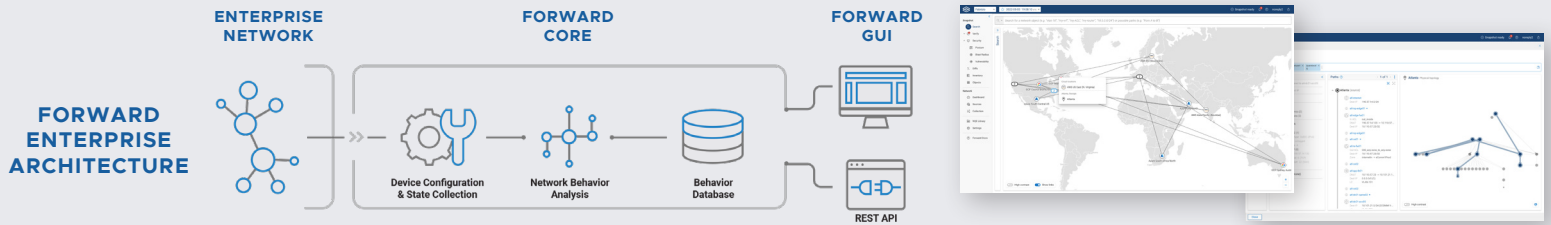


WHY YOU NEED A NETWORK DIGITAL TWIN

Forward Networks has created the world's first mathematically-backed digital twin of your global enterprise and mission network. It builds an authoritative inventory of all network devices you operate and all possible ways the devices can behave given collected configuration and protocol state. This allows your IT and Cybersecurity teams to consolidate to and operate a single piece of software and a single source of truth with ground-breaking preventative analysis powered with AI.



Forward Enterprise collects device configuration data and state information across the Federal Enterprise Network from every network device, including switches, routers, load balancers, firewalls, cloud networking, and type 1 encryptors multiple times per day.

THE CHALLENGE FOR FEDERAL AGENCIES

- ▼ **COMPLEXITY + FEWER PEOPLE = NETWORK FAILURES**
- ▼ **MISSION SUCCESS COMPROMISED BY INEFFICIENT RESOURCE ALLOCATION**
- ▼ **TIME AND BUDGET WASTE FROM MANUAL PROCESSES**

The federal workforce is challenged in their capacity to rapidly respond to data calls, appropriately plan for technology modernization and continuously ensure cyber compliance across complex IT environments often replicated in multiple secure domains (Unclassified, Secret, Top Secret).

GREATER EFFICIENCY

Forward Networks addresses complexity with a mathematically accurate representation of the network called a Digital Twin. Software does the heavy lifting instead of teams of people, directly saving OPEX. Key outputs include current network diagrams, regularly collected and normalized authoritative data, and millions of network compliance and security checks performed multiple times per day. The OPEX savings are real:

- ▲ **\$2.9M IN STAFF PRODUCTIVITY BENEFITS**
- ▲ **\$500K+ IN REDUCED SUPPORT CONTRACTS WITH HARDWARE VENDORS**
- ▲ **5 FTEs REPURPOSED AFTER ELIMINATING NEED TO MAINTAIN HOME-GROWN INVENTORY DATABASES**

AUTHORITATIVE DATA FOR DECISION MAKERS

Authoritative Data is foundational for CIOs and CISOs to make the right and timely decisions to maximize impact against their unique mission needs. The authoritative, vendor agnostic data available within the Forward Networks platform allows IT leaders to make decisions in seconds to minutes, to aggressively plan network modernization and to reallocate resources effectively as mission needs evolve. The impact has been seen at customers across the government:

- ▲ **33% FEWER UNPLANNED DOWNTIME INCIDENTS**
- ▲ **55% FASTER TO RESOLVE UNPLANNED DOWNTIME INCIDENTS**
- ▲ **71% FASTER DEPLOYMENT OF NETWORK HARDWARE, SOFTWARE AND SERVICES**
- ▲ **44% FASTER TO IDENTIFY AND RESOLVE NETWORK PROBLEMS**

CONTINUOUS COMPLIANCE & SECURITY

The efficiency gained using authoritative data from the Forward Networks digital twin dramatically increases and improves the output of the cyber workforce. For example, the number of data calls has grown as the federal government addresses Binding Operating Directives or audits like CORA. A digital twin puts the government in the proactive stance to answer these questions quickly, reliably, and repeatedly. The mission impact is huge:

- ▲ **BEST CCRI SCORE IN UNDER TWO WEEKS AT A LARGE FEDERAL AGENCY**
- ▲ **VULNERABILITIES ANALYZED MULTIPLE TIMES PER DAY SAVING FTEs AT NUMEROUS AGENCIES**
- ▲ **SAVING 1000'S OF MAN-HOURS LOCATING ASSETS WITH INDICATORS OF COMPROMISE**

A REQUISITE PLATFORM TO FUTURE-PROOF IT INFRASTRUCTURE

Forward Networks delivers value across the silos in the IT organization. CIOs can leverage performance and outcome based contracts measured against reliable and data driven metrics. CISOs can effectively respond to numerous data calls. Cyber operators get data they need to defend the nation's most critical networks. The digital twin also enables new personnel to more quickly ramp in their jobs and gain situational awareness of how the network works and behaves. This results in a more capable workforce that is less dependent on one or two people who "know how everything works."