Small Cell Base Station SW Based on 3GPP Rel.10

Technology Overview

- 3GPP Rel.8~Rel.10 Base Station L2/L3 Protocol Stacks (MAC, RLC, PDCP, GTP, RRC, S1AP, X2AP)
- Comprehensive Radio Resource Management
- Distributed SON (Self-Organizing Network) Agent
- SCAPI (Small Cell Application Platform Interface) Compliant MAC-PHY interface

Core Technologies

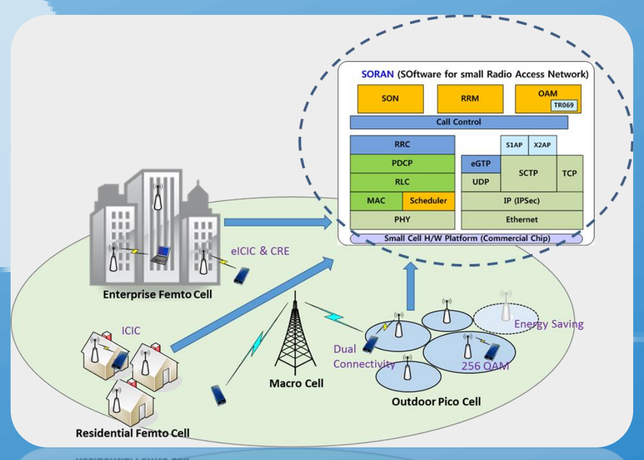
- 3GPP Rel.8~Rel.10 Compatible L2/L3 Protocol Stacks
- Smart RRM Algorithms (QoS aware scheduling/Radio Bearer Control, Dynamic Resource Allocation, ICIC, and etc.)
- Hybrid SON Features (Auto-configuration, Automatic Neighbor Relationship, Energy Saving, and Optimized PCI (Physical Cell ID) Selection)

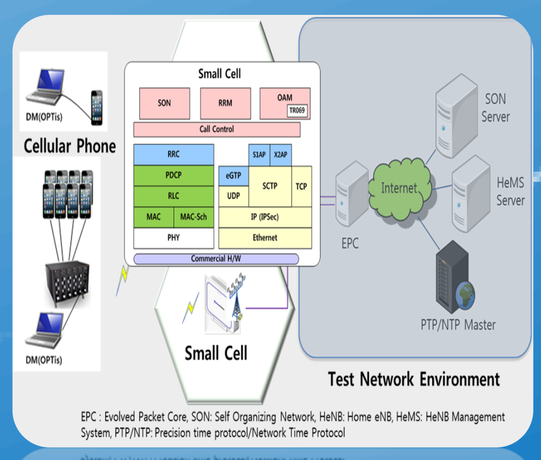
Application Area and Advantages

- Small Coverage Base Station (Femto Cell, Metro Cell, Micro Cell)
- Software Framework Architecture supporting Protocol Stacks Separated from HW

Accomplishments

- RRM/SON Algorithm IPR and small cell related papers
- partnership (technology transfer, technology licensing)





EPC : Evolved Packet Core, SON: Self Organizing Network, HeNB: Home eNB, HeMS: HeNB Management System, PTP/NTP: Precision time protocol/Network Time Protocol