

## 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?

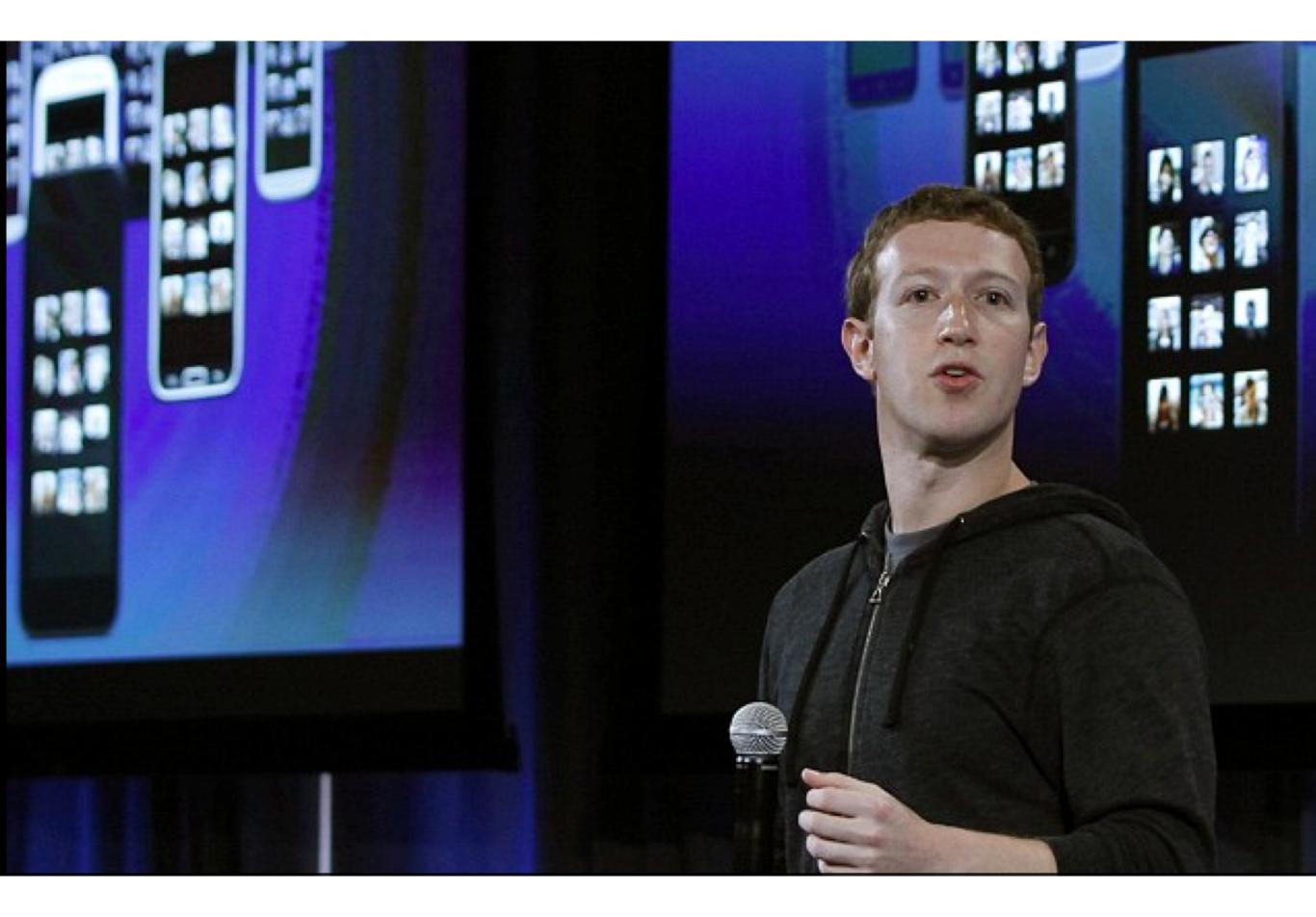
#### Messaging App Viber Sells For \$900 Million To Japanese E-Commerce Giant Rakuten

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.

🛧 Reply 🔁 Retweet 🖈 Favorite 🚥 More



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 3<sup>rd</sup> 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