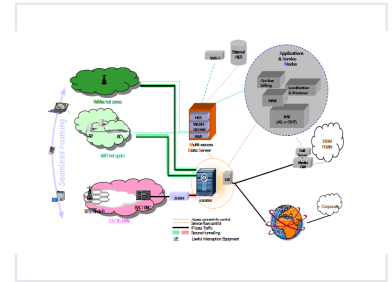


WLAN/GPRS Seamless Roaming Solution

This solution enables seamless roaming between WLAN and GPRS networks. The network structure integrates WLAN technology and mobile network technology.



Overview

Seamless Connectivity Solution

This seamless roaming solution is designed to bridge the gap between WLAN and GPRS/UMTS networks, ensuring continuous connectivity for mobile users. By integrating a multi-access data server, intelligent gateway nodes, and client software, it enables automatic network selection and secure authentication. The system provides a unified billing and subscription management architecture, making it an ideal infrastructure for mobile operators to support IP data services.

System Architecture

Core Components

- WAS (WLAN Access Server) / MDS (Multi-access Data Server)
- MIC (Multi-access Intelligent Client)
- iGGSN (Intelligent Gateway GPRS Support Node)

Integration Interfaces

- HLR Connection
- SMS-C
- PSTN/PLMN
- Call Server
- Media Gateway
- Corporate Networks

Supported Networks

WLAN, GPRS, UMTS, 3G

Authentication & Security

Security Features

- VPN support for Intranet access
- AAA protocol support
- Radius VSA support
- Session Control

Authentication Methods

EAP-SIM, Web-based, SIM-based, WPA (802.11i)

Billing & Operations

Billing & Management

- Unified billing account
- Scratch card billing
- SMS-based business support
- Content-based data service billing

Client Features

MIC Client Capabilities

- Automatic detection
- Network identification
- Optimal access technology selection