



IP Fabric | v6 Datasheet

Solution Overview

The IP Fabric platform is a plug-and-play appliance providing in-depth network infrastructure analytics.

The platform discovers and maps the entire network infrastructure and creates an essential part of the network engineering toolset. The appliance generates network documentation and compliance reports, tracks changes in the network, pinpoints business productivity bottlenecks, and uncovers errors and hidden risks causing intermittent outages or helps to mitigate outages in the future. Thanks to IP Fabric's Snapshots feature, users can easily create a historical correlation between the past and present state of the network. IP Fabric supports Role based access controls, allowing you to determine the exact level of access needed within the appliance





Network Documentation

- Detailed network inventory, including devices, modules, interfaces, and components.
- Fast and complete network infrastructure discovery.
- Low-Level Design documentation for each site in MS Word format.
- User location and endpoint connectivity mapping.
- Flexible API-to-PDF reports



Network History

- Each network discovery creates a digital snapshot of the network
- Snapshots can be compared, exported, imported, cloned, archived elsewhere
- Analyse historical correlation between past and present state



Dynamic Network Visualization Distribution Options

- Diagrams are entirely interactive and automated
- Site connectivity diagrams (ARP, CEF, RIB, STP, CDP, LLDP).
- Routing diagrams (CEF, RIB, RIP, OSPF, OSPFv3, EIGRP, IS-IS, BGP, Multicast Routing)
- Switching diagrams (STP), MPLS diagrams (LDP, RSVP)
- ACI or VXLAN topology maps
- Complete Host-to-Gateway application path simulation (MAC, STP, ARP).
- Complete End-to-End path simulation (FEX, VSS, MAC, STP, ARP, CEF, MPLS, Multicast, ACI, VXLANs, VARP).
- Analysing packet headers with path inspector on the path
- Analysing End-to-End for subnets
- Analysing End-to-End for port ranges, applications, regions, TTL
- Wired and Wireless users and IP Telephony connectivity maps (MAC, STP, ARP).



Uncovering Hidden Risks & Productivity Bottlenecks

- Network Analysis Reports in MS Word format.
- Network stability, resiliency, and compliance verification. Risk severity evaluation.
- Transmission quality verification for loss and errors & .Interface counters details
- Lifecycle milestone tracking for the managed network devices, such as End of Support.
- End of Life, End of Sale, End of Maintenance milestones data for hardware



Change and Configuration Management

- Change tracking for network connections, topology, and IP addresses.
- Configuration change tracking for managed network devices.
- Compare any two network snapshots, determining network state differences over time.
- Compare different configuration files
- Flexible, complete snapshot comparison over API



Continuous Audit

- Assurance Dashboard with 120+ out-of-the-box intent rules.
- Detailed analysis of dynamic network protocol behaviour.
- Continuous best-practice compliance verification improves operational consistency.
- Expected state verification and in-depth analysis.



Platform Compatibility List

- Arista
- AWS Networking (VPC, Transit Gateway, VPN gateway, NAT gateway, VPC peering, routing tables, Network ACLs and Security Groups)
- Azure Networking (Vnets, Vnet gateways, NAT, routing, Security Groups)
- Brocade ICX
- Checkpoint
- Cisco (Catalyst, ISR, ASR, CRS, Nexus, ASA, WLC, SG, Firepower, ACI)
- Cisco APIC
- Cisco Meraki (API discovery)
- Dell (FTOS, Power Connect)
- Extreme (EOS, Enterasys, Avaya)
- Fortinet
- F5 BIG-IP
- FRRouting
- HP (Comware, Aruba switch, ProCurve, Aruba CX, Aruba Instant APs)
- Huawei
- Juniper (EX, MX, SRX, QFX)
- Juniper MIST
- Mikrotik
- Palo Alto
- Quagga
- Riverbed
- Ruckus Wireless Controller
- Silver Peak SD-WAN
- Versa Networks (SD-WAN)
- VMware NSX-T
- Viptela SD-WAN



AUTOMATED NETWORK ASSURANCE PLATFORM



v6 Datasheet



Supported Technologies

- **Inventory**
Devices, Part Numbers, OS Versions, Hosts. EoL Milestones, IP Telephony
- **Platforms**
Clusters, Stacks, FEX, vPC, VDC, PoE, PPPoE, VSS, PoE, PSUs
- **Interfaces**
– Drops, Errors, Duplex, MTU, Switchport, Average rates, Counters, Tunnels, Storm Control, Transceivers, PPPoE
- **Discovery & Channel protocols**
CDP, LLDP, Port-Channels, MLAG, Full Connectivity Matrix
- **Spanning Tree**
STP, rSTP, mSTP, PVST
VLANs, STP Guards, Virtual Ports, STP Bridges)
- **IP Address Management data & Gateways**
Managed IPs, IPv4 & IPv6 host and routing information
DHCP Configuration, DHCP Snooping
ARP, Arista VARP, MAC, IPv4, NAT, VRRP, GLBP, HSRP
Complete VRF information
- **Routing Protocols & Multicast**
BGP, EIGRP, IS-IS, OSPF, OSPFv3, RIP
PIM, IGMP Snooping, PIM Rendezvous Points (RP), Multicast Route/MAC table
- **Service provider**
MPLS, LDP, RSVP, QoS, VPLS, VPWS, CCC
- **Data Center**
Cisco ACI support (ACI enabled NX-OS)
Cisco APIC (contracts, tenants, applications, zone filtering)
VXLAN (EVPN)
Load Balancing (Virtual Servers, Pools, Nodes, F5 Partitions)
- **Cloud Networks**
Virtual Machines, Virtual Machine Interfaces
- **Management Protocols visibility**
AAA, NTP, PTP, Port mirroring, Syslog, Flow, SNMP, DNS Resolver, Licenses
- **Security**
ACL, DMVPN, IP Sec, GRE, 802.1X, Zone firewall / Security Policies, Firewall filters
- **Wireless**
Wireless Controllers, Access Points, Radios/BSSID, Wireless Clients



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