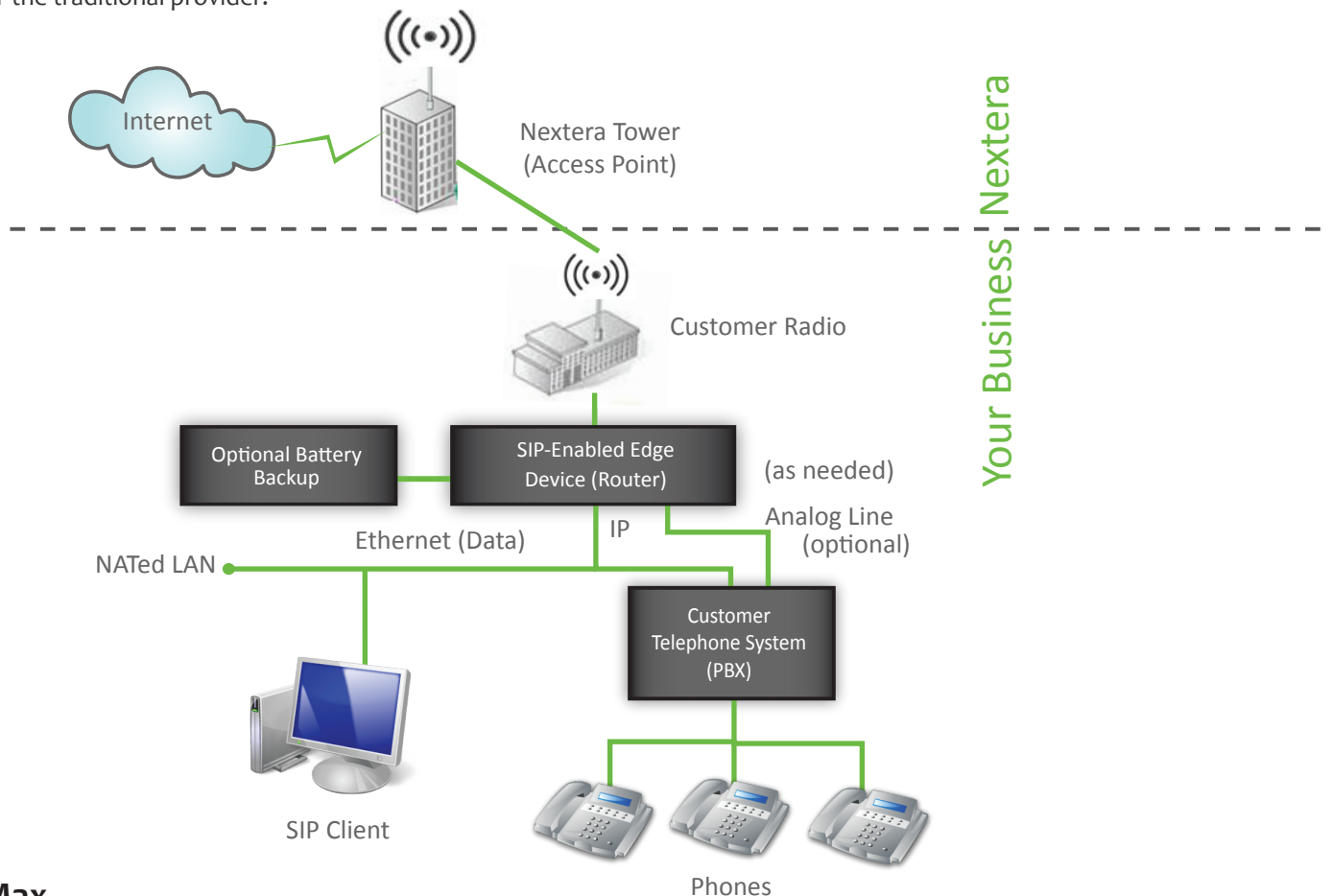


Wireless / WiMax

Nextera's wireless network delivers reliable, high-speed, low cost Internet access using WiMax wireless broadband technology. Standard bandwidth options are 1.5M up to 6M or Nextera can develop a custom solution to meet your business needs with bandwidth speeds up to 1Gbp. Nextera's wireless WiMax internet service can be bundled with our industry leading VoIP (Voice Over Internet Protocol) platform which includes a variety of voice services including: local, long distance, hosted PBX or SIP trunking.¹ These converged voice and data services are dynamic which allows maximum usage of the bandwidth for data when voice is not being utilized. These high-quality, flexible services provide businesses like yours the communication tools needed in today's fast-paced, technology-driven environment. You also benefit from the fact that Nextera controls its entire wireless network and, therefore, is not dependant on the phone company which allows us to deliver high-quality, symmetrical bandwidth with faster installations and greater savings over the traditional provider.



WiMax

Nextera's fixed WiMax (Worldwide Interoperability for Microwave Access) is built upon an IP-based, wireless broadband access technology that is designed to deliver converged high-speed voice and data services. Utilizing WiMax, Nextera has created distinctive business classes of service that prioritizes the voice traffic to provide a quality, robust and resilient connection for even the most time-sensitive of applications. WiMax is built on WLAN and IP-based connectivity with QoS (Quality of Service) and SLA (Service Level Agreement) capabilities, thus making WiMax an ideal access network for your next-generation voice and data services.²

Quality of Service (QoS)

Nextera's network is designed with parameters that minimize bit error rate, latency and jitter while maximizing data throughput. Nextera uses a variety of performance enhancing techniques including QoS profiles (multiple service flows) diff serv, VLANs, MAC scheme and link adaption to prioritize and establish different parameters based on traffic type to maximize the performance and user experience. Nextera customers may also add an additional layer of security with the implementation of a VPN.

Security

Customer security is an important issue for Nextera. We use a variety of security standards including encryption and authentication.

- Encryption is a mechanism that protects data confidentiality and integrity by using a complex mathematical algorithm. Information on Nextera's WiMax network is encrypted using Counter Mode with Cipher Block Chaining Message Authentication Code Protocol (CCMP) which uses 3DES for transmission security and data integrity authentication. 3DES (Triple Data Encryption Standard) is the encryption standard for use by federal agencies for sensitive unclassified information; 3DES also meets HIPAA security encryption requirements and is considered an industry-leading standard.

- Nextera uses a variety of authentication standards including end-to-end authentication using PKM-EAP (Privacy Key Management- Extensible Authentication Protocol) methodology which relies on the TLS standard of public key encryption. PKM-EAP defines how the Base Station and Subscriber Station can establish a shared secret that is used for authentication. In addition, all customer terminals associated with Nextera's access points are registered and synchronized by both frequency and clock timing in order to transmit and receive data.

Why Choose Wireless / WiMax with Nextera?

Value

- A single service that handles both your voice and internet needs.
- Dynamically allocates bandwidth for internet usage as voice calls connect and disconnect, providing the ultimate value.
- Minimal equipment needs.

Efficiency

- Customers are provided with a network connection that is "always on" for immediate access to the Internet and other IP services at high data rates.
- True Redunancy. Nextera owns and operates its own network unlike many others that rely on the legacy phone company for the last mile connectivity.

Productivity

- Grow the solution as your business requirements grow. Scalable, flexible bandwidth that in most cases can be increased with a phone call. No more waiting for an additional T-1 to be turned up.
- No need to re-train employees on basic calling features and functions because the customer-owned equipment doesn't change.

Savings

- Providing a high-quality voice and data solution at an economical cost.
- Create internal efficiencies and eliminate customer run-around to ultimately save time.

Service

- Temporary service is an ideal solution for construction sites, special events and sporting events.
- WiMax connections are symmetrical with equal upload and download speeds.

¹ Voice services are available where WiMax is deployed and is not available with traditional wireless service.

² Nextera uses a variety of technologies as part of its wireless network including WiMax, traditional wireless service and point to point microwave. QoS (Quality of Service) and SLA (Service Level Agreement) are only available for WiMax and Point to Point Microwave services and does not apply to Nextera's traditional wireless service.

We deliver the features you need in today's competitive business environment!
Contact us today at 877-639-8372 or www.nextera.net