

# Northland Communications

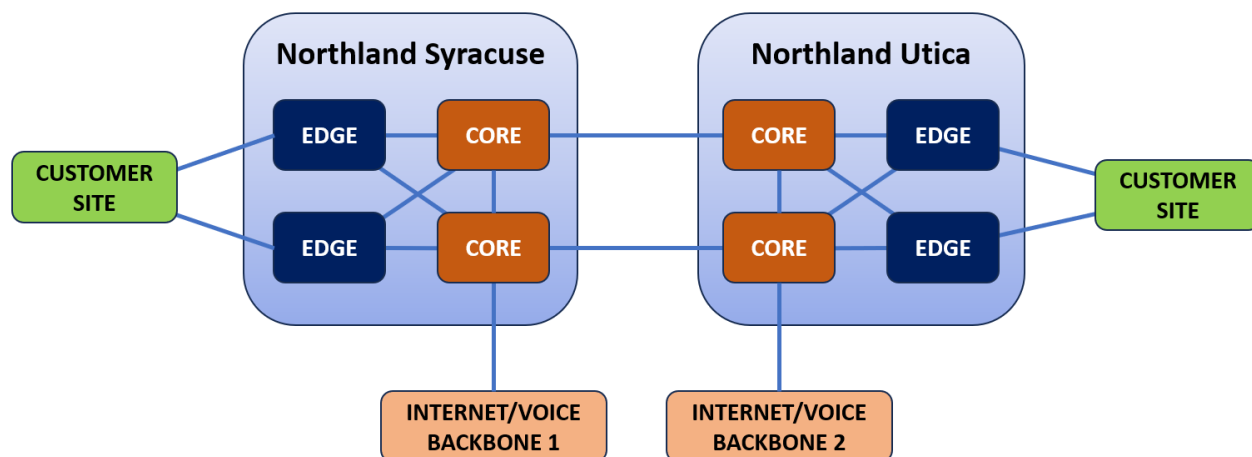
## Core Network

Revision 05.29.24



## Reliable systems that monitor every aspect of the Data Center

Northland's voice and data network possesses extraordinary capabilities that are reliable, flexible and secure. Our customers enjoy having local management—meaning our employees are fully aware and vested in their clients' accounts. Northland not only has the network capable to run your business, but also has your back. Our voice and data network is the foundation of our relationship with our customers. Without it, everything else is irrelevant.



DATA	VOICE
<ul style="list-style-type: none"> <li>+ Large Capacity Public Internet IPv4/IPV6 Routing</li> <li>+ Full BPG4/6 Peering</li> <li>+ MPLS IP/VPN Routing for Multi-Site WAN</li> <li>+ Internet Bandwidth from Multiple Upstream Providers</li> <li>+ VOIP/QoS Capable</li> <li>+ MEF Compliant Carrier Ethernet Services</li> <li>+ Virtualized Redundant Cloud Computing Platform</li> <li>+ Optional Advanced DDoS protection</li> </ul>	<ul style="list-style-type: none"> <li>+ Local PSTN Call Termination</li> <li>+ Long Distance and 800 Termination</li> <li>+ T1/PRI Handoffs</li> <li>+ SIP Trunking over Ethernet</li> </ul>

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## **Reliability Features**

### **System Backup**

Should any single component in a redundant system fail or if an entire redundant system fails, there is an identical active redundant system that can take over instantly.

### **Two Separate Upstream Connections**

Northland maintains two separate upstream internet backbone connections with different providers that are completely diverse from each other; one in Syracuse and one in Utica. Should either provider fail, all internet traffic is almost instantly rerouted through the other provider.

### **Two Diverse Power Connections**

Each redundant system is separately powered by two diverse power connections. The source of the power is provided by multiple large onsite batteries. In the event of a power outage, the battery will provide uninterrupted power for several hours until either our generators take over or power is restored. We maintain and regularly test multiple truck mounted generators.

### **Multiple Air-Cooling Systems**

Northland has multiple air-cooling systems in each data center that back each other up. This allows us to take one system offline for maintenance when needed or continue to provide adequate cooling if one system fails.

### **24/7 Monitoring and Response**

Our telemetry systems continually monitor every aspect of the datacenter including the status of all devices and their components, power status, environmental conditions, water sensing and security. Staff is notified and responds 24/7 to any event outside of normal conditions.