

AW 96 Series IP-RAN System Operating Description

1 Overview

The AirWalk AW 96 IP-RAN Base Station (CDMA-2000) product is unique in the way that it combines both BTS and BSC functionality in one compact platform.

This product is designed for efficiency and optimized to reduce the service providers CAPEX, and OPEX and at the same time, it increases the number of users per assigned spectrum.

It provides higher capacity in less space for today's spectrum hungry data and multi-media applications.

The AW 96 system provides the following advantages:

- Easily adapted to 3FA/Omni structure.
- Supports 2G (TIA/EIA-95, J-STD-008) and 3G-1X (CDMA2000) standards
- Supports data service transmission of 1.2 kbps to 144 kbps (307 kbps max)
- Provides 96 basic channel elements.
- Easy repair and support and improved network reliability
- Provides an 'All-IP' solution
- Provides an effective solution for enterprise networks and hot spots
- Available in optional configurations such as self-contained MiniCell and Pilot Beacon

2 IP- Base Station (BS) System Description

The AW 96 IP-RAN (Internet Protocol Radio Access Network) is composed of two main modules: The IP based BSC and the IP based BTS. When an AirWalk IP-RAN is installed in an 'ALL-IP' network the integrated BTS is controlled by the integrated BSC, and the integrated BSC is controlled by a SS (Soft Switch). Legacy Switching Systems can also control the integrated BSC through standards based interfaces.

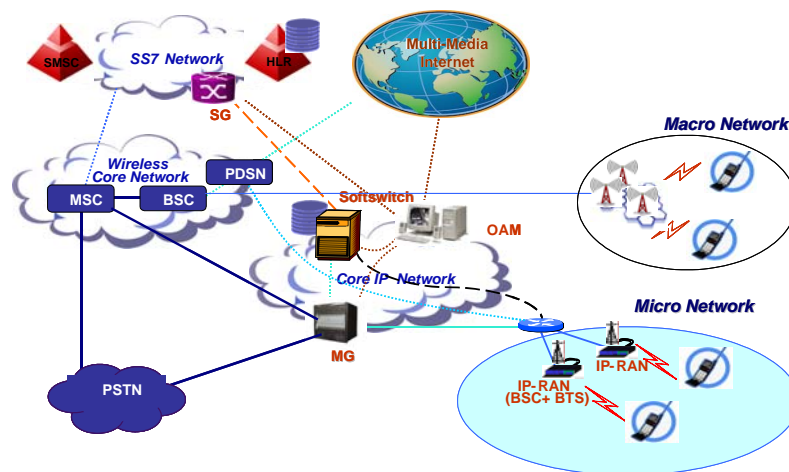


Figure 1 Network Diagram