

WebRTC

Real Time Communications on the Web

FRnOG 24

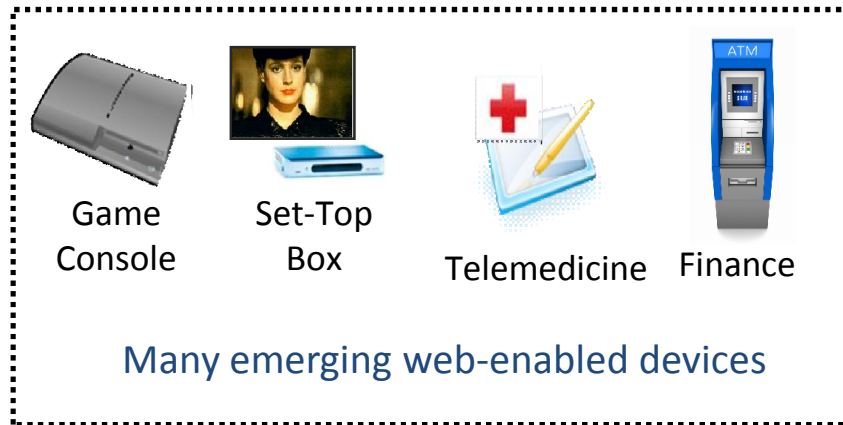
João Plácido – Oracle Communications
Paris, 20 March 2015

WebRTC

Your Browser is Ringing!

No download or plug-in

- Easy to write **audio/video service**
- WebRTC extends browsers with **audio/video** and **data sharing** capabilities
- Communications become a feature, **not** the application



WebRTC @ Glance



WebRTC offers real time communication natively from a web browser

61%

WebRTC capable browser share, including Mobile, Tablet and desktop



WebRTC is a “Media Engine” with javascript API

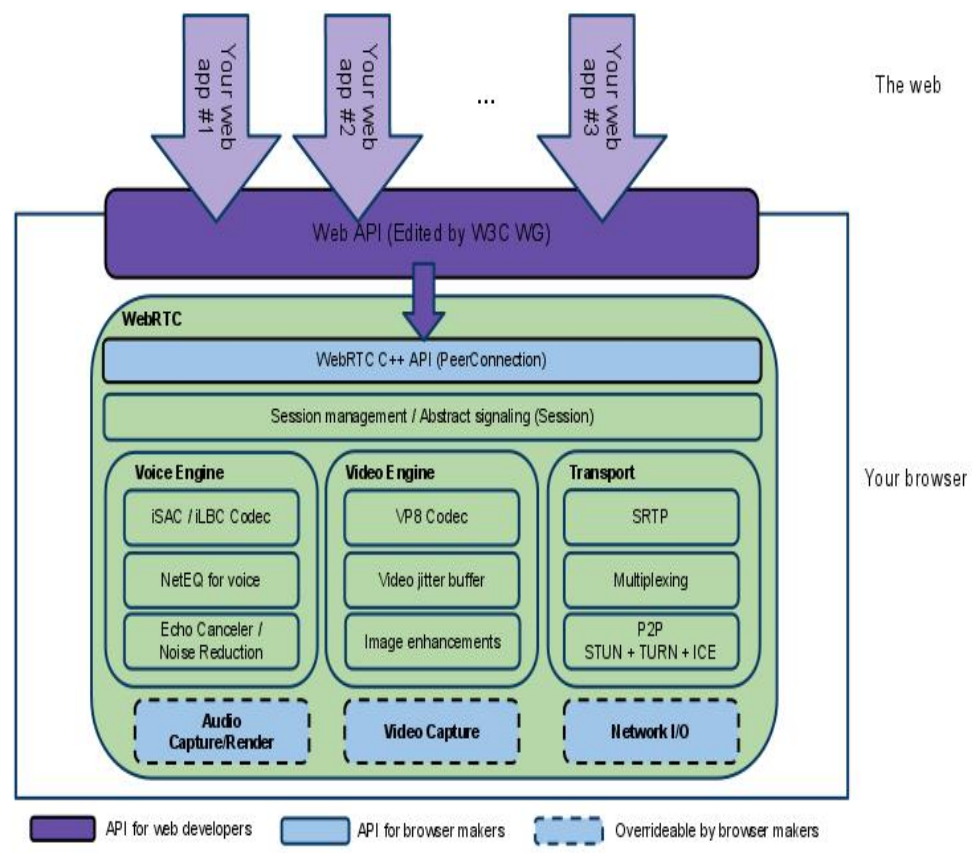


WebRTC is a technology, NOT a solution

WebRTC is a client-side technology

- JS API
- NAT traversal
- Codecs

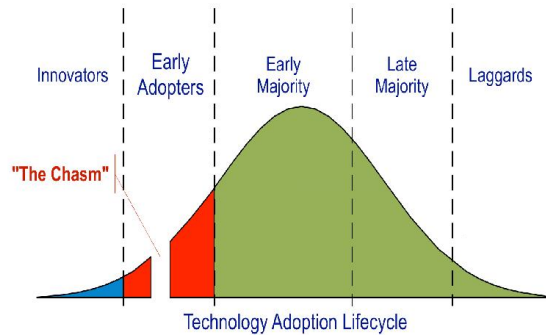
- P2P focus
- No signaling!
– Really?



4 Key Topics when adopting



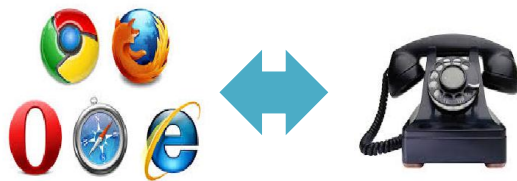
Technology and Standards Maturity



Infrastructure and Service Delivery



Interworking with traditional Comms

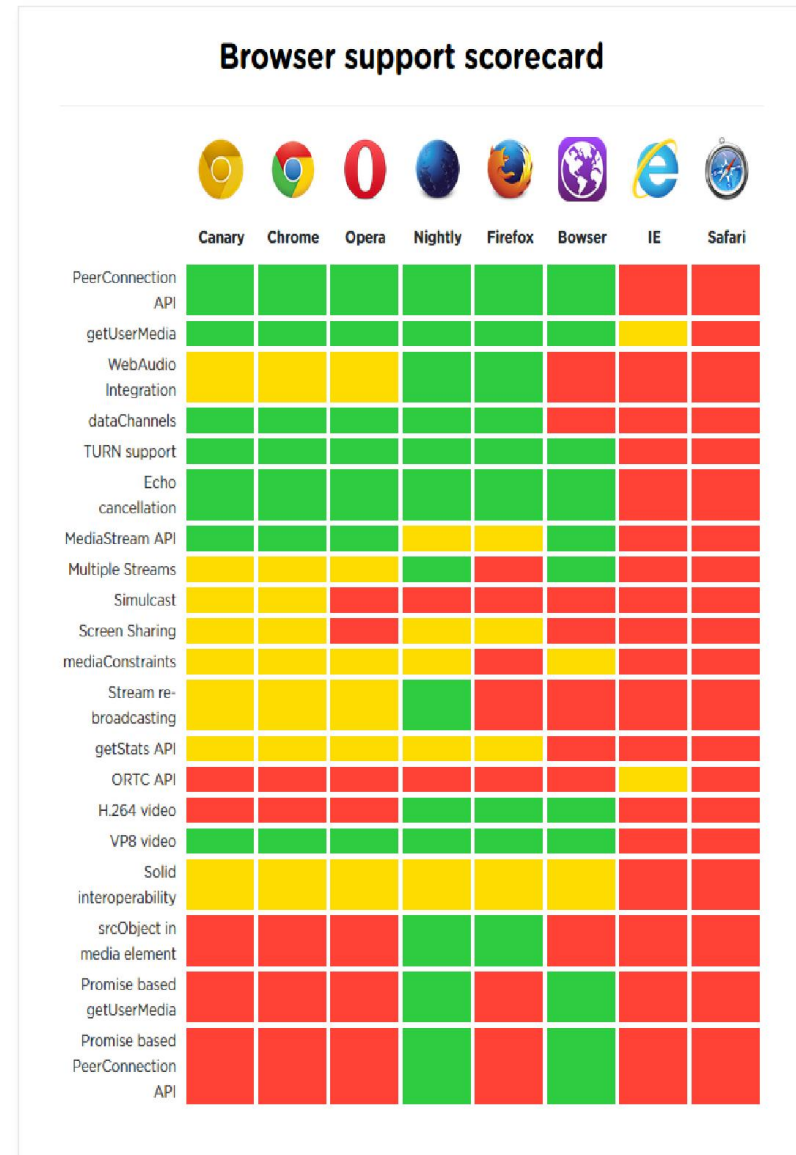


Authentication and Identity Management

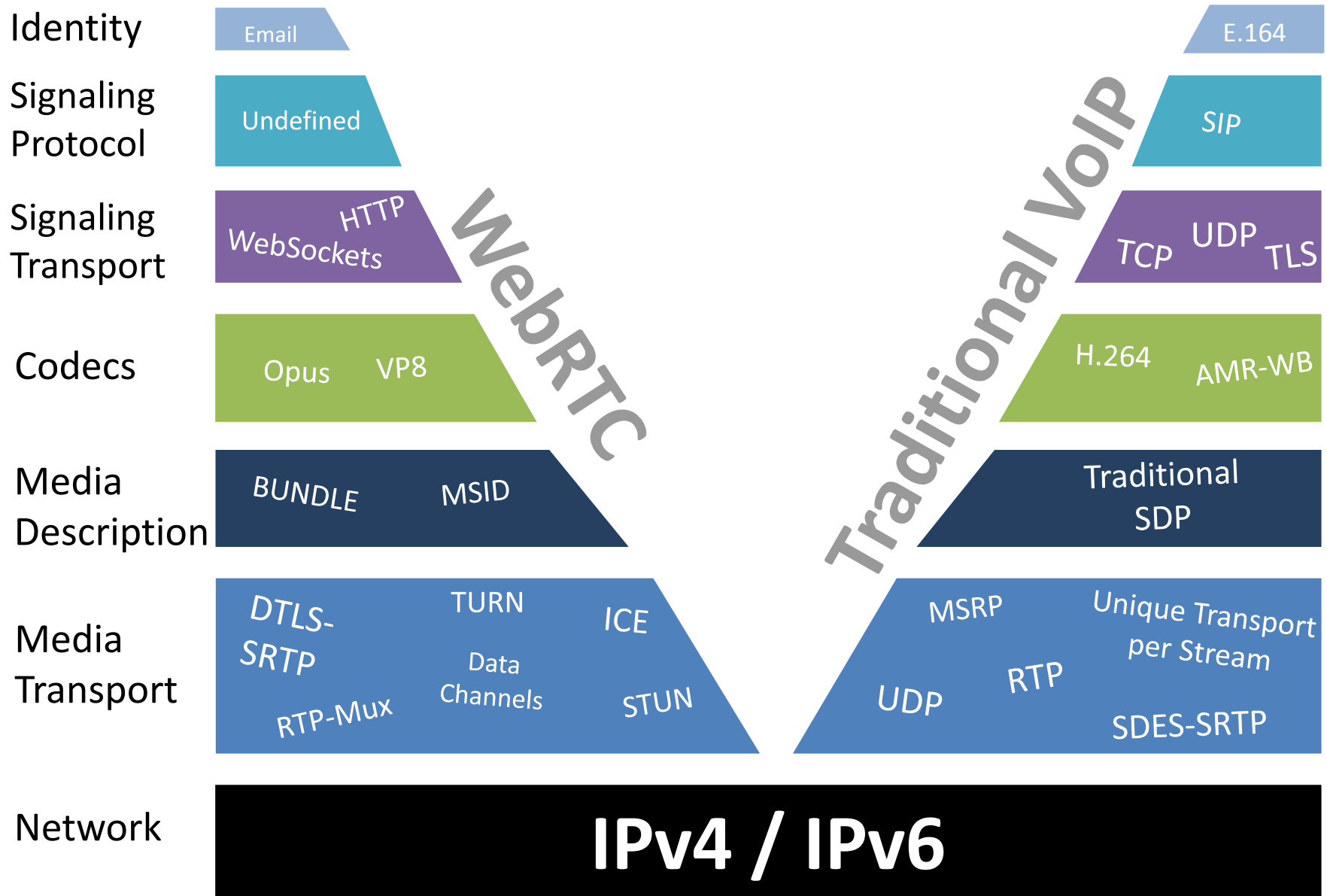


Technology and Standards Maturity

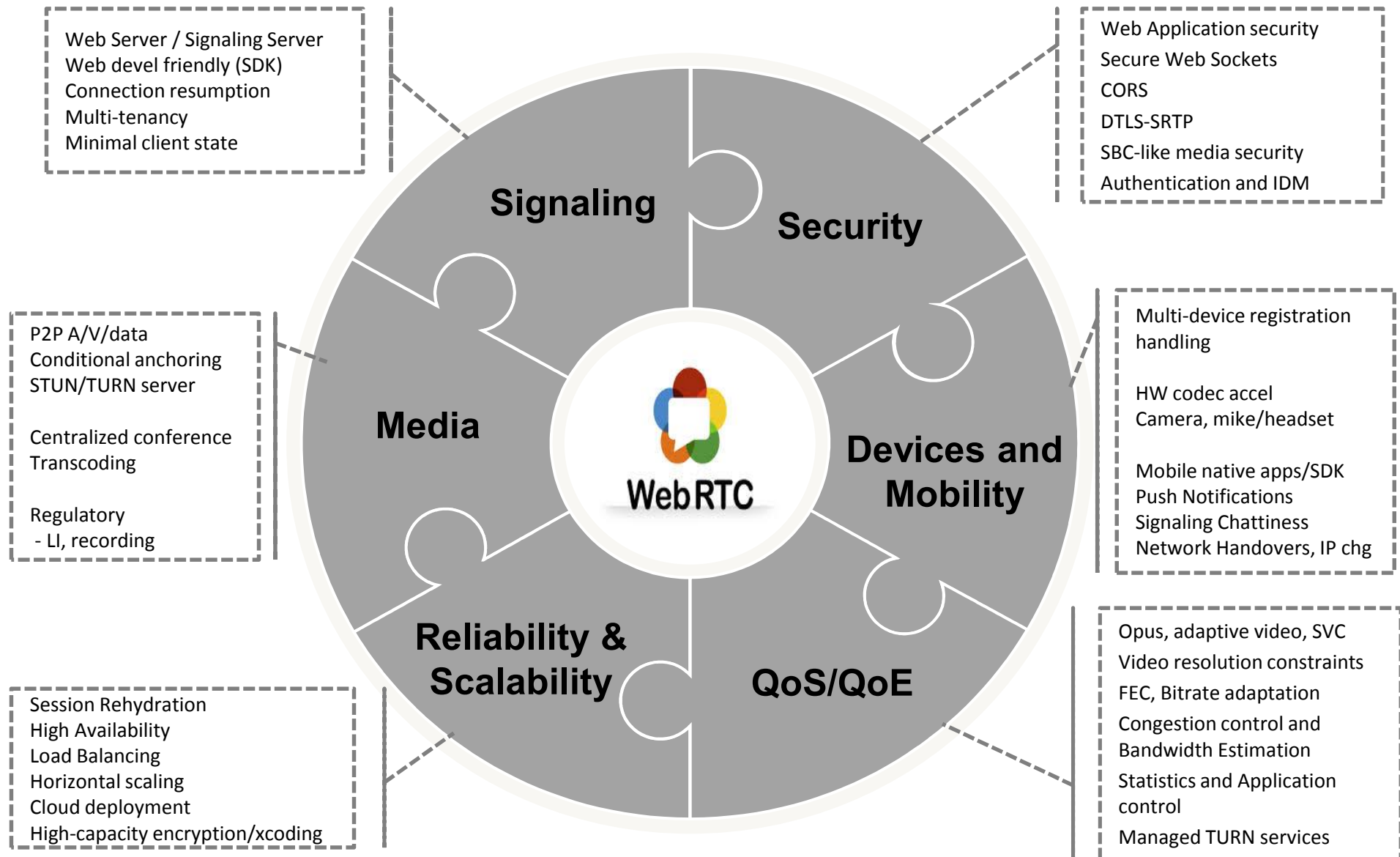
- W3C and IETF standards
 - WebRTC 1.0 close to final
 - WebRTC 1.1/ORTC
- Browser interop improving
- Video codec wars
 - compromise reached (VP8+H.264 MTI)
 - But VP8 still predominant
 - VP9, H.265...
- Deployments growing
 - Amazon Mayday
 - Google Hangouts
 - “OTT” Internet video conferencing
 - Social network calling
 - Contact Centers
 - SP CaaS



Interworking with traditional VoIP

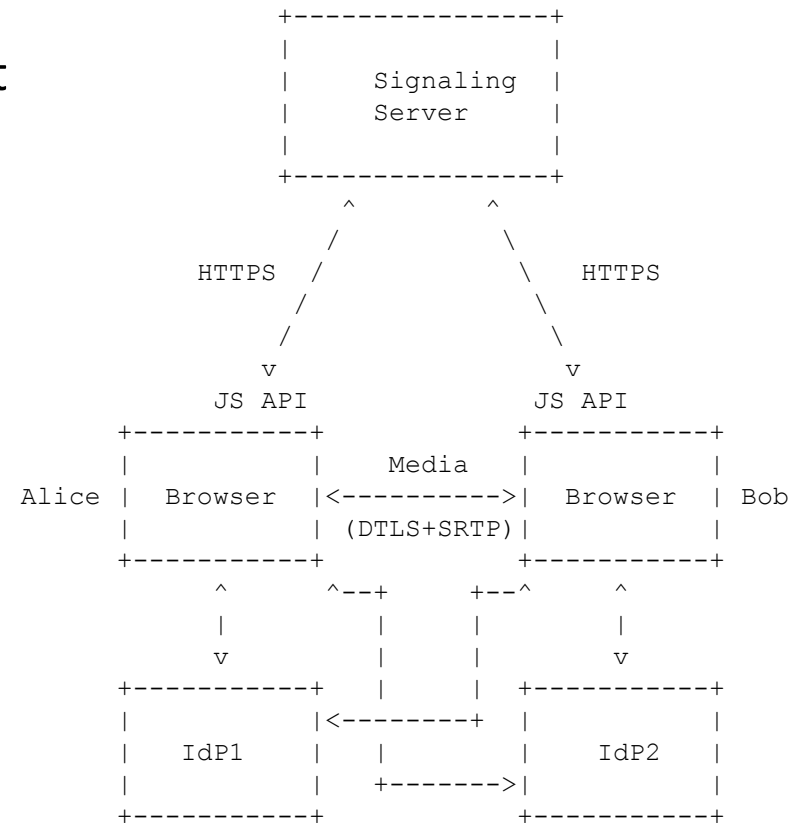


Infrastructure and Service Delivery



User Authentication and Identity Management

- WebRTC standard does not force any user authentication scheme (Javascript IdP proxy)
 - SDP offer/answer exchanging Id assertions, verified from peer browser
 - Not widespread
- Web-based Identity Providers
 - OAuth, Facebook Connect, OpenID, Google Login, Browser ID
- Reuse Web site login
 - Form-based, client certificate, SSO
- Anonymous/URL sharing
- VoIP/telco world interworking
 - Reusing comms (SIP) authentication and E.614
 - Mapping Web-ID to SIP-ID when interworking to traditional comms
 - GSMA Mobile Connect



Q & A



Thank you!

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