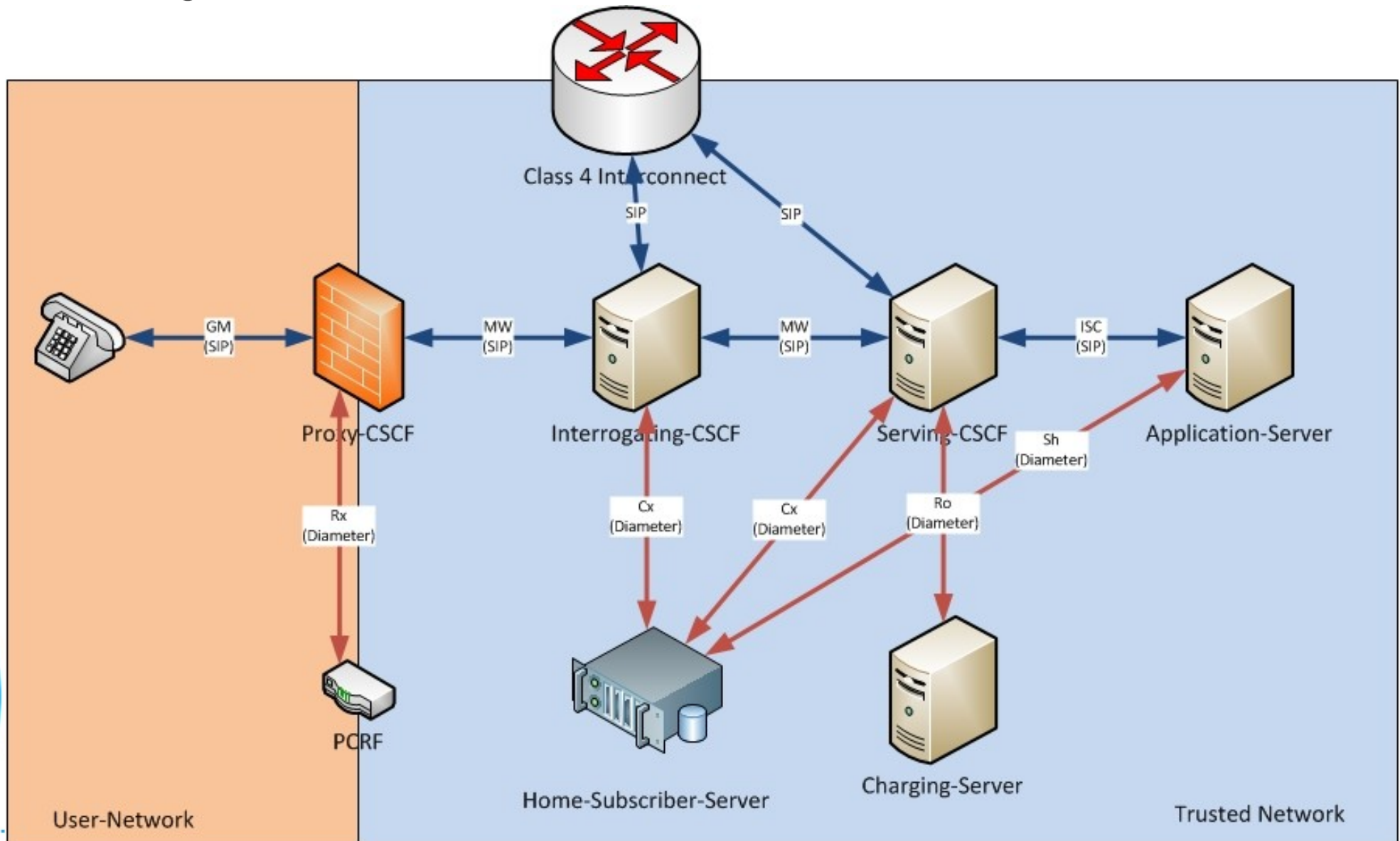


# Kamailio and the IP Multimedia Subsystem (IMS)



# (very) Basic IMS Architecture overview



# Where do we stand?

- Integration of IMS (OpenIMS-Core) started 2010
- By now, all basic IMS functionality is ready:
  - SIP-Proxies (Proxy-/Interrogating-/Serving-CSCF)
  - With according Diameter-Interfaces (Rx, Cx/Dx, Ro)
  - All necessary components are part of Kamailio 4

All components are stable, reliable & fast!

# What is missing?

(according to IMS specs)

- IPSec (aka. the „GM“-Interface)
- Emergency-CSCF (for emergency services)
- ... some fine tuning

That's about it!

# GSMA's RCS and Kamailio

- SIP/SIMPLE is integrated in Kamailio for years
  - Including Extensions for RLS & Conferencing
  - Including an XMPP Gateway functionality
- Integrated XCap-Server was added in 2010
- Integrated MSRP-Relay was added in March 2012

All protocols for  
GSMA's RCS-Standards implemented!

# Other thoughts on IMS

„IMS is about keeping old business models and preserving them in the new technical platform, instead of using the potential of the new technology to change business models.“

*(Olle E. Johansson)*



# New business models? Fine, but...

...don't you still want:

- an efficient network?
- a secure network?
- a reliable network?
- billing?

# Don't re-invent the wheel!

## Billing & Charging:

- Diameter Ro-Interface in Kamailio\*
- Pre- and Postpaid billing
- Tested against jBilling, Ericsson Prepaid-Server, Mobicents and others... ;-)

\*) available in the next Kamailio release

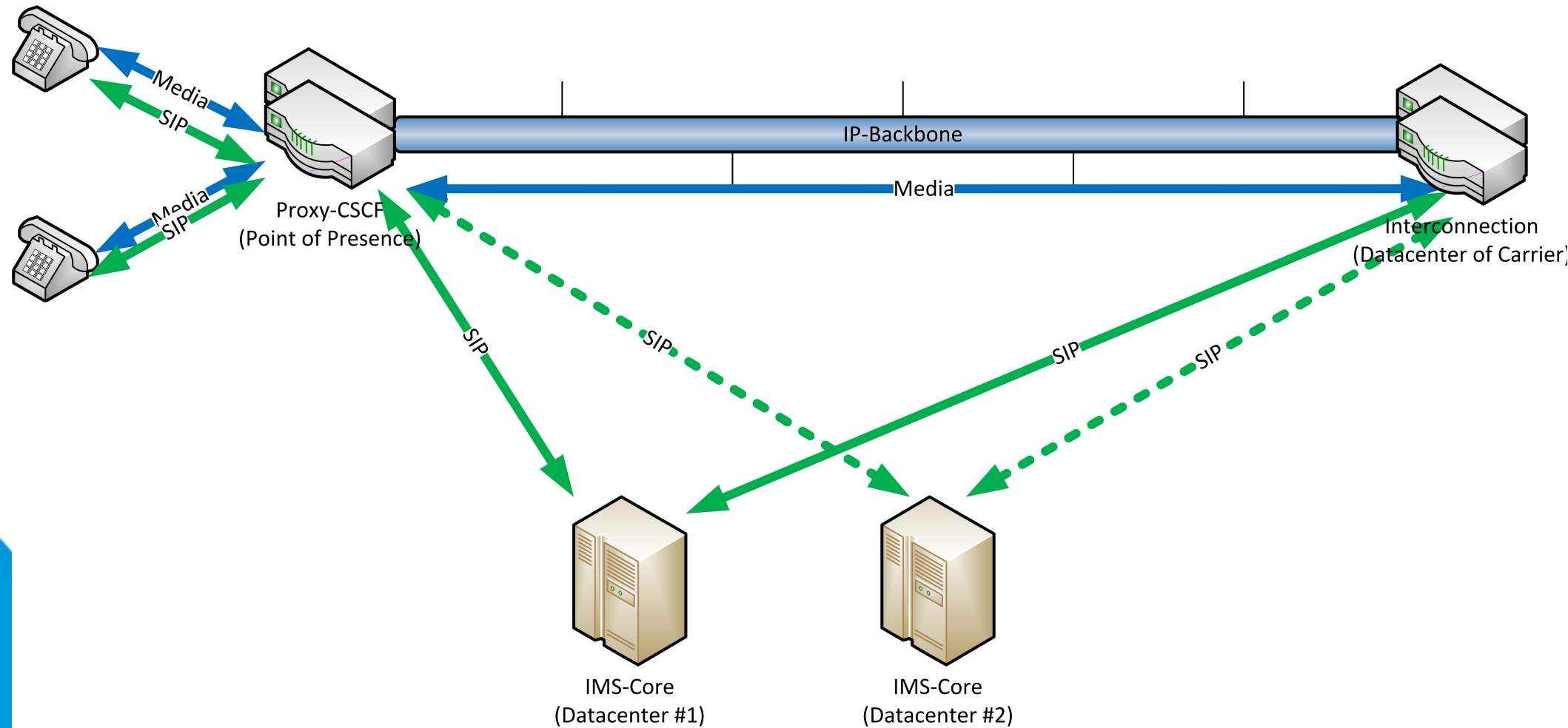


# An efficient & reliable setup

## Goals:

- Maximum reliability & security
- Shortest Media-Path for efficiency & quality
- Scaling factors

# An efficient & reliable setup



# Conclusion

- IMS provides all core functions for your network
  - Registration, Call-Routing, Security, Scalability, Billing, Authorization, Authentication, ...

Focus on building applications  
Instead of re-inventing the wheel again!

# People involved in IMS on Kamailio



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Questions?



Thank you!

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