

Connecting to WiMAX

Encodex has been working with Clearwire as a partner for commissioning 4G mobile WiMAX network across the United States. With over three billion dollar investment and support from Sprint, Google and Intel; Clearwire is implementing one of the biggest new WiMAX network project. Encodex has consistently earned appreciations as the valuable resource towards Clearwire's technology and new network deployment.



4G / WiMAX Network Commissioning

Encodex Telesystems has built a strong network commissioning team in India and in U.S. to enable the new network. In past two years team has remotely deployed large number of multi vendor WiMAX access points, microwaves, switches, site controllers and power supplies. The team also conduct audits, fine tune the elements and undertakes software and hardware upgrades.



New Network Commissioning Expertise

Typically the new network commissioning life cycle would involve setting up the microwave link, including in some cases T1 to microwave migrations.

Encodex expertise span the full life cycle of the commissioning, including:

- Switch provisioning that involves VLAN configurations and tunneling.
- Configuration of DragonWave microwave units (Airpair, Horizon duo, Horizon compact).
- Configuration of Motorola Orthogon Redline, Ceragon and e-band microwave units.
- Configuration of BTSs by tuning RF parameters, mobility specs and neighbor relationships. Hands on skills with Motorola, Huawei and Samsung equipments.
- Other skills include configuring site controllers, power supply and validating Digi modem access for remote management over GPRS.

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DAP add for Motorola involves various stages like adding DAP to EMS, configuring it's RF parameters, adding inter and intra cell neighbors, troubleshooting steps to bring up the sector successfully so that customers can connect to the site and access internet.

A successful DAP add is followed by the full equipment configuration check on all devices in the site cabinet, such as Microwaves, Asentria Site boss, Valere unit for Power supply, validate Digi modems access.

The site is then tested for power fail to ensure that the traps are received for future NOC monitoring. Once the power fail is complete, and after field tests are done, site is then set On-Air for NOC to monitor it.

Special Project focus

Encodex Team also undertakes special projects and specific tasks in some markets. This may include standard parameter changes or specialized tasks like software upgrade for microwaves, site audit or ring closures.

Encodex Process Management and Best Practices

To accomplish the commissioning and auditing tasks Encodex network engineers work in coordination with the field operations. Regular interaction with field has given the team sense of tough field situations and taught them the required patience.

The team follows innovative scheduling and uses work flow tools to manage network operations and to deliver outstanding service with precision in distributed work environment. Effective team communication system and information tools help to share information. The team also follows a clear escalation matrix, procedures and team management techniques. The team is guided by strict quality control indicators and all tasks are monitored by high acceptance standards.

Encodex has adapted ITIL framework in its network operations and is governed by implementation of the best practices.

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