

MetroReach[®] Focus Features

MetroReach Focus is a broadband optical wireless networking solution for 2G, 2.5G, and 3G networks, with the following key features:

- Broadband technology (supports 500 MHz through 2.2 GHz UMS)
- Supports both single and multi-operator solutions
- Reduces operator's site acquisition costs and ongoing maintenance expenses
- Maximizes utilization of limited radio channels
- Unobtrusive components for easy, non-disruptive installation
- Scalable and reliable
- Flexible implementation
- External and remote OA&M capability

MetroReach

Wireless operators are being pushed to keep up with the current growth of customers and wireless applications. As wireless usage has tripled in the past few years along with the emergence of the wireless web, dozens of new applications and the move from 2G to 3G technology, is pressuring wireless network operators to find fast, cost-effective ways to increase capacity, expand coverage and ensure clarity. The MetroReach family addresses these challenges by distributing RF over fiber from a central basestation hotel to multiple remote sites. MetroReach products from LGC Wireless provide an innovative economical alternative to today's expensive and difficult-to-deploy solutions.

Tough challenges to be sure. MetroReach Focus meets those challenges head on with an innovative, 3G-compatible optical broadband solution that extends network capacity quickly and at significant savings. MetroReach Focus can be used for single or multiple operators and is protocol and frequency independent.

In areas with high traffic demand, typical expansion requires a basestation, MSC resources, and a T1/E1 line. MetroReach Focus uses broadband optical technology to let you centralize radio resources at selected sites and distribute the signal to remote endpoints. Simultaneous broadcasting of all radio channels to all



And all protocols, including:

- Voice protocols: AMPS, CDMA, GSM, iDEN, TDMA
- Data protocols: CDPD, EDGE, GPRS, WCDMA, CDMA2000 and Paging

MetroReach Focus is broadband and protocol independent.

Ease of Installation

MetroReach Focus utilizes a modular, plug-and-play design that makes it easy to install. Because industry-standard connections and cabling are used, both installation time and cost are reduced. The MetroReach Focus units have a small footprint, which requires only minimal "real estate"; they mount in standard 19" racks and the system requires standard AC power.

Protocols

MetroReach supports all major wireless frequency bands and protocols worldwide, including:

- 800 MHz, 900 MHz, 1800 MHz, 1900 MHz, and 2100 MHz

And all protocols, including:

- Voice protocols: AMPS, CDMA, GSM, iDEN, TDMA
- Data protocols: CDPD, EDGE, GPRS, WCDMA, CDMA2000 and Paging

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Product Sheet

Management Tools

Alarm Report Monitor

The Alarm Report Monitor (ARM2000) monitors the alarm contacts on the MetroReach Focus Modules and communicates the alarms to the OpsConsole using dial-up modem connections, over the public switched network (PSTN). Each ARM2000 can monitor major alarms for up to sixteen collocated devices.

AdminManager

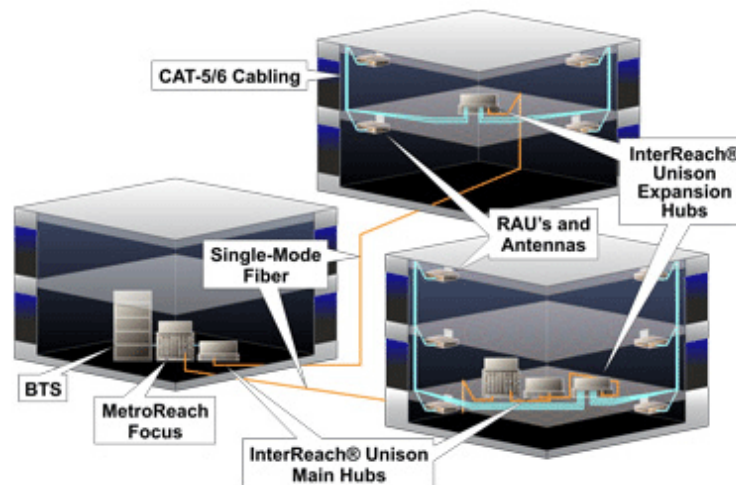
The AdminManager software runs on a PC/laptop and is used to configure, maintain, and monitor MetroReach Focus systems that are connected to an Alarm Report Monitor unit. Connected directly to a system, you can access the Installation Wizard which lets you configure a newly installed system, or you can access the Configuration & Maintenance Panel which lets you query system status, configure a newly added or swapped unit, or change system parameters. Connected remotely, you can use the AdminManager to query system status via a read-only Configuration & Maintenance panel.

Components

There are two main MetroReach Focus components:

- **Main Hub Assembly (MHA):** The MHA is placed at a central location with a basestation or group of co-located basestations. The MHA houses modules that gives users the flexibility to combine radio resources and simulcast select channels to select end points. These signals are distributed from the centralized MHA to the far end Remote Hub Assembly via broadband optical links (single mode fiber) that can be up to 9.3 miles (15 kilometers) away from the MHA, thereby providing tremendous reach.
- **Remote Hub Assembly (RHA):** The RHA is placed where capacity is needed. The RHA accepts optical signals from the fiber, converts to RF, and then connects to an LGC Wireless solution such as InterReach Unison[®] as to further extend the system's reach.

Both the MHA and the RHA fit in standard 19" rack mounts.



...closing the gap