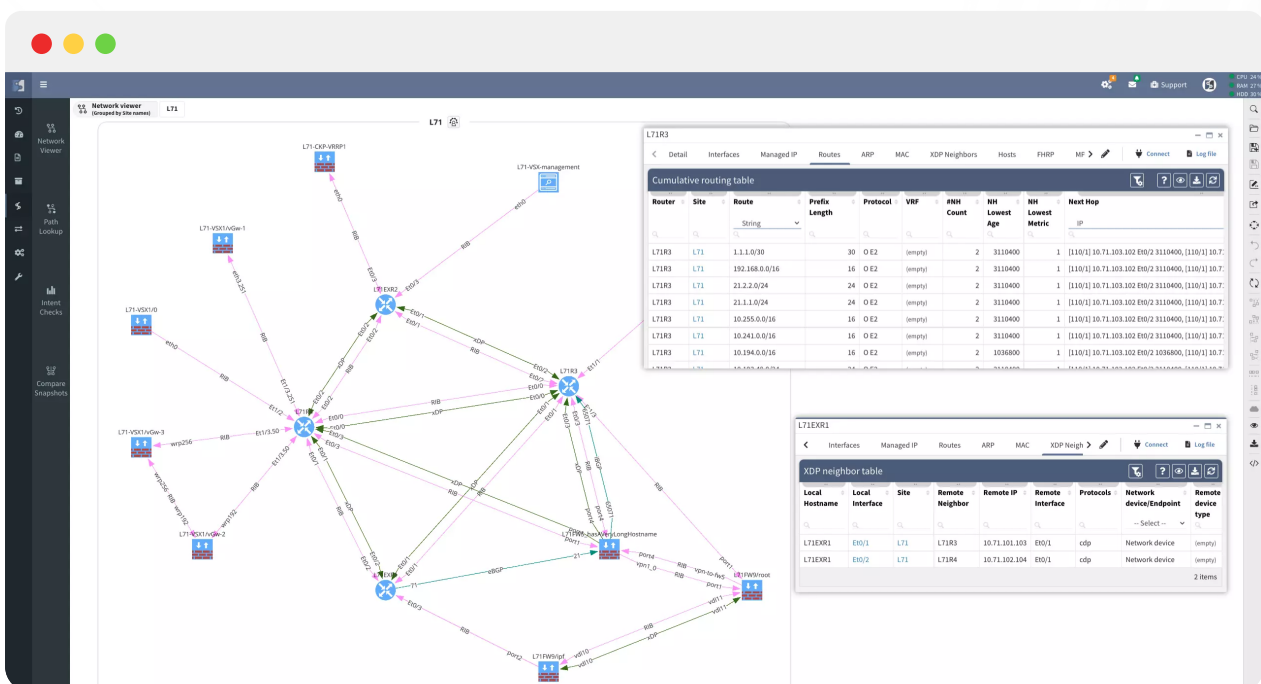
LIFECYCLE MANAGEMENT PLANNING

Challenge

With a distributed network containing multi-vendor devices, ANS CZ need to keep up to date on their network inventory. This includes ensuring all devices are still within their lifecycle. This could cause quite a headache, owing to the aforementioned geographical spread of their network. Teams would have to manually trawl their environments to gather device information and collate it into a digestible format before audits – again taking up valuable time, whilst also being prone to human error.

Solution

With IP Fabric, gathering device information is simplified. During discovery, IP Fabric connects to supported network devices (hundreds of models are supported across dozens of vendors) and collects information on configuration, state data and OS version. This information Is presented in a tabular format, complete with published end of life data from the hardware manufacturer. This allows ANS CZ to determine lifecycle plans for their network devices, independent of vendor, and formulate plans with minimal fuss.

Benefits

→ Multi-vendor device support

→ Information collected during discovery and presented in table format

→ End of maintenance and support information provided

→ Vendor-suggested replacements are also included in IP Fabric data

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When we first implemented IP Fabric in 2019, we saw a 30% reduction in our troubleshooting times after a very short amount of time. As our network has grown to add more devices and therefore contain more paths, we have found more troubleshooting cases that have been resolved by IP Fabric. Now I would say that we have cut down on troubleshooting times by 40%.

Pavel Nepovim
Network Administrator with
Air Navigation Services CZ

END-TO-END PATH SIMULATION

Challenge

For ANS CZ, ensuring that their critical applications and infrastructure are available and secure has always been a key challenge and concern. They not only need to guarantee that these applications are running, but that security measures are applied as intended. Previously, ANS CZ would map end-to-end paths manually, which took a lot of time and effort for both their network and security teams. As their network continued to grow, the issue began to become untenable.

Solution

IP Fabric helped ANS CZ greatly reduce the manual effort spent mapping end-to-end paths. Now, they can perform end-to-end path lookups on-demand to verify that digital services are secure and available. This then allows not only network administrators, but also IT administrators and service desk operators to verify end-to-end connectivity within seconds – whether it be switching, or firewall security measures, ANS CZ has instant assurance around their network. Due to the reduction in manual effort around checking connectivity, security, and network documentation, ANS CZ saves valuable time, all the time.

Benefits

→ Verification of end-to-end connectivity within seconds, on-demand

→ Massive reduction in manual mapping for security and network teams

→ Constant assurance that critical applications are secure and available

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> Before IP Fabric, there were certain tasks that I could not resolve. IP Fabric is like a Swiss army knife for our networking operations – It helps me to find objects within our network, keeps me up to date with an oversight of the actual network estate, and helps me to proactively address any potential issues before they affect our service availability!
>
> **Martin Jelinek**
> Data Network Planning & Development with Air Navigation Services CZ

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