



VoIP/IMS Interconnects and the New Business Models They Enable

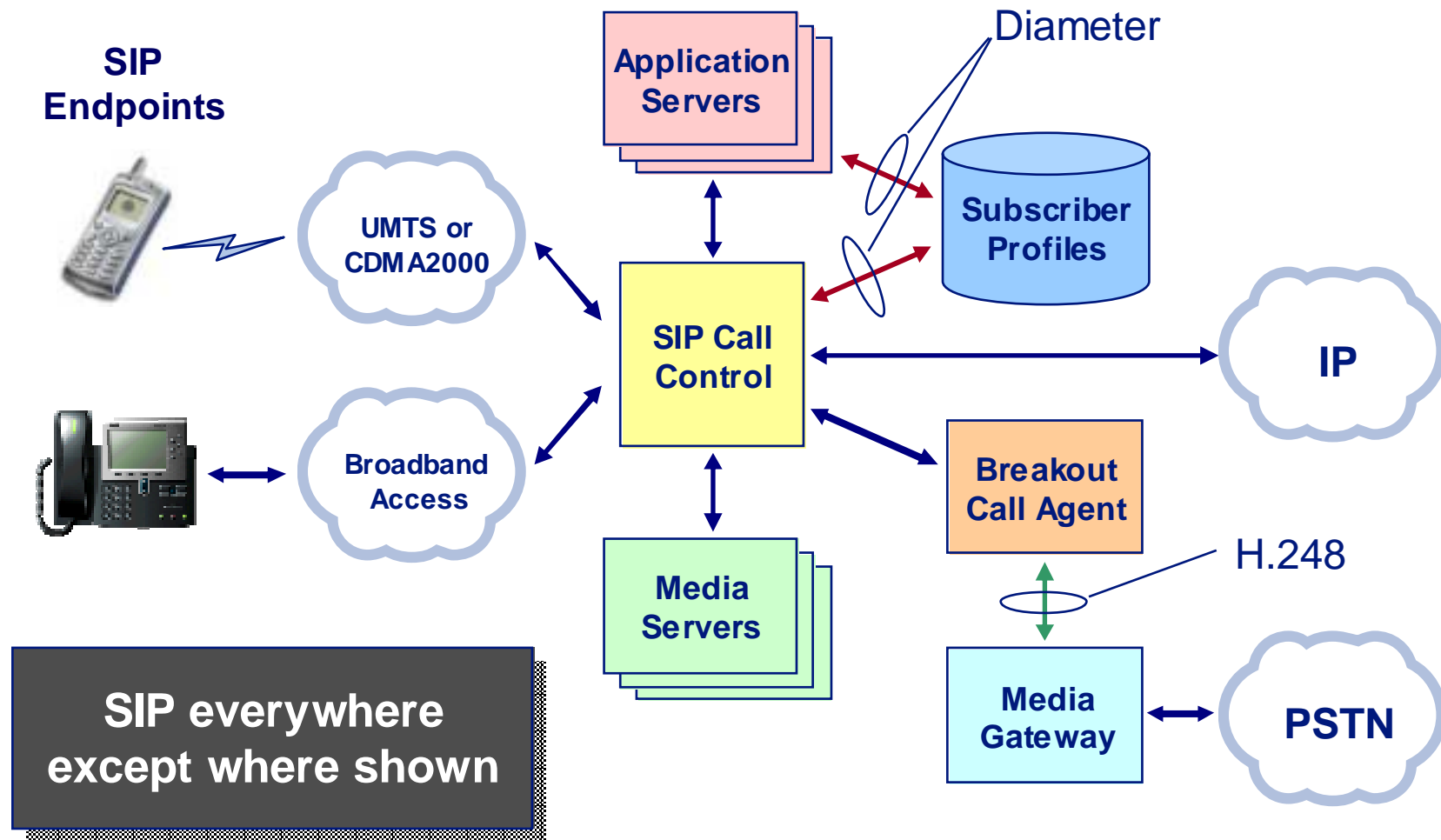
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Introduction

- **Key elements in an IMS core network**
- **What IMS promises**
- **Challenges in delivering on the promise**
- **MetaSwitch's approach to addressing the challenges**
- **Summary**

Key Elements in an IMS Core Network

(greatly simplified)



The Promise of IMS

- **A clean architecture separating**
 - application servers from Call Switching
 - services from physical access media
- **Lower capex/opex through centralization and sharing of application intelligence**
- **A more seamless wireless/wireline user experience**
- **More rapid service development**
- **Greater service innovation through open standards and vendor competition**

Challenges in Delivering on the Promise

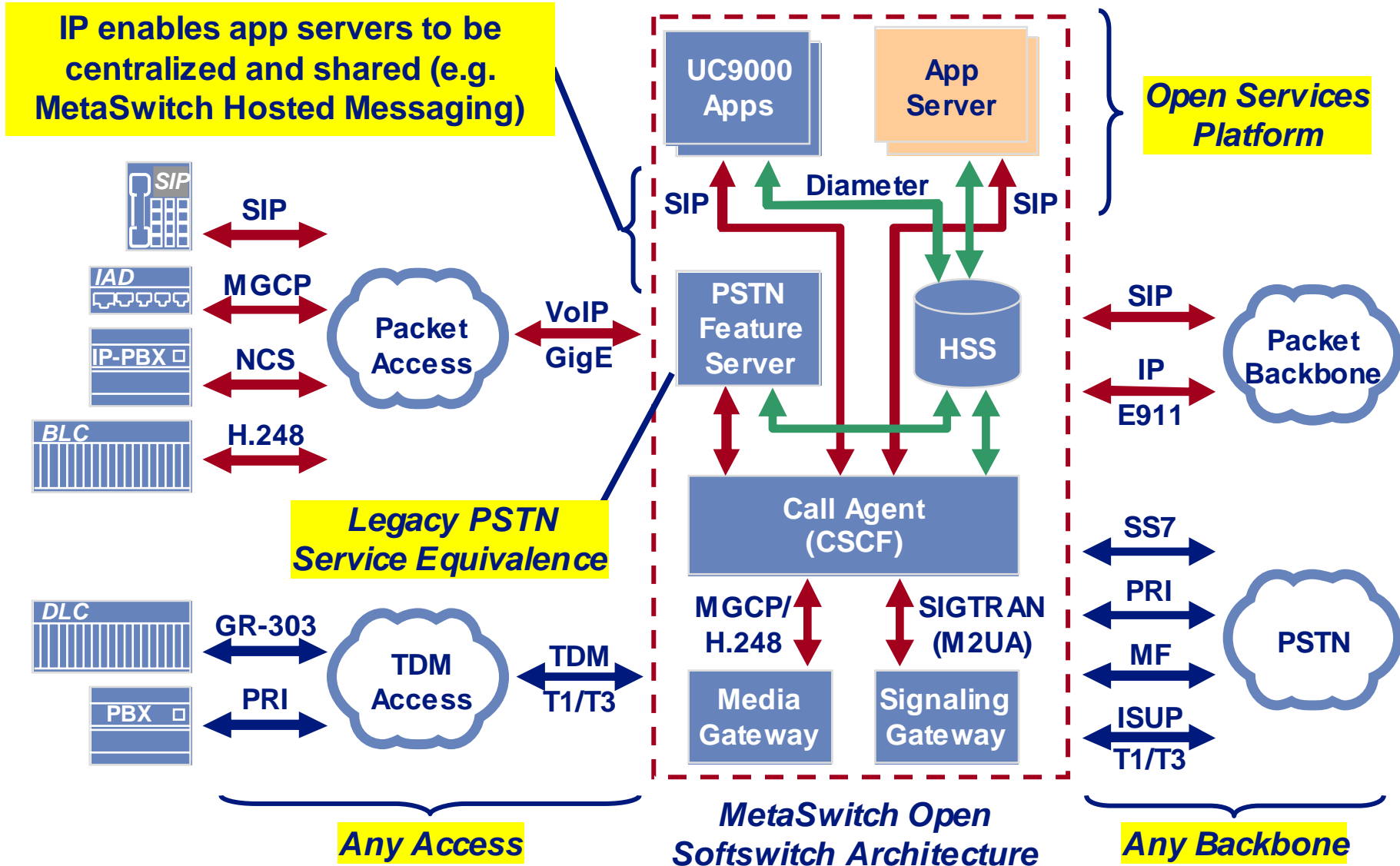
To enable smooth network migration (without a “Big Bang”):

- ✈ handle non-SIP access devices (MGCP, ISDN, GR303, POTS, Pulse Dial)
- ✈ interface to legacy trunks (e.g. MF FGD, Operator Services, E911, PRI, SS7)
- ✈ continue to provide legacy services (e.g. Off Premise Extension, Home Intercom)
- ✈ cannot mandate IPV6 for whole network (3GPP2 IMS begins to address this)

To realize dream of rapid service development and deployment:

- ✈ much more detail on HSS content to permit service co-operation
 - e.g. between Presence Service & Find Me/Follow Me
- ✈ scalable and robust Application Server platforms
- ✈ Service Creation Environments that really address service co-operation and service interaction

How MetaSwitch is Addressing the Challenges



Services Enabled by MetaSwitch IMS Solution

- Today {
- PSTN Feature Server
 - Tightly integrated with call control
 - Over 100 “Class 5” features from call waiting to sim-ring, find-me/follow-me and full Centrex support
 - UC9000 Unified Communications System - MetaSwitch’s IMS application server
 - Voicemail and Unified Messaging
 - Desktop Assistant
 - Privacy Manager
 - Auto Attendant
- Future {
- Conferencing
 - Pre/post-pay
 - Soft attendant console
 - ...
- + interoperability with many third party application servers

Summary

- IMS is a clean and useful architecture building on the pervasive SIP base
- The real world is not clean and is not all SIP, but isn't going away
- The best value/most successful vendors will:
 - recognize the migration challenges
 - provide access to legacy environments and services
- MetaSwitch:
 - believes IMS is the right direction the industry is headed
 - will help Service Providers get there without a quantum leap
 - enables a rich set of subscriber services over legacy and next generation networks, in an IMS-consistent architecture, today