

Economic Growth through Connectivity



Situation

ION TELECOM IS A RECENTLY-ESTABLISHED COMPANY THAT PROVIDES A VAST range of broadband connectivity services for both local and international markets. At the forefront of the eco-smart technology, they develop electricity using solar energy to power the radio devices through the natural power of the sun. ION Telecom set a goal to create and maintain an ecologically clean environment while providing necessary broadband data services to the second largest city of Libya, Benghazi city with a population of 1.5 million.

Benghazi is an industrial and commercial center with finance and food related industries developing at a high rate. This city is ready for a communications infrastructure that will satisfy the growing demands for data and other enterprise services. Promoting economic growth based on wireless broadband technology and integrated with clean energy is ION Telecom's task of the moment.

Solution

ION TELECOM CHOSE THE EPMP 1000 PLATFORM FROM CAMBIUM NETWORKS. It is the optimal platform to deliver broadband connectivity to its target customer segment – the food industry, and to expand into residential areas in the near future. ePMP offers features that are perfectly suited to the specifics of RF and the weather environment in Libya:

- 5.6 GHz band with higher power of 27 dBm allows for spectral agility
- Up to +60° C housing allows radios to withstand the harshest heat conditions typical of Libya's climate
- Frequency resilient technology from Cambium Networks enables the use of spectrum congested with other providers, while still delivering superb performance



The network was configured and installed very efficiently using the comprehensive CNS management system. The new deployment currently provides a strong opportunity for future expansion with the reliability and capacity needed in the city of Benghazi.

“For us, the 5 GHz band is extremely noisy. We were amazed with ePMP™ system performance in the face of external interference. We have a line of sight link operating at 7 km with -65 dBm of noise floor.”

- YAZEED ETTAIB,
DEPUTY CTO, ION
TELECOM AND
TECHNOLOGY

Results/Customer Benefits

ION TELECOM WAS ABLE TO CONFIDENTLY DELIVER BROADBAND

hotspots to many restaurants and cafes in the city center. The connectivity is boosting business for the food industry and for other vital industries in the city center. This is only the beginning. ION has considerable expansion plans to cover an even bigger area increasing 10-fold the number of subscribers in their network this year. By using Libya's natural resource - solar energy - to power the radios, ION Telecom will maintain ecologically and environmentally friendly, allowing even more opportunity for connecting current businesses and residents of Benghazi.



ePMP modules connect businesses and restaurants

ION Telecom

<http://www.iontel.ly>

Customer Base

- 100% Business

Service Mix

- 100% Data

Important Features:

- 5.6 GHz band with higher power of 27 dBm allows better transmission quality
- GPS Sync offers frequency reuse in congested RF areas in a busy city center
- Up to +60° C housing is resilient to high temperatures in Libya
- Up to 100 Mbps stable capacity satisfies current customer demands
- Up to 6 km range improves customer reachability