

Monetize IPX with Multimedia interconnection

David (Zhaojiang) Fang Core Network Product Line, Sr. Marketing Director May 16th, 2013



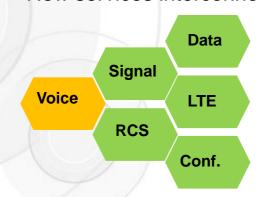
Strengthen & Broaden your business

--Huawei keynote in 3th i3 forum

Strengthen interconnection business

Interconnection requirements

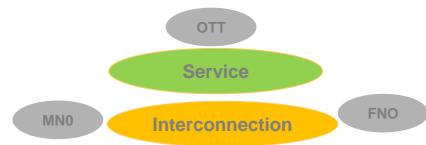
- Secure legacy voice revenue
- New services interconnection



Broaden with new business models

New model requirements

- More wholesale services, even your own subs
- IT tech., All IP BB infrastructure facilitate hosted service model
- ICT & OTT enable fast innovation





The moving industry bring new business opportunity to IPX

Traditional service over IPX

- Messaging hubbing services
- Voice termination service
- GRX based data roaming
- SS7 and IP signaling routing

Better monetize your IPX asset with:

Diameter routing for LTE roaming



RCS/RCSe hubbing















LTE roaming: an immediate need

Important Revenue Resource

- Mobile data roamers to generate over \$35bn in 2017, representing 40% of roaming revenues.
- Western Europe will be the highest proportion of the global mobile data roaming revenue.
- LTE data roaming will be the next growth driver.

-- Juniper Research

Users' Satisfaction



Ubiquity – anywhere, anytime



New/more services



Higher speed

Maturing Ecosystem

Global wholesaler started LTE signaling exchange business







Accelerating DRA deployment to fuel the LTE roaming service rollout on Y2013



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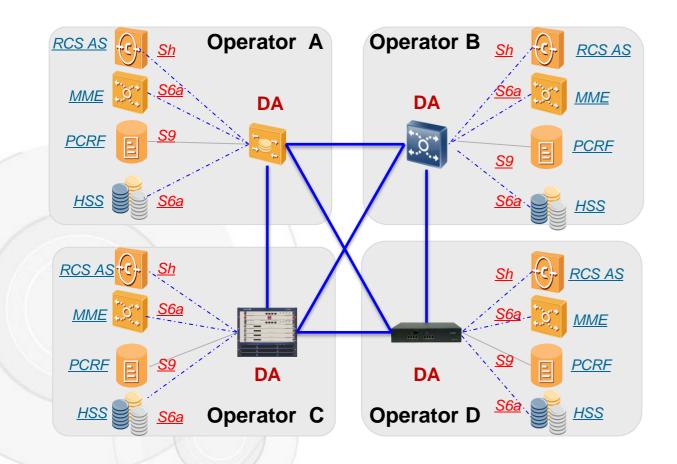
Fast increased LTE devices paved the way for global LTE roaming.

GSA confirms 666 LTE user devices launched at Feb 2013





LTE roaming challenges: MESH is a mess!

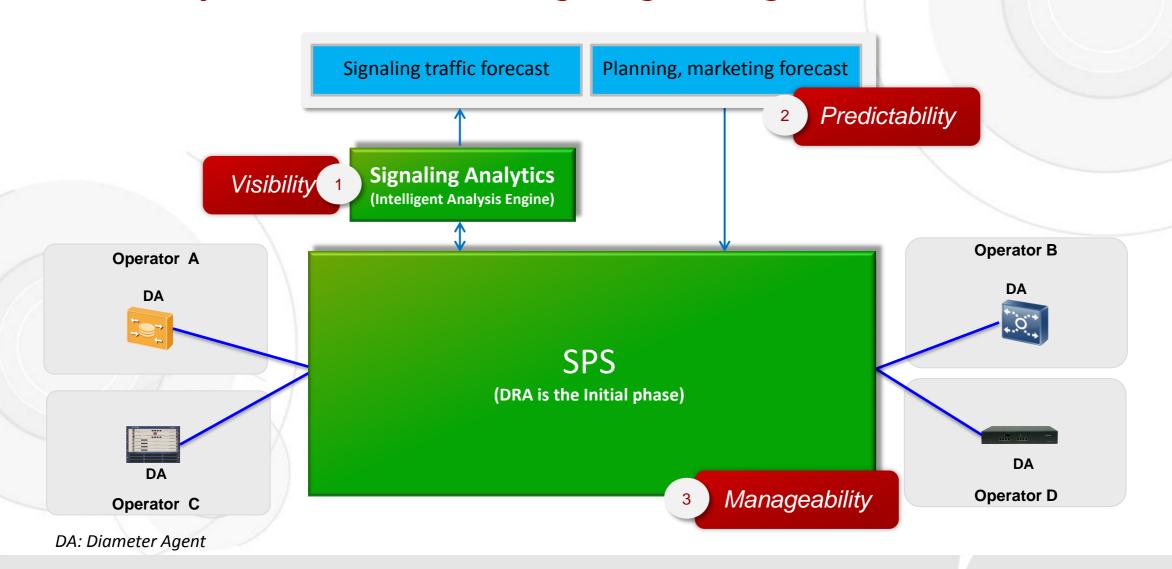


Needs from MNO

- Minimize the cost of building roaming connections
- Simplified topology
- Provides mediation between diameter implementations
- Facilitate interworking with 2G/3G networks

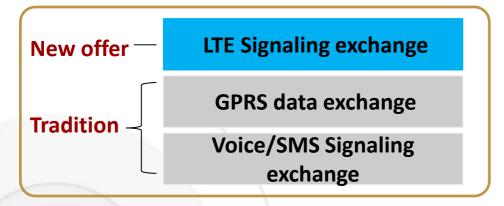
KT Trend **Technology** Progress

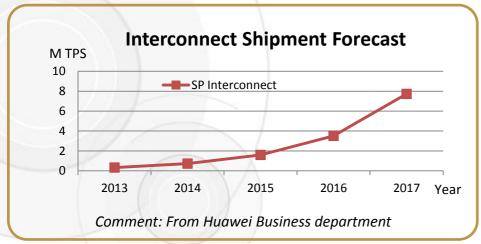
Made it easy with DRA Hub for LTE signaling exchange



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Up-sell to your existing SS7 signaling exchange customers





Global wholesalers already started LTE signaling exchange business















LTE roaming requirement is there

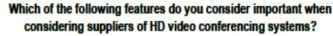
Video Conferencing is changing from CLOSE to OPEN

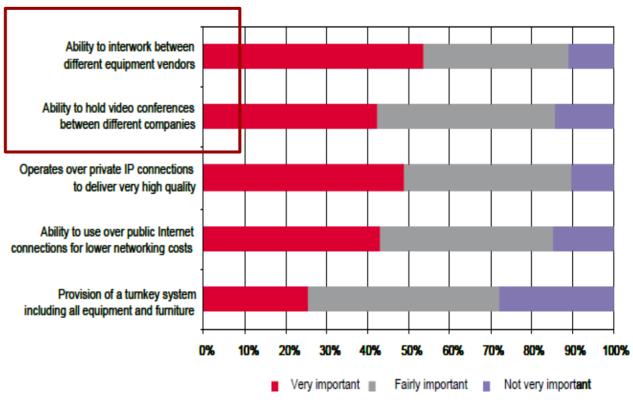
Video conference is undoubtable opportunity

 Wainhouse: Carrier hosting conf revenue: \$9.6bn in 2016



From intra to inter-enterprise



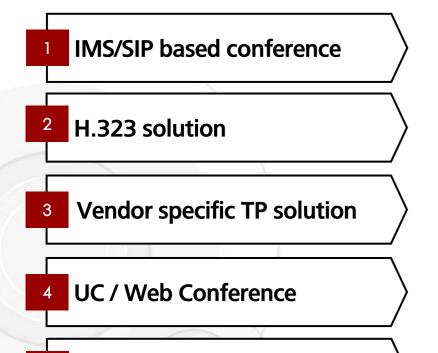


^{*} OVUM's survey on top 600 companies worldwide



The reality is not that simple: there are lots of fragmentation

Different than just signaling or media or standards



Voice algorithms

Codec	Spectrum	Notes
G.722	7 KHz	Best suited for H.323 and SIP, Better for interoperability
AAC-LD	8-96 KHz	Used for most high-end H.323 video conferencing
SILK	8-24 KHz	Skype . Most of the rest of the pack skipped this one
iSAC	16 or 32 kHz	GIPS in origin. Got open source by Google recently
AMR-WB	16KHz	The wideband voice codec of choice for VoLTE

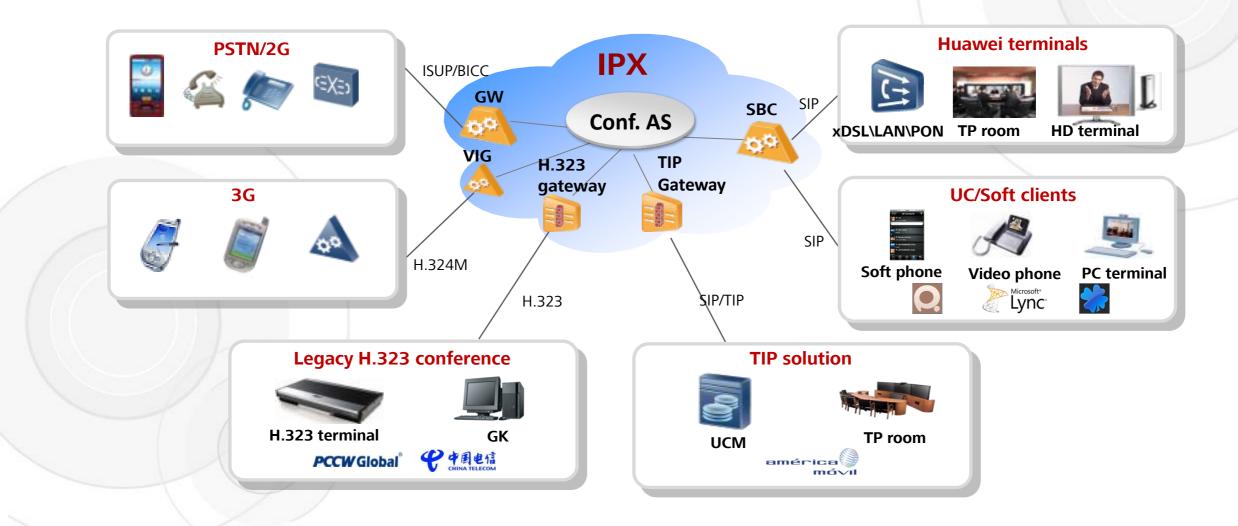
Video algorithms

- Video Codec: H.261, H.263, H.264, MPEG4 ...
- Video Resolution: QCIF, CIF, 4CIF, 720P, 1080P
- Standard Organizations: 3GPP, ITU-T, IETF, GSMA/HDVC, CCSA

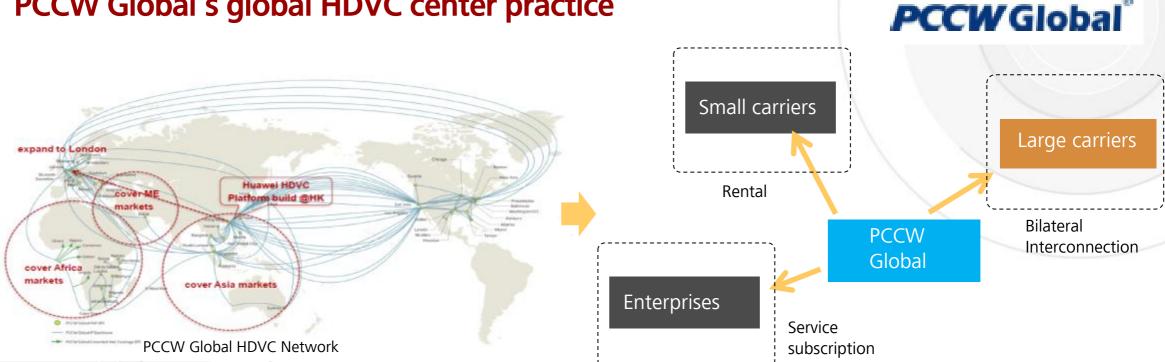


3G video call

Introduce a HDVC hub to bridge all the fragmentation



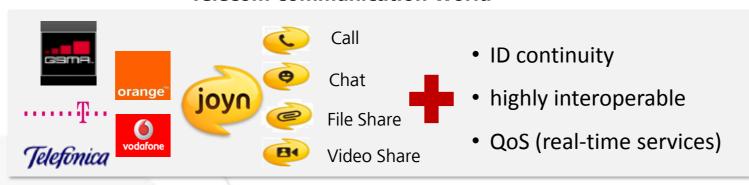
PCCW Global's global HDVC center practice



- Challenges: PCCW global has mature and worldwide MPLS network, an seek new products with proportional usage based revenue
- Solution: Deploy HD Video Conference network to connect different customers and partners, and finally establish a global HD video exchange ecosystem, retail conference and video calls services to small carriers, enterprises and interconnect with large carriers
- Benefits: Develop usage based revenues over the global MPLS network and seize the global video market opportunity

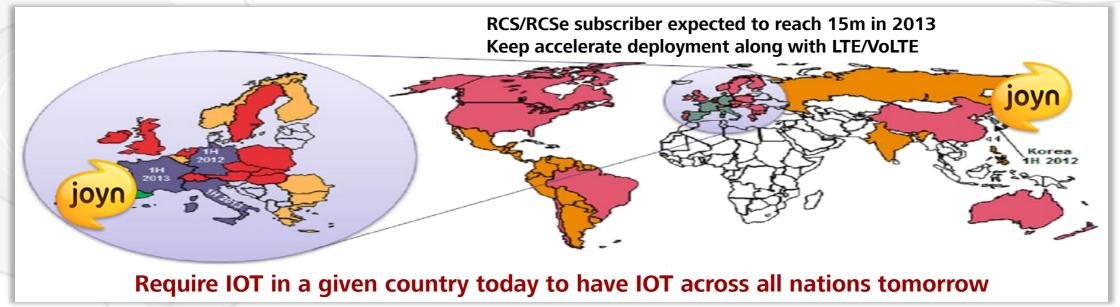
Global interoperability is RCS/RCSe success factor

Telecom communication world

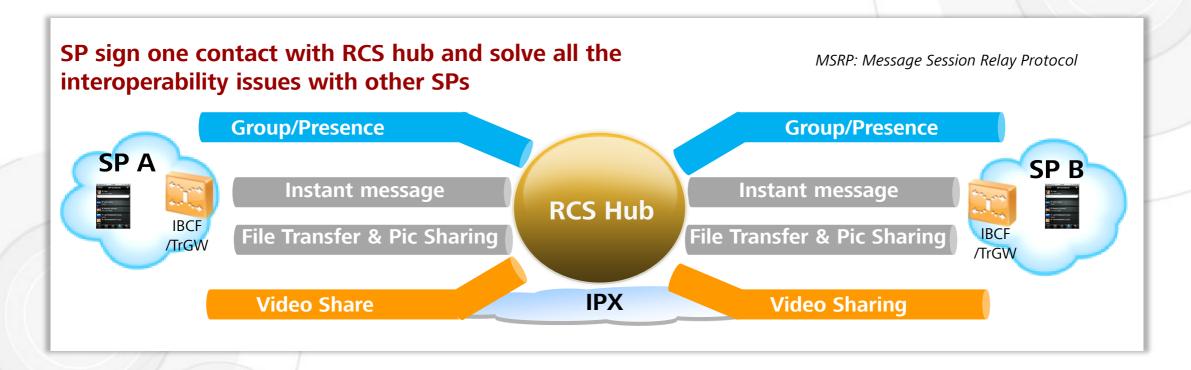


Internet-based (OTT) communication world





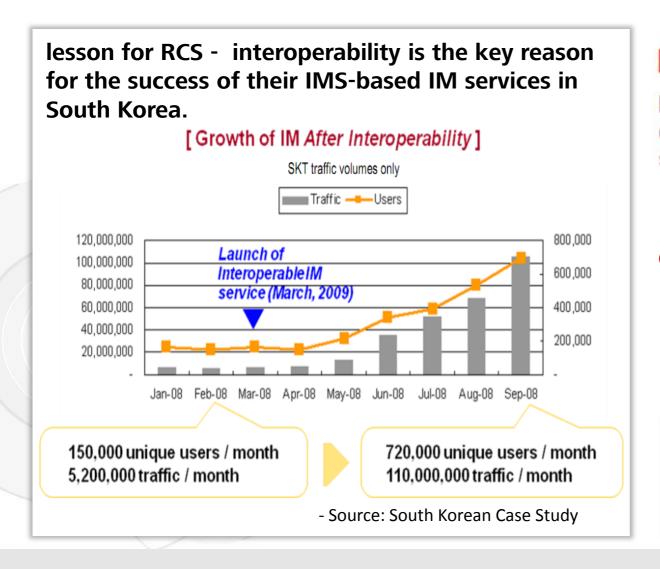
Build up RCS hub to support all RCS features interworking



- **IMS interconnect** (subscribe, capability discovery, routing policy, http interface should be supported)
- **Instant message, File Transfer & Pic Sharing** must support MSRP protocol in signal plane and media plane
- **RCS Services** billing may be different with traditional voice call and SMS service



Global interoperability is an RCS/RCSe success factor



Remain the communication provider

RCS is the gateway to innovation, bringing you the opportunity to re-invigorate and expand core product and services built upon the unique operator propositions of:

- Ubiquity
- Global interoperability
- QoS assurance
- Security and Privacy management

--source from GMSA

IPX plays important role in RCS/RCSe industry chain for global interoperability



Thank you

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