

OneBase InSite[™]



Remote Cell Site Control and Monitoring Solution

- Remotely Controls and Protects Your Network
- Tracks and Measures Cell Site Performance for Peak Operation
- Identifies Performance Problems with Speed and Precision
- Enables Efficient, On-demand Intervention in Site Failures or Breakdowns

Since the best problems are those successfully avoided, Andrew Solutions has introduced the OneBase InSite™ Product Family, enabling wireless operators to monitor cell sites remotely for performance degradation before it affects network integrity.

By routinely monitoring cell site network performance, Andrew's OneBase InSite products help operators prevent minor problems from turning into major disruptions, saving them money by avoiding costly dispatches of emergency repair crews and helping maintain customer satisfaction. Operators cannot afford to have a site go down due to power loss, failing equipment or other concerns; OneBase InSite is the smarter, easier way to track cell site performance regularly.

The OneBase InSite product line is comprised of two primary systems: The InSite Connect System which includes a Central Management System (CMS) and Remote Controller Unit (RCU); and the InSite RF System which is comprised of an RF Diagnostic Unit.



InSite™ Connect

Central Management System and Remote Controller Unit

The CMS server, which acts as the notification center for site alarms and status information, is centrally located and designed to communicate with an RCU at each cell-site. The server is capable of managing up to 2000 cell-sites. If more than 2000 cell-sites need to be managed, then multiple CMS servers can be deployed. Furthermore, these servers are capable of being interconnected to perform like a single Virtual Server.

The CMS is not only capable of real-time cell-site equipment maintenance, status, and alarming, but also is capable of scheduling future site specific changes on either a one-time or a regular recurring schedule.

In addition, the CMS is capable of generating reports that summarize the cell-site specific data that is constantly being gathered by the RCU units at each cell-site.

The RCU is the central aggregation point for each cell-site and provides the connectivity and control to all cell-site operational subsystems including remote monitoring and controlling of AISG compliant RET antennas and tower mounted amplifiers.

Some sample cell-site subsystems that can be monitored and/or managed include:

- AC Power Transfer Switches
- Battery Discharge
- Battery Monitors
- CSU
- DACS
- Entry alarms
- Fire/Smoke
- Fuel Cell
- Generators
- Humidity Sensors
- Hydrogen Detectors
- MCPA
- Microwave
- Power Fail
- RET Antenna Controllers
- RXAIT
- Temperature
- Thermostats
- TMA
- Tower Light
- Water Intrusion
- Camera

The RCU is a 1RU rack-mountable unit with a total of 85 ports available for connectivity to local cell-site subsystems.

The RCU includes a Remote Electrical Tilt (RET) Antenna controller imbedded within it. With this feature, the RCU provides standard AISG interfaces for monitoring and controlling AISG 1.1 and AISG 2.0 compliant RET antennas and TMA's.

In the event that the ports available on the RCU at a cell-site are insufficient to connect to all required subsystems, the OneBase InSite Connect system also includes an optional RCU expansion chassis. This expansion chassis is a 1RU rack-mountable unit with additional slots for:

- Dry contact ports
- Ethernet ports
- Analog ports
- Serial ports
- Relay ports
- USB ports

If required, multiple optional RCU expansion chassis units can be deployed at a cell-site allowing for the support of additional ports per site.



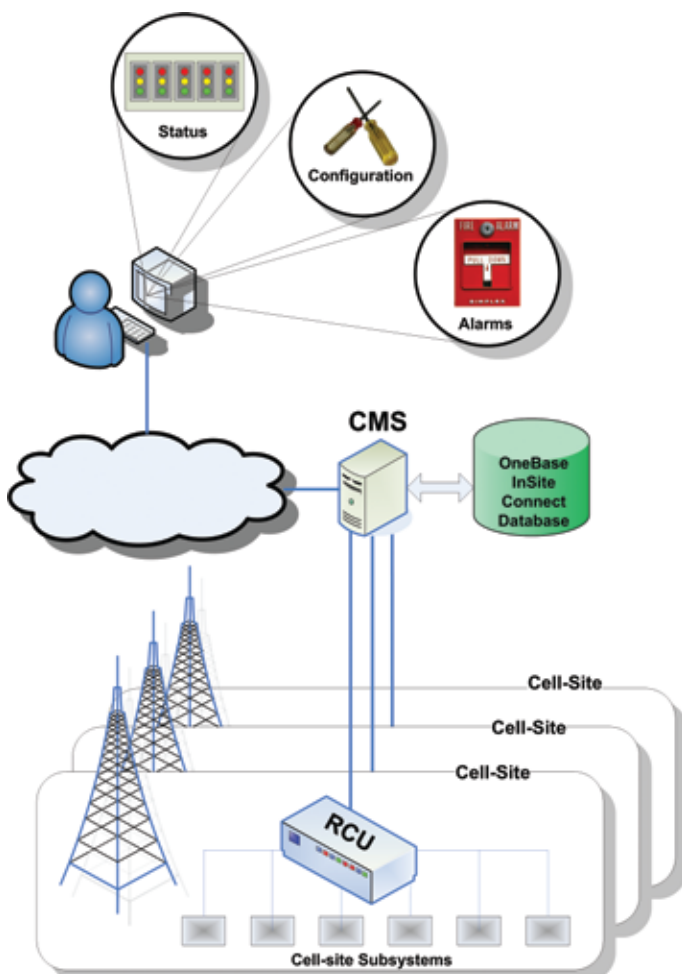
InSite™ RF

RF Diagnostic Unit

The OneBase InSite RF component is a stand-alone unit mounted in or alongside a standard base station transceiver (BTS) rack, and works with any original equipment manufacturers BTS radio equipment. It can run site tests automatically according to a schedule or in real-time via an Internet connection. InSite RF takes readings on antenna feedline return loss, in both uplink a downlink frequency bands, pilot power, and other site metrics and will notify radio frequency technicians via alarms when performance is at or nearing sub-par levels. InSite RF is Andrew's first stand-alone site diagnostic product for installation at the BTS site, though a similar solution has previously been sold as part of the company's multicarrier power amplifier.

RF Diagnostic Unit Features & Characteristics:

- Cell site RF Diagnostic Unit
- BTS transmit signal analysis. Capable of 2G, 2.5G, and 3G air interfaces.
- Real-time antenna feedline VSWR monitoring
- RX band VSWR measurements
- RX band interference analysis
- Built-in spectrum analyzer with user-defined frequency span, averaging
- Built-in tone generator enabling PIM measurements and swept RF measurements
- Advanced digital receiver with wide dynamic range and auto-leveling
- Automatic, scheduled testing with alarm and measurement log
- Web server with Ethernet interface
- 19" rack-mount unit
- 3-sector capable unit



Optimization Solutions that Work for You

Andrew, a CommScope Company, is the foremost global supplier of one-stop, end-to-end radio frequency (RF) subsystem solutions. Andrew designs, manufactures, and delivers complete solutions for wireless infrastructure—from top-of-the-tower base station antennas to cable systems, RF site solutions, signal distribution, and network optimization.

Both the OneBase InSite Connect System and the OneBase InSite RF System can be purchased alone or bundled together depending on operator requirements. Andrew OneBase InSite system provides its customers with the tools, services and solutions necessary to optimize their networks and deliver network performance information that greatly improves the quality of service to mobile operators and users worldwide.



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BR-102619.2-EN.GB (09/09)