



**encodex**  
TELESYSTEMS  

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Connecting WiMAX

For the past two years Encodex has been partner in the new network planning, optimization, deployment, OSS tools enhancements and implementations and support services for Clearwire Corp. Encodex has worked with Clearwire to commission, deploy, audit and support its WiMAX network throughout the North America. From these deployments Encodex has developed a deep understanding of the challenges operator faces implementing WiMAX network, and has trained its teams with the proven techniques to overcome them.

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## ▪ Encodex WiMAX Offerings

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## ▪ Infrastructure Planning

Infrastructure planning is the key to successful deployment, resource inventory management and capacity planning must be done rigorously for effective operations. This extensive planning is achieved with the help of vital field statistics gathered from site surveys, coverage mapping and cell planning tools. Also Encodex can provide custom OSS modules that can effectively model and manage:

- WiMAX base stations and antennas
- Multi vendor end user devices
- New device types and topologies
- Relationships between resources and service

## ▪ RF Engineering



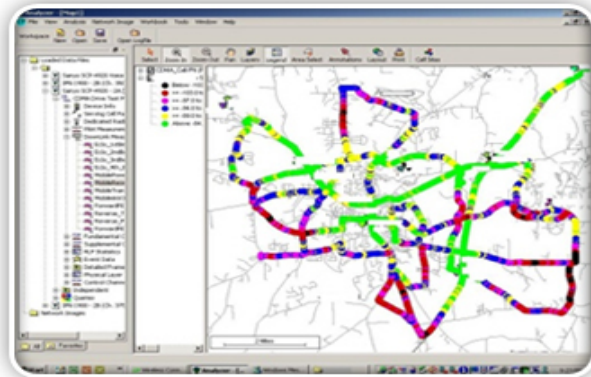
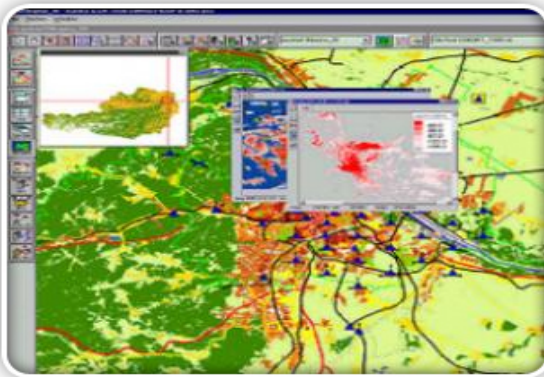
Radio network planning: Encodex consults on providing full radio architecture plan of the network in terms of BTS, MW & Antenna plan by using planning tools like Planet 5. Coverage prediction is obtained to plan the launch in new markets or expand services in older markets.



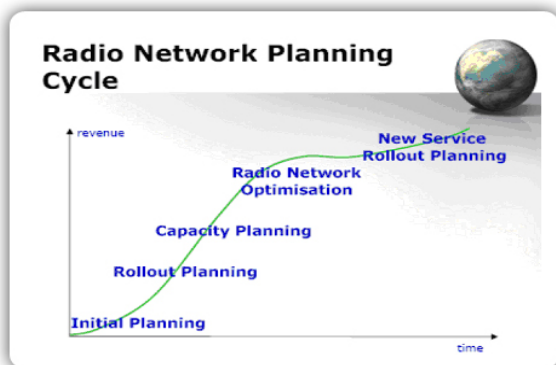
Encodex is monitoring 25 markets in the North America for the daily performance of network on BTS level, Cluster level and market level. This is done with the help of customized performance reports from OMC and KPI analysis through those reports.



**Statistical measurements and observation through Drive-test:** Apart from the reports available by OMC it is also important to know from field actual situation of the network.



**Guidelines for network expansion based on traffic requirement:** Encodex provides full support for finding and analyzing major offenders in traffic overload or sites with very low traffic in various markets for Clearwire. Encodex proactively provides recommendations on this.



## ■ WiMAX Commissioning

Encodex has so far commissioned several thousand base stations and network elements in U.S. Commissioning includes equipment check, power-fail of all site equipments, switch and microwaves configurations.

## ■ Network Engineering, architecture and operations

Encodex also extends Tier-2 support for network design engineering, network architecture consultations and 24 x 7 x 365 support for network operations from its NOC. An industry standard solution can be deployed if the need is urgent or a customized solution can be developed by in-house team of software experts to suit the requirements of the operators. NOC also delivers proactive network performance monitoring and reports and feedback from RF Engineers are made available.

## ■ Scalability

Encodex WiMAX solution enables enterprises to meet scalability and infrastructure diversity as it works along with the existing wired or wireless technologies; It can seamlessly and flexibly support solutions like cellular backhaul, broadband internet access and converge mapping services.

## ■ The Encodex advantage

Today's telecommunications world is highly complex and demands the rapid delivery of custom services over a wide range of Network and IT infrastructures. Encodex brings order to this complexity through flexible and powerful tailor made software solutions, combined with telecom industry-specific expertise and professional services in wireless Internet service.

Encodex's innovative solutions and services transform the Service Layer by linking customer services to the Network Layer. The result is faster technology deployment at reduced cost, the ability to provide any service over any network, and increased customer satisfaction

