n-wave

N-Wave delivers stable, secure, high-speed network services to enable the vast missions of its federal government stakeholder community who are responsible for national security, military operations and public safety.

About N-Wave

N-Wave is the National Oceanic and Atmospheric Administration's (NOAA) network service provider and has been in operation since 2009.

N-Wave plays a critical role in supporting NOAA's mission while providing secure, high-performance network infrastructure to federal agencies responsible for national security, military operations and public safety.

By ensuring mission continuity, operational resilience, and real-time access to vital environmental and weather intelligence, N-Wave strengthens the 16 critical infrastructure sectors designated by the Department of Homeland Security (DHS) and the Cybersecurity and Infrastructure Security Agency (CISA).

N-Wave's national network infrastructure extends across the contiguous U.S. to Alaska and Hawaii — reaching remote field sites, major campuses, data centers and supercomputing facilities.

Combined with its scalable cloud solutions, robust catalog of enterprise managed services and advanced network operations, N-Wave supports all stakeholder missions with integrity, transparency and flexibility, and employs a unique partnership approach to provide the best customer experience.

What makes N-Wave unique?

- NOAA operated and managed national infrastructure, ensuring capacity, security and data delivery assurance

- High value asset, authorized high FISMA system, full network service provider

- Trusted Internet Connection (TIC) services (X-Wave)

- Scalable cloud solutions

- Robust catalog of enterprise managed services

- Advanced network operations

- Delivers optimization efficiency and cost savings to the federal government

180 facilities nationwide, including Hawaii and Alaska

365 active network circuits

400 Gbps high-availability national network backbone

For more information about how N-Wave can meet your needs, submit a New Service Request.

You can also visit the N-Wave website: nwave.noaa.gov

FROM THE CAMPUS TO THE CLOUD

N-Wave Provides Solutions

Enterprise Transport Services

- National Fiber Optic Backbone
- Multi-Protocol Label Switching
- Optical Transport
- Trusted Internet Connection Access Points (TICAP)
- Cloud Transport

Enterprise Managed Services

- Enterprise Wireless
- Enterprise Remote Access VPN (ERAV)
- Managed Local Area Networks (LAN)
- Cable Plant Management
- Managed Firewall

Value-Add Advantage

- Engineering Assessments
- Architecture, Design and Consulting
- Technology Exchanges and Stakeholder Engagement
- Monitoring, Measurement and Visualization
- 24x7 Advanced Network Operations and Security

N-Wave's National Network Backbone

D.C. Metro DWDM Ring

800 Gigabits of Capacity

NOAA SSMC Silver Spring, MD

MAX U of MD College Park, MD

N-Wave / Internet2 McLean, VA

NOAA NCWCP College Park, MD

NOAA NSOF Suitland, MD

NOAA Data Center

Legend: Network Core · TICAP Site · Aggregation Site · Participant Site · VPN Backhaul Site
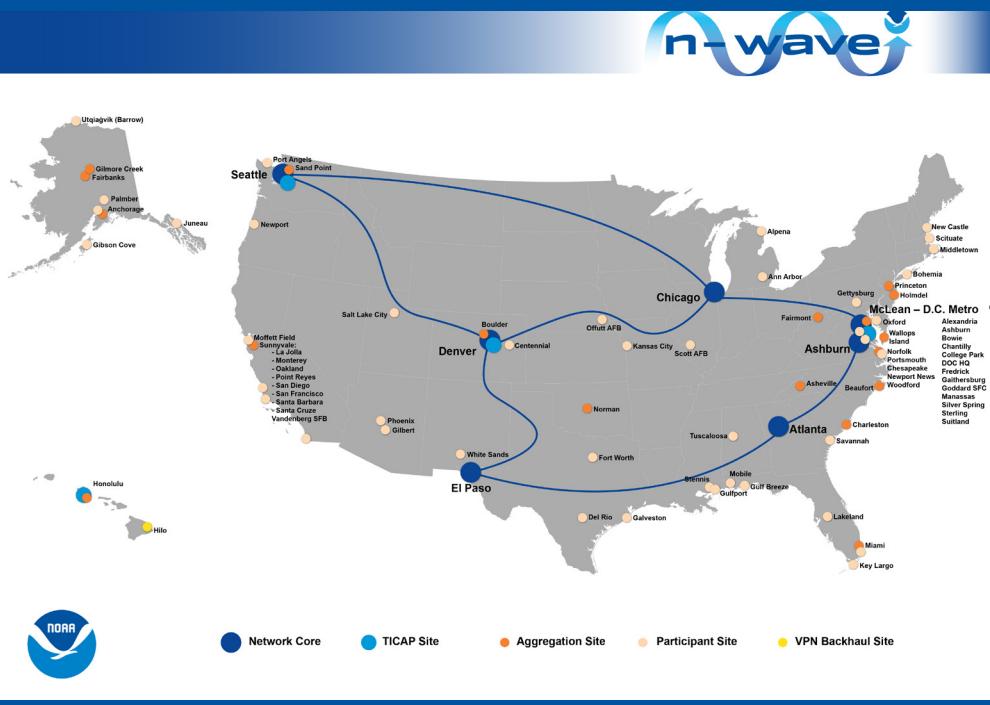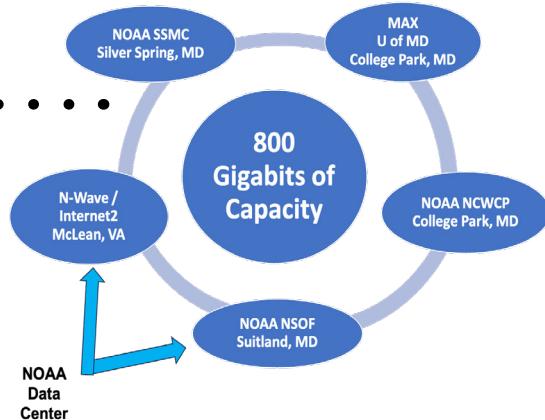
This map shows N-Wave's traffic across its network in the U.S. and to Alaska and Hawaii, including locations for the network core, Trusted Internet Connection Access Point (TICAP) sites, aggregation sites, participant sites and Virtual Private Network (VPN) backhaul sites.