

RTC beyond borders

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Agenda

- Quo Vadis RTC in 2014 "Big numbers game"
- Considerations for RTC solutions
- webRTC and Kamailio's role

Quo Vadis - RTC in 2014 "Big numbers game"

What happens in a month?

Messaging App Viber Sells For \$900 Million To Japanese E-Commerce Giant Rakuten

14FEB2014



Facebook to buy WhatsApp for \$19 billion

19FEB2014



Alibaba Sinks \$215 Million Into Messaging App Tango, Valuing It At More Than \$1 Billion

20MAR2014



What will it turn into?

Considerations for RTC solutions

Macro perspective



Smartphones=game changer





Arbitrage is going away - needed new differentiation!

European Parliament votes to end roaming charges, expand consumer rights and make it easier to create better telecoms.

Brussels, 03APR2014



Rise of the sensors



Sensors are intersecting RTC

The Self(ie) Generation







Presence became adult
– 18y old – ICQ

- Major rework is needed
 - Automatised
 - Meaningful
 - Privacy aspect

... and it is still broken!!!

Metrics ...





new daily record: 20B messages sent (inbound) and 44B messages received (outbound) by our users = 64B messages handled in just 24 hours.

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8:24 PM - 1 Apr 2014



Whatsapp impact

- Scaling 64 bn messages per day!
 - 752k messages/second!
- Business 64 bn messages per day!
 - close to world wide SMS traffic
 - with avg cost of 1.1 c/msg = 200 mUSD/day

New metrics

- Activity Tinder 300 m swipes per day
- Photos Instagram 60m uploaded per day (stored) vs 600m/day which are passed -Whatsapp
- Activity login daily Instagram and Whatsapp - 70% users







Security and Privacy



Considerations

- Make sure to use TLS!
- Encrypt media. SRTP is Your friend (DTLS for key exchange)!
- Treat Your customers well.
- Safe harbours

Biz impacts



- Inevitable shift and proliferation of biz models
- For operators value is
 - ubiquitous access
 - Billing relationships
 - enabling 3rd parties
- Dynamic revenues models
- New universe of partnerships
- Profit is not the only measure and target

webRTC's and Kamailio's

Outlook - webRTC and Kamailio

Market share of the top million busiest sites

- Shift from circuit switched communications is expediting
- Arbitrage is going away enabling (for real) rich communications
- On the way to become "Apaches of the RTC space"

Developer	January 2014	Percent
Apache	554,533	55.45%
nginx	159,079	15.91%
Microsoft	126,568	12.66%
Google	30,370	3.04%

Netcraft, JAN14