November 18-20, 2014 - San Jose Convention Center - San Jose, California

WebRTC
CONFERENCE & EXPO

Explore Changes in Enterprise Communications

#webrtcexpo | @webrtcexpo

www.webrtcexpo.com
Managing Expectations in Your Applications

Cary FitzGerald
Panalists

• Saraj Mudigonda
  – Imagination Technologies

• Mikhail Nekorystnov
  – Ring Central

• Alan Pey
  – J2
The world’s highest quality WebRTC media engine

Saraj Mudigonda
Imagination Technologies

Saraj.mudigonda@imgtec.com
Imagination Technologies –
The industry’s most comprehensive portfolio

Each IP core is a class leader - when used with any other processors
Lowest power - under all operating conditions
Smallest silicon area - for any performance point

Over 7 billion products shipped
Now more than 3m per day
Challenges –
Managing Expectations in Your Mobile Applications

I. Device Related
   – Battery Life
   – Latency Variability
   – Platform Diversity

II. Network Related
    – Bandwidth Variability
    – Latency Variability
    – Packet Losses

III. Ecosystem Related
     – Network Handoff
     – Interoperability

Graph:
- Voice Quality (PESQ) vs Packet Error Rate (PER)
- App#1, App#2, App#3
- Good Voice Quality
- Dropped Call
Solution: HelloSoft Enhanced WebRTC – Enhanced voice/video conferencing for mobile, tablet and social networking

- Reduced Power – Optimized algorithms & integration with HW accelerators
- User Experience – Enhanced features using GPU Compute
- Adaptation – EVQM/DVQM mitigates upto 30% packet losses
Mikhail Nekorystnov,
Sr. Director Operations
@mikhailnek

Subtitle
Fallacies of distributed computing

- The network is reliable.
- Latency is zero
- Bandwidth is infinite
- The network is secure
- Topology doesn't change
- There is one administrator
- Transport cost is zero
- The network is homogeneous
Fallacies of WebRTC development

- Computing power is infinite
- Number of components OPS can handle is unlimited
- Media resources are infinite
- PSTN interconnects can be ignored
- End points are homogeneous
- Internet is neutral to your packets
- MOS e-model is a correct measurement of user experience
- You can rely on browser security
Mikhail Nekorystnov
@mikhailnek
mikhailnek@ringcentral.com
http://www.linkedin.com/in/mikhailnek

Thank You!

RingCentral®