

ATOM strengthens the public safety (E911) network for the State of Connecticut Government

The Public Safety Data Network (PSDN) is a dedicated transport infrastructure and interconnectivity channel for public safety and governmental applications and services throughout the state. It is a high-speed fiber optic data network that connects 515 nodes or Points of Interest (POIs), spans over 8,800 miles of dark fiber, and is built with the highest redundancy possible. The 110 Public Safety Answering Points (PSAPs) that offer the 911 Emergency Answering service are all connected to this network. The state team was converting 500 sites from a 10 Gigabit Optic Network to a 100 Gigabit Ethernet Network based on EVPN/MPLS. They needed higher bandwidth as well as network automation and visibility. Also, they required capabilities such as L2/L3 service orchestration, OS updates, inventory, and configuration management for MX, ACX, and EX series platforms. Hence, the account team recommended ATOM for VPN provisioning.

Customer Profile

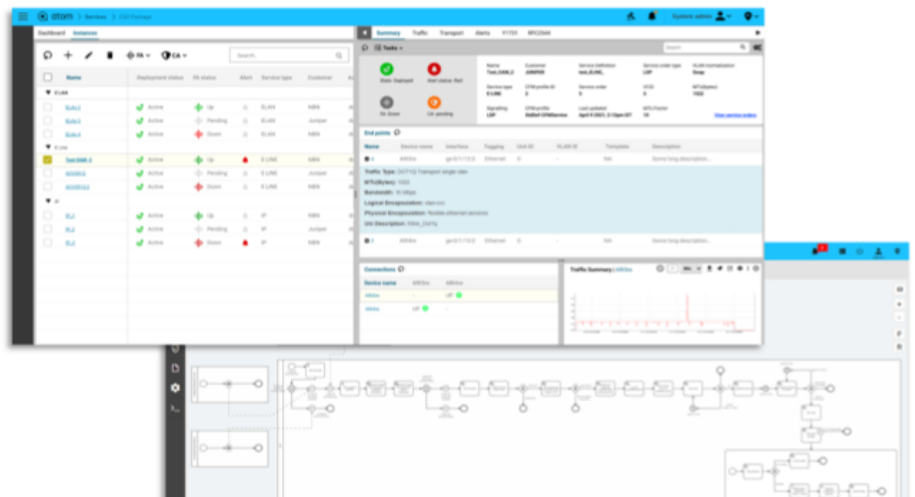
- State of Connecticut
- PSDN Networks for E911 services
- Converting from 10G Optic to 100G Ethernet
- 8800 miles of fiber
- 515 Point of Interest
- 110 Public Safety Answering Points
- MX, ACX and EX Series

Desired Architecture

- Network Lifecycle Automation.
- Integrated platform for provisioning, monitoring and incident resolution.
- Cloud-Native architecture to support demand elasticity.
- Multi-tenancy for increased security, scale, and control.
- Geo-Redundant Design for high-uptime and low-latency
- Massive scale and throughput for optimized performance.

Desired Services

- L2/L3 VPNs, EVPNs
- ZTP & OS Upgrades
- Configuration Management
- Compliance Audit
- Telemetry Collection
- Service Monitoring
- ITSM integration
- Turn key project delivery



Key challenges:

- Maintain configuration sanity & visibility across PSDN
- Lack of visibility into Services & method-of-procedures
- Massive Scale Inventory collection
- Complex EVPN service provisioning and monitoring
- Manual processes for OS upgrades & ZTP
- Frequent human errors and outages

Anuta's Solution

Anuta ATOM provided a cloud-native, scalable, multi-tenant solution for network automation, compliance, service provisioning, monitoring, telemetry collection and remediation, all through a single platform.

ATOM supports 60+ vendors and 250+ platforms while enabling 3rd party integrations and zero-touch provisioning for device onboarding.

ATOM supports stateful service orchestration with atomic transactions.

ATOM has hundreds of out of box service models for EVPN based on YANG and OpenConfig.

ATOM workflows perform pre-and-post checks with service provisioning.

Business Outcomes

- Modernized the PSDN
- Eliminated human errors and outages
- Delivered a Single Source of Truth.

The Anuta ATOM Advantages

- Support for YANG to represent network configuration and state data
- Service orchestration to maintain the lifecycle of services
- ATOM SDK to augment the DevOps journey
- Validation at configuration level to ensure the presence of intended configurations on all targeted devices
- Service Recovery feature to upload and manage brownfield services
- Information on transport LSP for each service
- Open & API-driven platform to integrate into ITSM and OSS/BSS tools
- Workflow-based ZTP solution that simplifies manual and semi-scripted processes into simple visual steps
- Configuration compliance to create golden profiles that cater to Day-0 configurations
- Independently scalable, owing to the cloud-native architecture

Click [here](#) to learn more about ATOM Service Orchestration and Workflows..

“The State PSDN network is one of the most critical pieces of infrastructure. All first responders are part of this network. We wanted to bring agility into rolling out services to offer our end customers more value and expedited services. ATOM is the tool that gives us this agility”- Head of Network Infrastructure, State of Connecticut.

Operational cost reduction and improved efficiency

The Connecticut PSDN accomplished various business goals because of the Anuta ATOM platform. Firstly, the network has undergone modernization and is now cutting-edge. Secondly, there are no longer any human errors or interruptions which result in huge operational cost savings. And thirdly, the network now has a sole authoritative source. All of this has helped them improve efficiency.