IMS and WebRTC:
Let's tear down walls

Remember last year's KamailioWorld?

My conclusion from last year:
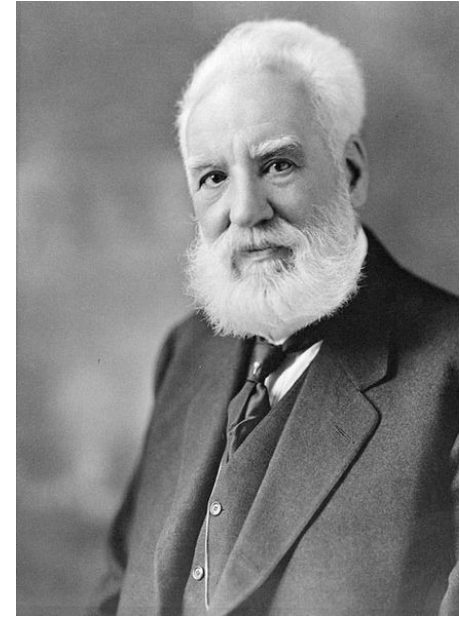
Kamailio & IMS is great!
(and IMS is a great foundation to build on)

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But what's IMS basically about?

- Graham Bell invented the real market „usable"
  Fixed-Line-Phone in 1876*
- The first mobile phones arrive on the market 1984
- Since the 2000s, fixed line telephony is declining in
  favor of mobile phones
- Skype arrived on the Market in 2003
- All is about telephony: fixed, mobile or by VoIP

- Will mobile usage decline due to VoIP and WebRTC?

*) I don't want to forget Antonio Meucci or Johann Philipp Reis, but Bell's phone
system was real mass-market telephony

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skype™

The new kid in town...

- WebRTC is an emerging standard for real-time communications

- WebRTC will change the way we communicate: forever!

- WebRTC is real converged communications!

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But again (and again and again):

If you launch a WebRTC-Service, you wan't:

- Scalability & Redundancy

- Accounting

- Rich services

And most important of all:
Do all your friends and buddys use the same service?

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Now lets look at the facts...
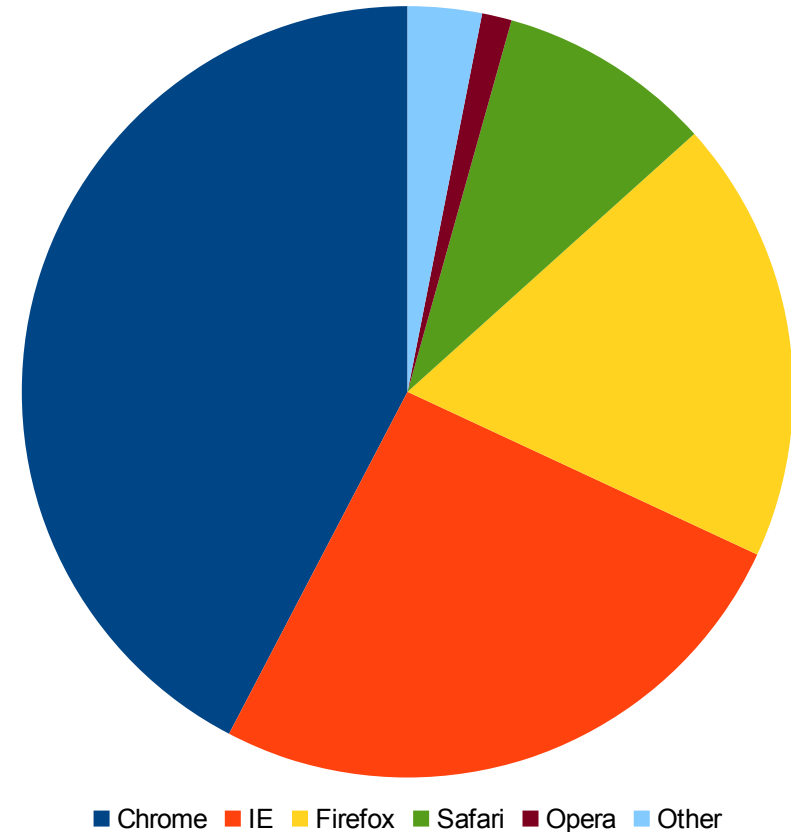
Status quo: WebRTC support in
- Google Chrome
- Firefox
- Opera

No "real" support (yet?):
- Internet Explorer*
- Safari*

*) except with a Plugin

→ 62% Marketshare?!?
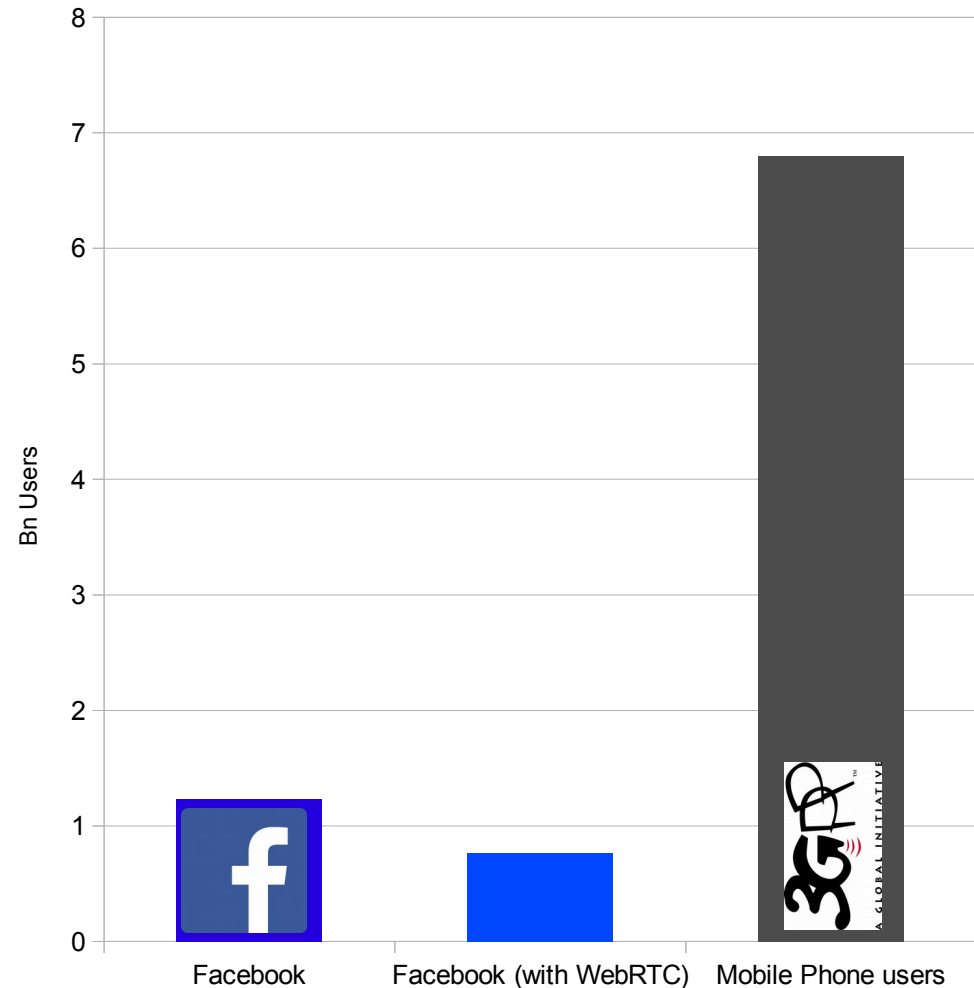
→ What about VP8/H264 issues?

Chrome ■ **IE** ■ **Firefox** ■ **Safari** ■ **Opera** ■ **Other**

(Source: GlobalStats Statcounter, March 27th 2014, last six months)

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Users, Users, Users!

We've got 6x more users
in mobile networks
than Facebook in total!

We need to go for a
Converged solution!

Sources:
Mobile Users: ITU / Wikipedia
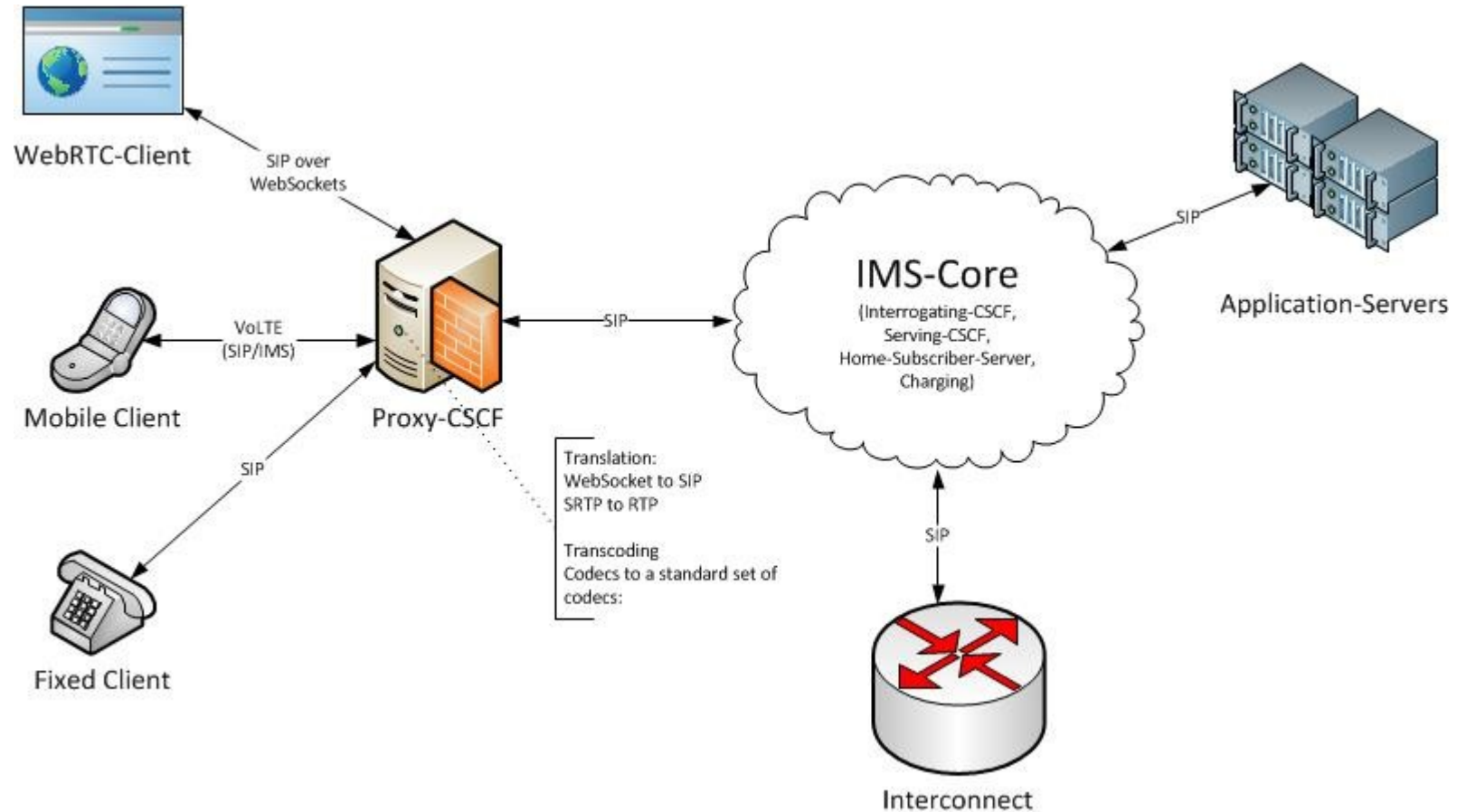Facebook: Facebook homepage
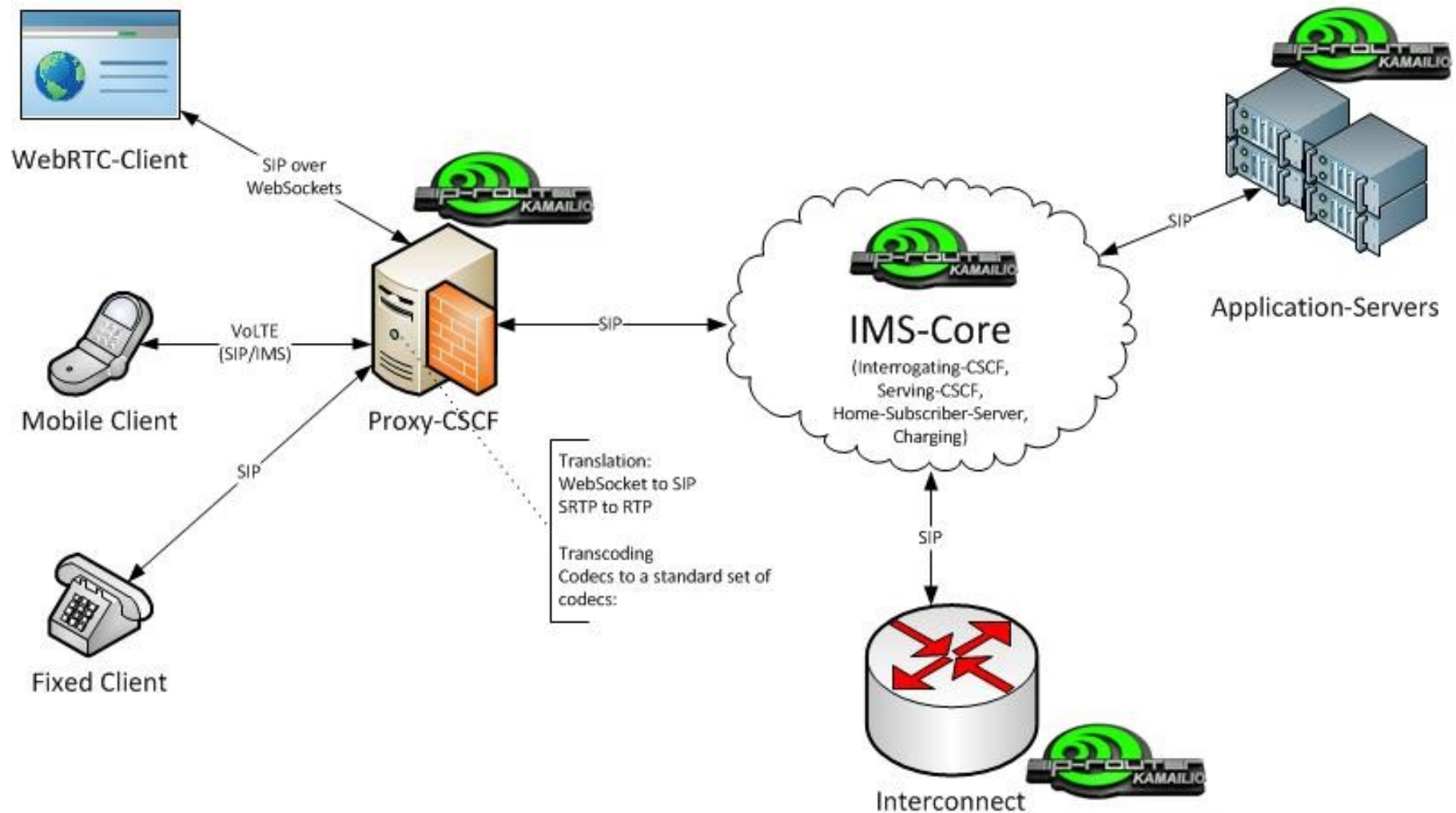
Converged?

At least for a period of time:
We need Multi-channel access to services, it could be

- Web & WebRTC

- Fixed-Access (wired Hardware)
- Mobile Access

- Interworking with other technologies

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The IMS Approach

The IMS on Kamailio approach

What's missing in Kamailio?

- The configuration example for the P-CSCF
  is prepared for WebSockets

- Media is Missing, but:
  - RTPProxy-NG and Mediaproxy has support for it
  - Needs adaption for upcoming RTPEngine
    (by Sipwise)

- Updated Config (for Media) is currently
  running in our Lab

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Questions?

Thank you!

Contact: www.ng-voice.com - carsten@ng-voice.com