

# **TSG-CN WG5** **(Open Service Access)** **Status Report**

**joint-API-group**

Reported by

**Chelo ABARCA**

**New TSG-CN WG5**

**Chair**

Reported by

**Musa UNMEHOPA**

**TSG-CN WG5 Vice Chair**

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# joint-API-group

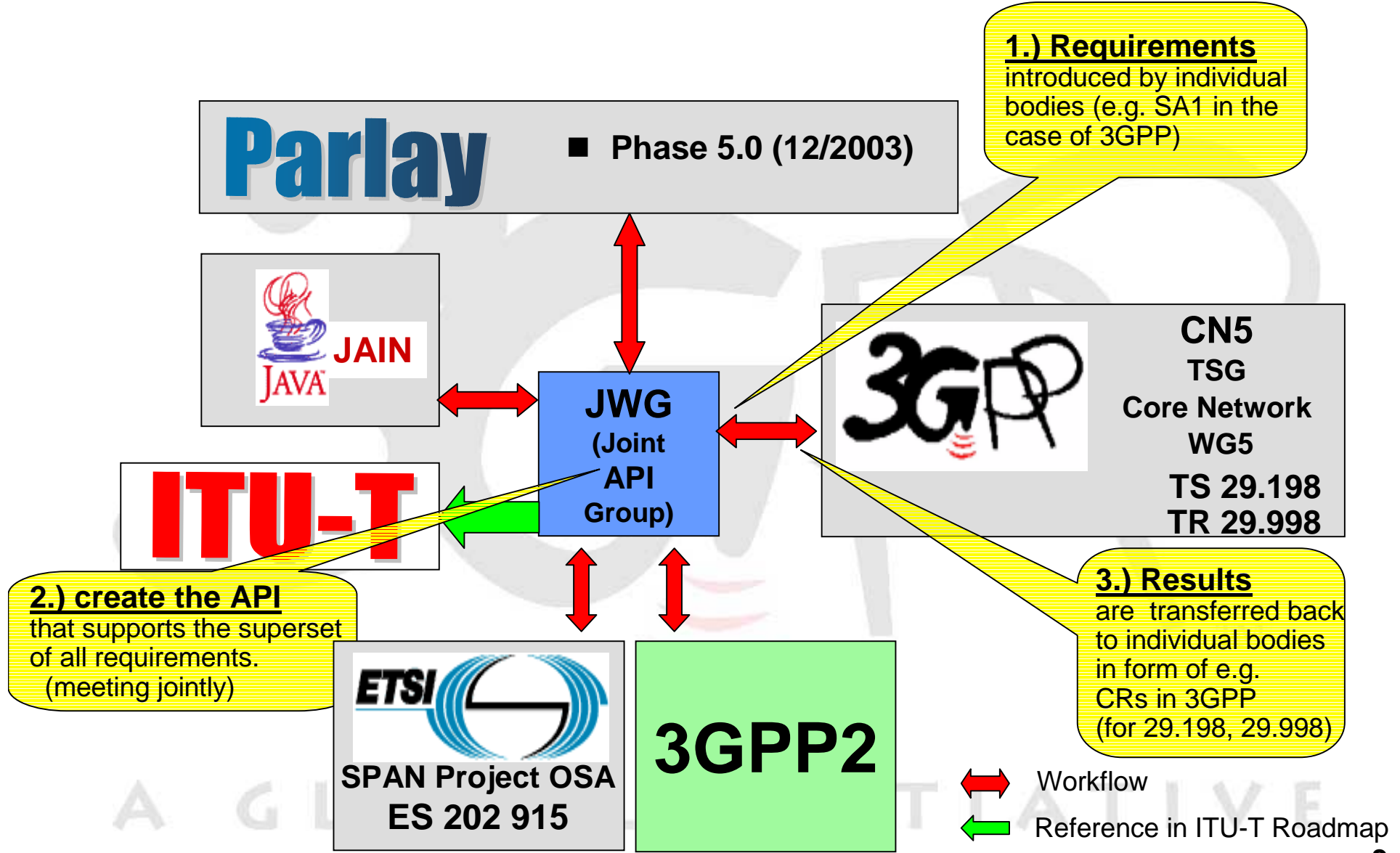
## Officers

- **Elected new CN5 Chair – at CN5#22, Jan 2003**  
**Chelo ABARCA (Alcatel) – since 01/2003; she replaces**  
**Ard-Jan MOERDIJK (Ericsson) – Chair for 1,5 years (07/2001 - 01/2003)**  
**Chelo ABARCA was CN5 Vice Chair for > 1 year (05/2000 - 09/2001)**



# Relation to Standardisation Bodies

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## Officers

- **3GPP TSG-CN5 Chairperson**  
Chelo ABARCA (Alcatel) – since 01/2003
- **3GPP TSG-CN5 Vice Chairman**  
Musa UNMEHOPA (Lucent) – since 10/2001
- **Parlay representative**  
Richard STRETCH (BT)
- **Methodology Expert** – since 05/2000  
Ultan MULLIGAN (ETSI PTCC)
- **MCC Support** – since 01/2001  
Adrian ZOICAS (MCC)

# Outline

- 
- **Achievements**
  - **CN#18 requested statistics**
  - **The CN5 CR plan**
  - **CN5 work status**
    - Rel6 status overview
    - Coordination with other groups
    - Meetings
  - **For plenary approval**
  - **Acknowledgements**

# Achievements (1/2)



## Rel4 and Rel5:

- Few CRs on very detailed level – respecting Backwards Compatibility

## Rel4:

- ETSI STF finalized compliance statements & test suite for OSA Rel4
- First OSA interoperability event will be organized by ETSI  
([http://www.etsi.org/plugtests/02UpcomingEvents/OSAParlay/OSAParlay\\_home.htm](http://www.etsi.org/plugtests/02UpcomingEvents/OSAParlay/OSAParlay_home.htm))

## Rel5:

- Full harmonization with 3GPP2 for OSA Rel5

## Rel6:

- Starting Rel6 the Java realization will become part of the CN5 specs (not a reference anymore as in Rel5)
- Gap analysis performed for Presence
- Work ongoing on stage 3 for OSA Rel6 requirements

## *Achievements (2/2)*

**OSA is being adopted in the marketplace!**

**By the end of 2002 there were:**

- a significant number of products ...
- ... operator trials
- ... and deployments

108

25+

12

(Source: Parlay meeting, Bangkok 27-30 Jan 2003; see [www.parlay.org](http://www.parlay.org))

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# CN#18 Requested Statistics (1/2)



## CN#18 Plenary requested:

- CN WG chairs to provide statistics on the number of delegates participating for IMS only, GSM or GPRS only, or both
  - This is not relevant for CN5
- CN5 to provide statistics on the number of overlapping CRs to the CN#19 meeting. Statistics should be provided on the number of CRs agreed before December, CRs agreed between December and March, and the number of conflicting CRs. An assessment will be made at that time on whether or not CN5 can continue to have CRs approved only every other CN plenary
  - The number of colliding CRs is ZERO

# CN#18 Requested Statistics (2/2)



## Statistics on CN5 agreed CRs

Overlapping CRs:	0	
Conflicting CRs:	0	
Rel-4/5 CRs (Sep 2002 - Dec 2002):	62 (21 cat A)	4 per TS average
Rel-4/5 CRs (Dec 2002 - Mar 2003):	17 (4 cat A)	3 per TS average
<i>(see the two attached Excel files)</i>		
Rel-6 CRs (Sep 2002 - Dec 2002):	5	1 per TS average
Rel-6 CRs (Dec 2002 - Mar 2003):	2	1 per TS average

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## ***1/3 CN5 CR-plan proposed at CN#18***



### **From NP-020533 (CN5 report to CN#18/ last plenary)**

“We believe the OSA specifications can be considered as mature so, in order not to confront the developers’ community with minor updated specifications every 3-months,

we have decided to bring our CRs to previous releases (e.g. Rel5) than the release we are currently working on (i.e. Rel6) only 2-times a year (each second TSG plenary, e.g. 03/2003 and 09/2003).

This procedure is aligned with Parlay and ETSI as well.”

## 2/3 **CN#18 feedback on CN5 CR-plan**



- 3GPP Organizational Partners take the outcome of the 3GPP December Plenaries as snapshots for their releases
- Dependencies (CRs on top of other CRs) and synchronization (CRs in the same area)
- A certain level of flexibility is necessary (for example if suddenly a lot of essential corrections are necessary)
- CN5 was requested to bring to CN#19 statistics on number of CRs, number of related CRs and an assessment

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## **3/3 CN5 revised CR-plan**



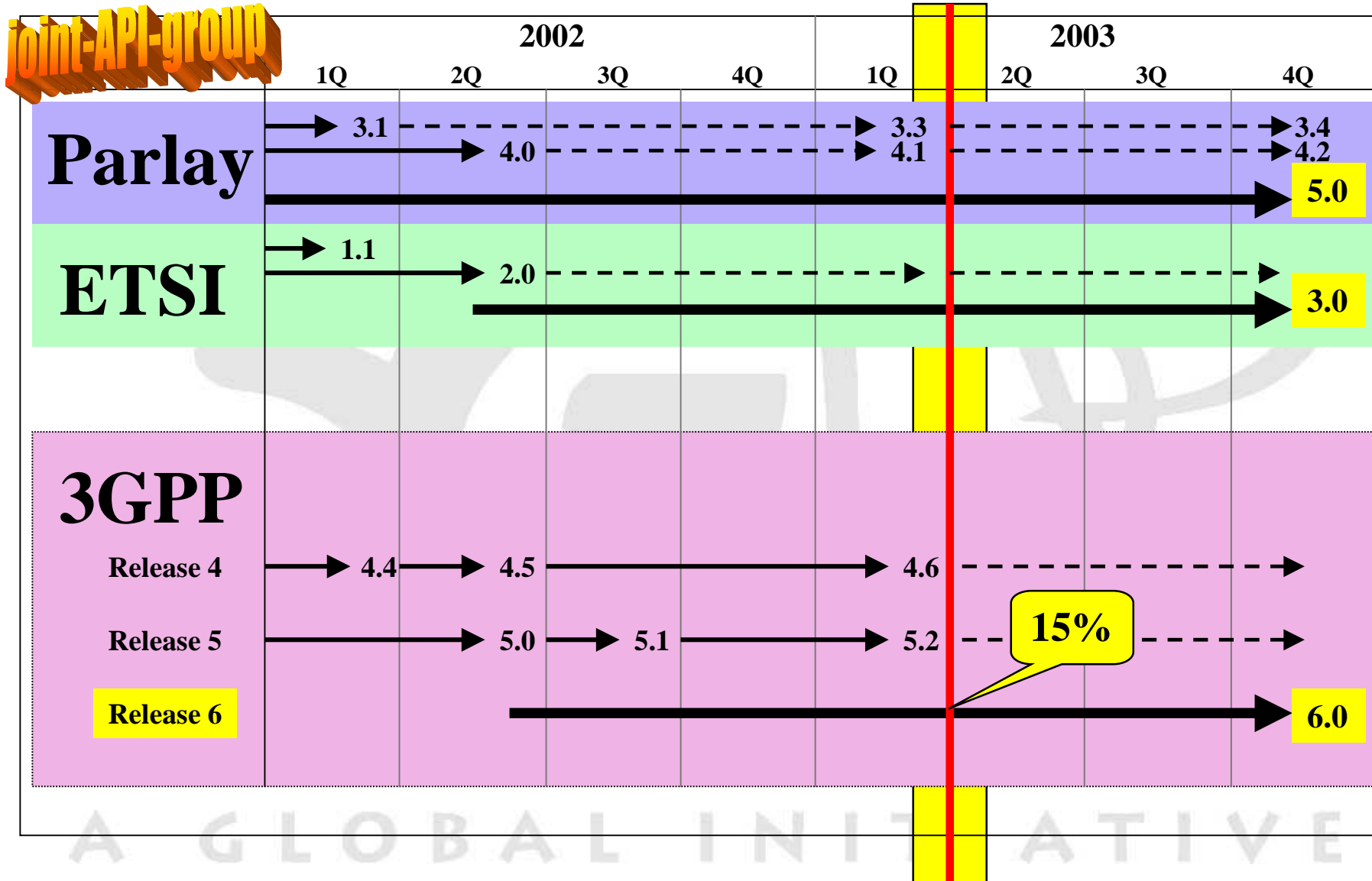
**As a result of the feedback from CN#18, CN5 has revised the proposed CR plan as follows:**

- **CN5 will present to CN plenaries in 2003 the following :**
  - Mar 2003: Rel4 & Rel5 CRs
  - Jun 2003: Rel4/5 and 1<sup>st</sup> Rel6 CRs
  - Sep 2003: no CRs (but new TSs for Information)
  - Dec 2003: Rel4/5/6 CRs (new TSs for Approval)
- **CN5 will present CR statistics at every CN plenary**
- **A certain level of flexibility will always be allowed**

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# OSA Cross-releases Work Plan





# OSA Rel6 Status Overview



Working on Rel6 according to SA1 OSA Requirements:

- **Generic network interface function**
- **Management / User data security management**
- **Retrieval of Visited Network capabilities**
- **Access to IP Session information**
- **Multi Media Messaging function**
- **Enhanced user privacy in LCS**
- **Policy management extensions**
- **Presence and Availability Management (from the PRESNC WI)**
- **Information Services**
- **Information Transfer**
- **New** OSA interfaces at different levels of abstractions (Parlay X, Web services)
- **New** Introduction of migration support mechanism
- **New** User Profile
- **New** Network functions for end-user/application interaction support
- **New** Framework Function for Federation

## Legend

zz ongoing

yy pending input from other WGs

xx no contributions received

**CN is invited to approve under Agenda item 9.7**

**NP-030036 Updated Rel-6 WID for OSA Stage 3**

## ***Gap Analysis on Presence***

- 1. OSA provides PAM capabilities for Rel5 (29.198-14)**
- 2. SA1 has produced Presence requirements for Rel6 (22.141 V6.1.0)**
- 3. CN5 has performed a gap analysis between both**
- 4. Contributions expected at next meetings to fill these gaps**
- 5. Some may already be fulfilled by OSA Framework functionality**
- 6. Mapping to SIP of OSA PAM specs is pending. CN5 is monitoring CN1 Presence stage 1 work on which this depends**

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## ***Co-ordination with 3GPP2***



- **3GPP2 have approved 3GPP2 OSA Rel5**
- **3GPP2 OSA Rel5 = 3GPP OSA Rel5 + Delta document**
- **Delta document**
  - explains how to use the OSA specifications in 3GPP2 TSG-N
  - States that the delta is ZERO (nothing needs to be changed)
- **Discussions on 3GPP2 OSA Rel6 have started**
  - New requirements, if any, are expected latest end of March 2003
  - 3GPP2 delegates are now an integral part of the OSA Joint WG

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## ***CN Discussion on Access-Independence***



### **Background:**

- SA2 met the need to make some specs access-independent
- SA2 identified a list of IMS specs that need addressing for this
- CN1 has confirmed SA2's list of CN1 specs

### **CN5 involvement:**

- No direct impact on CN5 specifications was identified
- Some impact may eventually result from 23.218
- A champion has been appointed in CN5 (Jane Humphrey, Marconi) to monitor the status of this activity in CN1

## *SA1 Rel6 OSA Requirements Clarifications*

- CN5#20 (Miami, 09/2002) has reviewed the first draft of SA1 Rel6 OSA requirements
- Some issues were unclear to CN5
- Since then CN5 and SA1 have exchanged LSs to ensure a common understanding of the requirements
- Most issues are solved now, some pending responses from SA2

## *MMS Co-ordination*

- CN5 has been involved in MMS co-ordination discussions with T2 and SA5 since CN5#15 (Cancun, 11/2001)
- Now T2 is suggesting considering related work in OMA (LS from T2 from 11/2002 in N5-030014/T2-020949)
- T2 understands that this needs SA1 and SA decision
- CN5 awaits this decision

# **joint-API-group** outgoing Liaison Statements

- 1 outgoing LS since CN#18 (see **NP-030016**)

N5-030072	LS to SA1, CN (cc: SA) on Status of OSA Rel-6 Requirements



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# joint-API-group Meetings



- **CN5 #22**
  - 27-31 January 2003 in Bangkok, THAILAND, hosted by Parlay
  - Attended by 14 delegates
  - Report in **NP-030017 (N5-030007)**

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## *Future meetings*

Meeting	Date	Location	Host
<b>CN5#23</b>	<b>19-23 May 2003 (CNx co-located)</b>	<b>San Diego, USA</b>	<b>NAF/Parlay</b>
TSG#20	10-19 Jun 2003	Hämeenlinna, FINLAND	NOKIA
<b>CN5#24</b>	<b>14-18 July 2003</b>	<b>San Francisco, USA</b>	<b>3GPP2</b>
<b>CN5#25</b>	<b>25-29 August 2003 (CNx co-located;</b>	<b>Sophia Antipolis unconfirmed)</b>	<b>ETSI</b>
TSG#21	16-25 Sep 2003	Berlin, GERMANY	
<b>CN5#26</b>			
TSG#22	9-18 Dec 2003	Hawaii, USA	NA Friends

## *Next CN5 meeting*

- Next CN5 meeting is co-located with all CN WGs and with the Parlay Group
- This is an opportunity for all (WG and TSG-CN delegates) to see Parlay demos and attend tutorials and other sessions open to everybody
- For more information go to [www.parlay.org](http://www.parlay.org) or contact CN5 officials

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## *Contributions to this meeting*

<b>TDoc #</b>	<b>Agenda</b>	<b>Tdoc Title</b>
NP-030015	6.5.1	Chair's report from CN5 (slide presentation)
NP-030016	6.5.1	LSs outgoing from CN5 between CN#18 and CN#19
NP-030017	6.5.1	Draft Report of CN5#22, Bangkok, THAILAND, 24-28 February 2003 (N5-030007)
NP-030018	7.10	Rel-4 CRs 29.198-02 OSA API Part 2: Common data
NP-030019	7.10	Rel-4 CRs 29.198-03 OSA API Part 3: Framework
NP-030020	7.10	Rel-4 CRs 29.198-04 OSA API Part 4: Call control
NP-030021	7.10	Rel-4 CRs 29.198-05 OSA API Part 5: Generic user interaction
NP-030022	7.10	Rel-4 CRs 29.198-06 OSA API Part 6: Mobility
NP-030023	7.10	Rel-4 CRs 29.198-07 OSA API Part 7: Terminal Capabilities
NP-030024	7.10	Rel-4 CRs 29.198-08 OSA API Part 8: Data session control
NP-030025	7.10	Rel-4 CRs 29.198-11 OSA API Part 11: Account management
NP-030026	7.10	Rel-4 CRs 29.198-12 OSA API Part 12: Charging
NP-030027	8.2	Rel-5 CRs 29.198-02 OSA API Part 2: Common data
NP-030028	8.2	Rel-5 CRs 29.198-03 OSA API Part 3: Framework
NP-030029	8.2	Rel-5 CRs 29.198-04-1 OSA API Part 4: Call control; Sub-part 1: Call Control Common Definitions
NP-030030	8.2	Rel-5 CRs 29.198-04-2 OSA API Part 4: Call control; Sub-part 2: Generic Call Control SCF
NP-030031	8.2	Rel-5 CRs 29.198-04-3 OSA API Part 4: Call control; Sub-part 3: Multi-Party Call Control SCF
NP-030032	8.2	Rel-5 CRs 29.198-04-4 OSA API Part 4: Call control; Sub-part 4: Multi-Media Call Control SCF
NP-030033	8.2	Rel-5 CRs 29.198-05 OSA API Part 5: Generic user interaction
NP-030034	8.2	Rel-5 CRs 29.198-08 OSA API Part 8: Data session control
NP-030035	8.2	Rel-5 CRs 29.198-11 OSA API Part 11: Account management
NP-030036	9.7	Rel-6 [draft] Revised WID OSA Stage 3

## 3GPP OSA Stage 3 Rel-4 Issues

- For the aligned 3GPP Rel-4 / Parlay 3.x / ETSI OSA 1.y a few error corrections without which functionality cannot be used have been agreed by the

**joint-API-group**

- CRs 29.198-02      **NP-030018**
- CRs 29.198-03      **NP-030019**
- CRs 29.198-04      **NP-030020**
- CRs 29.198-05      **NP-030021**
- CRs 29.198-06      **NP-030022**
- CRs 29.198-07      **NP-030023**
- CRs 29.198-08      **NP-030024**
- CRs 29.198-11      **NP-030025**
- CRs 29.198-12      **NP-030026**

**CN approval is requested under Agenda item 7.10**

## 3GPP OSA Stage 3 Rel-5 Issues

- For the aligned 3GPP Rel-5 / Parlay 4.x / ETSI OSA 2.y a number of corrections without which functionality cannot be used have been agreed by the

**Joint-API-group**

- CRs 29.198-02      **NP-030027**
- CRs 29.198-03      **NP-030028**
- CRs 29.198-04-1    **NP-030029**
- CRs 29.198-04-2    **NP-030030**
- CRs 29.198-04-3    **NP-030031**
- CRs 29.198-04-4    **NP-030032**
- CRs 29.198-05      **NP-030033**
- CRs 29.198-08      **NP-030034**
- CRs 29.198-11      **NP-030035**

**CN approval is requested under Agenda item 8.2**



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## Acknowledgements

- The JWG thanked Ard-Jan MOERDIJK (Ericsson), CN5 Chairman (07/2001 - 01/2003) for his work and wished the best for his future



Doc	Title	Source	Allocations	Type	Cat	tus/Comm
N5-021096	CR 29.198-02 Rel-4 Correction to defintion of sessionID	AePONA	OSA1 3GPP Rel-4	CR	F	23
N5-021129	CR 29.198-02 Rel-4 Clarification on uniqueness of assignmentID	AePONA	OSA1 3GPP Rel-4	CR	F	24
N5-021130	CR 29.198-02 Rel-5 Clarification on uniqueness of assignmentID	AePONA	OSA2 3GPP Rel-5	CR	A	25
N5-021119	CR 29.198-02 Rel-4 Correction to P_INVALID_STATE value in IDL	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	26
N5-021120	CR 29.198-02 Rel-5 Correction to P_INVALID_STATE value in IDL	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	27
N5-020894	CR 29.198-03 Rel-4 Addition of Status of Methods to interfaces in clause 6.3	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	72
N5-020895	CR 29.198-03 Rel-4 Addition of Status of Methods to interfaces in clause 7.3	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	60
N5-020896	CR 29.198-03 Rel-4 Addition of Status of Methods to interfaces in clause 8.3	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	61
N5-021070	CR 29.198-03 Rel-4 Correction to Initial Access Sequence Diagram	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	62
N5-021071	CR 29.198-03 Rel-5 Correction to Initial Access Sequence Diagram	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	63
N5-021131	CR 29.198-03 Rel-4 Load Mgt	AePONA	OSA1 3GPP Rel-4	CR	F	64
N5-021132	CR 29.198-03 Rel-5 Load Mgt	AePONA	OSA2 3GPP Rel-5	CR	A	65
N5-021086	CR 29.198-03 Rel-4 Load Sequence	AePONA	OSA1 3GPP Rel-4	CR	F	66
N5-021087	CR 29.198-03 Rel-5 Load Sequence	AePONA	OSA2 3GPP Rel-5	CR	A	67
N5-020882	CR 29.198-03 Rel-5 Correction to Application's requirements for supporting methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	F	68
N5-020897	CR 29.198-03 Rel-5 Correction of Status of Methods to interfaces in clause 7.3	ETSI STF 211	OSA2 3GPP Rel-5	CR	F	69
N5-020898	CR 29.198-03 Rel-5 Correction of Status of Methods to interfaces in clause 8.3	ETSI STF 211	OSA2 3GPP Rel-5	CR	F	70
N5-021143	CR 29.198-03 Rel-5 Status of Methods 6.3	ETSI STF 211	OSA2 3GPP Rel-5	CR	F	71
N5-020888	CR 29.198-04 Rel-4 Correction of Status of Methods to interfaces in clause 6.3	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	58
N5-020873	CR 29.198-04-2 Rel-5 Status of Methods GCC	ETSI STF 211	OSA2 3GPP Rel-5	CR	A	3
N5-021079	CR 29.198-04 Rel-4 Correction to remove unused TpCallChargeOrder	Ultan Mulligan (ETSI)	OSA1 3GPP Rel-4	CR	F	62
N5-021080	CR 29.198-04-1 Rel-5 Correction to remove unused TpCallChargeOrder	Ultan Mulligan (ETSI)	OSA2 3GPP Rel-5	CR	A	4
N5-021063	CR 29.198-04 Rel-4 Correction to Sequence Diagrams to remove incorrect Framework referenc	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	60
N5-021121	CR 29.198-04 Rel-4 Correction to TpCallEventCriteriaResult in Generic Call Control IDL	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	63
N5-021122	CR 29.198-04-2 Rel-5 Correction to TpCallEventCriteriaResult in Generic Call Control IDL	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	5
N5-021052	CR 29.198-04 Rel-4 Correction to TpReleaseCauseSet in Multi Party Call Control	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	59
N5-021053	CR 29.198-04-3 Rel-5 Correction to TpReleaseCauseSet in Multi Party Call Control IDL	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	9
N5-021064	CR 29.198-04 Rel-4 Correction to User Interaction Prepaid Sequence Diagrams	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	61
N5-021065	CR 29.198-04-2 Rel-5 Correction to Prepaid Sequence Diagram	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	4
N5-020891	CR 29.198-04-1 Rel-5 Correction to Application's requirements for supporting methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	F	3
N5-021149	CR 29.198-04-2 Rel-5 Correct the incorrect definition of the P_MAX_CALLLEGS_PER_CALL	Ericsson	OSA2 3GPP Rel-5	CR	F	6
N5-020874	CR 29.198-04-3 Rel-5 Status of Methods MPCC	ETSI STF 211	OSA2 3GPP Rel-5	CR	F	7
N5-021038	CR 29.198-04-3 Rel-5 Use of Second Callback in MPCC	Ericsson	OSA2 3GPP Rel-5	CR	F	8
N5-020892	CR 29.198-04-4 Rel-5 Status of Methods MMCC	ETSI STF 211	OSA2 3GPP Rel-5	CR	F	2
N5-021145	CR 29.198-05 Rel-4 Correction of Status of Methods	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	27
N5-021147	CR 29.198-05 Rel-5 Correction of Status of Methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	A	28
N5-021072	CR 29.198-05 Rel-4 Correction to getNotification to remove P_INVALID_CRITERIA exception	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	24
N5-021073	CR 29.198-05 Rel-5 Correction to getNotification to remove P_INVALID_CRITERIA exception	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	25
N5-021066	CR 29.198-05 Rel-4 Correction to User Interaction Prepaid Sequence Diagrams	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	22
N5-021067	CR 29.198-05 Rel-5 Correction to User Interaction Prepaid Sequence Diagrams	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	23
N5-021133	CR 29.198-05 Rel-4 Use of Second Callback in UI	Ericsson	OSA1 3GPP Rel-4	CR	F	26
N5-021037	CR 29.198-05 Rel-5 Use of Second Callback in UI	Ericsson	OSA2 3GPP Rel-5	CR	F	29

N5-021134	CR 29.198-06 Rel-4 Correction of Status of Methods	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	19
N5-021135	CR 29.198-06 Rel-5 Correction of Status of Methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	A	20
N5-021091	CR 29.198-07 Rel-4 Term Caps Class	AePONA	OSA1 3GPP Rel-4	CR	F	9
N5-021016	CR 29.198-07 Rel-4 Correction of Status of Methods	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	10
N5-021136	CR 29.198-07 Rel-5 Correction of Status of Methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	A	11
N5-021123	CR 29.198-07 Rel-4 Correction to TpTerminalCapabilities in Terminal Capabilities IDL file	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	12
N5-021124	CR 29.198-07 Rel-5 Correction to TpTerminalCapabilities in Terminal Capabilities IDL file	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	13
N5-021017	CR 29.198-08 Rel-4 Correction of Status of Methods	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	18
N5-021024	CR 29.198-08 Rel-5 Correction of Status of Methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	A	19
N5-021125	CR 29.198-08 Rel-4 Corrections to IDL in Data Session Control	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	20
N5-021126	CR 29.198-08 Rel-5 Corrections to IDL&WSDL in Data Session Control	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	21
N5-021116	CR 29.198-08 Rel-5 Moving datatype to Common Data	Musa	OSA2 3GPP Rel-5	CR	F	22
N5-021039	CR 29.198-08 Rel-5 Use of Second Callback in DSC	Ericsson	OSA2 3GPP Rel-5	CR	F	23
N5-021127	CR 29.198-11 Rel-4 Correction to TpChargingEventCriteria in Account Management IDL file	Ultan Mulligan, ETSI	OSA1 3GPP Rel-4	CR	F	15
N5-021128	CR 29.198-11 Rel-5 Correction to TpChargingEventCriteria in Account Management IDL file	Ultan Mulligan, ETSI	OSA2 3GPP Rel-5	CR	A	16
N5-021146	CR 29.198-11 Rel-4 Correction of Status of Methods	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	17
N5-021148	CR 29.198-11 Rel-5 Correction of Status of Methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	A	18
N5-021040	CR 29.198-11 Rel-5 Use of Second Callback in AM	Ericsson	OSA2 3GPP Rel-5	CR	F	19
N5-021137	CR 29.198-12 Rel-4 Correction of Status of Methods	ETSI STF 211	OSA1 3GPP Rel-4	CR	F	20
N5-021138	CR 29.198-12 Rel-5 Correction of Status of Methods	ETSI STF 211	OSA2 3GPP Rel-5	CR	A	21
<b>Doc</b>	<b>Title</b>	<b>Source</b>	<b>Allocations</b>	<b>Type</b>	<b>Cat</b>	<b>tus/Comm</b>

Doc	Title	Source	Allocations	Type	Cat	Status/Abstr
N5-030042	CR 29.198-02 Rel-4 Addition of Support of National Numbering Plans - former N5-	Marconi (Jane Humphrey)	Rel-4	CR	F	28
N5-030043	CR 29.198-02 Rel-5 Addition of Support of National Numbering Plans (mirror of Re	Marconi (Jane Humphrey)	Rel-5	CR	A	29
N5-030081	CR 29.198-02 Rel-5 Invalid referencing of authenticate	Telcordia (John-Luc Bakker)	Rel-5	CR	F	30
N5-030066	CR 29.198-02 Rel-5 Exception Hierarchy align with Java Realisation	AePONA (Eamonn Murray)	Rel-5	CR	F	31
N5-030055	CR 29.198-02 Rel-5 Promotion of TpDataSessionQosClass data type definition to	Lucent (Musa Unmehopa)	Rel-5	CR	F	32
N5-030075	CR 29.198-03 Rel-4 Add report current load	AePONA (Eamonn Murray)	Rel-4	CR	F	73
N5-030076	CR 29.198-03 Rel-5 Add report current load	AePONA (Eamonn Murray)	Rel-5	CR	A	74
N5-030046	CR 29.198-03 Rel-5 Add the appAvailStatusInd() and svcAvailStatusInd() methods	Incomit (Thomas Svensson, Ander	Rel-5	CR	F	75
N5-030082	CR 29.198-03 Rel-5 Missing state diagram for Service Agreement Management	Telcordia (John-Luc Bakker)	Rel-5	CR	F	76
N5-030083	CR 29.198-03 Rel-5 Missing definition of "Numbered List of Data Elements"	Telcordia (John-Luc Bakker)	Rel-5	CR	F	77
N5-030048	CR 29.198-04 Rel-4 Correction of status of methods to interfaces in clause 7.3	ETSI STF211 (Peter Schmitting)	Rel-4	CR	F	64
N5-030067	CR 29.198-04-4 Rel-5 Correction of TpMediaStreamDataTypeRequest	AePONA (Eamonn Murray)	Rel-5	CR	F	3
N5-030094	CR 29.198-04-4 Rel-5 Add missing TpMultiMediaCallIdentifierSet to data types	ETSI PTCC (Ultan Mulligan)	Rel-5	CR	F	4
N5-030051	CR 29.198-05 Rel-4 Corrections to User Interactions	ETSI PTCC (Ultan Mulligan)	Rel-4	CR	F	30
N5-030052	CR 29.198-05 Rel-5 Corrections to User Interactions	ETSI PTCC (Ultan Mulligan)	Rel-5	CR	A	31
N5-030077	CR 29.198-05 Rel-4 correct datatype TpUIEventInfo	AePONA (Eamonn Murray)	Rel-4	CR	F	32
N5-030078	CR 29.198-05 Rel-5 correct datatype TpUIEventInfo	AePONA (Eamonn Murray)	Rel-5	CR	A	33