

Transmission of IPv6 Packets over IEEE802.16 Networks

Yong Jin Kim

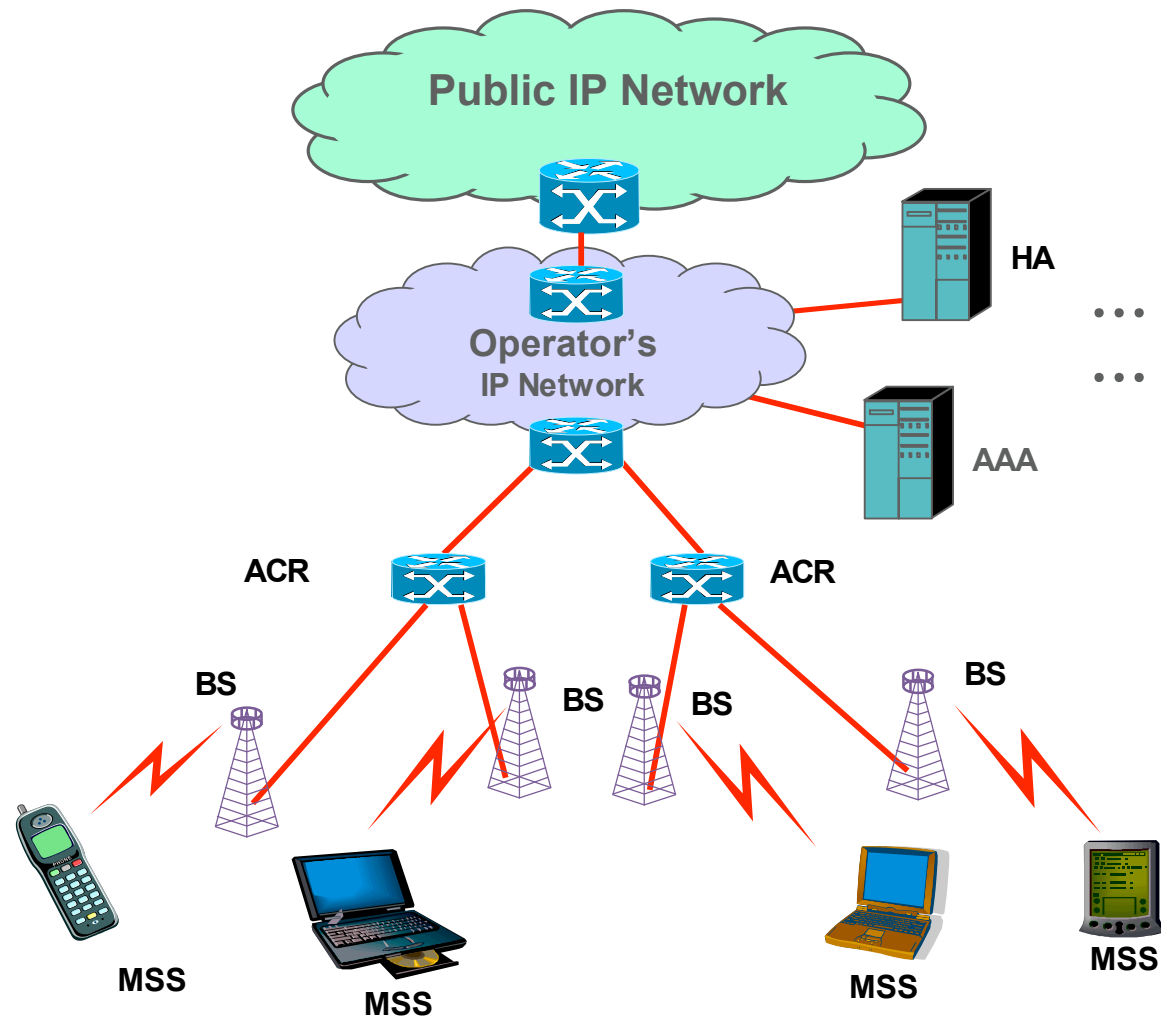
Background

- WMAN based on IEEE802.16 specifications is emerging as a promising technology supporting Mobile Broadband Wireless Access with wide coverage and inexpensive cost.
- The access networks are being established and the service will be very active within 1~2 years.

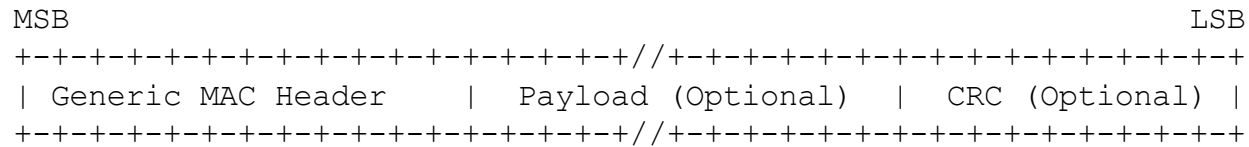
Motivation

- New IT area is the right place for early IPv6 deployment
- Now is the right time for the specifications of IPv6 related issues for WMAN technologies

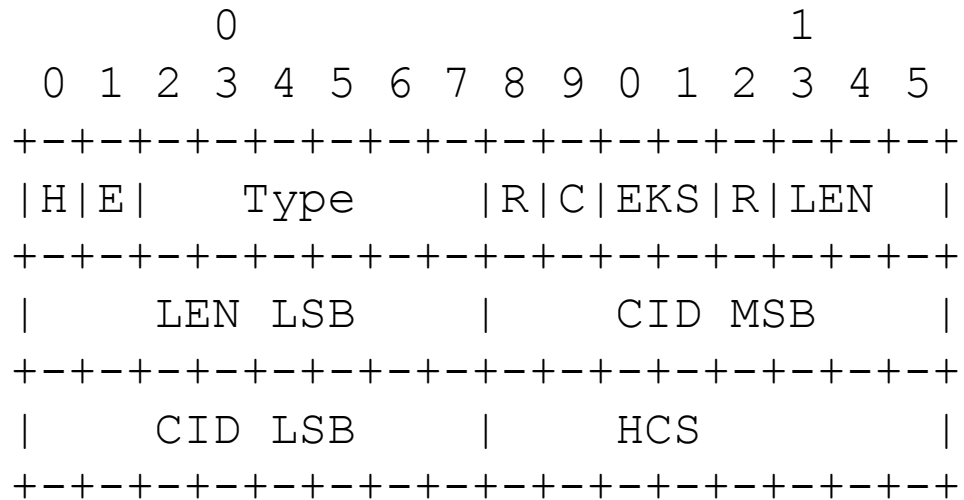
Network Architecture



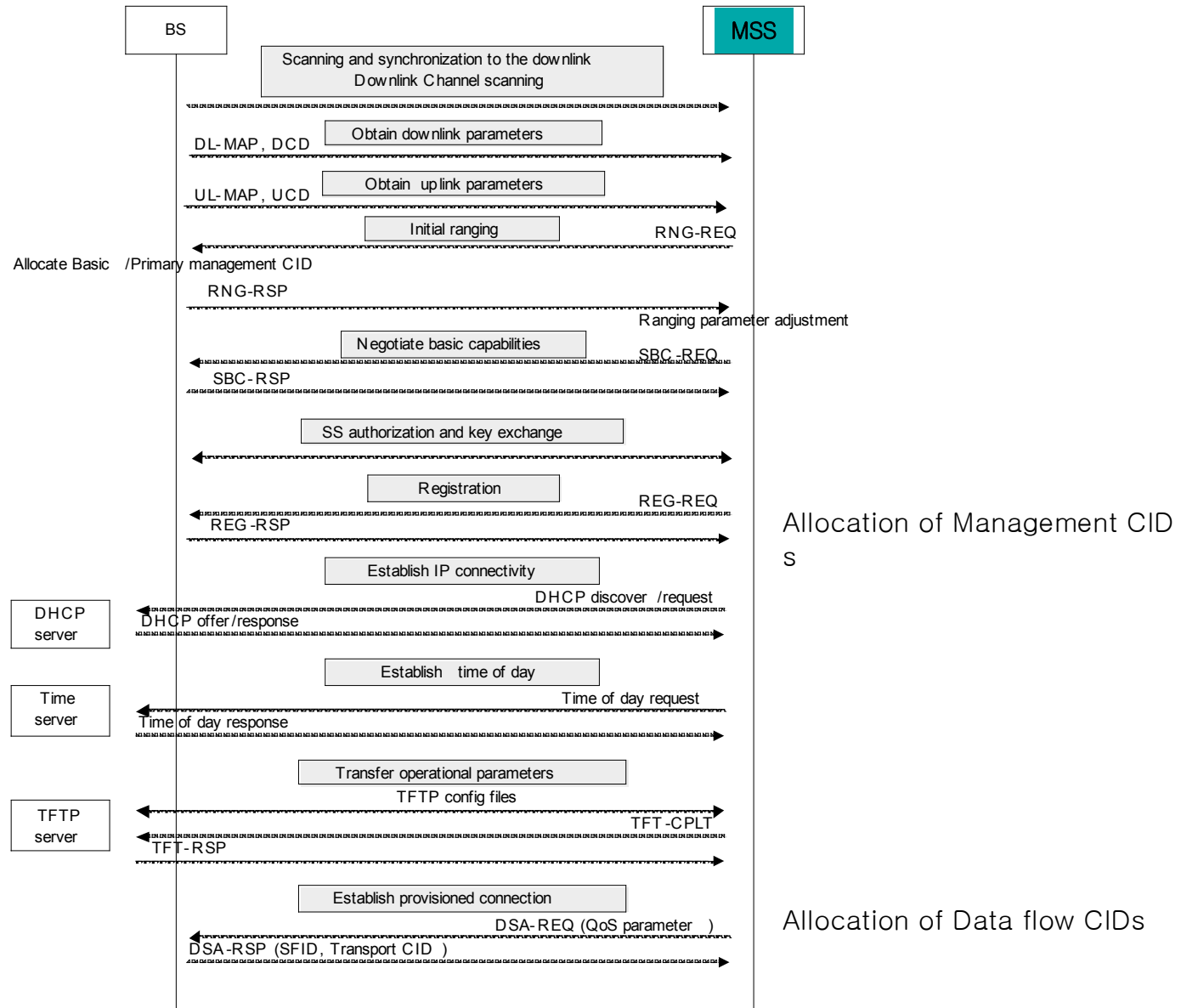
Frame Format



Generic MAC Header Formats in the MAC PDUs have the form illustrated below.



Signaling between MSS and BS



The Issues

- Terminology
- Maximum Transmission Unit
- Frame Format
- Stateless Address Autoconfiguration
- Link Local Addresses
- Address Mapping – Unicast and Multicast
- Security Considerations

Proposal

- draft-jin-ipv6-over-ieee802.16-00.txt
- New Project of IPv6 WG or appropriate New WG ?