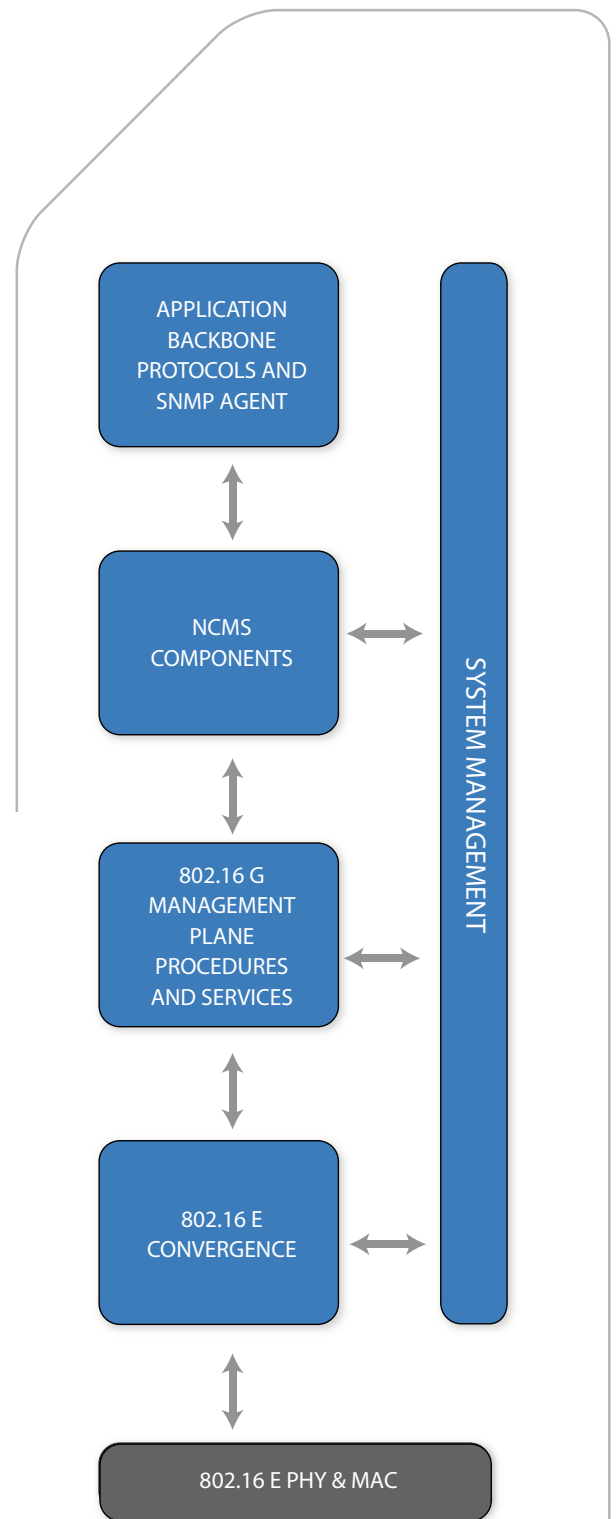


WiMAX BS Software Solution

Our WiMAX Base Station Software Architecture, offers benefits such as Real Time Operating System independency, so as to enable change of operating system with out much effort. WIMAX protocol stacks vendor independency, so that any vendor's stack can interoperate with other software modules of base station. Separation of control path and data path modules will enable data path module to be replaced by H/W devices and achieve good performance. QOS sensitive data path design enables the high priority data to be treated immediately. Inter process communication (IPC) methods & concurrency design enables the equipment to provide better QOS with in the base station. Scalable to multiple daughter board based sector design (or) Single-processor/single-board based multi-sector design.

Base Station Components

1. 802.16 MAC CS
2. Data Path
3. 802.16 g
4. System Management
 - Software Management
 - License Management
 - Faults performance
 - System Monitoring and Recovery
5. NCMS components
 - CM - Configuration Management
 - PM - Performance Management
 - ACM - Accounting Management
 - ALM - Alarm Management
 - SM - Security Management
 - HO – Handover
 - PG – Paging
 - SFM - Service Flow Management
 - SMC - Secondary Management Connection
 - RRM - Radio Resource Management
 - NEM - Network Entry Management



WiMAX BASE STATION BLOCK DIAGRAM

ADVANCED TECHNOLOGY DESIGN CENTER

Embedded Wireless Labs is an Advanced Technology Design Center established in 1998. A fully state-of-the-art facility based in Kuala Lumpur, Malaysia with an experienced staff from all over the world. EWL past developments include developmental projects across a wide range of Advanced Wireless Telecommunication and Internet Technology products and systems. High Value engineering design and development delivered at a lower cost from a world class location. Our lab has experienced Global Management and Advanced Design Engineering teams.

Facilities and Resources

Advanced facility in an ISO 9002 building, capital spent on advanced test equipment like R&S vector signal analyzers, Agilent RF test equipment, Tektronik GHz scopes and a wide range of Logic analyzers, protocol analyzers, JTAG devices and debugging tools. Test beds for Telecommunications using V5.2, SS7, MFR2 protocols and voice QoS Analysis. Call generation facilities simulates telecommunications switches world wide. Test bed for IP based applications. Microwave Engineering test beds.



Design Services

Microwave RF Engineering

Design of RF Transceivers, Amplifiers, LNA's, PLL's and interfaces for digitally modulated broadband radios. Simulations and modeling using Agilent ADS and co-simulation with Cadence tools.

Digital/Analog/FPGA

Design of Mixed signal and High speed on multi-layer PCBs and certification for various safety and communication standards. FPGA baseband processor development, IP core logic and Test bench developments.

Embedded Software Development :

TI based DSP, Motorola Power PC and High end Microprocessor RTOS using Thread X, VxWorks and Linux development platforms, feature addition to existing product line.

Software

Development of a wide range of Web based applications based on C++, Java, CORBA Languages, AJAX.

Support

Mechanical and Industrial Design, Web Design, Brochures, Graphics, Procurement, Project and Quality Management.

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