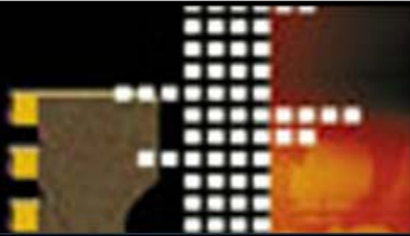


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Softswitch & IN

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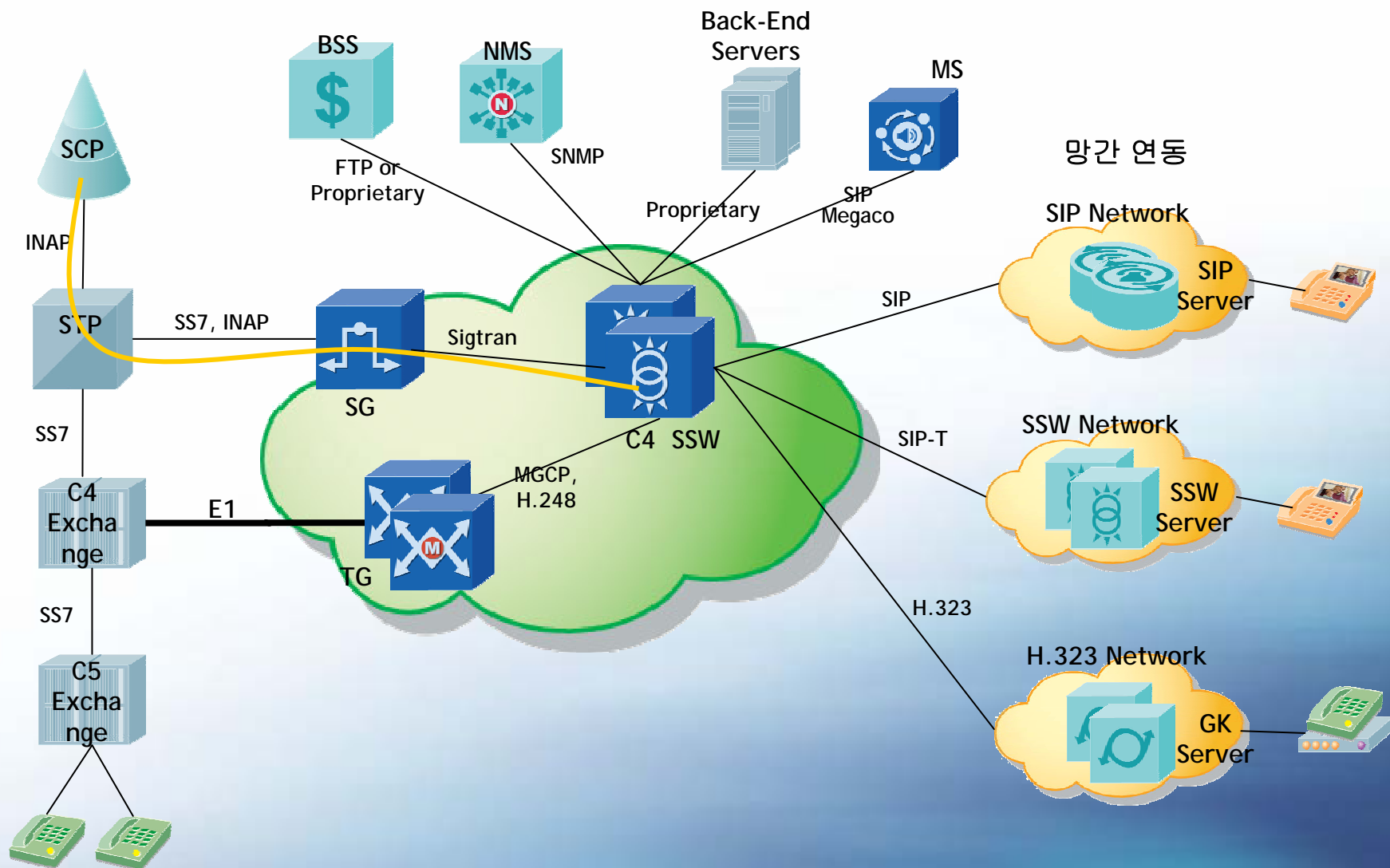
ybkim@xener.com



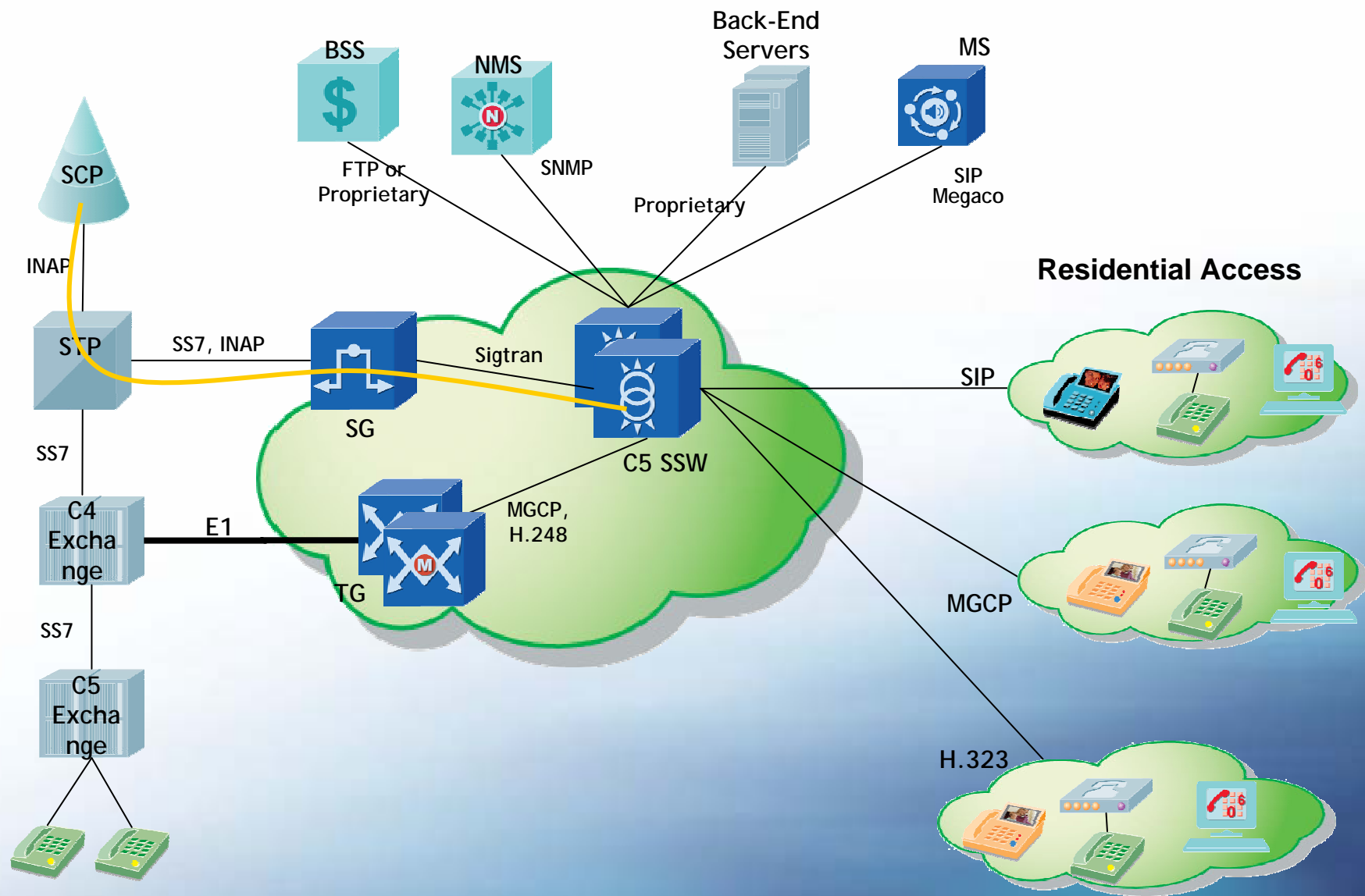
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- ❖ Wireline & Wireless Network
- ❖ Interface & Protocols
- ❖ SSW Service Feature Architecture
- ❖ SSW Service Feature

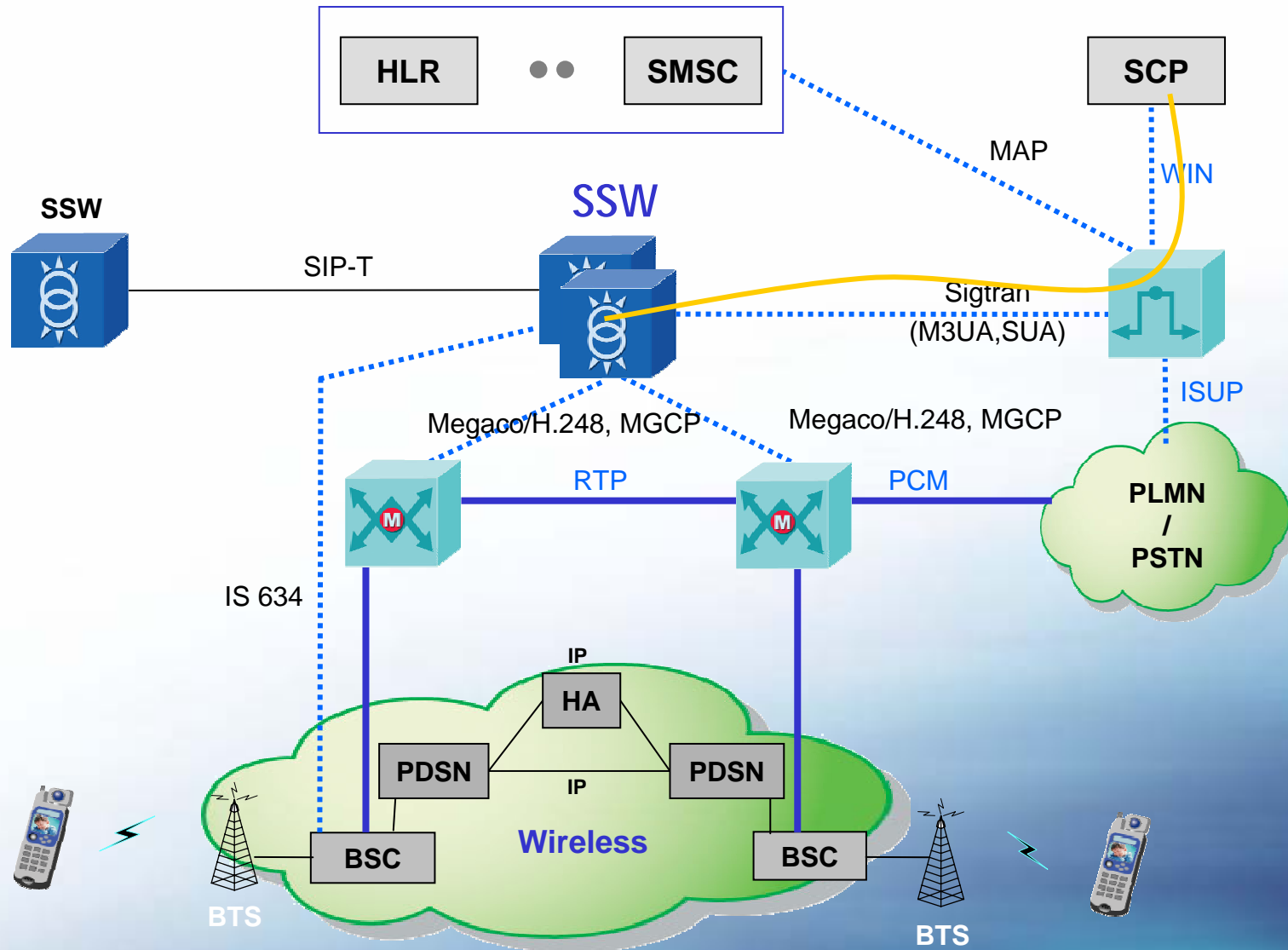
Wireline Class 4 Network



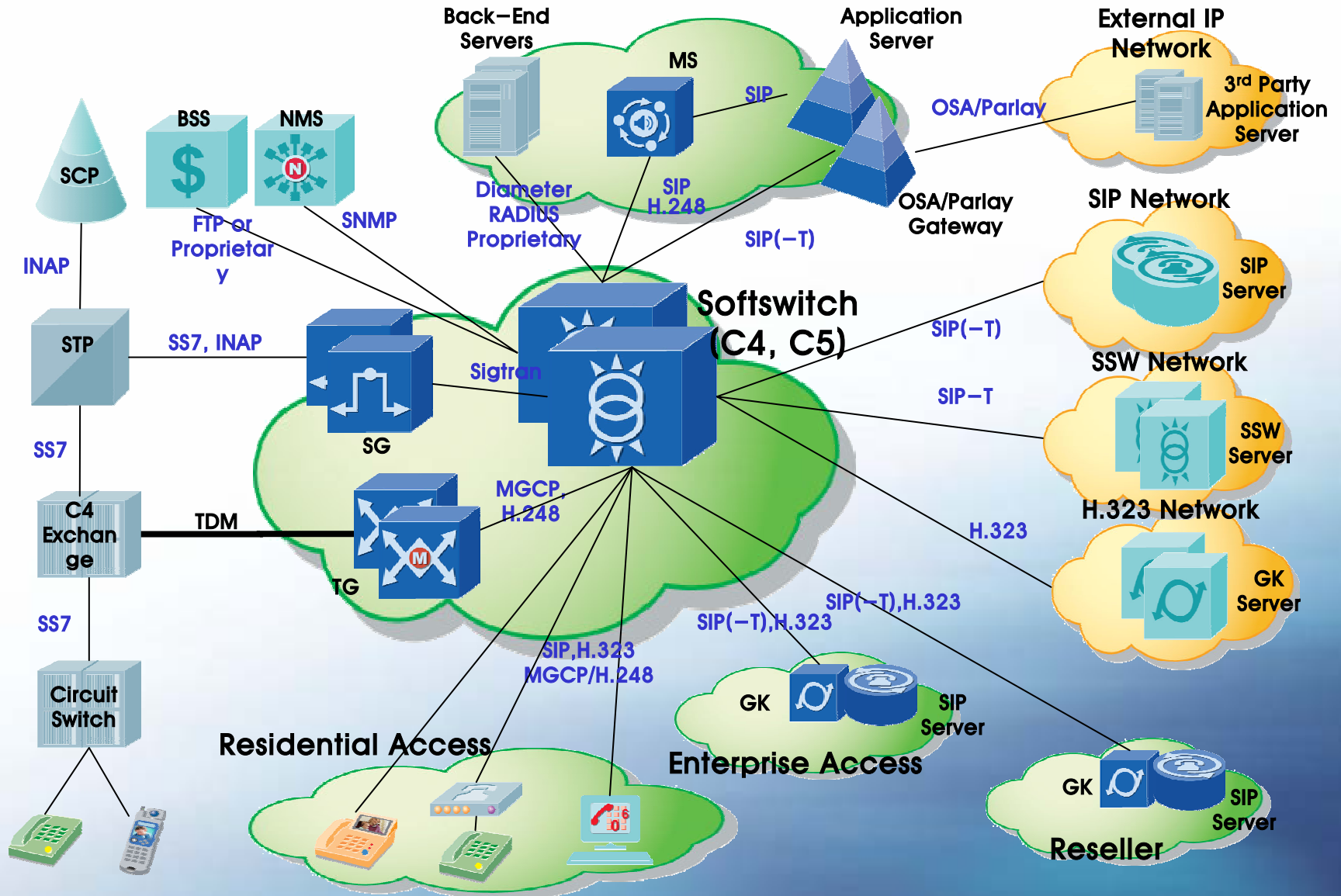
Wireline Class 5 Network



Wireless Network



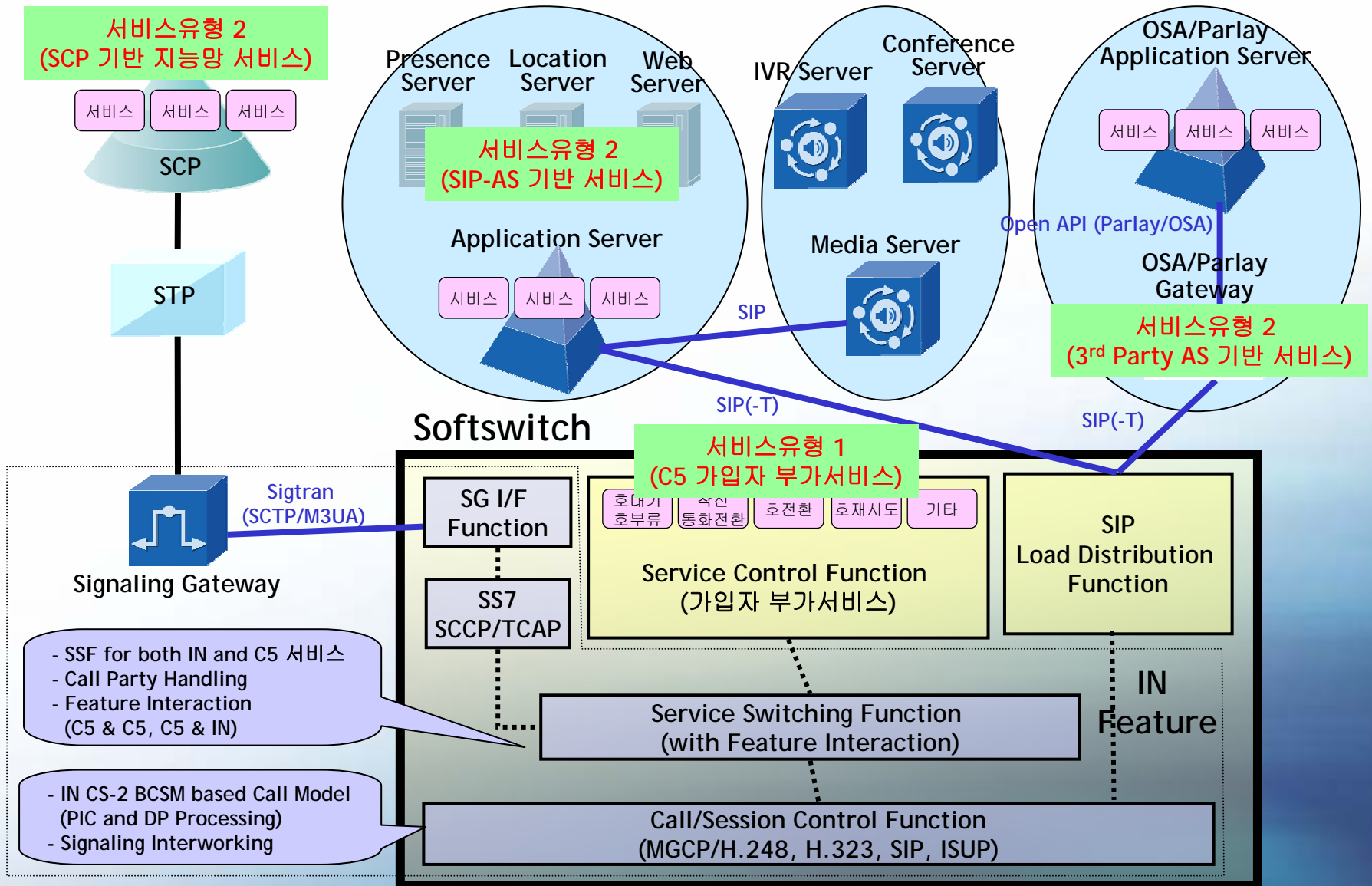
Interface and Protocols (1)



Interface and Protocols (2)

Category	Network Component	Protocols
TDM Telephony Protocols	SCN Switch	ITU-T ISUP v1997
	AIN SCP (via Signaling Gateway)	ITU-T CS-2 INAP ITU-T SS7 TCAP/SCCP
IP Network	Signaling Gateway	IETF Sigtran (SCTP/M3UA)
	MGCP Endpoint – TGW/AGW/RGW, Media Server/IVR, IP Phone	MGCP
	H.248/Megaco Endpoint – TGW/AGW	H.248/Megaco
	H.323 Endpoint – TGW/RGW, IP Phone, PC Client	H.323 v4
	H.323 Gatekeeper	
	SIP Endpoint – TGW/RGW, Media Server/IVR, IP Phone, PC Client	SIP (SIP-T)
	SIP Server	SIP
	Softswitch, MGC	SIP-T, H.323
	Application Server	SIP (SIP-T)
	OSA/Parlay Gateway	
	Billing Mediation Server (Billing System)	FTP
	NMS (Network Management System)	SNMP
	Back-End server	<i>Proprietary or Others</i>

SSW Service Feature Architecture



SSW Service Features (1)

Class 5 Features ● 가입자 부가서비스

- Call Barring (발신금지/착신금지)
- Call Inhibition (통화정지)
- Call Restriction (가입자/운용자에 의한 호제한)
- Hot-Line/Warm-Line (직통전화/대시직통전화)
- Speed/Abbreviation Dialing (단축다이얼)
- Wake-up Call (지정시간통보)
- Absentee (부재중 안내)
- Do Not Disturb (착신거부)
- Call Waiting (통화 중 대기)
- Cancel Call Waiting (통화중 대기거부)
- Call Forwarding (착신통화전환)
- Call Transfer (호 전환)
- Call Holding (호 보류)
- Registered Call (호 재시도)
- Three-Way Call (3자통화)
- Caller-ID (발신번호표시/표시금지)
- 익명전화수신거부, 무조건발신정보표시
- Malicious Call (발신번호추적)
- Changed Number Announcement (가입자 번호 변경 안내)

Softswitch 제공 가입자 부가서비스

Class 5 Features ● Additional

- Pre-assigned Carrier (사전 선택제)
- Emergency Call (긴급 전화)
- Priority Call (우선 통화)
- Virtual DN (가상 발신 번호)
- Number Portability (번호 이동성) [SCP 기반]
- User Group Service

SSW Service Features (2)

Legacy SCP 제공 지능망 서비스 연동

응용 서비스

● Legacy SCP 제공
지능망 서비스

- AIN CS-2 Local SSP 기능 제공
(w/ Call Party Handling)
- 제공 서비스
 - Number Portability (번호이동성)
 - CRBT (Customized 링백톤)
 - 기타 (Legacy SCP 제공 서비스들)

[주] 추가 제공 서비스는 SCP에 따름

Application Server 제공 응용 서비스 연동

응용 서비스

● Application Server 제공
응용 서비스

- SIP 기반 응용 서버 연동 기능 제공
 - SIP 기반 응용 서버
 - Open API 기반 3rd Party 응용 서버
(via OSA/Parlay GW)
- 제공 서비스
 - MCID
 - MRBT
 - PTT
 - Conference (Voice/Video)
 - Mail Service (Voice/Video)
 - 기타

[주] 추가 제공 서비스는 AS에 따름