TSG-CN WG5
(Open Service Access)
Status Report

Joint-API-group

Prepared by   **Reported by**

Ard-Jan MOERDIJK   **Musa UNMEHOPA**
TSG-CN WG5 Chair   **TSG-CN WG5 Vice Chair**

- **Achievements**
  - **technical**
  - **co-ordination with other groups**
- **Meetings**
  - **meeting overview**
  - **future meetings**
- **What CN5 would like to request from CN**
  - **Input documents overview**
  - **Rel-4 issues**
  - **Rel-5 issues**
  - **Rel-6 outlook**
- **Acknowledgements**

Rel-5 Status overview

The last pending item for Rel-5 (OSA security with SA3) has been concluded in last CN5 meeting.

OSA Rel-5 stage 3 is now finalised !

Corresponding aligned Parlay 4.0 and ETSI OSA 2.0 specifications have now also be produced !

As mentioned at the previous CN plenary (CN#16):

Major Achievement : alignment between the parent bodies from the start of new releases.

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Joint-API-group outgoing Liaison Statements

- **3 outgoing LSs since CN#16 (see NP-020421)**

N5-020564	LS reply to S1, S2 (cc: S3) on enhanced user privacy and new security requirements for LCS
N5-020565	LS to S5 : Joint Meeting SA5/CN5/T2 on MMS charging
N5-020569	LS from N5 to S3 : OSA Security

Co-ordination with SA3

- **Around CN5 #15 in Cancun (11/2001) communication between SA3 and CN5 regarding OSA Framework security aspects.**

- **Joint session on OSA security during the SA3 #22 meeting in Bristol (02/2002).**

- **4 CRs were presented at CN5#17 (04/2002), these were also discussed at SA3#23 (05/2002).**

- **Final version of these CRs agreed at CN5#19 meeting in Montreal (07/2002) and at SA3#24 (07/2002).**

Co-ordination with SA5/T2 on MMS

- **Around CN5 #15 in Cancun (11/2001) communication between T2 and CN5 regarding MMS.**

- **Joint session on MMS charging between T2 and SA5 during the SA5#30 meeting in Tampere where also CN5 was initially invited (08/2002).**

- **As the scope of the joint session was purely on network CDR information for MMS charging, CN5 invited interested parties from T2 and SA5 for another joint session on the overall MMS support for VASPs solution.**

Eurescom P1110

Open Service Access: Advantages and opportunities in service provisioning on 3G Mobile Networks

http://www.eurescom.de/public/projects/P1100-series/P1110/default.asp

- **Eurescom (24 European operators) is concluding project P1110 on Parlay/OSA.**

- **Last meeting results / recommendations were fed-back:**
    - **Data view of the Parlay/OSA Framework.**
    - **Non functional aspects of Parlay / OSA.**
    - **Service Level Agreements.**

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Co-ordination with 3GPP2

- **3GPP2 have installed sub-WG for OSA in TSG-N.**

- **At the next CN5 meeting delegates that participate in 3GPP2 will also participate in our meeting (most of them are from individual 3GPP member companies, others via 3GPP guest status). We expect in this way that a fruitful co-operation starts and that delegates from the PP2 angle continue participating in our meetings.**

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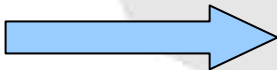 - **Rel-6 outlook**
- **Acknowledgements**

Joint-API-group *Meetings*

- ## CN5 #19

  - ### 8 - 12 July 2002 in Montreal, CANADA, hosted by Parlay

  - ### Attended by 27 delegates (more people walked in)

  - ### Report in NP-020422 (N5-020557)

Future meetings

Meeting	Date	Location	Host
TSG#17	3 - 12 Sep 2002	Biarritz, FRANCE	Alcatel
CN5#20	**23-27 Sep 2002**	**Miami, FL, USA**	**NA Friends**
CN5#21	**28-31 Oct 2002**	**Dublin, IRELAND**	**Parlay**
TSG#18	3 - 12 Dec 2002	New Orleans, USA	NA Friends
CN5#22	**27-30 Jan 2003**	**Tokio/Hong-Kong/Singapore**	**Parlay**
CN5#23			
TSG#19	11 - 21 Mar	Jersey Island, UK	UK Friends
CN5#24			
CN5#25			
TSG#20	10 - 19 Jun	Hämeenlinna,	NOKIA
CN5#26			
CN5#27			
TSG#21	16 - 25 Sep	TBD, GERMANY	
CN5#28			
CN5#29			
TSG#22	9 - 18 Dec 2003	TBD, USA	NA Friends

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Contributions to this meeting

TDoc #	Agenda	Tdoc Title
NP-020420	6.5.1	Chairman's report from CN5 (slide presentation)
NP-020421	6.5.1	LSs outgoing from CN5 between CN#16 and CN#17
NP-020422	6.5.1	Draft Report of CN5#19, Montreal, CANADA, 8-12 July 2002
NP-020423	7.10	Rel-4 CRs 29.198-03
NP-020424	7.10	Rel-4 CRs 29.198-04
NP-020425	7.10	Rel-4 CRs 29.198-05
NP-020426	7.10	Rel-4 CRs 29.198-08
NP-020427	8.2	Rel-5 CRs 29.198-01
NP-020428	8.2	Rel-5 CRs 29.198-03
NP-020429	8.2	Rel-5 CRs 29.198-04-1
NP-020430	8.2	Rel-5 CRs 29.198-04-2
NP-020431	8.2	Rel-5 CRs 29.198-04-3
NP-020432	8.2	Rel-5 CRs 29.198-05
NP-020433	8.2	Rel-5 CRs 29.198-06
NP-020434	8.2	Rel-5 CRs 29.198-07
NP-020435	8.2	Rel-5 CRs 29.198-08
NP-020436	8.2	Rel-5 CRs 29.198-11
NP-020437	8.2	Rel-5 CRs 29.198-12
NP-020438	9.7	Rel-6 Draft Work Item Description for OSA Stage 3
NP-020439	8.2	Rel-5 CRs 29.198-13
NP-020440	8.2	Rel-5 CRs 29.198-14

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3GPP Rel-4 OSA Stage 3

- **For the aligned 3GPP Rel-4 / Parlay 3.1 / ETSI OSA 1.1 a few essential error corrections without which functionality cannot be used have been agreed by the** *joint-API-group*

- **CRs 29.198-03**   **NP-020423** (Mirror Rel-5 CR in NP-020428)
- **CRs 29.198-04**   **NP-020424** (Mirror Rel-5 CR in NP-020430)
- **CRs 29.198-05**   **NP-020425** (Mirror Rel-5 CR in NP-020432)
- **CRs 29.198-08**   **NP-020426** (Mirror Rel-5 CR in NP-020435)

CN approval is requested under Agenda item 7.10

A GLOBAL INITIATIVE

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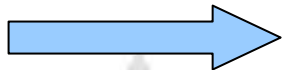 - **Rel-6 outlook**
- **Acknowledgements**

3GPP Rel-5 OSA Stage 3

For the aligned 3GPP Rel-5 / Parlay 4.0 / ETSI OSA 2.0 a number of corrections (mainly OSA security) have been agreed by the

- CRs 29.198-01   NP-020427
- CRs 29.198-03   NP-020428   (contains Mirror of Rel-4 CR in NP-020423)
- CRs 29.198-04-1   NP-020429
- CRs 29.198-04-2   NP-020430   (contains Mirror of Rel-4 CR in NP-020424)
- CRs 29.198-04-3   NP-020431
- CRs 29.198-05   NP-020432   (contains Mirror of Rel-4 CR in NP-020425)
- CRs 29.198-06   NP-020433
- CRs 29.198-07   NP-020434
- CRs 29.198-08   NP-020435   (contains Mirror of Rel-4 CR in NP-020426)
- CRs 29.198-11   NP-020436
- CRs 29.198-12   NP-020437
- CRs 29.198-13   NP-020439
- CRs 29.198-14   NP-020440

CN approval is requested under Agenda item 8.2

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Rel-6 Outlook

In line with SA1 OSA Rel-6 WID approved at SA#15 (03/2002) in SP-020065 (S1-020590), and as currently reflected by the 3GPP Work Plan, CN5 will work on:

1   **Support of a generic network interface function**
2   **Local services**
3   **Support for MMS Relay/Server to VASP Connectivity**
4   **Support for the Push-Service**
5   **Enhanced User Notification**
6   **Support for GUP to enable applications access to the Users Profile**
7   **Plus Rel-5 work moved by SA1/2 into Rel-6** (subject of SA#17 approval)
8   **New requirements added by SA1#17 (08/02)** (subject of SA#17 approval)

CN is invited to approve under Agenda item 9.7

NP-020439   Rel-6 Work Item Description for OSA Stage 3

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Acknowledgements

Core people from CN5 joint-API-group **were awarded by Parlay for the work on Rel-5 / Parlay 4.0**

Background material

What is the *Joint-API-group* ?

The OSA-API specification is the result of a joint working group, holding co-located meetings, consisting of:

- **Parlay (**www.parlay.org**)**

- **ETSI SPAN's Project OSA (**www.etsi.org/span**)**

- **3GPP TSG-CN WG5 (**www.3gpp.org/TB/CN/CN5/CN5.htm**)**

in co-operation with companies representing the JAIN

(http://jcp.org/jsr/tech/jain.jsp**) community**

What is the joint-API-group *doing?*

Parlay-vous OSA ?   see: http://www.3gpp.org/TB/CN/CN5/CN5.htm

... or what you always desired/wanted/wished to know about the
Open Service Access (OSA) Application Programming Interfaces (APIs)

http://www.3gpp.org/TB/CN/CN5/N5-020130_AllAboutParlayOSA.ppt

Opening the networks with Parlay / OSA APIs: standards

- The past years have shown an enormous increase in efforts to open-up telecom network functionality for application development. This means that applications can access core network functionality by means of open standardized APIs based on open technology.

- One value of opening-up of the network is the emergence of new business models where applications can be developed and provided by enterprises outside the traditional network operator domain.

- Combined with the fact that applications can be built with standard IT technology and tools, new innovative applications will hit the market with development cycles shorter than ever shown before. (PDF file)

Presentations/Tutorials/Press-Releases can be found at

http://www.3gpp.org/ftp/TSG_CN/WG5_OSA/_Pesentation_Tutorial_Press-Releases

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Officers

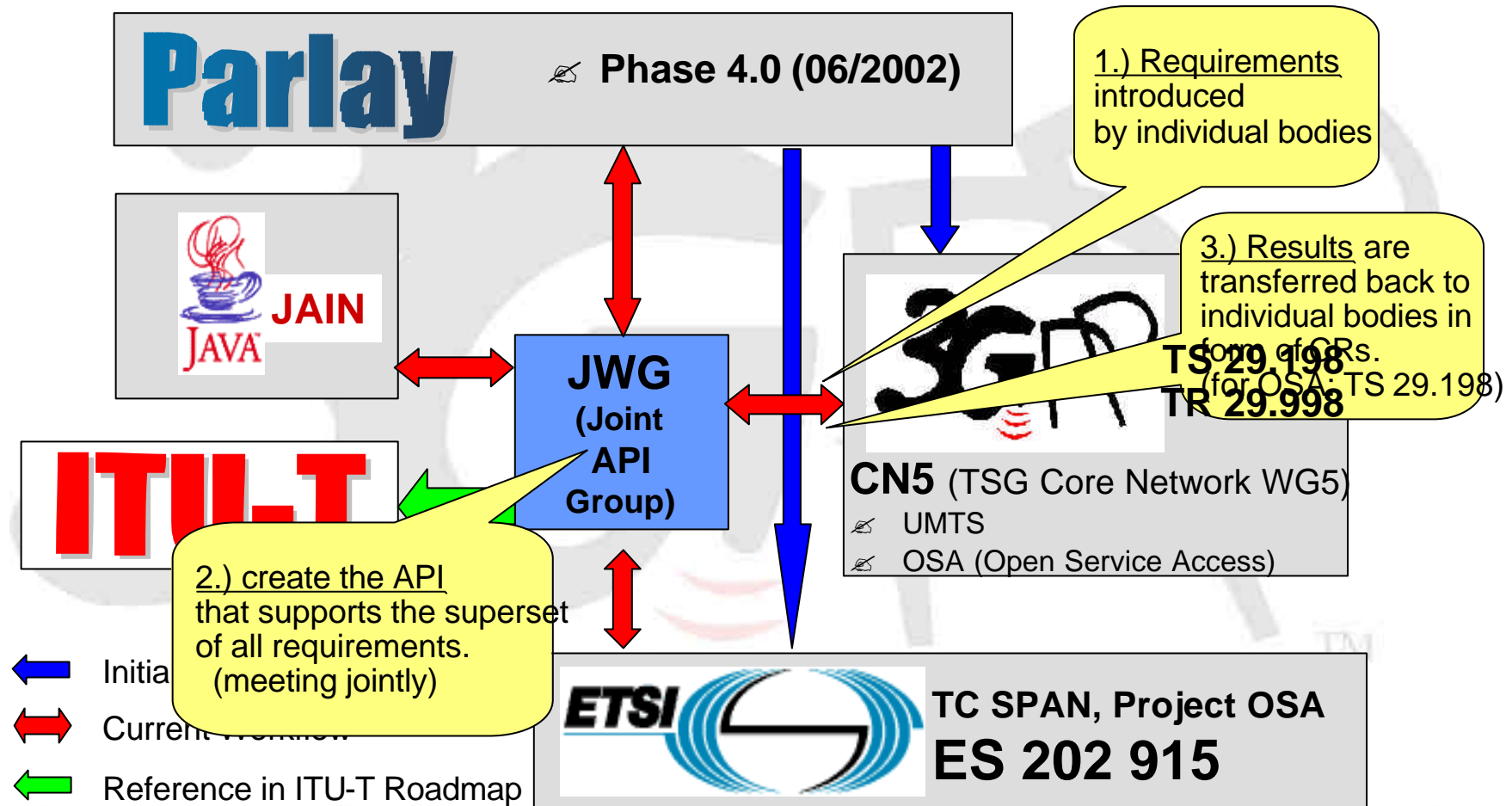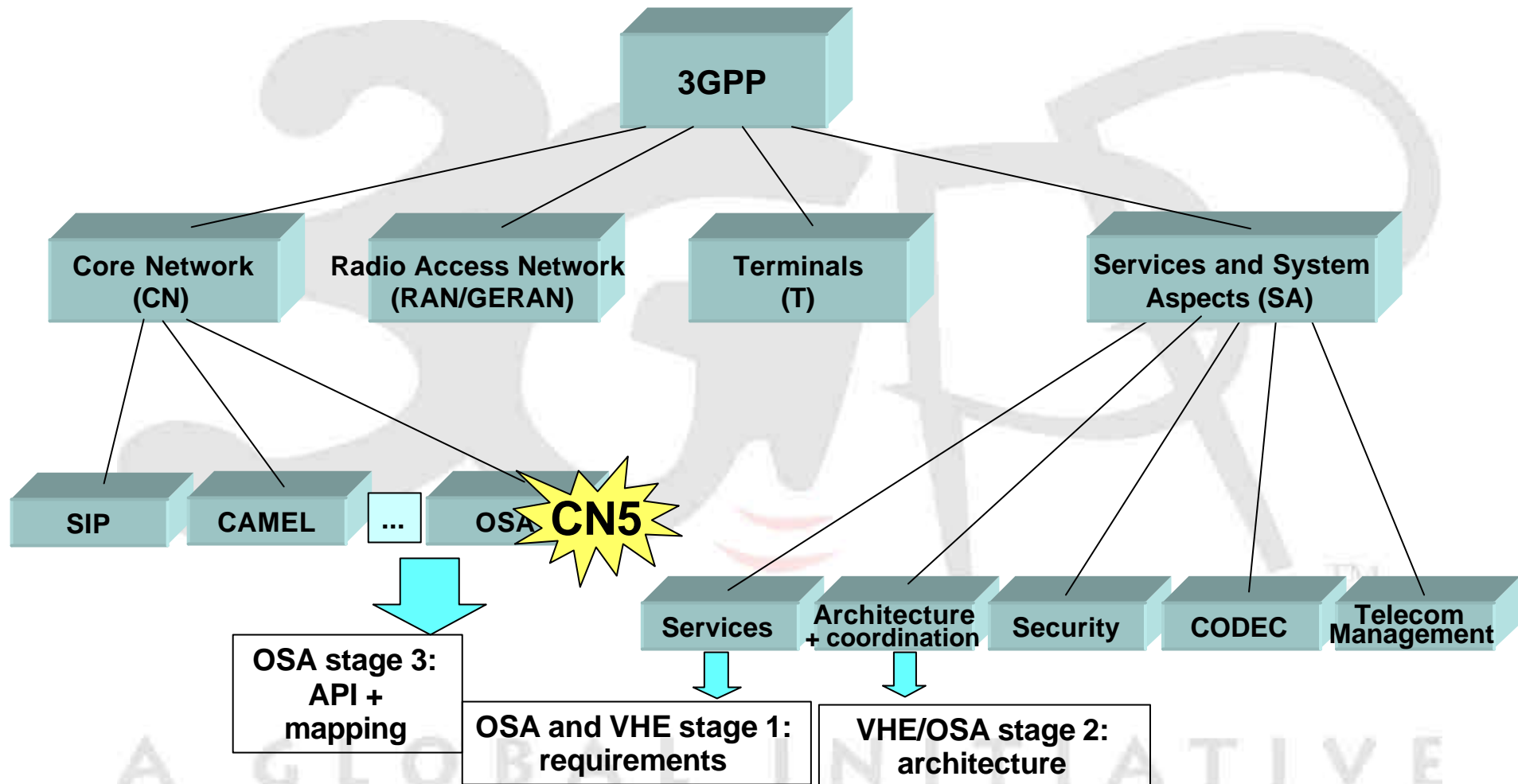- **ETSI Project OSA Chairperson**
    Chelo ABARCA (Alcatel)
- **3GPP TSG-CN5 Chairman**
    Ard-Jan MOERDIJK (Ericsson) – since 07/2001
- **Parlay representative**
    Richard STRETCH (BT)
- **3GPP TSG-CN5 Vice Chairman**
    Musa UNMEHOPA (Lucent) – since 10/2001

- **Methodology Expert** – since 05/2000
    Ultan MULLIGAN (ETSI PTCC)

- **MCC Support** – since 01/2001
    Adrian ZOICAS (MCC)

Relation to Standardisation Bodies

Parlay ✍ **Phase 4.0 (06/2002)**

JAIN **JAVA**

ITU-T

JWG (Joint API Group)

CN5 (TSG Core Network WG5)
- ✍ UMTS
- ✍ OSA (Open Service Access)

TS 29.198
TR 29.998

ETSI **TC SPAN, Project OSA**
ES 202 915

1.) Requirements introduced by individual bodies

3.) Results are transferred back to individual bodies in form of CRs. (for OSA: TS 29.198)

2.) create the API that supports the superset of all requirements. (meeting jointly)

Initia... — Initia...

Current Workflow — Current Workflow

Reference in ITU-T Roadmap — Reference in ITU-T Roadmap

OSA in the 3GPP organisation

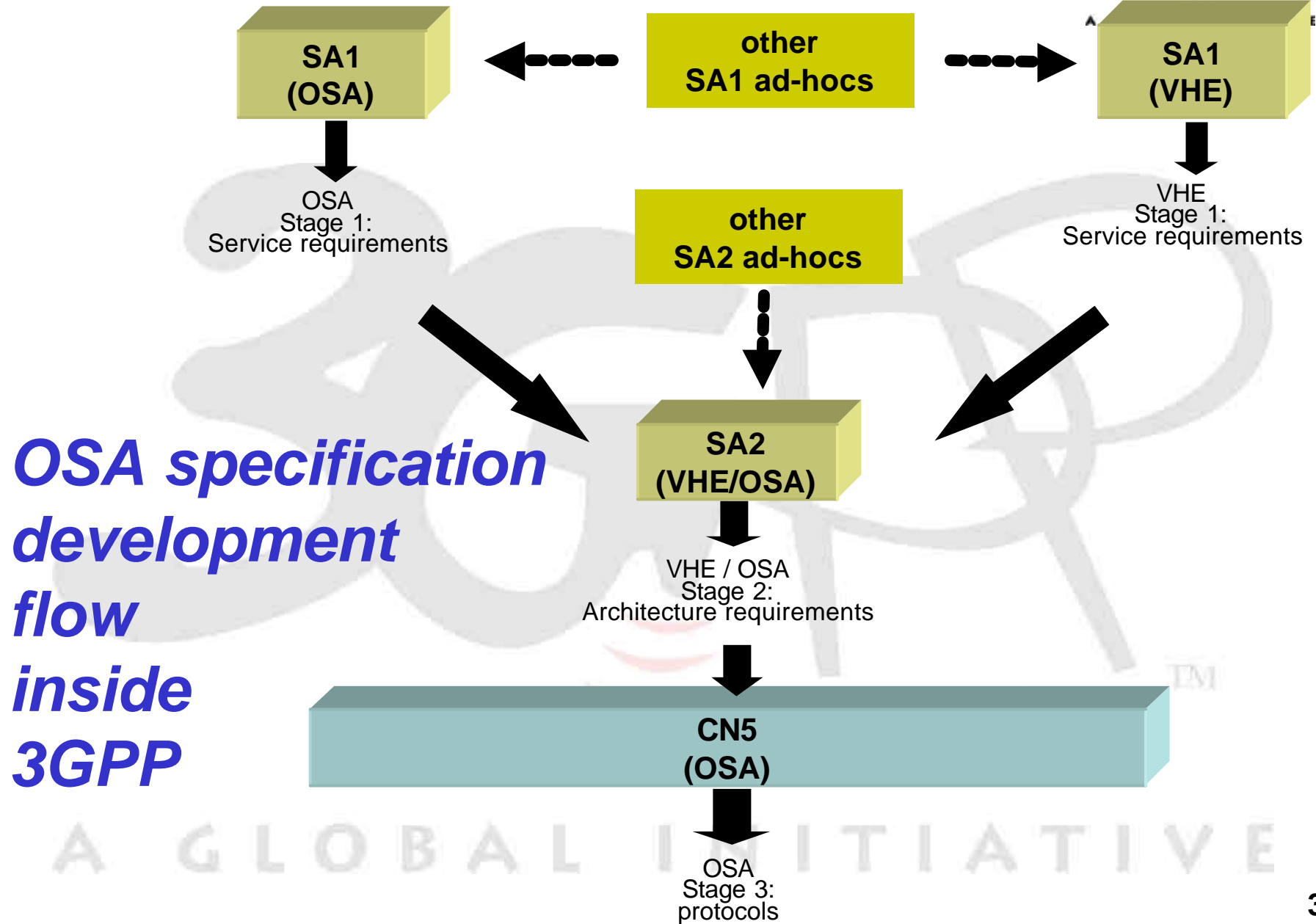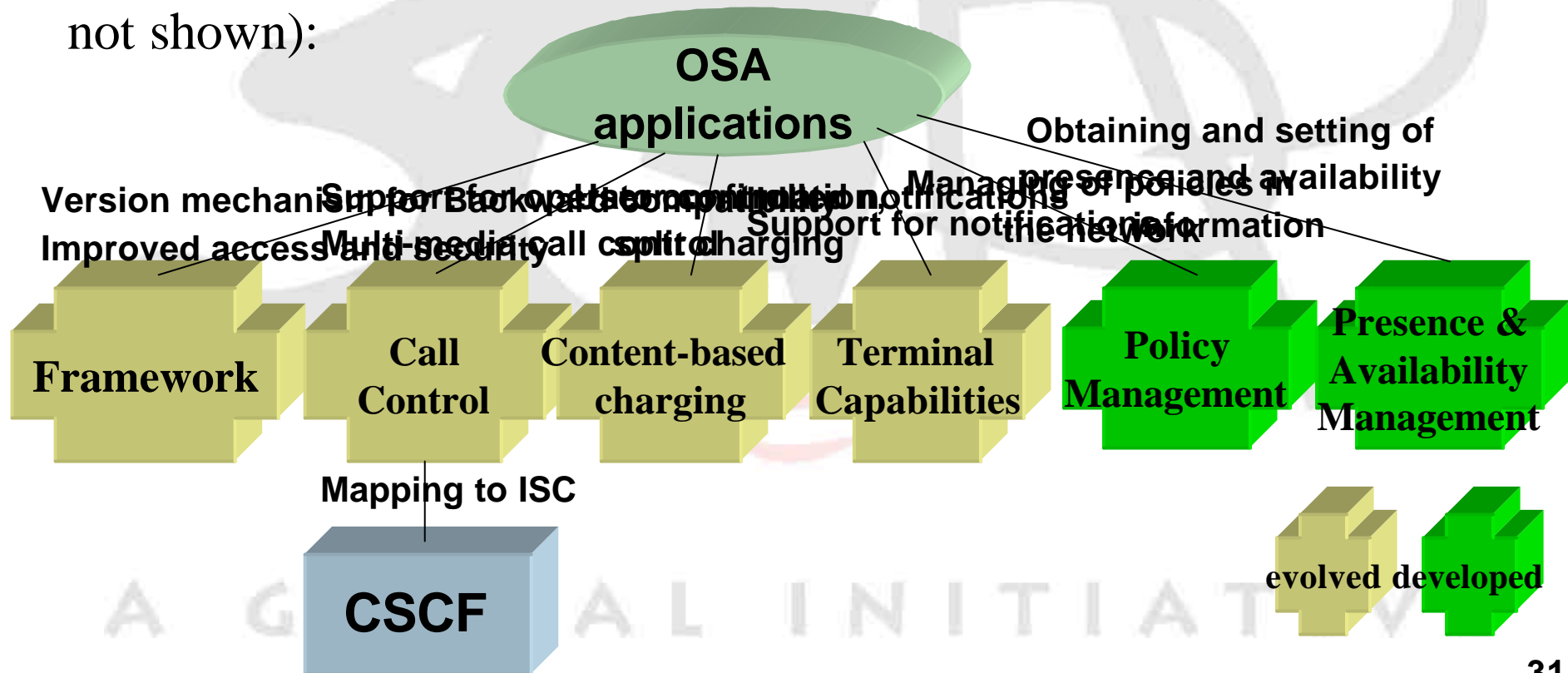# *Requirements Flow*

- **SA1 OSA ad-hoc delivers OSA requirements**
- **SA1 VHE ad-hoc delivers VHE requirements, that may impact OSA (OSA is a VHE-enabling toolkit)**
- **SA2 VHE/OSA receives these two sets of requirements, and classifies them into:**
  - **those which have an architectural impact and thus need further elaboration**
  - **those which do not, and can be directly forwarded to CN5**

3GPP

SA1 (OSA)

other SA1 ad-hocs

SA1 (VHE)

OSA
Stage 1:
Service requirements

VHE
Stage 1:
Service requirements

other SA2 ad-hocs

OSA specification development flow inside 3GPP

SA2 (VHE/OSA)

VHE / OSA
Stage 2:
Architecture requirements

CN5 (OSA)

OSA
Stage 3:
protocols

A GLOBAL INITIATIVE

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What have we achieved in Rel-5 (1/2)?

Following SCFs have been evolved / developed in time frame for 3GPP Rel-5 / Parlay 4.0 (in addition to other already existing SCFs not shown):

OSA applications

Version mechanism

Improved access and security

Support for application initiated notifications

Backward compatibility

Multi-media call control

Support for online / split charging

Managing of policies in the network

Support for notifications

Obtaining and setting of presence and availability information

Framework

Call Control

Content-based charging

Terminal Capabilities

Policy Management

Presence & Availability Management

Mapping to ISC

CSCF

evolved   developed

What have we achieved in Rel-5 (2/2) ?

- OSA / Parlay APIs specified in UML
- UML model is used to generate all our specs
- Mapping to different distribution technologies :
    - OMG - IDL for CORBA
    - in Rel-5 also WSDL for HTTP / SOAP and references to Java APIs from JAIN SPA

OMG -IDL   WSDL   JAIN SPA