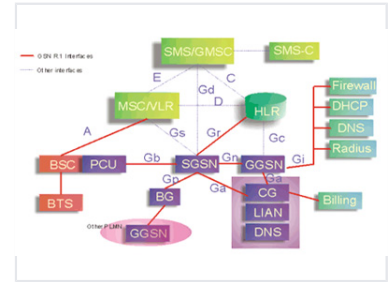


Radio Network Infrastructure

This infrastructure supports SMS, data routing, and user authentication. It also provides network security within a radio network.



System Overview

Comprehensive Radio Network Architecture

This advanced radio network infrastructure provides a robust, scalable framework for modern telecommunications. Designed to facilitate seamless SMS delivery, high-speed data routing, and secure user authentication, the system integrates essential core components including BSC, SGSN, and GGSN. It ensures reliability through multi-layered security protocols such as firewalls and radius servers while providing streamlined billing and management integration.

Network Components

Support and Security Services

- Domain Name System (DNS)
- Firewall Security
- DHCP Server
- Radius Authentication
- Charging Gateway (CG)
- Border Gateway (BG)

Integrated Core Nodes	BTS, BSC, PCU, MSC/VLR, SGSN, GGSN, HLR, SMS-C, Billing System
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Connectivity Interfaces

Interface Protocols

Interface Type	Functionality
A, Gb, Gn	Core signaling and packet transport
Gi, Gp, Gs	External gateway and roaming
Gr, Gc, Gd	Location register and messaging
C, E, Ga	Network management and charging