Applicability of Proxy Mobile IPv6 for Service Provider Wi-Fi Deployments

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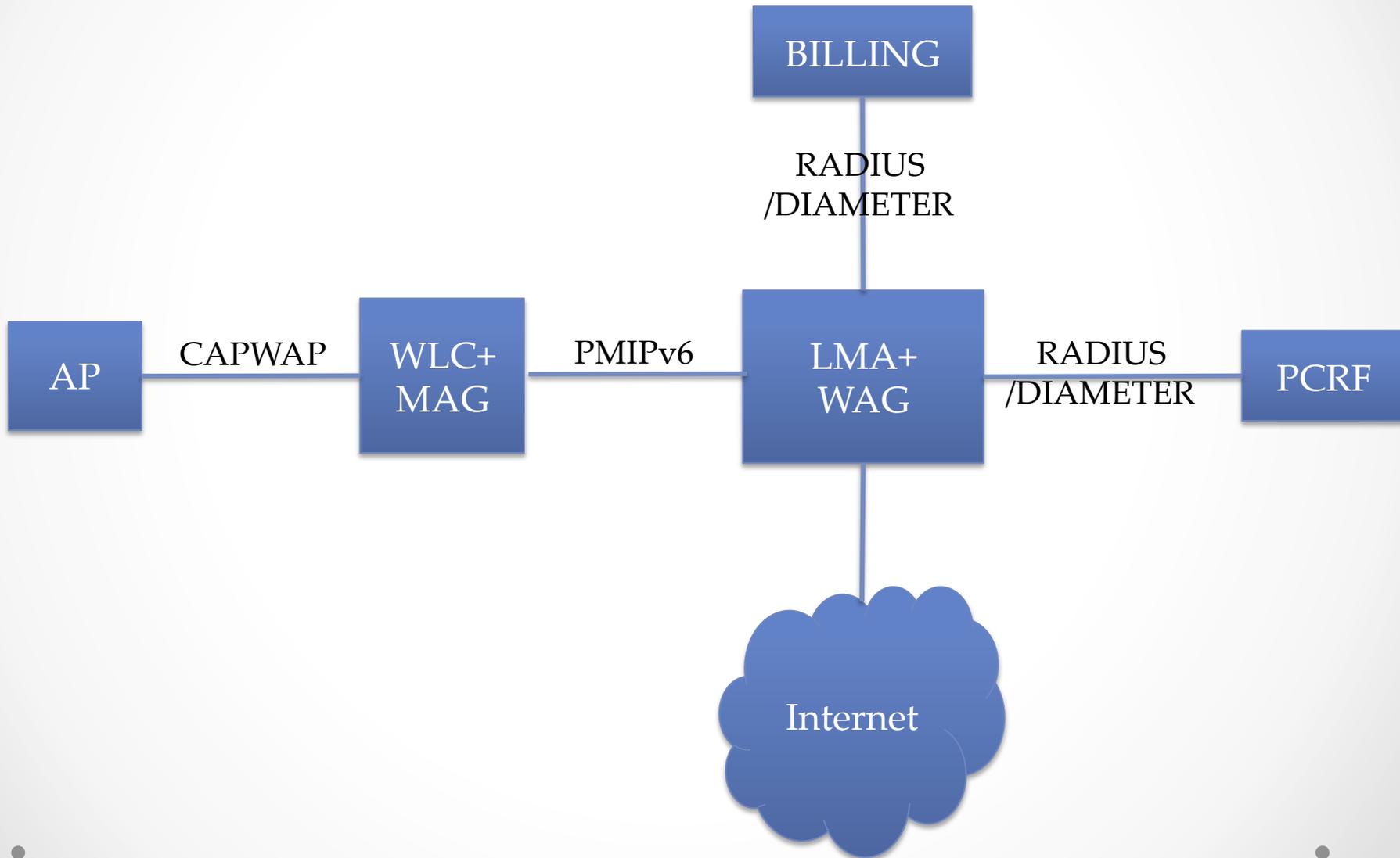Rajeev Koodli
Sri Gundavelli

Motivation

- PMIPv6 is specified as a mobility protocol which is access agnostic. The specifications do not make any assumptions on the access technology.

- There has been lot of momentum around the use of PMIPv6 based Architecture models for SP Wi-Fi deployments

- In addition to the requirements around mobility, various Wi-Fi specific deployment needs can be addressed by the PMIPv6 protocol and the extensions

- Objective is to go over the architecture use cases for SP Wi-Fi based up on PMIPv6 and discuss some of the key deployment considerations
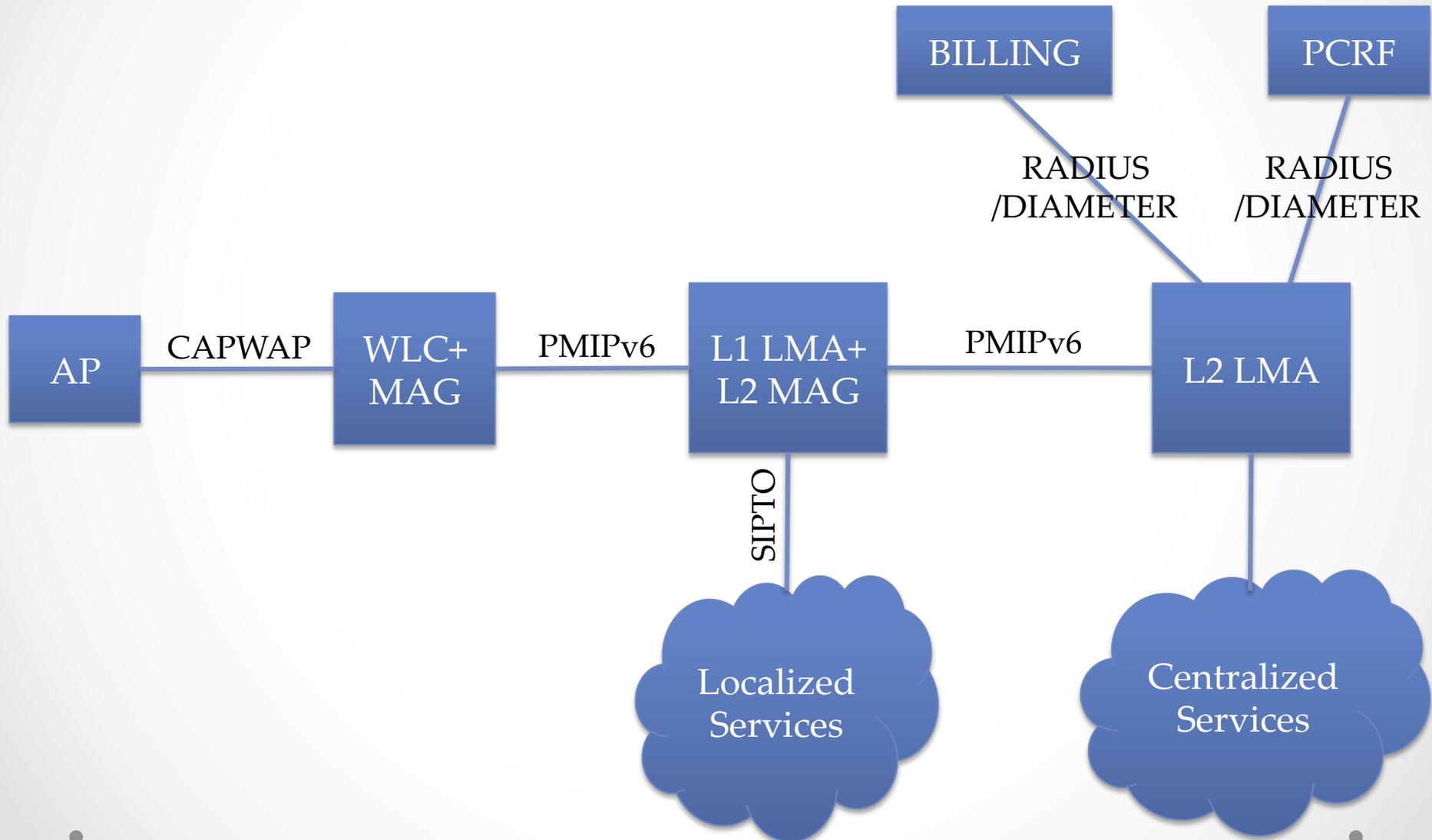
Scope of the document

- Architecture Models
    - o Flat Model Deployments with EPC Integration
    - o Hierarchical deployments with domain chaining

- WLAN Access Network Types
    - o Controller based
    - o Autonomous

- Deployment Considerations
    - o IP addressing
    - o Access authentication & user identity
    - o Realizing Point to Point link models on WLAN access
    - o Policy Provisioning
    - o Accounting Considerations
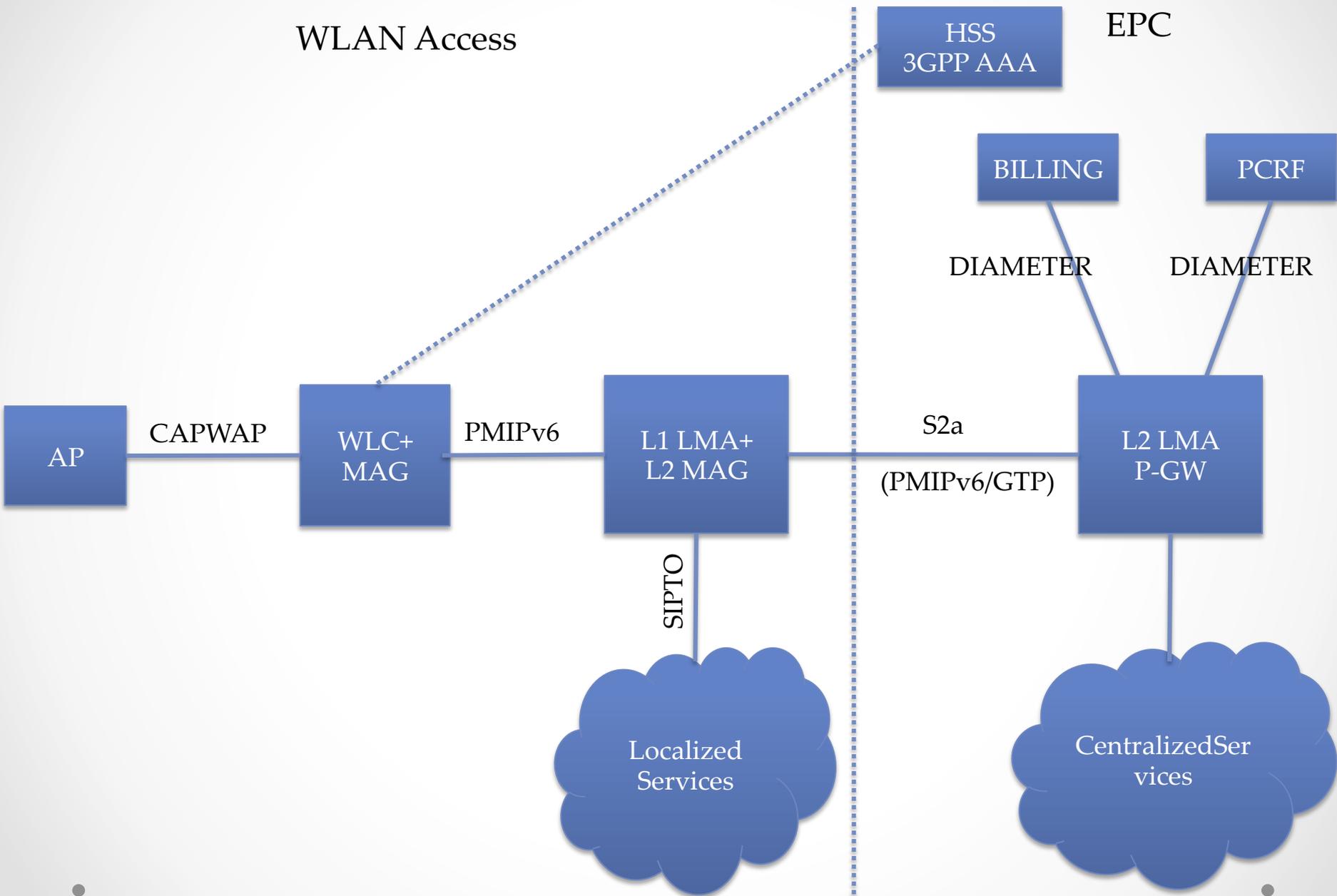   - o SIPTO Considerations

Flat Model Deployments

Hierarchical Model Deployments

Hierarchical Model Deployments: Packet Core Integration

Thank You!