

Why Sedona?

Clear Vision

Sedona NetFusion enables CSPs to embrace digital transformation and prosper from 4G and 5G digital services by moving from process-driven, manual networks to data-driven, fully autonomous networks.

Trusted Partner

- Deployed by tier-1 CSPs Worldwide
- Backed by blue chip investors

Valuable Solution

- Multi-layer, multi-domain, multi-vendor
- Complete visibility
- Reduced complexity
- Accurate network planning
- Higher operational efficiency
- Optimal service delivery
- Dramatically lower costs

Optimal Network Performance, Smooth Service Delivery

Sedona NetFusion helps you design, operate and automate your network infrastructure and deliver innovative services. Packing a common platform and a portfolio of fully integrated products, it reduces costs, speeds up deployments, optimizes network performance and enhances its reliability.



Discover, Analyze, Automate

First comes data. Sedona NetFusion creates the best network data source available anywhere. It acquires core and metro data through a patented automatic discovery method that maps topology, traffic, and services onto a live 3D network model. This cross-domain and cross-layer view creates a highly reliable and intelligent data source that feeds into operations workflows automatically to reduce complexity and increase efficiency. Sedona NetFusion Planning, Operations, Migrations and Controller products deploy seamlessly on top of the platform to provide additional value through simulation, automation and analytics applications.

- ✓ The entire network and services inventory is visualized from end to end
- ✓ Fully automated mapping of cross-layer and cross-domain connectivity
- ✓ Historical trends and root causes of faults analyzed and identified accurately and proactively
- ✓ Time machine capabilities for post analysis and predictions
- ✓ Inventory data reconciliation improves operations workflows
- ✓ Complex network models are consumed by BI systems as simple SQL
- ✓ New network elements integrated to the model quickly through rich, standards-based (T-API, ACTN, IETF) northbound APIs
- ✓ Network-wide transaction integrity maintained under all network conditions
- ✓ Policies enforced automatically



NetFusion Planning

Take the Guesswork out of Network Planning

When network data is collected manually and maintained in spreadsheets it's no surprise that network planning is often hampered by inaccuracies. Sedona NetFusion Planning makes sure that your network planners are working with complete, up-to-the-second network data. Its web-based UI paints a 3D picture of network inventory and service routes from IP to fiber optical layers, with in-depth analysis of network performance, diversity and vulnerabilities. As a result, you can make data-driven decisions regarding:

- Where to expand and upgrade network infrastructure
- Where to reduce use of expensive leased capacity
- How to optimize traffic routes and save costs
- How to assure the diversity of service routes

A Call-to-Action dashboard with policy based KPIs show planners where to focus their attention. In addition, a rich set of APIs lets you feed accurate inventory data into other tools, OSS and back-end systems, so your entire organization is on the same page.

“With Sedona NetFusion Planning we plan for surer network diversity and minimize operational surprises. We can analyze shared risks and vulnerabilities from the fiber to the service layer – all automatically”



NetFusion Operations

Make Operations More Efficient and Profitable

Sedona NetFusion Operations lets you get off the swivel chair and stop wasting valuable time on reactive investigation and slow resolution of service problems. All network operations teams work with the same, unified network-and-services data model in an intuitive, web-based UI. Traffic heat maps highlight congestion and failures in real time, along with past (time machine) and future (predictive analysis) network views. As a result, your teams can:

- See what's happening on every node, connection, and service path, in your multilayer network
- Understand real-time failures and congestion and their impact on services
- Use cross-layer root cause analysis to pinpoint problems and assign the right team to resolve them quickly
- Accurately determine the who-what-where impact of maintenance before taking down services

As you streamline network operations, Sedona NetFusion's built-in analytics engine feeds valuable network and service data to other systems via SNMP, CLI, YANG, Files, BGP, Syslog, TL1, Kafka, gRPC protocols.

“Our scheduled maintenances were a bit of a guessing game until we started using Sedona NetFusion Operations. Now our inventory database is 100% accurate and up-to-date and keeps service disruption to the absolute minimum.”



NetFusion Controller

Automate Services Based on Data You Can Trust

Emerging technologies like SDN and virtualization are designed to completely automate the service lifecycle. Sedona NetFusion Controller helps transition to this new mode of operation.

- Automate service setup and activation so it's simple, fast and accurate
- Create L1-L3 services quickly from a GUI or from service orchestrators
- Automate L1-L3 service assurance to avoid SLA violations
- Optimize L1-L3 resource allocation per service mix and SLAs
- Understand how changes in optical paths will impact IP/MPLS layers
- Move and optimize optical paths without affecting IP traffic
- Automate remedial action if SLAs are not met

Sedona NetFusion Controller employs standard REST/RESCONF interfaces to interact seamlessly with SDN controllers, service orchestrators and OSS, so you don't have to worry about it.

"The accurate network mapping we got with Sedona NetFusion Controller, helped us automate shipping and fulfillment workflows in half the time we thought it would take. Our costs have gone down significantly thanks to reduced errors and streamlined backend processes."



NetFusion Migrations

Reduce the complexity and risk of network migration

Migration from legacy networks to modern, SDN-based infrastructure is costly, complex and risky. Sedona NetFusion Migrations simplifies the process and reduces its risk. It helps you tackle key use cases in the migration of T1/T3/E1/E3 services from PDH/SDH networks to packet/optical networks. When collapsing merged or acquired networks, NetFusion makes it easier to peel off services from one network to another without impacting live service. Sedona NetFusion Migrations helps to reduce complexity and risk in four key ways:

1. **Discovery and audit** to gain accurate inventory and full understanding of circuit paths, service routes
2. **Planning and simulation** to create metro or site-based plans tailored to business KPIs
3. **Execution** to manage cut-over, automation of bulk configurations, etc.
4. **Process management** to track progress toward business goals

"Sedona NetFusion Migrations helps us determine the least amount of circuit emulation gear that we need and the fewest number of moves to migrate the circuit paths from our old SONET backbone equipment to new equipment with minimal disruption to our customers."

Only with Sedona System

Sedona NetFusion network intelligence creates a single, holistic view of your multi-layer, multi-domain, and multivendor network, making it easier for you to see, control, and automate from end to end.

Applications

Leverage the power of network intelligence and automation with Sedona NetFusion products, featuring a slick UI, sophisticated, yet simple UX, and customizable, Python-based web apps and APIs



Products



NetFusion
Planning

Reduce the cost, time and resources needed to plan and operate your optimal network infrastructure



NetFusion
Operations

Use real-time network data to drive operations and discover hidden issues before they impact service



NetFusion
Controller

Simplify and accelerate transitions from legacy to fully automated SDN



NetFusion
Migration

Leverage accurate inventory data to reduce network migration complexity and risk

Platform



Discover



Analyze



Automate

Network Adapters



About Sedona Systems

Sedona Systems' has introduced NetFusion, a transformative network intelligence & automation platform powered by unique network-derived service-to-fiber visibility. With multilayer awareness and multivendor, multidomain support, Sedona's applications boost effective WAN capacity, ensure network resiliency, enable new services, and accelerate the path to SDN benefits. Sedona is headquartered in California and has solutions deployed in the production networks of Tier 1 and Tier 2 service providers globally.