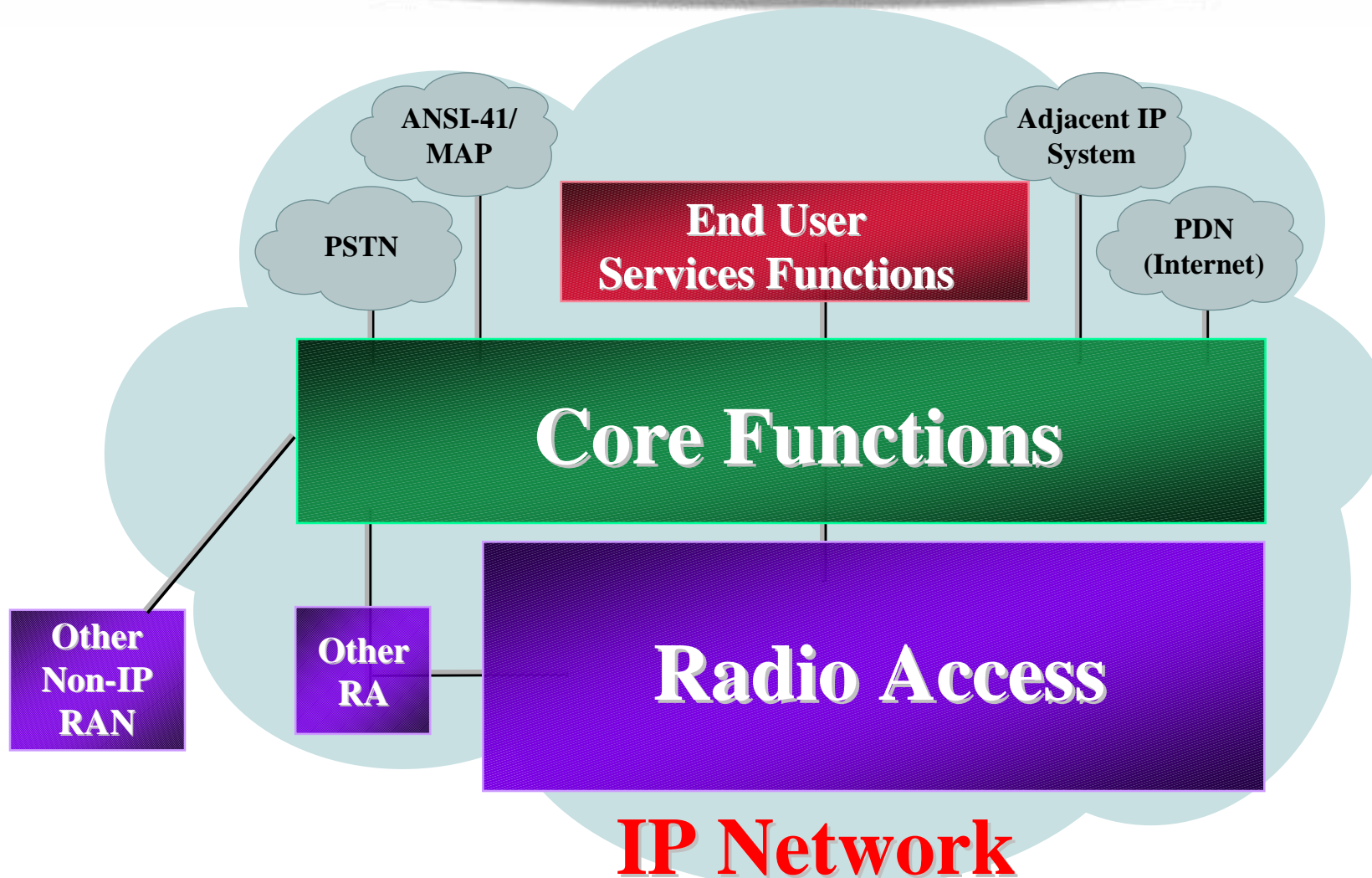


# Cisco Wireless Architecture



## IP Wireless Network

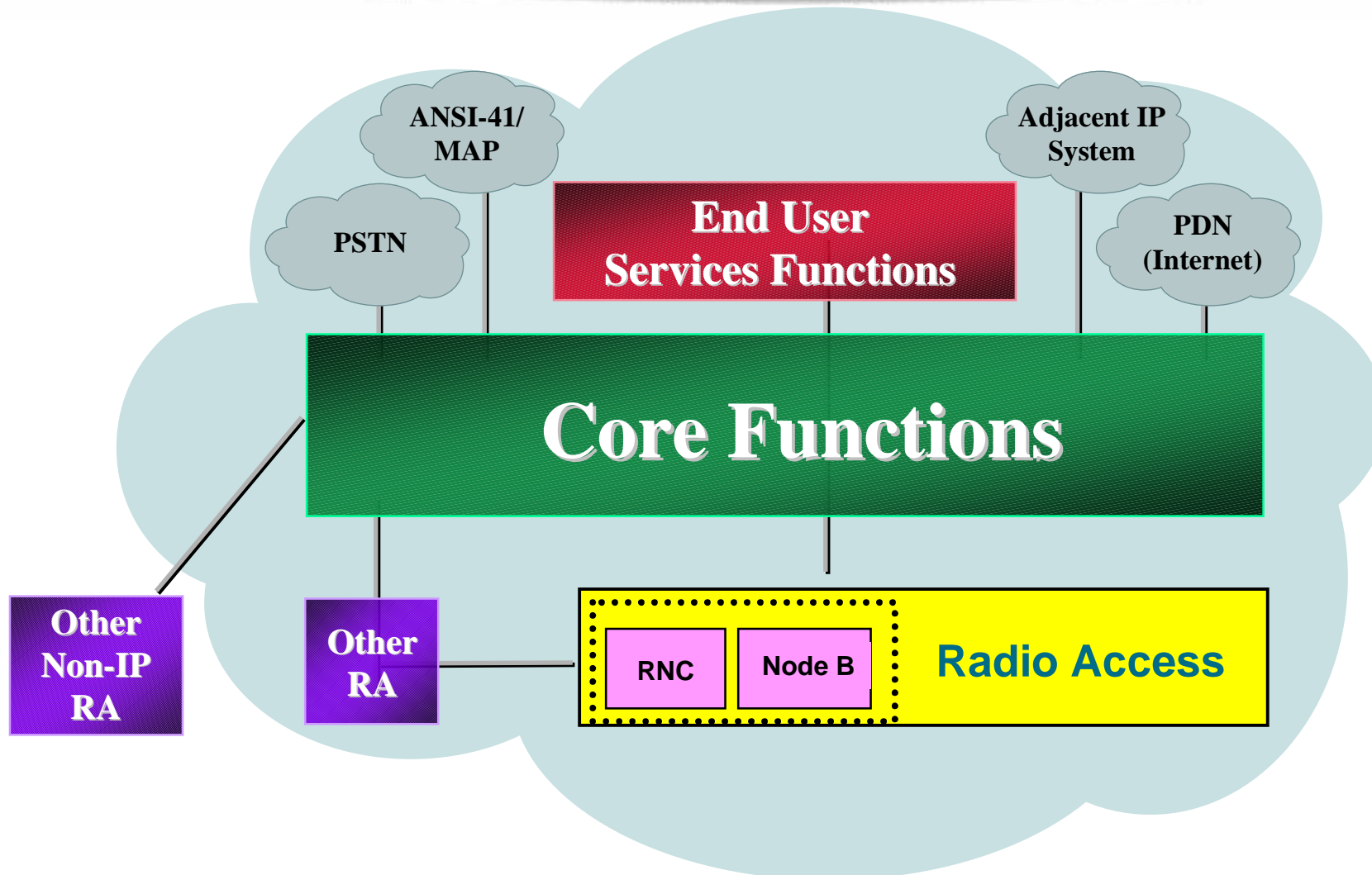
# All-IP Network - An Overview



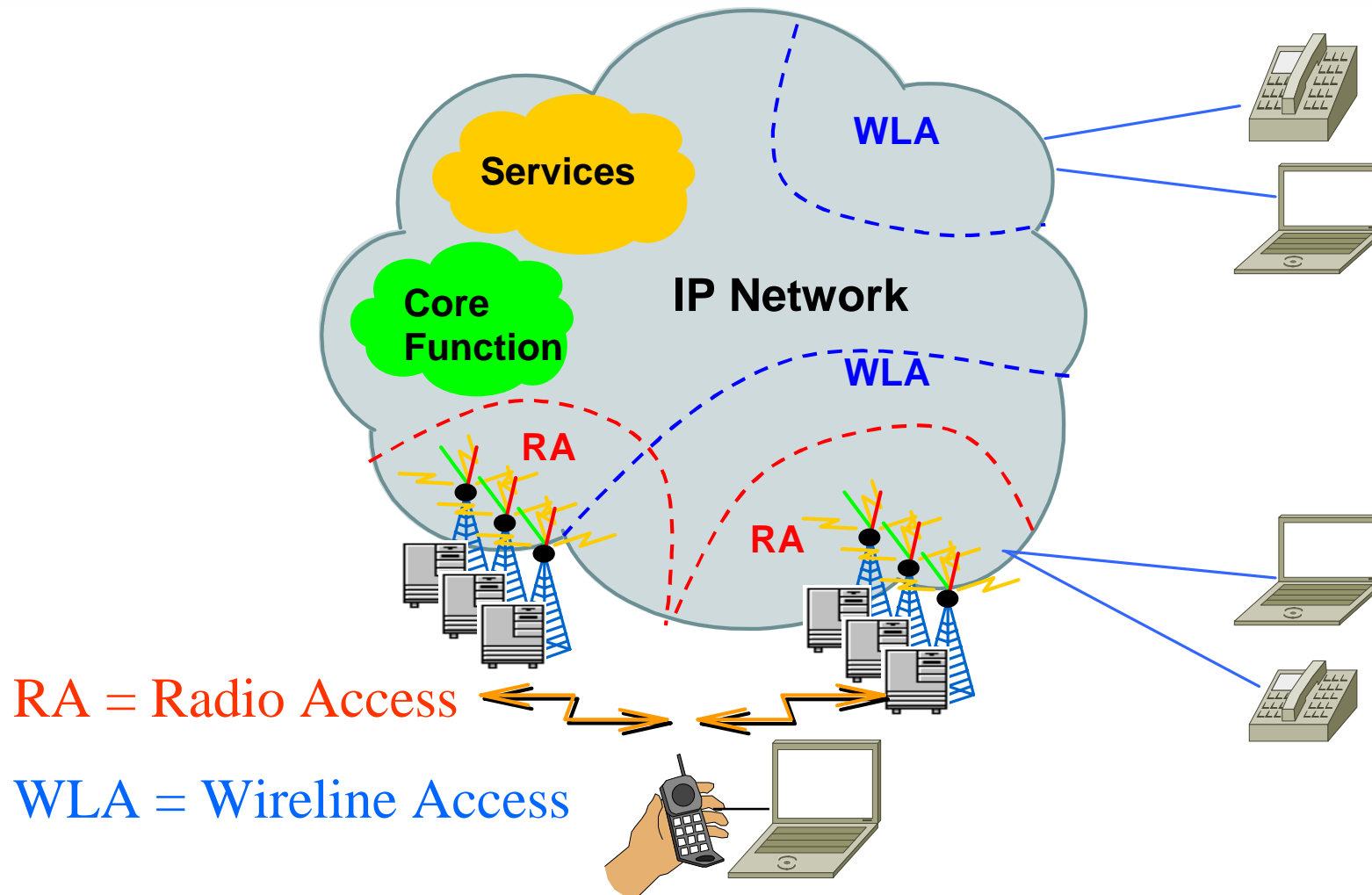
# Goals and Objectives

- **One Network**
  - Delivering services consistently across wireless and wireline networks**
- **Distributed Peer to Peer IP Network**
  - Flexible logical network structure**
  - Modular & incremental infrastructure growth**
- **Unified Service Infrastructure**
  - Seamless end user service delivery**
- **Unified Management Scope**

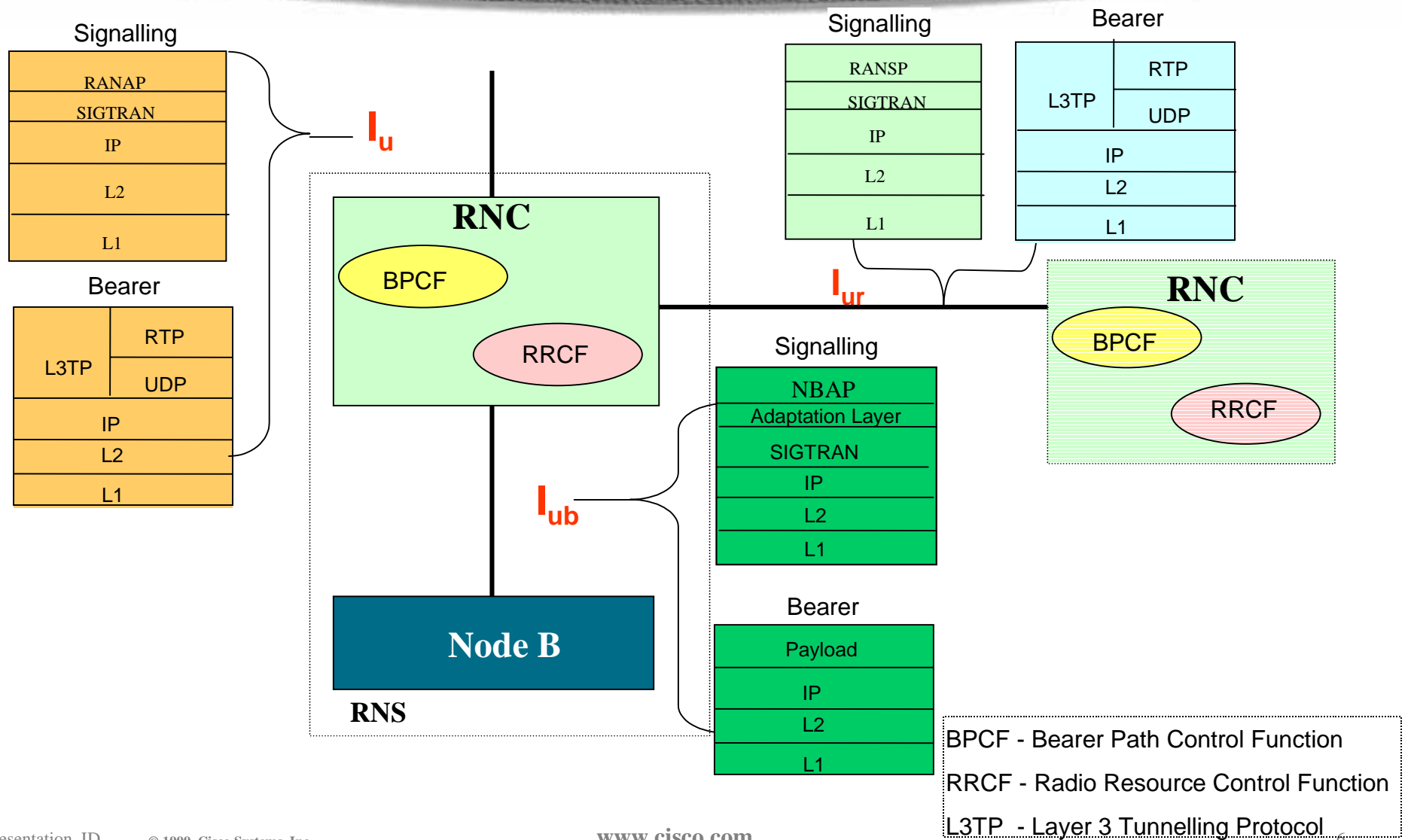
# Radio Access Functions



# IP Network Radio Access Overview



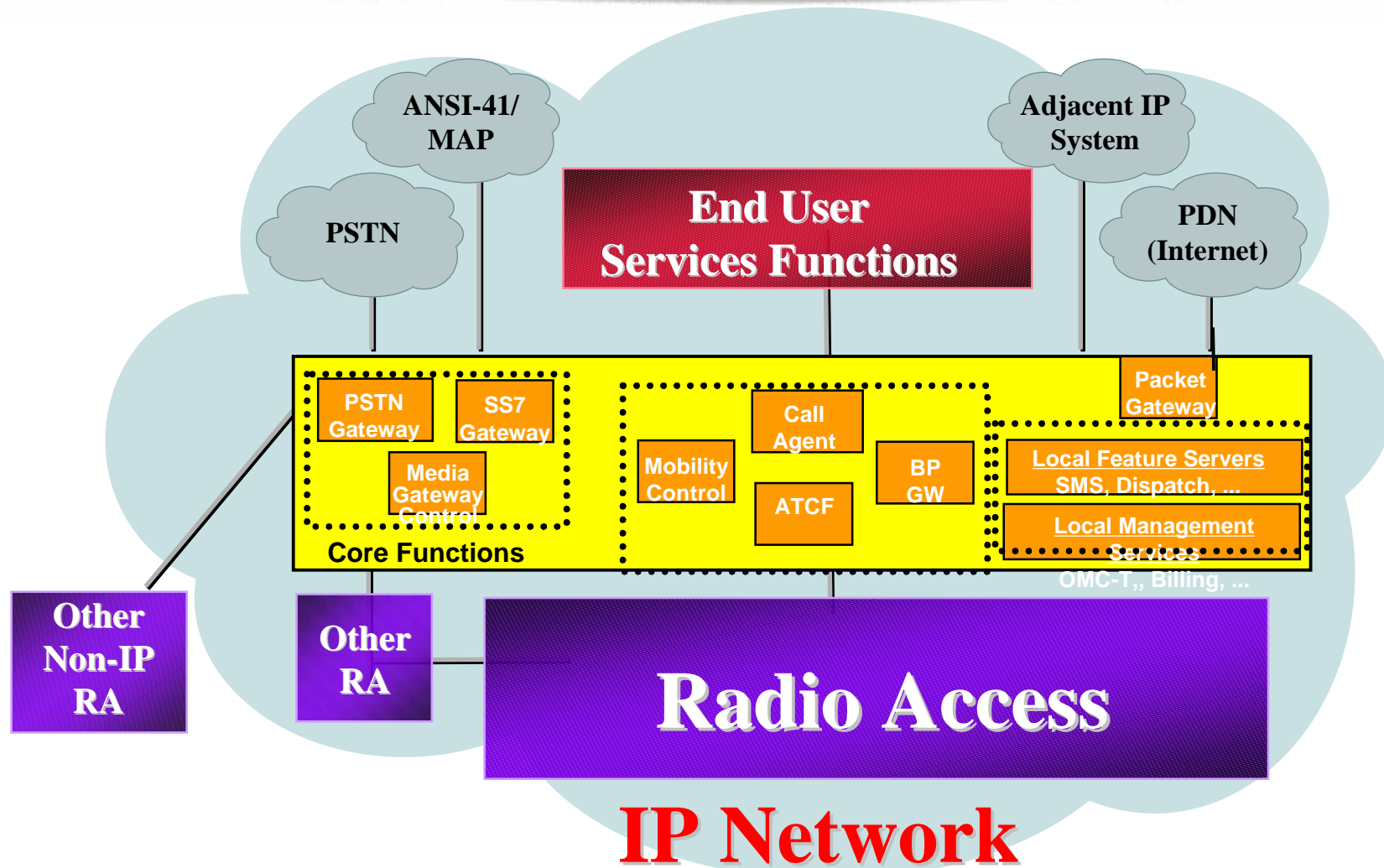
# Cisco Proposed RA Protocol Stack Definitions



# IP Network Radio Access Implications

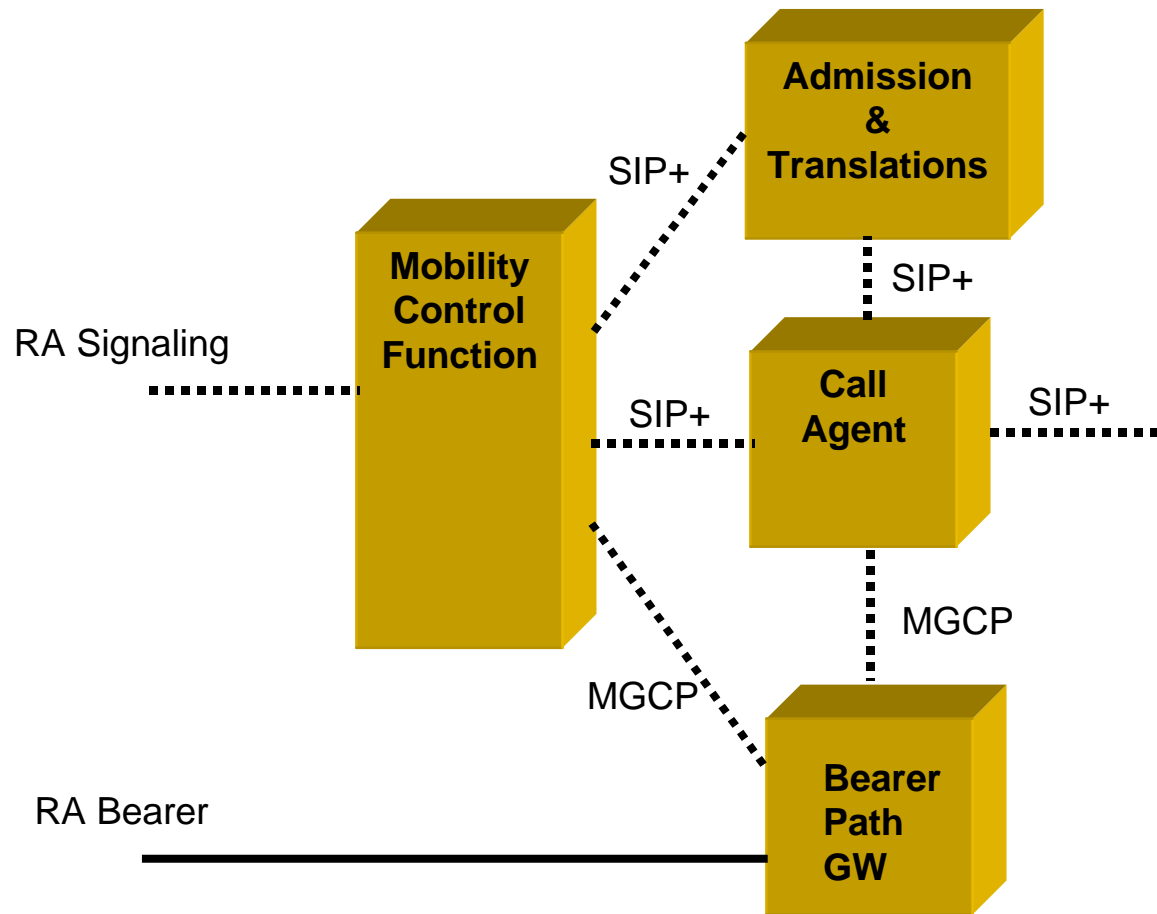
- **Intelligent Service Differentiation begins at entry to the IP network - Node B**
  - Air interface specific MAC terminates at the interface to IP Network**
- **Distributed QoS Management**
  - Management scope extends end-to-end**
- **Transparent Migration to Mobile Terminal IP based services**

# Core Functions

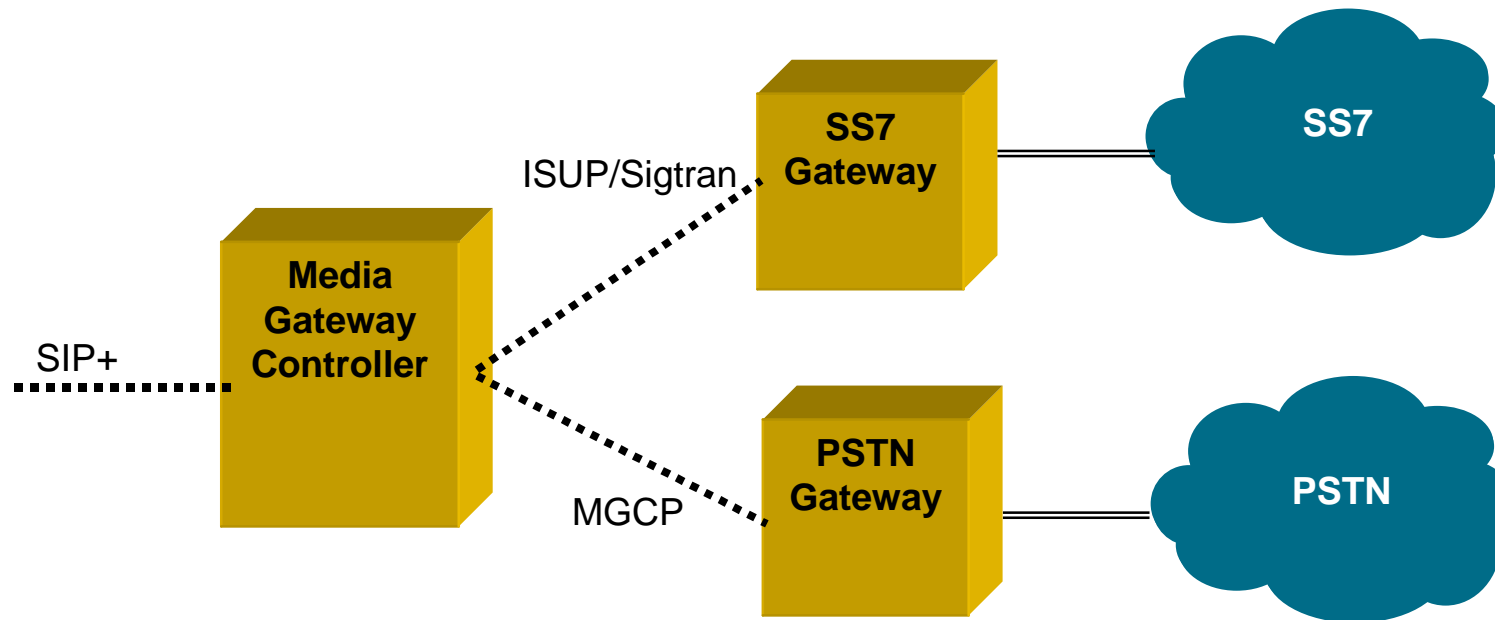




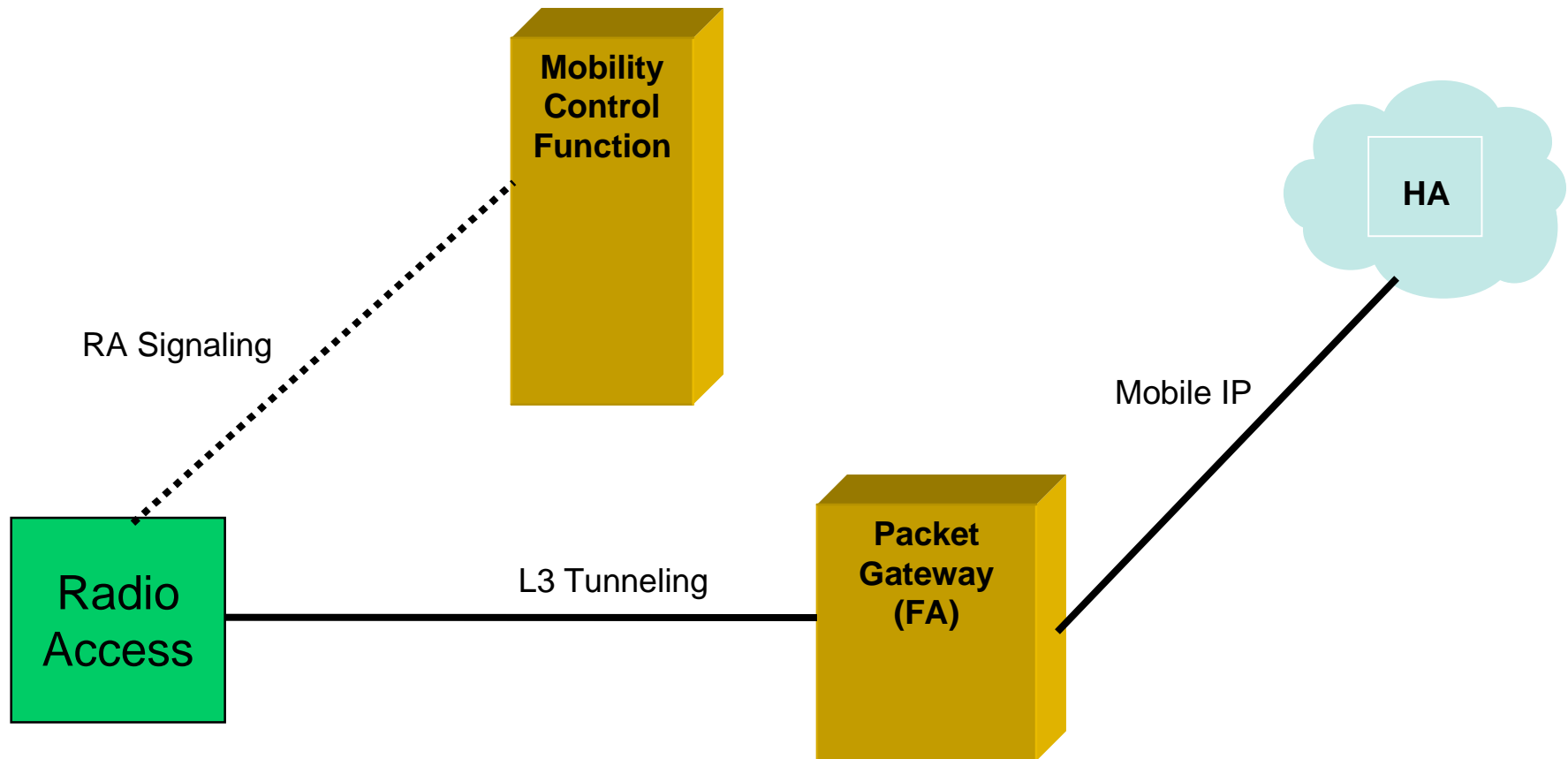
# Voice Signaling and Bearer Path



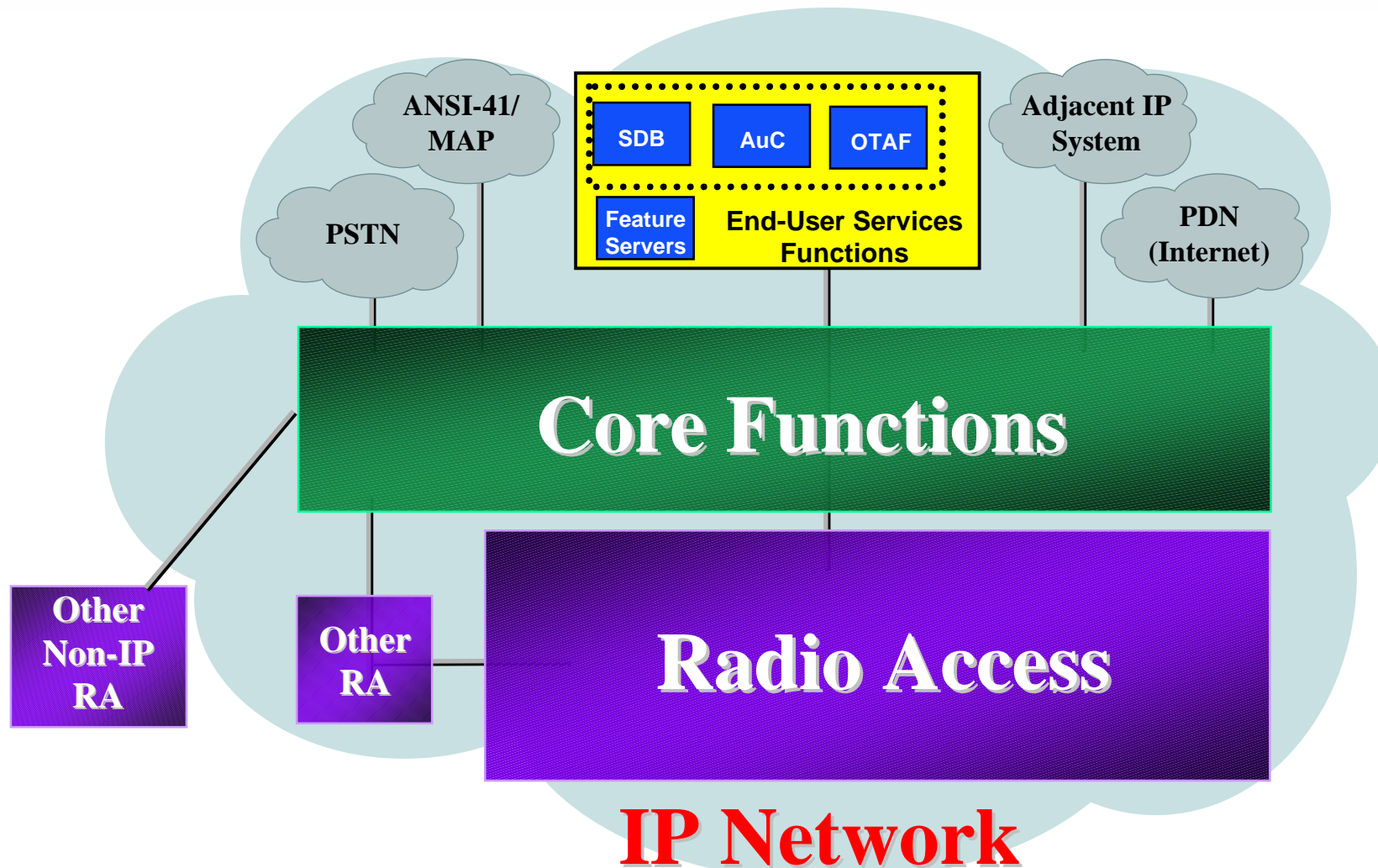
# Voice/PSTN Inter-Working



# Data Signaling and Bearer Path



# End User Functions



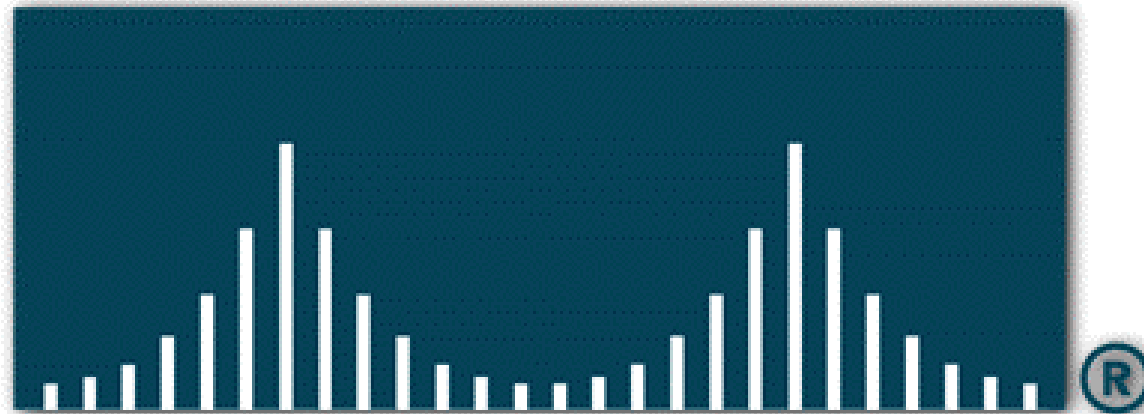
# Feature Servers

- **Location Service Node (LSN)**
- **Subscriber DataBase (SDB)**
- **Authentication Center (AuC)**
- **Over The Air Facility (OTAF)**
- **WAP Servers**
- **Short Message Service Center (SMSC)**

# End User Services

- **Voice**
  - Class Features**
  - Intelligent Network - IN**
- **Data**
  - Email, Push services, Web browsing**
  - VPN, Internet**
- **Unified Messaging**

# CISCO SYSTEMS



EMPOWERING THE  
INTERNET GENERATION<sup>SM</sup>