

CenturyLink Private Line Self-Healing Network Service

Failure-resistant network keeps your business up and running

Self-Healing Network Services (SHNS) provides business continuation, disaster recovery and survivability through a failure-resistant telecommunications network. SHNS is designed to minimize network downtime and is ideally suited to a wide range of multi-location data, video, voice and Ethernet applications. For example:

- Tying together office locations, data centers and access to carrier points of presence (POPs) in one secure, dedicated and protected network
- Providing high-bandwidth, protected and diverse connectivity to call centers and your customers
- Enhancing your business continuity plan to protect assets

Description

SHNS offers a service for high-capacity digital between multiple, customer-designated premises within a local access transport area (LATA) and a minimum of one CenturyLink wire center location. The service is designed to automatically detect service degradation or a single failure anywhere within the system and reconfigure itself around the point of failure to ensure a near continuous flow of information between those locations that are within the survivable network.

Features

- Broad spectrum of speeds (e.g., DS-1, DS-3, STS-1, OC-3, OC-3c (concatenated signal), OC-12, OC-12c, OC-48, OC-48c, 10Mb Ethernet, 100Mb Ethernet and 1Gbps Ethernet—separately or in combination) to meet bandwidth requirements for networks of all sizes
- Instantaneous rerouting of your transmissions within 50 milliseconds
- 99.99% availability, with a bit error rate of 10⁻⁹, or 1 error in 1 billion bits
- Range of system bandwidth capacities (155.52Mbps, 622.08Mbps, 2.488Gbps and 9.95Gbps) are available
- Using SHNS as a backbone, you can connect to multiple CenturyLink-provided services, including DS-1, DS-3, Digital Switched Service and Switched Access Service
- Performance monitoring for detailed information and real-time status verifications
- Drop-and-insert multiplexing lets you pre-designate the number of channels serving each location
- Standard 24-hour alarm surveillance and/or performance monitoring

Optional features

- Central office connecting channel (COCC) provides for connections to another SHNS ring or from the SHNS ring to any central office-based service that interfaces at the same bandwidth
- Software reconfiguration capability (SRC) gives you the ability to reconfigure existing channels within the SHNS to suit the changing demands of your operation
- Transmux allows high-bandwidth circuits to be multiplexed into lower-bandwidth circuits inside a SONET system

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Benefits

- Eliminates costly downtime – because SHNS is provided in a ring configuration, it automatically detects service degradation or a single failure anywhere within the system and reconfigures itself around the point of failure to ensure a near continuous flow of information
- Nearly instantaneous switch-to-protection path, within 50 to 245 milliseconds
- Security and reliability – each network is dedicated to a single customer and is engineered to the highest availability standard of 99.99%
- Out of service credits – if a service interruption occurs and SHNS fails to switch to the protection path within 1 second, we will credit you a month's billing for the affected service
- Customized solutions – each system is designed to your specific requirements and precise network needs
- Scalable and flexible – SHNS easily connects to other CenturyLink network restoral services, such as Self-Healing Alternate Route Protection (SHARP) and SHARP Plus services—adding flexibility to your network (SHNS can be expanded to include additional services—such as Asynchronous Transfer Mode (ATM)—and can support new technology with minimal reengineering and cost)

How it works

With the SHNS ring configuration, your network can remain functional even in the event of a fiber cut. Additionally, the service allows multiple circuit types—DS-1, DS-3, STS-1, OC-3, OC-3c (concatenated), OC-12, OC-12c, OC-48, OC-48c, 10Mb Ethernet, 100Mb Ethernet and 1Gbps Ethernet—to ride the SHNS separately or in combination, meeting your unique volume-transport needs. SONET technology ensures your network has the highest level of survivability available today.

Why CenturyLink?

- SHNS harnesses the power of fiber optics
- We have more than 100 years of experience delivering telecommunications
- We can offer you one solution with unparalleled performance
- Our service adds the highest level of security to a 100%-dedicated private line
 - We demonstrate our commitment to the security of your high-speed digital access service by dedicating not only the circuit, but also the telecommunications equipment needed to provide your service (a combination of intelligent network elements and self-healing fiber ring topology is used to make your dedicated communications network failure resistant)
- We adhere to the most stringent carrier-grade implementation, testing and configuration standards
- We have the most dense fiber footprint in a 14-state local service region

Other CenturyLink products

In addition to Self-Healing Network Services, we offer other products for your communication needs, including:

- GeoMax®
- Synchronous Service Transport (SST)
- DS-1 and DS-3
- Metro Ethernet

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