



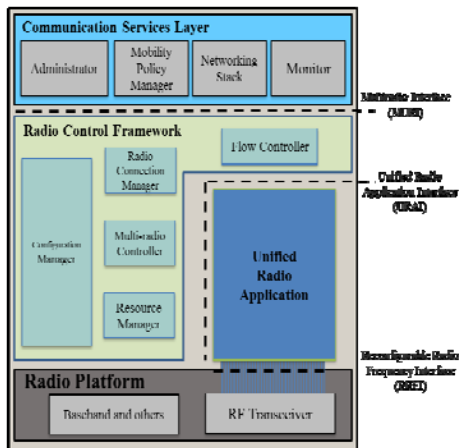
Reconfigurable Radio System

Standard Architecture and Interfaces for Reconfigurable Mobile Devices

TECHNICAL FEATURES

Architecture and Related Interfaces

- **Standard Architecture for Mobile Device Reconfiguration**
 - Communication Service Layer (CSL) - Radio Control Framework (RCF)
 - Unified Radio Application (URA) - Radio Platform
- **Related Interfaces for Mobile Device Reconfiguration**
 - Multi-Radio Interface (MURI)
 - Unified Radio Application Interface (URAI)
 - Reconfigurable Radio Frequency Interface (RRFI)



Improved Characteristics

Typical Approaches

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • Hardware dependency • Heavy middleware • Saturation of communication market | ➔ | <ul style="list-style-type: none"> • Non-flexibility RATs • High complexity • Red ocean |
|---|---|--|

New Mobile Device Route

- Decoupling of software modem and hardware platform via ETSI standard

This RRS Enables...

Network Operators

- To adopt an optimal Radio App for their own network
- To adopt a new Radio App that is customized to their own network
- To optimize radio resource usage

Software Developers

- To use any mobile devices from different vendors, once the standard interfaces are adopted in the devices
- To invest no extra efforts/time/cost to match the interfaces for each new Radio App

Manufactures

- To speed up new device development due to the software and hardware reusability
- Decrease development costs due to the post-silicon bug fixing and the hardware/software reusability

APPLICATIONS

Mobile Devices

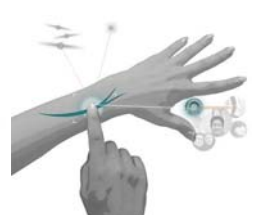


Connected Cars



Robots

Internet of Things



Medical Communications

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