



IP FABRIC



IP Fabric | Network Automation

You don't have time to "not have time" to automate.



Challenge

As your network grows in complexity and becomes more dynamic, your tooling must be able to handle this complexity and create order from chaos. There's also the challenge of confidence; teams cannot be aggressive in their automation approach if they don't trust the change process.



Solution

Our automated network assurance platform gives you up-to-date, contextualized insight into your network infrastructure in minutes. This should not be considered a luxury, but rather a core component of a network engineer's toolbox and the first step toward larger network automation efforts.



Benefits

- Foolproof automation processes gain you back time and confidence
- Validate your network source of truth
- Enhance automation workflows
- Augment your toolset with powerful integrations





Use Cases

01

Data Collection & Modelling

Eliminate 90% of the manual work behind network automation scripting

→ **Discover**

We automatically create a network baseline containing every device, path, configuration, and security policy. Know the actual state of your network at any point in time.

→ **Document**

Remove the need for manual documentation updates every time you make a change. This tedious work, often outdated by the time it's complete, is now done daily, and effortlessly.

→ **Verify**

Our robust insight into your network state allows you to verify that your network is behaving as intended with built-in or custom intent verification checks.

02

Validate your Network Source(s) of Truth

IP Fabric provides the actual truth of your network state, a critical element to effectively work toward your desired state.

A valid Network Source of Truth is the key element of a network automation project.

IP Fabric helps validate that intended state data on an ongoing basis through automated verification checks and simulated path lookups.

Using IP Fabric in conjunction with a SoT, you can ensure that your intended state database is populated with accurate state data, and measure operational compliance with intent.

Now that you have clear insight into your network's state, you decide what to do:

→ Update SoT

→ Change config to restore intended state

→ Trigger work to decommission inventory

03

Change Validation

Automate network changes with confidence

Prepare for changes using actual network data

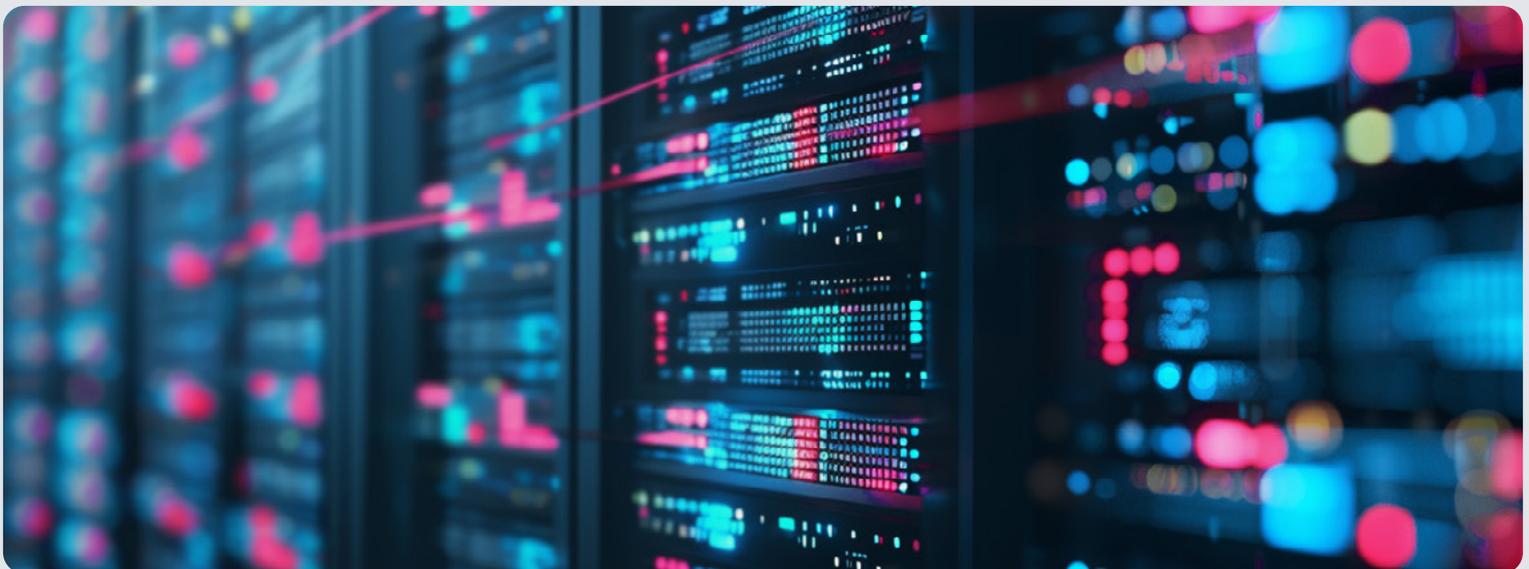
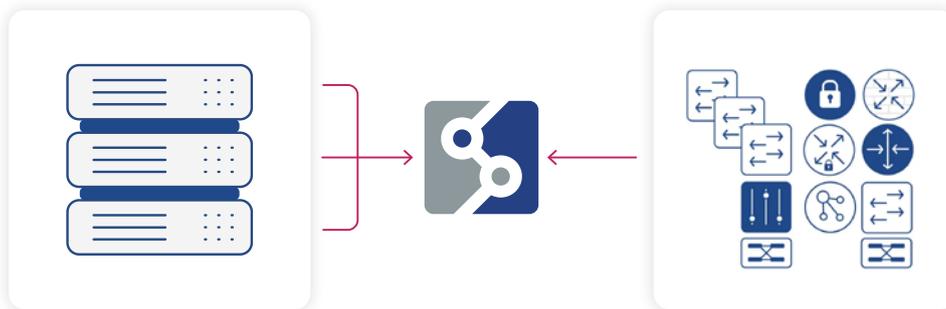
Perform pre-checks to understand "known good" state of network

Provide input to the logic of the automation process, eg:

- Upgrade all the Cisco IOS-XE switches running 3.6.6S
- Fix the SNMP config for all misconfigured routers
- Change policy in every firewall in the path from A to B

Validate your changes through:

- Topology changes
- Intent checks
- Path check



04

Enhance your automation workflows

Enterprise workflow automation made easy

An IP Fabric snapshot contains all the inventory, configuration, topology and state data from your network of networks, across all vendors and domains.

And the data is available as structured JSON, accessed using simple REST API calls – no need to retrieve it yourself, no need to parse it and no need to model it.

Using this, you can:

- Combine data from different sources
- Determine devices that need to be automatically configured
- Validate the outcome of executed changes

Event Triggers: When IP Fabric completes a snapshot - whether it is scheduled or ad hoc - and when it updates or completes its intent checks, it is able to send a webhook to an external system to notify that activity has completed. This in turn can then be used to trigger some automation activity, perhaps:

- Check inventory to see if anything has changed and update CMDB or SoT DB.
- Validate that application paths that worked before continue to work and if not, why not.
- Start a "daily check" process of ensuring that network state & configuration remains as expected.



Airbus Aircraft was able to integrate IP Fabric's REST API efficiently into our tooling ecosystem and use collected information as a data source for other tools.

Airbus

Here's What Our Customers Say



The source of truth and accuracy of data that is comes through the snapshot from IP Fabric empowers our developers to deliver on our self-service network automation.

Guruprasad Ramamoorthy, Global Head of Network Architecture at S&P Global



If I had the budget to buy only one product that would immediately benefit both traditional network engineers and accelerate network automation projects it would be IP Fabric.

Major League Baseball



More Resources

- Learn more about our journey toward the self-driving network, [here](#).
- From Design to Source of Truth. Listen to a podcast [here](#).
- Read about our API programmability to enhance automation workflows, [here](#).



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
<https://docs.ipfabric.io>



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