

THE WIRELESS
CONNECTIVITY
CENTRO

RADWIN 6800 3G Small Cell Gateway

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Agenda

- HW platform
- System characteristics
- Product feature set
- Management subsystem feature set
- Standard Compliances



HW Platform

- Dell PowerEdge R320
- Form Factor: 1U rack
- Processor: Intel XEON E5-1410
2.80GHZ, 10M CACHE
- Memory: 8GB DDR3
- Hard driver: 300GB, SAS 6GBPS
- RAID controller: PERC H310
- Dual hot plug power supplies 350W
- Broadcom 5720 Dual port 1Gb
- Availability: High-efficiency, hot-plug,
redundant power supplies; hot-plug
hard drives; fan fault tolerance
- CE Mark Compliant



RADWIN 6800
Gateway

System characteristics

Parameter	Value
Number of ports [SCs]	500
Busy Hour Call Attempts [BHCA]	1,000,000
CS traffic [Erlang]	10,000
PS traffic [Mbps]	1000

Product feature set

- Interfaces
 - IP based Iuh towards small cells
 - IP based Iu CS/PS towards Core Network
- Authorization of small cells (SC) registration
- Authorization of UEs registration
- Mobility
 - Hand-out (handover) to Macro Network (UMTS and GSM)
 - Hand-in (handover) from Macro Network (UMTS and GSM)
 - SC to SC handover
 - Paging Optimization
- Iu-Flex support (multiple CN nodes)
- CN Selection/Reselection (multi operator support)
- Different PLMN support
- Multiple data path and multi homing support (system scalability)
- Multiple small cells groups management
- Emergency Call support
- Close Subscriber Group (CSG / non- CSG) support
- Multi RAB support

Management subsystem feature set

- Configuration Management
 - Command line interface
 - Bulk configuration support
 - Version management
 - Multi level policy management
- Performance Management
 - Statistics
 - System Monitoring
- Fault Management
 - Alarm reporting
 - Alarm history logs
 - Multiple levels of trace types

Standard Compliances

- 3GPP R9/R8 (Sep'11) specifications compliant
 - 3GPP specifications:
 - HNBAP - 3GPP TS 25.469 (3GPP R9 – Sep'11)
 - RUA - 3GPP TS 25.468 (3GPP R9 – Sep'11)
 - RANAP - 3GPP TS 25.413 (3GPP R8 – Sep'09)
 - GTPU – 3GPP TS 29.060 (3GPP R9 – Sep'11)
 - ITU-T/IETF specifications:
 - SCCP - ITU Recommendation Q.711 to Q.714 (1996), ETSI Recommendation 300 009 –1 (1997)
 - M3UA - IETF RFC 4666
 - RTP – IETF RFC 3550



ANY QUESTIONS?

THANK YOU

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