



Testing  
Technologies



# RCS 1.2.2 Type System Architecture

Conference Call, OMA, May 28<sup>th</sup> 2013



# Analyzing the requirements

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- RCS component including IMS
  - ▶ Handles e.g IMS registration, Calls Set Up and SIP MESSAGE
- MSRP component
  - ▶ Handles e.g SEND message
- STUN component
  - ▶ Handles keep alive messages
- HTTP component
  - ▶ Handles e.g HTTP Request for RCS Server Configuration

# Reusing IMS LTE architecture?

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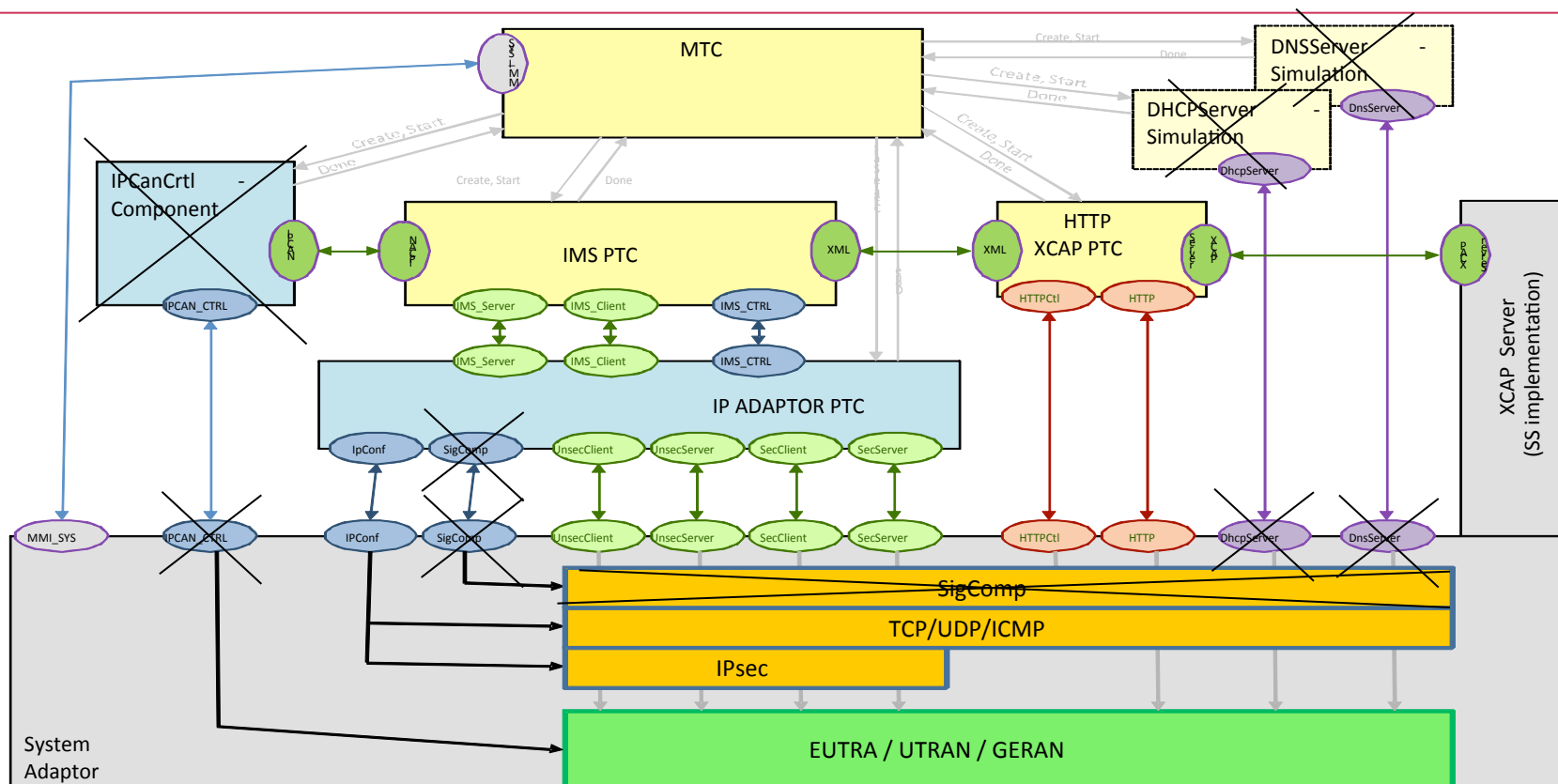
- 3GPP IMS LTE architecture provides
  - ▶ IMS Component
  - ▶ IP Adaptor Component
  - ▶ HTTP Component
  - ▶ DHCP Server, DNS Server, IPCanCtrl

# Why using IMS LTE architecture

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- Standardized and validated
  - ▶ Type System
  - ▶ Behaviour
- In particular for setting up IMS session, which mandates interworking with IPsec

# 3GPP LTE IMS Test System Architecture

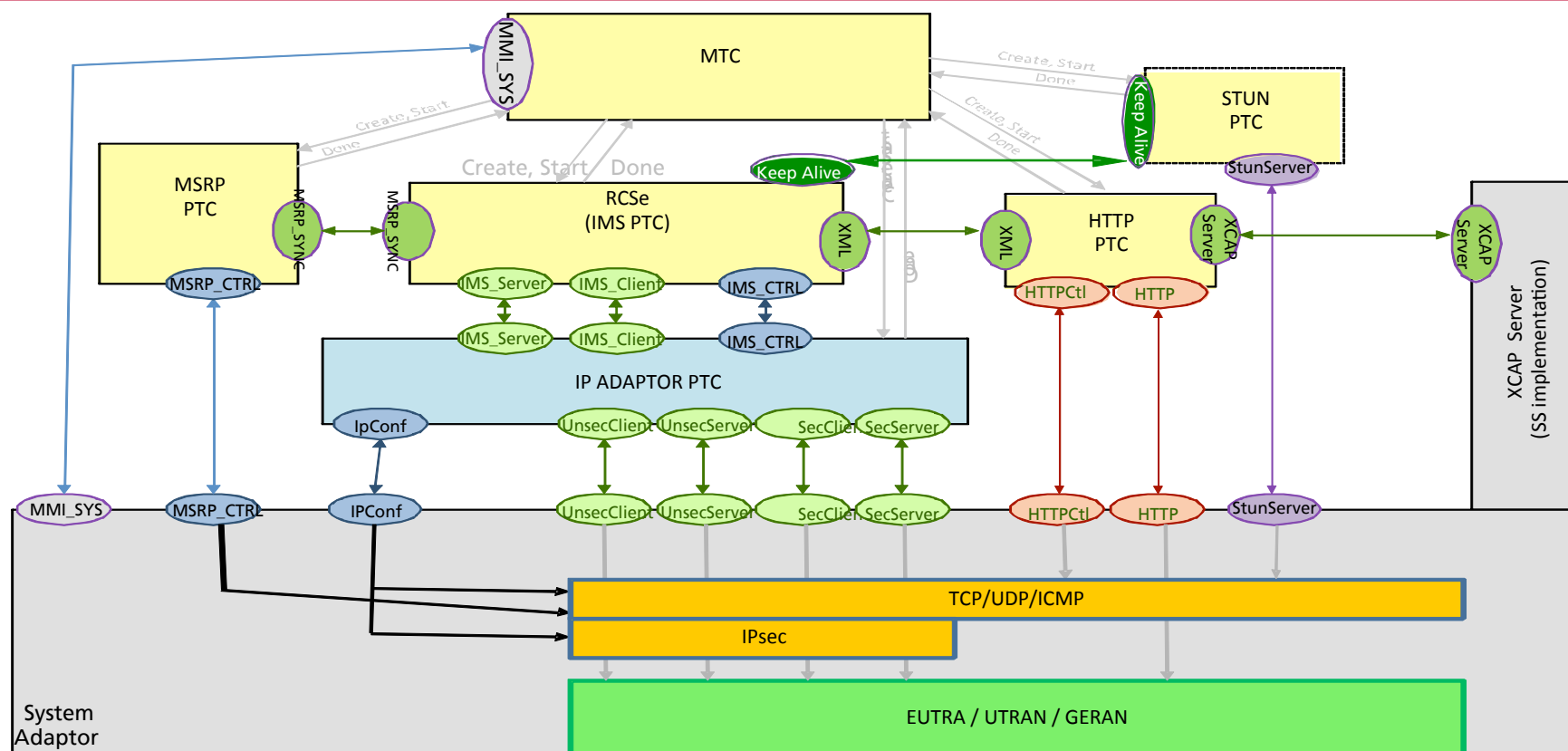


# Changes to the IMS LTE architecture

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- With the permission of 3GPP reusing of IMS LTE test system architecture for the
  - ▶ 3GPP\_34\_229\_LTE\_IMS\_D13wk15
- Remove DHCP, DNS and IPCanCtrl components
  - ▶ Q (from Michael): How to control the test system adapter in case of roaming, cell switching, etc?
  - ▶ A (from Theo): When this is required by test cases, the component (and messages) will be reincluded. No new mechanism will be defined.
- Add MSRP and STUN component
- Extend IMS component to a RCS component

# RCS Test System Architecture



# Details about TS Architecture

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- Inter Component Ports
  - ▶ STUN-RCS<sub>e</sub> communication Keep Alive msg
  - ▶ MSRP-RCS<sub>e</sub> communication command trigger
- Test System Interface Ports
  - ▶ Reused the MTC MMY\_SYS Port for RCS User Experience
  - ▶ MSRP\_CTRL MRSP Messages



# RCS Test System Status

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- IMS and HTTP Type System
  - ▶ From 3GPP
- MSRP Type System
  - ▶ From ETSI STF 345
  - ▶ Q (from Michael): Are there PDU defined for message exchange or does the test system adapter require an MSRP simulation?
  - ▶ A (from Theo): PDU are being defined. No simulation needed in test system adapter.
- STUN Type System from RFC5389
  - ▶ Developed by us

# Summary

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- Presentation slides and the Type System available on demand just after the meeting
- Questions?

# Questions & Answers

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- MSRP message content?

- ▶ Q (from Theo): When is the MSRP content expected that is marked FFS in Section D.3 of the document?
- ▶ A (from Michael): Content has to be defined. Trigger this work in Dublin next week.
- ▶ AP: Feedback awaited from OMA after the Dublin meeting.