3GPP TSG_CN WG 5/Parlay/ETSI SPAN12   **N5- 020007**
WG 5 Meeting #16, Hong Kong, China
4th –8th Feb 2002

Source: **ETSI SPAN12 OSA Project Leader, <u>Chelo.Abarca@alcatel.fr</u> , CN 5 Chairman <u>ard.jan.moerdijk@eln.ericsson.se</u>, CN 5 Vice Chairman, <u>unmehopa@lucent.com</u>.**

Title: **Report CN5#16**

Agenda item:

Document for: **APPROVAL**

Agenda item	Agenda item title	Tdoc 3GPP N5-00	Title	Source	Result	
1	Opening and approval agenda	0001	Proposed agenda	N5 chairman	Ard-Jan Moerdijk, JWG co-chair welcomes everyone to the meeting, and provides a short introduction of the JWG working procedures and specification release schedules for delegates new to the JWG meetings. Agenda approved.	Appro ved
2	Allocation of documents	0002	Document allocation	N5 chairman	Updated version of the document allocation (revision 1) is circulated, including the late documents received after Thursday COB.	Appro ved
3	Reporting					

3.1	CN5/SPAN12/Parlay	011105	Report CN5#15 Cancun	ETSI OSA project leader	The report of our last meeting, Cancun, which was distributed on the JWG e-mail reflector on the 5th of December. Editorial comments from Telcordia were received and incorporated (N5-011107). Some allocated documents are missing from the server (N5-011204, N5-011205), however MCC confirmed that these were allocated but not used. Karsten Luettge from Siemens, owner of the documents, will check. The report will be changed to reflect this. Sentence "Some editorials, updated to 1204" should be deleted from report (1198 part of the report). Add (also in 1025) "these docs were not provided to this meeting". Report approved with this comments.	Approved
3.2	CN#14 Kyoto				Report from the CN plenary meeting, which was attended by the CN5 chair by teleconference. All CN5 CR's were approved, and vice-chair election of Musa Unmehopa was endorsed. The CN5 priority list was acknowledged by CN plenary, and the update to the OSA WID has been approved. Questions were asked about IMS/ISC pure SIP mappings, more specifically which IETF RFC's were being considered for this work. CN plenary commented that CN5 might have underestimated the "small delta" between SIP mappings and ISC mappings. According to the CN plenary, IMS work (mainly in CN1) is allowed to be scheduled for the 3GPP Release 5 June timeframe. This CN1 dependency may impact CN5 work on ISC mappings. Still, the CN5 commitment to deliver OSA in the Release 5 March timeframe remains, even if this means presenting a version 1.0.0 to the March CN plenary.	Noted
3.3	Report of all OSA related activities					
				ETSI MPCC	E-mail approval was received for N5-011269 till N5-011274 inclusive, which were CR's resulting from Parlay 2.1.1 alignment.	Approved

		0101	API discussion at ETSI Tiphon meeting	BT (Richard Stretch)	Report of the ETSI Span 14 meeting on invitation by the ETSI Tiphon chairman. The meeting discussed a mapping of Parlay to the Tiphon Meta-protocols (setting up a basic voice call across networks, regardless of the their individual technology). The Tiphon group will produce an LS to SPAN 12, detailing their intentions in the near future (approx. 6 months) and the possibility of co-locating a joint meeting where our future joint work can be further detailed together. Clarification, regarding the architecture diagram: TIPHON is not looking to develop new APIs, but they consider adopting existing APIs that serve the Meta-protocol architecture requirements of TIPHON. SPAN 14 requirements were presented, and approved with minor modifications.	Noted
			Vocal report from S2 Presence Ad-Hoc in Phoenix.	Lucent Technologies	There was an OSA related meeting since Cancun, the 3GPP SA2 Presence Service Architecture Ad-Hoc, the 10th January 2002, in Phoenix, USA. The Technical Report 3G TR 23.284 (Presence Service; Architecture and Functional Description) has now been raised to version 0.3.0. The new OSA related inclusions to this TR are: Inclusion of the support of OSA via an OSA Service Capability Server (SCS) that has a standardized interface the to the Presence Server. Added are the reference point Pwm between OSA application Watcher and the Presence SCS and reference point Pem between OSA application Presentity and the Presence SCS.	Noted
3.3.1	ETSI Compliance and Testing STF					
		0074	Information on Preparatory Meeting for ETSI OSA Compliance STF	Chelo Abarca (Alcatel)	Latest status on Specialist Task Force for the development of Conformance Test Specifications to support the OSA API. It will be called SFT 211 STF will develop PICs and write test specifications for OSA. Noted.	

		0075	Some initial thoughts on OSA compliance	Chelo Abarca (Alcatel)	Provocative answers on the questions raised in 38. Discussion on what level of compliancy needed for SCFs: on interface or method level? What is meant by "support"? In principle one could be compliant and throwing "method not supported" exception on each method invocation or just accept the method and do nothing with it. Needs further discussion. What can one call "OSA gateway"? In principle a gateway is the collection of all SCFs + FW. This is a deployment term and the fact that the FW is needed for applications to work is something different than a PICs for an SCS. Maybe the fact that a FW is needed can be reflected in an application PICs. Will there be one big document or multiple ones e.g. per part. To be decided still, however most likely we will have one PICs per part. Will be discussed further by e-mail on the joint mailing list. Answers are desired before late March.	
		0038	Starting Work on the OSA PICS Document	Ultan Mulligan, ETSI PTCC	Overview of what PIC is and some of the initial questions on what an OSA PICs would need.	
		0039	Sample INAP CS-2 PICS Document	Ultan Mulligan, ETSI PTCC	Sample PICS Noted.	
		0040	PICS Style Guide	Ultan Mulligan, ETSI PTCC	Noted.	
3.4	Parlay Board and TAC meeting(s).					
			Vocal report on BoD and TAC conference calls	BT Exact (Richard Stretch)	no BOD or TAC meetings took place	Noted
3.5	Others					
			SA2 presence ad-hoc		January 10th. This related to Nokia contributions we'll see later (Tdoc 89). 23.284 has been updated to include support of OSA, for which two reference points are added.	
			SA1 OSA		CRs on charging: one was agreed, another sent for email approval.	

		0100	New forum "PayCircle&#61668:" founded	Siemens (Karsten Lüttge)	PayCircle is the successor of the Payment Group. Noted.	
4	Liaison Statements					
		0010	LS on Lawful Intercept (LI) Stage 1 requirements, Stage 2 descriptions	S3 LI via CN (NP-010698)	Presented by Musa Unmehopa (CN5 VC). They ask every TSG to check for impact of LI in their specs, so there is no misalignment. We're not working on LI requirements but LI requirements may have an impact on us. Therefore we agree to answer that we're not working on it, but that if there is an impact then the work needs to be driven by SA3. The answer will be Tdoc 110, Musa volunteers to draft it, Chelo will help.	
		0011	LS reply (cc: CN5) on OSA functions for retrieval of Network Capabilities	SA1 (S1-011327)	Presented by Musa Unmehopa (CN5 VC). Response to SA2's question about why having retrieval of network capabilities if control is always in the home network. SA1 responses that they will draft a CR on this, and that the intention of this requirement is that the way of service delivery may be adapted to the capabilities of the serving network. This response is not directed to us, but we sent them an LS in similar lines and we don't believe the answer addresses our question. We haven't had a response from them yet. But we know that SA1 OSA has agreed on a CR on these lines (to be sent for approval to the SA1 meeting in two weeks, and to SA in March). Noted.	

		0012	LS (cc: CN5) on Confirmation of OSA Support for VASP MMS Connectivity	SA2 (S2-013589)	Presented by Musa Unmehopa (CN5 VC). LS from SA2 to T2, replying to their LS that we also received. SA2 assumes that the OSA SA1 requirements for MMS will be for after Rel5 and, considering the reqs identified by T2, some may be applicable to OSA. They agree that the architecture option that includes OSA is a valid one. SA2 requires T2 to confirm that the sending of the messages themselves is also intended to take place across the API (so far it's only used for control); we need to keep an eye on this. Noted.	
		0013	LS (to: CN5) on Support of security algorithms in OSA framework	SA3 (S3-010696)	Presented by Musa Unmehopa (CN5 VC). Reply to our LS in Cancun attaching our CR for modifying the encryption capability data type for the framework. SA3 recommends that they will continue with this work in co-operation with experts from us. Their next meeting is 26/2-1/3, Musa and Chelo may attend. No action is identified but we'll reply telling them we intend to attend their Bristol meeting. Response TDoc 113, Chelo and Musa volunteer to draft it.	
		0014	LS reply (cc: CN5) to LS T2-010905 on VASP MMS connectivity	SA3 (S3-010698)	Presented by Musa Unmehopa (CN5 VC). From SA3 to T2, copied to us, on MMS. SA3 states that it is recommended that if OSA can provide the necessary security functionality, then this is the preferred choice; if this is not feasible then SA3 will do the security work. No explicit actions are required for us. Noted.	

		0015	LS reply (cc: CN5) to LS T2-010905 on VASP MMS connectivity	SA5 (S5-010750)	Presented by Musa Unmehopa (CN5 VC). From SA5 to T2 on MMS, copied to us. Interesting for us is that SA5 points out they're discussing with CN5 in the area of subscription management. No explicit actions are required for us. Richard Stretch clarifies that the management architecture including OSA is being discussed in an SA5 mailing list based on our Cancun discussion. Q: but this was intended for post Rel5 (as agreed in Cancun). A: this is the start of this activity, work has not started yet. This information will be sent to the mailing list to find out who is interested. Noted.	
		0016	LS (cc: CN5) on Impacts of Subscriber and Equipment Trace	SA5 (S5-020013)	Presented by Musa Unmehopa (CN5 VC). From SA5 to every 3GPP group, requiring them to identify all their WI where there is an impact on this. Adrian Zoicas explains the context: this is a new WI from the Kyoto plenary, feature level (top level of the 3GPP work programme); SA5 is broadcasting it to all groups. By definition there is no impact on us because we don't write OSA requirements – any impact on OSA should be identified by SA1. Noted.	
		0017	LS reply (cc: CN5) on Comments to UP-010141 and relationship of GUP to Subscription Management	SA5 (S5-020016)	Presented by Musa Unmehopa (CN5 VC). From SA5 to all GUP related groups, we're Cced. SA5 has reviewed some GUP documents thinking of Subscription Management, and they ask some questions to ensure their interpretation is right. We're not in the list of groups from which a response is requested, and none of the items seems to be related to OSA. Noted.	

		0018	LS (to: CN5) on Status of the Generic User Profile Work	3GPP Joint ad-hoc on Generic User Profile (GUP) (UP-010128)	Presented by Musa Unmehopa (CN5 VC). From GUP ad-hoc providing a status update, announcing that they will dissolve themselves and hand over the work to SA1 and T2. We're asked to review their document. Chelo and Nfinda volunteer to review it, and have comments by email after the meeting. Noted.	
		0019	LS reply (cc: CN5) on Release of In-Process Stage 1 Specification to SA1 for Review and Continuing Development	GUP (UP-010129)	Presented by Musa Unmehopa (CN5 VC). Chelo and Linda to have a look as well. Noted.	
		121	Liaison Statement on VASP MMS Connectivity	T2	From T2 to SA5, with copy to us, SA2 and SA1, containing comments from T2 on the reply from SA5. Ard-Jan will draft a response to be discussed by email.	
5	OSA version 1.1 / Rel. 4					5
		0020	CR 29.198-3 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	Documents N5-020020/N5-020029 are all pertaining to a similar change to be made across all parts of the specification set. The 2 methods setCallback() and setCallbackWithSessionID() are both used to pass an interface reference, yet there is no possible exception to indicate if an incorrect interface reference has been passed. The documents add the exception P_INVALID_INTERFACE_TYPE to the exception list of setCallback() and setCallbackWithSessionID()	
		0021	CR 29.198-4 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	

		0022	CR 29.198-5 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	
		0023	CR 29.198-6 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	
		0024	CR 29.198-7 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	
		0025	CR 29.198-8 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	
		0026	CR 29.198-11 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	
		0027	CR 29.198-12 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	

		0028	Generic Messaging: Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	
		0029	Connectivity Manager: Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	Ultan Mulligan, ETSI PTCC	See N5-020020	
		0030	CR 29.198-4: Event Subscription/Notification Data Type Corrections	Ultan Mulligan, ETSI PTCC	Approved.	
		0031	CR 29.198-4: Incorrect parameter name in IpCallLeg.routeReq() and in IpCallLeg.setAdviceOfCharge()	Ultan Mulligan, ETSI PTCC	Some discussion whether developers would not just compile the IDL, however the change is considered essential. Approved.	
		0032	Generic Messaging: Correction to IpMailboxFolder.putMessage()	Ultan Mulligan, ETSI PTCC	Approved.	
		0033	CR 29.198-11: Correct parameter name in IpAccountManager.createNotification()	Ultan Mulligan, ETSI PTCC	Approved.	
		0034	CR 29.198-12: Correct parameter name in IpAppChargingSession.extendLifeTimeRes()	Ultan Mulligan, ETSI PTCC	Approved.	
		0037	Error in Multi Media Call Control	Ultan Mulligan, ETSI PTCC	Approved.	
		0046	CR 29.198-03: Replace erroneous mention of P_OSA_ACCESS by the correct value P_OSA_AUTHENTICATION	Chelo Abarca, Alcatel	Clarification that this change will not lead to backwards compatibility issues. Approved.	
		0054	Removal of occurence of multiple inheritance from the spec	Sun Microsystems	Approved.	

		0055	AssignmentID in Mobility	Sun Microsystems	Some discussion takes place pertaining to a similar change made to Account Management at the September Munich meeting (N5-010801). Although both types boil down to TpInt32, the semantics for both differ in the scope for uniqueness of the identifier. For the moment, the discussion is deferred to a later moment so a small drafting session (Gary, AJ, Karsten) can take place. Updated to 146	
		146		Sun Microsystems	Update of 0055, only the "clauses affected" part is modified. See discussion in 149.	
		0072	CR on Event handling rules clarification	Ericsson	Question why P_INVALID_ARGUMENT is not used instead of P_INVALID_EVENT_CRITERIA? P_INVALID_ARGUMENT is a technology dependent exception, whereas P_INVALID_EVENT_CRITERIA conveys more useful information. The issue of language realization is raised. Should all specific exceptions be replaced by generic exceptions? Or should a hierarchy be introduced? This will aid the issue of backwards compatibility. Method signatures will not change due to such a hierarchy. Drafting session on the topic will be held, lead by Gary. Results will be fed back to the JWG. Issue will potentially be delayed to a later meeting (for Parlay 4), as there do not seem to be backwards compatibility concerns. Meeting prefers to have the specific exception, rather than a generic one, with regards to this contribution. Approved.	

| | | 149 | | Sun | Consequence of 0055, with an update of the text on TpAssignmentID to make it more precise – its scope is currently undefined, which could lead to the applications assuming that the scope of TpAssignmentID is globally unique when in fact the SCS assumes the scope is unique only to the object creating the ID.

The application may store several returned IDs in an array without checking if the received ID values are repeated. When the responses come in, the application may incorrectly correlate the responses with the initial requests.

Reminder of the email discussion: the problem is that the parameter name is correct, but the data type is wrong. There is the concern that this data type change would lead backwards compatibility in Mobility, which is an API which has been stable for a long time. So the question is: is it a naming issue (sessionID <-> assignmentID), something we can live with? A backwards compatible solution would be to add in the text that the data type is wrong but it is not a problem because they're both the same type. This was not completely satisfactory in the email discussion, because even though both data types were identical, there was a difference in their use because of the scope of their uniqueness – but this is solved by this contribution.

Modification in Mobility in 146: three possibilities:
?? Modify the data type
?? Leave it as it is, and add explanatory text
?? Do nothing
The choice of the meeting is the third – do nothing for Parlay 3.1, and for Parlay 4 add the explanatory text if there is a contribution.

Conclusion: the changes in contribution 149 are approved. | |
| | | 0073 | CR on Missing inheritance in service agreement management interfaces | Ericsson | Approved. | |

		0082	Correction of result parameter of getNotification, set in stead of single result	Lucent Technologies (Musa Unmehopa)	Approved.	
		0095	CR 29.198-3: Include Operation Set as part of General Service Properties	Ultan Mulligan, ETSI PTCC	Discussion whether this is an editorial only change. Suggestion is raised to remove the list, to prevent such oversights in the future. Meeting regards this as editorial, and hence will be implemented for Release 5. Agreed as editorial, no CR required.	

| | | 151 | Frame Work version in run-time | Incomit | For the SCSs, in order to handle different versions, we have service name and version and we can use service properties to distinguish them. But we don't have anything like this for the Framework. The contribution proposes to add to IpInitial a new method, initiateAuthenticationV3plus (clientDomain : in TpAuthDomain, authType : in TpAuthType, frameworkVersion : in TpFrameworkVersion) : TpAuthDomain, which would only be used by client applications using Parlay version 3.0 or later. The idea is that the application calls IpInitial indicating the Framework version it supports, depending on which the Framework would direct it to Framework interfaces of the same version, in case more than one are deployed in that network.

The proposed solution is backwards compatible.

Comment: the proposed added exception, P_INVALID_FRAMEWORK_VERSION, is not necessary and will be deleted.

Comment: initiateAuthentication would become redundant in the future.

Comment: TpFrameworkVersion needs to be defined as string constants, because it is the first thing that is called.

Comment: it is believed that is CORBA two or more versions of IpInitial can be running, and the client would know about one of them and this one would be able to find the right one for the application. Discussion: we're not talking about one interface here, but about selecting the right version for the whole set of Framework interfaces; therefore selecting the right IpInitial is not enough, because other framework interfaces may have changed even if IpInitial has not.

Conclusion: this is not necessary for Parlay 3.1 because it is not backwards compatible with 3.0. But something like this will be necessary for 4.0 (where we will be able to add new methods). An update will be prepared, number 154. | |

		154		Incomit	Update of 151. Not available in the meeting.	
		0047	Test Subject parameters in IpFaultManager, Option A	Lucent technologies (Musa Unmehopa)	Together with 48, a proposal to a fault already discussed in Sophia. This proposal would lead to non backwards compatibility issues, whereas 48 would have less impact. Correction is intended for Parlay 3.1 / 3GPP Rel. 4. Further discussion needed on whether this change is still necessary.	
		0048	Test Subject parameters in IpFaultManager, Option B	Lucent technologies (Musa Unmehopa)		
		0049	Improved description of activityTestReq with respect to ServiceInstanceID	Lucent technologies (Musa Unmehopa)	Intended for Parlay 3.1 / 3GPP Rel. 4. Last sentence of new addition will be rephrased to: "However, as there is only one service instance of the specified service per client application, it is the obligation of the framework to determine the service instance ID from the service ID." Approved with modification. Updated to 137	
		137		Lucent technologies (Musa Unmehopa)	Approved.	
		0050	Generating statistics records on behalf of another entity using genFaultStatsRecordReq	Lucent technologies (Musa Unmehopa)	Intended for Parlay 3.1 / 3GPP Rel. 4. Approved. Needs to be put in CR format, 140.	
		140		Lucent technologies (Musa Unmehopa)	Approved.	
					See also contributions 159 and 160 later in this report, because they also have an impact on Parlay 3.1 / Rel4.	
6	OSA version 2 / Rel. 5					
6.1	Requirements					

		0102	Parlay API –Phase 4 Requirements v 1.1	BT (Richard Stretch)	Editorial and spelling modifications were made. These are all agreed. Richard points out that additional requirements may still come in from Parlay members to Parlay 4.0. Some editor notes are still incorporated in the document. Some referred N5 document numbers are incorrect, and should be verified. The requirements document is considered stable with respect to the high priority requirements, more work is still required concerning the low priority requirements. Editor notes: 3.1.1 – delete 3.3.1 – delete (presentation/restriction of information) 3.3.1 – delete (relinquish control) 4.4 – delete 4.7 – pending based on dialogue with Eurescom (action item for Richard Stretch) Editor notes in the appendix do not concern the JWG. Appendix will be split in two parts. A historic part appendix and an appendix containing the tax collection requirements. Suggestion by MCC: JWG could consider this to become a WG TR, under JWG control without normative status. Advantage is a 3GPP style sheet, with good control, and ETSI Secretariat support. Suggestion not adopted, as this document will already become an ETSI SPAN 14 TR.	
6.1.1	Input from SA1: OSA and VHE requirements					
6.1.2	ETSI SPAR					
6.1.2.1	Issue resulting from mapping to SPAR Version 1 requirements					
6.2	Call Control					
6.2.1	3GPP IMS related Call Control					

| | | 0060 | Network Controlled Notifications | Koen Schilders (Ericsson) | Proposal for functionality that allows the application to notify the network it is able to receive notifications. These notifications will then apply to all subscribers for which the application is activated.

This (SA2) requirement should be captured in the Parlay 4.0 requirements document. LS to SA1, SA2 is required to indicate to SA1 that the SA2 document contains a requirement not captured in the stage 1 specification (N5-020120, Chelo/Adrian).

The new methods are not to impact the notifications created in the "old" way. It should be specified how criteria overlap checking needs to be applied to the both sets.

Clarification provided that both mechanisms can be supported concurrently.

These methods pertain to all enabled triggers in the network set by the network operator for that particular application. This is a provisioning issue.

Method reportNotification includes an assignmentID, but there are no assignmentIDs created for these new notifications. It should be specified what the assignmentID should be set to.

A service property may be added to indicate which notification methodologies are supported by the SCF.

The application is disabled after initialisation, as no callback may have been set yet. This proposal is targeted at HE-VASPs, i.e. the application is owned by the network operator that owns the subscribers. When the NO adds a new subscriber, the NO-owned application does not need to explicitly create notifications for this new subscriber. This functionality is intended to be similar to the way IN service provisioning is handled. An off-line agreement needs to be in place.

Using the SLA it be ensured that this functionality is only available to HE-VASPs, i.e. a "normal" VASP application can be prevented from receiving notifications from subscribers it doesn't own. | |
|---|---|---|---|---|---|---|

		0084	MPCC: SIP Mapping Tables	Ericsson (Jorgen Dyst)	Good status update for the SIP mappings. Lucent volunteers to take over editorship, since Jorgen has left Ericsson. CN plenary in Kyoto pointed out that CN5 may be underestimating the size of the delta between SIP mappings and ISC mappings. From the 3GPP point of view an ISC mapping is required. As the current mapping draft is based on ISC, and considering the time is limited, the meeting agrees to revert the decision in Cancun to map to SIP first. As CN1 has received an extension for the ISC specification, the JWG may ask for a similar extension for the ISC mappings. Nokia proposes to finalize MMCCS and CCCS in the June timeframe, rather than the March timeframe for Release 5. This concern is not valid, as the specification set of CN5 will be called Release 5 in March anyway. The discussion was deferred to Friday and off-line discussion, however never resumed again.	

		104	Forking support in Call Control	Ericsson (Jorgen Dyst)	At the moment there is no good support in the call control SCF when the network applies forking. Two possible solutions are presented. A) Not allow forking and B) making the SIP forking visible toward the application. Option B) is proposed and required API support is identified, i.e. add method partyJoinReq(), reused from CCCS. A forkingAllowed property is proposed, as well as a forkingAllowed Boolean data type for routeReq(). A question is raised whether this is indeed intended as an asynchronous method. Clarification was provided that really it should be changed to a synchronous method. It should be verified whether forking is allowed in 3GPP. As this is a late contribution, decision is deferred to Friday to provide delegates an opportunity to review. Revised in N5-020136.	
		136			Update of 104. Apart from the update, it was decided to check if forking is supported in 3GPP. It was checked and the answer is no for Rel5, maybe for Rel6. Nevertheless our scope is broader than 3GPP. Comment: this solution is not backwards compatible. Conclusion: this is postponed for discussion in later meetings.	
6.2.2	Other Call Control issues					

| | | 0041 | ETS-enabling of Call Control API | John-Luc Bakker, Telcordia (Parlay ETS WG) | What does HPC number mean? In US network(s) an end-user can dial special number and this leads to setting of a value in the signalling where it can be identified what the priority is.

Question on how the actual values of the priorities in the API relate to values in the network. It is answered that this depends on mapping to various networks.

Question on what the status is of the alignment of the ETS requirements in 3GPP. At this moment the ETS requirement is not part of 3GPP Rel. 5 OSA requirements. As there is also a Priority Service study group in 3GPP it would be good to get their results or get involved in that study group.

How to indicate in the 3GPP Rel. 5 spec that this feature is not applicable. Setting the property to indicate that this feature is not supported might be an option, but even then the developer is faced with new tags that could be confusing. However, this could be "fixed" with a clear description in the section indicating what restrictions apply for 3GPP.

Suggestion to create new API (basically a copy of the current Call Control) and introduce the new tags only in the new API. This would allow introducing this feature also in the other Services.

This contribution is approved. Further discussion on how this feature can be introduced in other SCFs with considering the result of the backward compatibility discussion will take place.

A contribution outlining how the 3GPP restrictions paragraph would look like will follow. Can be approved over e-mail week after the meeting. New contribution will be 142. A period of two weeks will be assigned for email approval. | |
| | | 0042 | Time based charging | Chelo Abarca, Alcatel | Withdrawn. | |

		0043	Charge info methods	Chelo Abarca, Alcatel	It is unclear why the monitor mode is returned. Parameter needs to be checked, as this is intended to be in line with ISUP Charging. The tariff info is returned in the form of free format data in the TpString data type for eventTariffSpecificInfo. It is unclear how this is supposed to work. It was pointed out that this contribution was written for GCCS, but should be updated to apply to MPCCS. Question received whether this should also apply to the IpCallLeg interface. INAP mappings are requested to be supplied for guidance. Contribution needs rework, rejected.	
		0044	AddOnCharge() methods for usage charging	Chelo Abarca, Alcatel	Withdrawn.	
		0053	Interdependence between UI and Call Control	AePONA, Eamonn Murray	Status update of the activities in clarifying the issue of interdependence between UI and CC. Quickest and simplest option is to add additional clarifying text. This is work in progress, further contributions will follow. For clarification, as far as SA1 is concerned, multivendorship applies between the Framework and the Gateway, not within the Gateway (i.e. SCFs).	

		0056	Support for Distributed Applications	Koen Schilders (Ericsson)	It is clarified that the NULL interfaces are already part of the current specifications, and not introduced as a new part of this proposal. It needs to be checked whether setCallBack doesn't already support this (i.e. subsequent invocations of this method). If not, the behaviour of calling setCallBack twice needs to be defined. The semantics of the assignmentID returned by addCallBack is different from the assignmentID returned by createNotification. Revision will be provided later this week (N5-020105).	
		0105			Update of 0056. An additional service property has been added indicating how to deal with situations where the application offers additional callback interfaces. Text detailing the use of this property has been added to multiple interfaces. Comment: some explanatory text seems to have been lost – removed from the method descriptions but not incorporated in the description of the service property. Agreed, some text will be added to the service properties. Comment: the behaviour is not clear in the case of supervised request. Conclusion: this will be considered for next meeting.	
6.3	Policy Management					

		0035	Notes on Policy Management Specification in ETSI/3GPP format	Ultan Mulligan, ETSI PTCC	During production of the PM spec, some issues were encountered.	
					?? Class diagrams and sequence diagram exist as separate documents, need to be fed into the UML model.	
					?? getProperty / getProperties: semantic difference between them so better to remain the two methods. Discussion will continue with contribution 68 where it is outlined that two similar mechanisms in PM and PAM could be made the same. Description of getProperty should be improved as indicated in this document	
					?? PolicyDomain: quite many methods, should this interface be broken up ? Any suggestions are welcome. Other 3 issues are correct observations and can be corrected.	
					?? Iterator: StringList should be added to the common data as a ...List is different from a ...Set in the sense that a List contains an ordered sequence with potential duplicates. Currently in the IDL Set maps to <sequence>, which is basically an ordered list. ...Set is used in many datatypes where the description more refers to a ...List. See also discussion on 0126.	
					?? TpStringSet should be moved to common data.	
					?? TpTypeProperty, etc: will be aligned with similar data types in PAM.	
					?? TpActionListElement: correct observation and can be corrected.	
					?? TpPolicyActionType: new proposal should be checked with IETF.	
					?? Exception :NoTransactionInProcess: should remain as it is.	
					?? Exception: InvalidArgument: the generic exception InvalidParameterValue seems the best option and should be used instead.	
					?? Not in document: properties defined with interfaces now captured as attributes of classes in the UML. Consensus is that the properties should be part of the description, not in attributes section.	

| | | 0036 | Draft ETSI Policy Mgt. Spec. DES/SPAN-120091-13 | Ultan Mulligan, ETSI PTCC | Individual methods have been numbered. Should we do this for other specs as well? Proposal accepted.

This document will be the Parlay 4.0 document. PM WG will use this document also as the Parlay 3.1 document. | |

		0068	Questions on Policy Management APIs	Koen Schilders (Ericsson)	Some of the issues in this contribution have already been discussed, some are not anymore valid (they are based on the Cancun spec and since then there have been improvements).	

Some of the issues in this contribution have already been discussed, some are not anymore valid (they are based on the Cancun spec and since then there have been improvements).

The remaining issues are:

?? **When a subdomain is created in a policy domain is there inheritance of the Role and Ownership properties belonging to the parent domain?**
Answer: not for the moment, this has not been discussed. When discussed, it is believed it should be in line with PAM.

?? **Is there a suggestion on how to incorporate attributes / properties in our current specs?**
Answer: same answer as the previous issue.

?? **What is meant by dynamically updated in the case of variables? Is it that variables can have a value that can change depending on the state of e.g. the network?**
Answer: yes. Variables can be updated from two sources: from the implementation of the policy engine, and by applications using the API.

?? **Why are there no getNext() and getPrevious() methods that are usually found in iterators?**
Answer: they're not included, they're not necessary with the model used.

?? **How would a system work if a policy enabled service is deployed with a Framework of a pre-PM version?**
Answer: This is related to the issue of whether PM is part of the FW or not. Two arguments are identified against having PM as part of the FW:

  ?? **If PM functionality is part of the FW, then it is not discoverable.**
  ?? **PM functionality needs to talk with network elements, and the FW doesn't. In order to include PM in the FW it would be necessary to transfer this information via the internal API, which is not at the moment meant for this.**

The second argument is considered to be key to the discussion, and it seems that the preferred option is that PM is a network service. Nevertheless this needs to be checked with Sheryar. Hopefully we'll get an answer within this week.

?? **What is the relation between Service Properties / SLAs and policies?**
Answer: no work has been done so far on this.

		127		Koen	FW additions for PM. See 148.	
		148	PAM addition to Framework	Guda	Includes changes in 127. The service type names for Presence and Availability Management (PAM) need to be specified as Framework parameter in order to be discoverable. This contribution proposes to add two PAM SCF service type names to the datatype TpServiceTypeName. Comment: the three PAM service type names need to be included, even if one of them is not in the 3GPP scope (because we keep the data types aligned). Agreed, this will be changed. Comment: for Parlay 3.1, PAM and PM are not in the ETSI document list. A CR to Rel4 is needed, Musa volunteers, it will be a single CR for both PAM and PM (respectively agreements on Tdocs 127 and 148). The CR will be of type F, and reason we'll give for the CR is alignment – otherwise two versions of the Framework need to be maintained, one for Parlay and one for 3GPP.	
6.4	Presence and Availability Management					
		0081	Parlay APIs 3.0: Presence and Availability Management (PAM) Data Definitions & PAM Interfaces v0.3	Parlay (Guda Venkatesh [venk@TELTIER.COM])	Updated into 0124.	

		0069	Comments & questions on PAM APIs	Koen Schilders (Ericsson)	??	Class Diagrams are not in line with class diagrams in other specifications. Answer: contribution 124 addresses that.	
					??	In the PAM Forum a conceptual model has been defined, that is very useful for readers to enhance the understanding of the PAM domain. It is currently in an annex, and it would be useful to have it earlier in the document. Answer: agreed, it will be moved.	
					??	It is unclear how the PAM concepts map to 3GPP/IETF concepts. Answer: this is addressed in 125.	
					??	There are no service properties. Answer: this is addressed in 125.	
					??	Is PAM meant to be one SCF, or more? Answer: this is now clear with the new class diagram. In the 3GPP subset (see 125) there will one per interface, since each can be discovered independently. Discussion deferred to 125.	
					??	The FW needs to be updated to allow discovery of PAM SCFs. Answer: agreed. The necessary modification will depend on the number of PAM SCFs.	
					??	Preference format is not standardized, but it might be needed in the 3GPP context to ensure interoperability. Suggestions for candidate standards can be found in Parlay PAM WG September 2001 meeting minutes. Answer: the best solution seems to be to use the Policy Management formats. Cooperation between the PAM and PM WGs may be necessary for this. Decision postponed to Friday, when we'll know how much this work can proceed.	
					??	Presence format is not standardized, there might be a format defined in the 3GPP Presence groups. Answer: same as item above.	
					??	The PAM specification has interfaces for management of objects in addition to the interfaces themselves. For example: identity objects are managed through a IdentityManagement interface that is common for all Identity objects. The Identity Management interface looks like: CreateIdentity(identityName, identityTypeList, requesterAuthToken) DeleteIdentity(identityName, requesterAuthToken)	

		0089	Views on Presence SCF definitions	Nokia	Summary: this contribution highlights a few points regarding the 3GPP Presence work and OSA's role there. From the 3GPP point of view it is essential that the OSA Presence feature supports the presence service architecture of 3GPP. This document presents shortly the current Presence service architecture as initially defined by 3GPP SA2. Also the OSA Presence requirements in TS 22.127 are listed and briefly analysed. Finally a number of comments are given about the Parlay / PAM specification. The Presence service for Parlay may have different requirements. Parlay solution is not discussed in this document. The time schedule of 3GPP presence service as agreed in SA2#22 shows that the deadline for the stage 2 work is 06/2002 and for stage 3 it is 09/2002. This means in practise that currently a lot of issues are still undefined. However CN5 has set the target to 03/2002 for the OSA presence feature. We see that there is a high risk that the OSA Presence API will be incompatible with the 3GPP Presence service if too tight timetable is pursued. The contribution presents the position of OSA in the presence architecture; this has been modified in an SA2 ad-hoc meeting this week. The basic requirement is that OSA applications must be able to function as presence watchers and suppliers; this results in two reference points in the architecture. The ad-hoc this week clarified that two RPs do not mean two interfaces. Nokia raises concerns on to what extent the current PAM specs satisfy 3GPP requirements, and the possibility that they might exceed them, and therefore risk future evolutions of the API, if in the future SA1 comes up with incompatible requirements. The meeting agrees to discuss 0125 now (see below). Discussion on the issues raised in this contribution: 1. The presence part of the API should be structurally similar to the other SCFs to facilitate easy use by the application implementers; for instance eent reporting is different than in the other SCFs. Answer: event reporting is different in all SCFs; this has been discussed in the TAC, that we should have common reporting for all SCFs. 2. Asynchronous methods could be used more because the presence data may not always be readily	

		0099	Draft ETSI PAM Spec. DES/SPAN-120091-14	Ultan Mulligan, ETSI PTCC	This document does not exist because the PC that was used to generate it crashed. Contribution 0098 gathers the issues that were found in the process of generating the specification, so the discussion will be based on it.	
		0098	Notes on PAM Specification in ETSI/3GPP format	Ultan Mulligan, ETSI PTCC	The conversion of the PAM Specification into ETSI/3GPP document format is being done with the help of a UML model provided by BT. This UML model has been checked for alignment with the Parlay 3.0 draft PAM specifications before generating the document and IDL from it. BT also supplied an automatically generated IDL which aided this check. The PAM conversion to ETSI format is based entirely on document, IDL and UML model distributed for Hong Kong Parlay meeting in document N5-020081. A number of issues arose as a result of this checking and conversion. Most of them are considered easy to fix and can be handled by the PAM group. Others are: ?? Data types, events: there is no direct relationship between the TpPAMEvent and TpPAMEventInfo data types and either the list of predefined events, or the attributes associated with these events. This could lead to different implementations, and thus interoperability problems. ?? Same for the TpPAMDataList but this can be easily fixed by introducing event data structures. The PAM group will provide contributions on this tonight.	
		0124	Update of 0081	Parlay (Guda Venkatesh)	Noted.	

| | | 0125 | Subset of PAM for 3GPP | Parlay (Guda Venkatesh) | Currently requirements exist in 3GPP (TS 22.127) for presence. The requirements for OSA to support presence feature are under discussion in SA1. This contribution is to identify the minimum subset of PAM to support the 3GPP requirements.

It is proposed that the following interfaces from PAM specs be included as the minimum set for the requirements established for 3GPP.
　?? **IpPAMIdentityPresence**
　?? **IpPAMAvailability**
　?? **IpPAMEventManagement**
　?? **IpPAMFramework**
A mapping to the requirements is provided, as well as a list identifying the features that exist in the requirements but are not supported by the current specifications; solutions are proposed for this.

It is highlighted that all functionality present in Parlay PAM specs, which doesn't correspond to any 3GPP requirement, has been taken out; therefore there is no risk of endangering future evolution. If nevertheless, since the Parlay interfaces implementing 3GPP requirements are proposed to be adopted as a whole, service properties may be used to distinguish a purely 3GPP PAM SCF.

It is agreed that the 3GPP requirement for periodic reporting is not satisfied.

Proposed that Matti reviews the 3GPP PAM subset. Discussion goes back to 0089. | |

| | | 0126 | | Parlay (Guda Venkatesh) | This contribution contains an update of the PAM specifications according to the discussions above.

Interfaces document:
Section 4.1, PAM service properties, remains to be filled in.

Problem: we have here a case where a SCF contains an interface that is not part of the 3GPP subset. This never happened before – we had cases where a method of an interface was not valid in some contexts, and we used service properties for that.

The situation is: Parlay PAM contains three interfaces:
?? **P&A Service**
?? **Event Management service**
?? **Provisioning service**
The latter is not in 3GPP; the second is only one interface; but P&A Service contains three interfaces – IpIdentityPresence, IpAvailability and IpAgentPresence – and the latter is not in the 3GPP subset.

Agreed solution: like in CC, we'll have for both P&A Service and Provisioning service a factory pattern where there will be a PA service manager, which is the discoverable, and in it there will be methods to create the different interfaces. For 3GPP we can use a service property that says that the factory method for the method that is not in the subset is not supported. This will be part of the PAM version on 11/2.

Data definitions document:
Modifications coming from received comments:
?? **TpPAMEvent and TpPAMEventInfo data types modified as agreed**
?? **For the 3GPP subset, the enumerated values are limited. Comment: in similar cases so far we've kept data types aligned. Agreed that here they will be kept aligned as well. No action needed.**
?? **TpPAMEventInfo will be modified like in CC to achieve a more generic Event Info.**

Sequence diagrams document:
?? **Event reporting: The client uses the registerAppInterface() method to register its notification interface. This is done for callback, and it** | |

		0147	Comments on the Presence SCF definitions	Nokia	This contribution raises some PAM, coming from a review of 124 and 125. Since updates to 124 and 125 have been discussed, some may no longer apply. The issues still outstanding are:	

This contribution raises some PAM, coming from a review of 124 and 125. Since updates to 124 and 125 have been discussed, some may no longer apply. The issues still outstanding are:

Issues concerning the fulfilment of the 3GPP requirements:

?? **Is periodic reporting covered?**
  Answer: still missing; a proposal will be included.
?? **Is it possible to get the list of watchers?**
  Answer: a solution is included in 125; it will be incorporated in the specification.
?? **Can the access rules be set?**
  Answer: a solution is included in 125; it will be incorporated in the specification.
?? **What is the status of the issues listed as "Missing methods" in N5-020125 (Teltier Technologies)?**
  Answer: they will be included in the specification (they're not yet although a solution is proposed for each).

Issues concerning more detailed interface and data type comments:

?? **Are the event data now rigorously defined?**
  Answer: agreed that we should have data types that identify also that attributes can have different value sets.
?? **Should the event registration just list attributes whose changes are interesting?**
  Answer: it will be considered.
?? **Is watcher information retrieval defined as part of the "management interface"? Typically watcher would not be able to ask for watcher information. Answer: it will be considered, in line with the conclusions from the SA2 discussion on the Presence Architecture. It is noted that the two RPs that SA2 have identified map totally with the interfaces P&A Service and Event Management Service.**

Issues concerning document structure and textual descriptions:

?? **N5-020124 contains four different files. This SCF should be documented in one file with the same contents structure as the other parts have. Answer: this will be handled off-line.**

			0144	PAM and Policy Management Data Type Alignment on Properties and Attributes.	Lucent (Musa Unmehopa)	Prepared by PAM and PM Parlay WGs, it covers the data type alignments between the two groups. The following modifications are proposed: ?? **Common data definitions document: the following data types need to be added: TpAny, TpAttribute, TpAttributeList, TpAttributeSet** ?? **Some data types are added as well to the PAM and PM specifications.** ?? **Methods like getProperty are changed to reflect this data type alignment.** Attribute types in TpAttribute need to be defined more strictly, like in CC and Charging. The parts including changes in PAM and PM are agreed. And update will be made (it needs to be a CR), will be Tdoc 153.	
			0153		Lucent (Musa Unmehopa)	Update of 144. Updated to 155.	
			0155		Lucent (Musa Unmehopa)	Update of 153: data type alignment for the Presence SCS and the Policy Management SCS relating to attributes and properties, for consistency and reuse. Comment: in "reasons for change" it should say "the alignment between 3GPP and ETSI and Parlay is abandoned". To be updated in 159.	
			159		Lucent (Musa Unmehopa)	Update of 159. Approved.	
			158		Lucent (Musa Unmehopa)	CR version of Adding PAM and Policy Management interface names for discovery in the Framework. Same coment in "reasons for change" as in 155. Updated to 160.	
			160		Lucent (Musa Unmehopa)	Update of 158. Agreed.	

6.5	Content Based Charging					
		0045	29.198-12 Corrections to rateRes	Chelo Abarca, Alcatel	Typo in TpChargePerUsage: SetChargePlan should be RateRes. Not clear what has been updated since that last version of the contribution. Then one of the questions was whether the intended functionality is useful for an end-user as the user is more interested in the total costs instead of all the subtarrifs etc. Furthermore, there is no understanding that there really is a flaw in CBC. Another previous remark was that the types are too complex. Proposal would also violate backwards compatibility. Not approved.	
		0057	recreateChargingSession	Koen Schilders (Ericsson)	Question whether this should not be hidden behind the API. Question on how to implement this as data needs to be transferred. Question whether with the newly created charging session you have access to the already existing charging information in the network. As charging data is still persistenly available also a new createSession could do what is intended in the contribution. Not approved.	

		0059	Service Properties CBC	Koen Schilders (Ericsson) / Karsten Luettge (Siemens)	Joined contribution on the CBC service properties. Question on whether the second table should not be made into policies. Answer: service properties also can be used to indicate what a client is allowed to use. Furthermore the policy information is not yet specified so this is the only way to use define what an application is allowed to do. Why not have just an INTEGER for P_PARALLEL_SESSIONS? Answer: there is no integer, always have to use a range or a set. Description for P_CREDITING should be improved. Updated to 107	
		107		Koen Schilders (Ericsson) / Karsten Luettge (Siemens)	Approved, however additional property for split charging needs to be added. Updated to 133	
		133		Koen Schilders (Ericsson) / Karsten Luettge (Siemens)	Update of 107. Approved (this is for Parlay 4/3GPP Rel5, so a CR will be needed in the future)..	
		0058	Semantics of BOOLEAN_SET properties	Koen Schilders (Ericsson)	Clarification of the BOOLEAN_SET type Service Property as well as a clarification on how to use Service Properties during discovery. Question: in case an application likes to discover a service that has a property that can be either TRUE of FALSE, 2 alternatives should be returned? Understanding seems to be that one would get back one item in the list of discovered services where it is indicated that this one supports both TRUE and FALSE and later on the application can indicate it wants to have an instance with e.g. TRUE. Approved.	

		0066	Clarification to the use of setCallback with charging	Nokia	Remark that title nor category is good, tbd how this will be actually put forward. The sentence proposed to be added is already in CC. It is considered a clarification so no CR for Rel4 is needed. Agreed.	
		0067	Clarification to the use of sessionEnded in Charging SCF	Nokia	Question whether the relation with the application is not already been established so that sessionEnded can already be invoked. Answer: this might take some time. Withdrawn.	
		0090	Correction for TpBalanceInfo description	Karsten Luettge (Siemens)	Will be taken as editorial improvement. Approved.	
		0091	Use Case for Separate ChargingSession Interfaces	Karsten Luettge (Siemens)	Use case to motivate one of the CBC requirements. It was noted that the use case could be largely fulfilled by using the Service Properties. Question whether it is allowed to change from unit to amount charging during a running session. Answer: no. Use case agreed. Text of the use case will be put into Requirements document and Karsten will find out if and how the specification can be updated.	
		0092	Separate Interfaces for Unit Charging and Amount Charging	Karsten Luettge (Siemens)	Withdrawn. Suggestion to have in any case more descriptive text in the methods and /or state model to cover the case that appl creates unit charging session and then starts with amount charging and vice versa.	

		0093	PreferredVolume/MinimumVolume for ReserveUnitReq	Karsten Luettge (Siemens)	Question: are also new Res/Err methods added even if the signature is the same? Answer: yes. However it was agreed that no new Res/Err methods are needed. It was indicated that with the current API the intended function is also supported. Question whether reserving a minimum amount is usefull at all as in e.g. pre-paid systems one would reserve the complete amount a user has. Answer: this is intended to support content based charging and application might have no clue on the amount and therefore it could be useful to reserve at least a minimum amount. Deferred. Discussion on backward compatibility. Potential misunderstanding on what level of backward compatibility we have to offer with Parlay 3.1 vs Parlay 3.0. This should be discussed with the Board.	
		0094	Implementation of the Split Charging requirement	Karsten Luettge (Siemens)	Service Property would be needed to indicate whether split charging is supported or not. Update of 107 is needed. Question whether the current method is still needed and then the new method name could be made more generic. Conclusion is that current proposal is ok. However, method description needs to be updated as it is now directly copied from the current method. Updated as 145.	
		145		Karsten Luettge (Siemens)	Update of 0094. In the first sentence "user" has be replaced by "users". Approved.	

		0096	Description for Split Charging	Karsten Luettge (Siemens)	Subside should be subsidised. First line: remove last a (... a one user ...). Question on whether it should be only up to the SLA on how the charging should be split: should it not be better to have a more dynamical way to indicate how the charging should be split. Answer: for unit charging this is decided in the network anyways, for amount charging this could be enhanced. Latter case could be achieved by creating multiple charging sessions dynamically. However, with this option the proposal is not necessary. But splitting of charging in the network could be supported with the proposal and not with creation of multiple sessions, so conclusion the proposal is kept and accepted.	
		0097	Handling of Reservation Expiry	Karsten Luettge (Siemens)	What happens with a session where there is a reservation that is expired? Should whole session be destroyed? Was discussed in San Diego. Will be looked into and an updated contribution might be the result.	
		131			Approved	
		132			Updated to 141.	
		141			Update of 132. The value for the parameter representing a signed confirmation was missing, and has been added: P_CHS_PARAM_CONTRACT. Approved. A CR will be needed in the future.	
6.6	WSDL / SOAP / XML APIs					This work aims to generate a WSDL version of the API from the UML model. Nortel's contributions will also be presented to the Parlay Web Developers WG later this week.	

			0062	UML_WSDL_Mapping	David Tweedie (Nortel Networks)	A revision of a Cancun document, the purpose of this paper to provide a set of guidelines for mapping from the OSA Analysis UML to WSDL. This mapping is to aid in the realisation of SOAP for the OSA APIs. Namespaces: used in XML schemas to qualify certain elements. Each document generated for OSA will have its own namespace name; guidelines for deriving these names are proposed in the contribution. Rules are also proposed to handle object references, and for the actual mapping of data types, methods, exceptions, interface classes and SCFs. Attached are the files with the mapping done following these proposed rules, one per OSA specification part. Using these WSDL specs, code can generated using tools. Q: How can instances be handled? How to map our use of sessionIDs? A: This was not considered necessary. Siemens has an alternative proposal (see 0088). Discussion continues in 0088.	
			0063	29-198-01_wsdl_inclusion	David Tweedie (Nortel Networks)	Proposal for updating the OSA Overview document to include WSDL description of the OSA APIs. This is dependent on approval of Tdoc N5-020062. Updates include references, abbreviations, a mention in the document structure and the inclusion of an Annex B with the WDSL mapping. Discussion postponed for after agreement of 0063.	
			0064	AnnexB_wsdl	David Tweedie (Nortel Networks)	Proposal for inserting a new Annex B for each SCF to point to the WSDL description. This is dependant on approval of Tdoc N5-020062. Discussion postponed for after agreement of 0063.	
			0086	Paymentgroup's Web Service Specification	Siemens	Noted.	

		0087	Paymentgroup's Payment Web Service Reference Implementation	Siemens (Karsten Lüttge)	Noted.	

| | | 0088 | Additional Rules for WSDL generation from OSA APIs | Siemens (Karsten Lüttge) | In the context of Paymentgroup, work has been done on rules for mapping to WSDL. As a result of this work, an XML schema description of the Content Charging service has been produced and prototyped (see tdoc N5-020086 for the spec and tdoc N5-020087 for the prototype). This contribution proposes some additional guidelines on how the OSA Web services should look like based on these activities.

The rationale behind the proposed rules is that the "main customers" of the joint API group are the programmers that implement OSA client applications. It is less important that there is a 1:1 mapping between the Corba IDL and the Web services WSDL specified by the joint API group, since most programmers will use only one of the technologies. But it is important that each specification is consistent with other specs that use the same technology, that is, a Web service should use similar concepts or naming conventions as other Web services, since most programmers will use OSA and other, non-OSA specifications in parallel.

The contribution proposes that some manual work is done in addition to the automatic generation of WSDL from UML or IDL. A similar approach has been taken by the Java realisation group, which introduced a rule book for manual optimisation of automatically generated code.

An example is included, which shows both the WSDL generated automatically and the one manually updated. It highlights the following as advantages of the latter:
?? It doesn't use nested data structures (the support of nested data structures by common Web service toolkits is low)
?? It does use asynchronous interfaces, which are considered difficult to implement from a client programmers perspective
?? It doesn't use the sessionID, which has been debated in the Joint API Group but cannot be removed from the CORBA IDL, though it may nit be used in other technologies.

Some rules are proposed, to be added to those in 62, provided it is approved to improve the WSDL mapping. Some open issues are also identified. | |

				Discussion resumes after these contributions have been discussed in the Web Services WG. Guidelines for mapping to WSDL (which will be straightforward mapping as in contribution 0062; 0088 is withdrawn after the discussion with the Web Services WG) will be published by the Web Services WG, and will have ownership of it. The Joint API Group will generate, according to their rules, the WDSL specifications, and publish them as an Annex B, informative (non-normative). Note that the IDL included in Annex A is normative. On the other hand WSDL is provided as an alternative transport – then if there is a strong interest it will be maintained, otherwise not. This will be included in Parlay 4 and 3GPP Rel5. It is suggested that the mapping rules could be included in Annex B as well; agreed. Documents 63 and 64 will be updated and discussed next week.	
6.7	Other APIs				
6.7.1	Journalling				
		0051	Discussion Paper on Journalling Requirements	Lucent technologies (Musa Unmehopa)	This document outlines unclarities on the Journalling requirement and will be transformed to LS to SA1 with copy to SA2 and SA5. The LS will be 0134.	
6.7.2	Terminal Capabilities				

| | | 0065 | Addition of terminal capability change notifications | Nokia | Why is there an Undefined in the TpTerminalCapabilityChangeCriteria ? Answer: this data type is used for reporting as well.

What is the role of the IpTerminalCapabilities that is now the base class for the IpExtendedTerminalCapabilities ? Is it possible to implement only the base class ? As they are not specified as abstract classes the base classes are also valid IFs. Furthermore in Call control there is also specialisation and it is not required to implement Conference Call control in order to support multiparty call control.

Suggestion to also update the description of the GetTerminalCapabilities() to reflect the fact that network can update information.

Text of TpTerminalChangeCriteria: the word capabilities is wrongly spelled.

Suggestion to introduce service properties.

Suggestion to align the name of the specialisation class with what has been done in Mobility.

In triggered request: can application request this multiple times and what happens when ranges overlap? Answer in principle result could be reported multiple times.

Class diagram for the App side: Error method, 2nd parameter should be in parameter.

Changing the inheritance from IpInterface to IpService would lead to non backwards compatibility.

Also suggested to align the names of the notification methods with Mobility.

Parameter capabilityScope: it is indicated that the contents are implementation specific. Is it possible to be more specific, e.g. by have a datatype where one of the options is CC/PP.
Also CC/PP headers are more accurate than referring to CC/PP definitions as CC/PP is a protocol.
Suggestion to also have a mapping to e.g. WAP. | |

		0135		Nokia	Update of 65. ?? Class diagrams: the names of the methods have been changed as requested. ?? A sentence has been added to detail that the network may override terminal capabilities information also in the existing interface. ?? Capability scope: new type, which includes the possibility of both undefined contents and the use of CC/PP headers, as requested. ?? A section has been added for service properties, where a property has been added P_TRIGGERED_REPORTING_SUPPORTED. Comment: the possibility of the network overriding terminal capabilities information also in the existing interface has been wrongly implemented, and should be moved from 8.2 to 8.1. Rest is approved. Updated to 161.	
		161		Nokia	Update of 135. Approved.	
6.7.3	Information Transfer					
6.7.4	Information Services					
6.7.5	Others					

			0052	Initial Proposals for Network Capabilities SCF to Kick-off discussions	Lucent technologies (Musa Unmehopa)	Proposal on how the network capabilities requirement could be implemented. Discussion on work item description where there is an item on Terminal Capabilities for T2. Will be discussed further in the work plan discussion. It is pointed out that we don't have an official answer from SA1 on our clarification request. Suggestion is that it would be better to wait until we have this answer. Seems a bit call control based, is there other information that could be useful and retrieved from the network ? Why should we only address information about the visited network ? Maybe we can clear that out with a new LS when we get an answer on ours. Further delayed until we have answer from SA1.	
			0076	Administration and Maintenance Interfaces	Sandford Bessler (ftw, Parlay member)	This document proposes an addition that could be used to define new Service Types in the FW. However as this relates to the Service Supplier Admin tool interface it is outside of the scope of the current API. It is in our requirements document, but for further elaboration both SA2 (architectural impact) and SA5 (management aspects) should be involved. Question who maintains this interface ? More elaboration on architectural aspects are required.	
			0077	A CCM friendly UML to IDL mapping	Sandford Bessler (ftw, Parlay member)	Information about desire to start new activity on mapping APIs to CIDL (Corba Component IDL). Could be done by JWG. Contributions will follow. In case this is brought in via Parlay it is noted that the proposal should be reviewed by the Parlay Board and send in via Paul Ritchie. However, FTW could suggest that the work be carried out within the Joint Working Group as we already have a requirement on this in our requirement document. In parallel contributions can already be brought.	

| | | 0078 | On Keeping Subscription Information in the Parlay Framework Consistent | Sandford Bessler (ftw, Parlay member) | Information model of the subscription data in the Framework.

Proposal for improving the subscription mechanism, where SAGs can be associated with only one Profile. This requires new exceptions.

Update will be done indicating the necessary changes in the specification will be outlined. | |
|---|---|---|---|---|---|---|
| | | 0083 | Allow Framework to select Encryption Method | Lucent technologies (Musa Unmehopa) | Suggestion to use exception "NO_ENCRYPTION_CAPABILITY_REQUESTED" as that seems to cover the intention better.

In case authentication is needed, application would always first need to select the encryption mechanism according to our state diagram. In case the application does not act according to the STD, an INVALID_STATE exception will be raised and thus the proposed exception is not needed.
So in principle the STD should be sufficient, but there is a feeling that clarifying text could be added.

Proposal to wait after discussion with SA3 (Brighton). | |
| | | 0123 | Backward compatibility Issues | JWG | This document is drafted during the meeting to force a decision on the version of Parlay that needs to be backward compatible. See below (AOB, joint session with Developer Realisation WG).

Continued discussion with board on thursday afternoon:

Parlay 3.1 will be the Parlay version.
With each API an overview of the changes that have IDL impact will be included.
Discussion on definition of Backward compatibility will be driven by TAC with involvement of key people (Ard-Jan). | |
| | | 129 | Understanding of Backward compatibility | JWG | See below (AOB, joint session with Developer Realisation WG). | |
| | | | | | | |

7	Parlay Plenary					
8	Parlay Session closure					
9	Preparation for ETSI OSA 1.1 / Parlay 3.1					
10	Preparation for 3GPP Rel. 5					
		0061	3GPP Release 5 freeze in March 2002 (TSG#15)	MCC (Adrian.Zoicas@etsi.fr)	It is noted that it is not so key where our specs are upgraded to Rel5, but rather when Rel5 is frozen. The meeting decides: ?? Part 1 (Overview), Part 2 (Common Data), Part 6, 7 (including changes in Tdoc 161), 8, 11, and all TRs (mapping documents). ?? Do not wish automatic release conversion with no added value in March for Part 3 (Framework, because of the pending security discussions), Part 4 (Call Control), Part 5 (because some requirements have not been satisfied for Rel4), Part 12 (Charging).	
11	Organizational aspects					
11.1	Review of 3GPP OSA Work Plan					
		0070	Review of 3GPP OSA work plan	MCC (Adrian.Zoicas@etsi.fr)	The work plan needs to be updated very much. What updates needed will be further discussed. To be further discussed off-line.	

		0071	Update of 3GPP CN5 list of Rapporteurs / Editors	MCC (Adrian.Zoicas@etsi.fr)	The following editors volunteered via e-mail: Part 4: John-Luc Part 5: Laura Part 6: David. Part 11: Koen Part 12: Koen PAM : Gudda, Part 3 : Andy Bennet Policy Management: Musa Part 4-4 : Mapping to SIP : Musa It should be noted that the editors are responsible for all specifications from the parent bodies, most of the work is done via the UML model, however changes in the datatypes need to be done in multiple documents.	
11.2	3GPP OSA Work Item Description					
11.3	further work on 12076					
11.4	further work on 12075					
11.5	Other					
12	Outgoing liaisons					
		110		Lucent (Musa)/Alcatel (Chelo)	Reply LS to SA3 on LI. As agreed, we requests SA3 LI to confirm to us that there are no requirements for us in their requirements specification. Adrian will update the meeting table, and remove the word "draft" from the header. Agreed no to request any action. Updated into 162.	
		162		CN5	Update of 110. Approved.	

		113		Lucent (Musa)/Alcatel (Chelo)	To SA3 on Security in the FW As agreed, we propose to SA3 that some CN5 experts attend next SA3 meeting in Brighton. Adrian will update the meeting table. Approved.	
		134		Lucent (Musa)	To SA1 and SA2 on Journalling requirement. We request clarification of the questions raised in 051. Approved.	
		120		Ericsson (Koen)	To SA1, copied to SA2 and SA5. Approved.	
13	Future meetings					
		0080	3GPP & All CN Calendar of Meetings	MCC (Adrian.Zoicas@etsi.fr)	Noted.	
		0085	ETSI SPAN, 3GPP SA, CN Calendar of Meetings	MCC (Adrian.Zoicas@etsi.fr)	Noted.	
					?? April 8-12 in ETSI (co-located with STF 211) ?? May 13-17 in Amsterdam (co-located with the CN groups). ?? July 8-12, Montreal (co-located with Parlay) We'll also co-locate with the following Parlay meetings: ?? October, British islands ?? January 2003	
14	AOB					

	Joint session with Developer Realisation WG				**Our documents 123 and 129 were presented. In order to reach an agreement on 123 - which Parlay 3.x should be frozen - the DR WG wished to have a better understanding of the issue of backwards compatibility, which lead to the presentation and discussion of 129.** **It was agreed than further work needs to be done, addressing for instance aspects related to different implementations. The level of maturity of an API should be defined.** **As a conclusion a slide was drafted with proposals to the Board. Our proposal will be that it will be announced that member companies have identified some essential errors in Parlay 3.0, which will be corrected.** **The more general discussion of backwards compatibility will continue, involving other groups which could provide useful input like for instance the Java Developers.** **We expect the BoD to have a decision on our proposal this week.**	
					Discussion on introduction of inheritance in the exceptions: the decision depends on how normative we consider the IDLs are. A proposal will be prepared and it will discussed by email. This will be implemented in Parlay 4.	
					From the Java Realisation WG: they would like to see if the Joint Group would agree on publishing the Java APIs as another Annex (PDF files), also they would like to include their rulebook that shows how to go from UML to Java APIs. This is all subject to legal agreements, but the JR WG would like to have the opinion of the JWG. This would apply to Parlay 4/3GPP 5. **It is noted that, legal considerations aside, it is a good idea because it shows how our work is used by different communities of developers, and how it addresses different technologies.** **It is also noted that legally it is difficult for ETSI to publish something they cannot modify.**	

		128	The 3GPP Change Request (CR) regime: 21.900 (clauses 4.6, 4.10.2)	MCC (Adrian Zoicas)	Noted.	
		122	TS 23.218 v1.2.0	CN1 rapporteur Andrew Allen	Noted.	

Annex to N5-020007

joint API group (Parlay, ETSI Project OSA, 3GPP TSG_CN WG5) Report of Meeting #16, Hong Kong, CHINA, 4 - 8 Feb 2002

Contents

Chair:	Chelo.Abarca@alcatel.fr
	Ard.Jan.Moerdijk@eln.ericsson.se
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3GPP MCC:	Adrian.Zoicas @etsi.fr
Meeting Host:	Parlay
Web:	http://www.3gpp.org/TB/CN/CN5/CN5.htm
E-mail List:	3GPP_TSG_CN_WG5_JointAPIwork@list.etsi.fr
Server:	http://www.3gpp.org/ftp/tsg_cn/WG5_osa/
	ftp://ftp.3gpp.org/TSG_CN/WG5_osa/

Participant registration

34 delegates attended the meeting. The list of participants can be found in Annex A.

IPR (Intellectual Property Rights) declarations

The Chair reminded the "Article 55: Intellectual Property Rights (IPR) Policy" of the 3GPP Working Procedures:

- ?? Individual Members shall be bound by the IPR Policy of their respective Organizational Partner.
- ?? Individual Members should declare at the earliest opportunity, any IPRs, which they believe to be essential, or potentially essential, to any work ongoing within 3GPP.
- ?? Organizational Partners should encourage their respective members to grant licences on fair, reasonable terms and conditions and on a non-discriminatory basis.
- ?? The PCG shall maintain a register of IPR declarations relevant to 3GPP, received by the Organizational Partners.

The Chair invited the delegates to declare IPRs - relevant to the 3GPP - they are aware of and there we re no declarations received.

The List of IPR declarations sorted by Organizational Partners can be found at: http://www.3gpp.org/legal/legal.htm

Agenda approval

ftp://ftp.3gpp.org/TSG_CN/WG5_osa/TSGN5_16_HongKong/Docs/N5-020001r2.zip

The approved agenda can also be found in annex B.

http://webapp.etsi.org/meetingDocuments/ViewDocumentList.asp?MTG_Id=21962

New documents were registered. More discipline was again requested for submitting meeting contributions at least five (5) working days before the respective meeting starts. The list of meeting documents can also be found in Annex C.

NOTE: Document N5DocLst.doc contains the Year 2002 Document List, which is continuously updated. The latest version can be found at http://www.3gpp.org/ftp/tsg_cn/WG5_osa/N5DocLst.zip

Last CN5 meeting report

The approved report can also be found at:
ftp://ftp.3gpp.org/TSG_CN/WG5_osa/TSGN5_00_old_meetings/TSGN5_15_Cancun/Report/

| N5_15 | N5-011107 | Report | Draft Report of CN5#15 , Cancun, MEXICO, 26 – 20 Nov 2001 | OSA Project Leader | |

Liaison Statements

The list of incoming Liaison Statements together with the corresponding replies are given in Annex L

Work plan

The latest version of the 3GPP Work Plan Status can be found at: http://www.3gpp.org/ftp/Information/WORK_PLAN/

Work Item Descriptions need CN approval and are additionally stored at:
ftp://ftp.3gpp.org/TSG_CN/WG5_osa/_Work_Item_Descriptions/

Future meetings

CN5 meeting calendar

Meeting	Date	Location	Host
CN5#16	4 - 8 Feb 2002	Hong Kong, China	Parlay
TSG#15	6 – 14 Mar 2002	Jeju Island, Korea	TTA
CN1- 4	8 - 12 Apr 2002	Florida/ USA	NA Friends
CN5#17	8 - 12 Apr 2002	Sophia Antipolis/ FR	ETSI
CN1- 4	13 - 17 May 2002	Amsterdam/ NL	Ericsson
CN5#18	13 - 17 May 2002	Amsterdam/ NL	Ericsson
TSG#16	4 – 13 Jun 2002	Marco Island, FL, USA	Motorola
SPAN#8	24 - 28 Jun 2002	Sophia Antipolis	ETSI
CN5#19	8 - 12 Jul 2002	Montreal/ CA	Parlay/Ericsson
CN1- 4	29 Jul- 2 Aug 2002	Helsinki/ FI	Nokia
CN5#20	TBD	TBD	TBD
CN5#21	TBD	TBD	TBD
TSG#17	3 - 12 Sep 2002	Biarritz, France	Alcatel
SPAN#9	16 - 20 Sep 2002	Sophia Antipolis	ETSI
CN1- 4	23 - 27 Sep 2002	North America	NA Friends
CN5#22	Oct 2002	British Islands	Parlay
CN5#23	TBD	TBD	TBD
CN1- 4	11 - 15 Nov 2002	Penang/ MA	
TSG#18	3 - 12 Dec 2002	New Orleans , USA	NA Friends
CN5#24	2003	Asia	Parlay
CN5#25	TBD	TBD	TBD
TSG#19	12 - 20 Mar 2003	Jersey Island, UK	
TSG#20	11 - 19 Jun 2003	Finland	
TSG#21	17 - 25 Sep 2003		
TSG#22	9 - 18 Dec 2003		

Annex A: Participants list

Chair

ABARCA Chelo	ALCATEL S.A.	FR
MOERDIJK Ard-Jan	ERICSSON L.M.	SE

ViceChair

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PROJECT_MGR

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Number of Attendees: **34**

NOTE: Consult 3GPP Membership status at http://webapp.etsi.org/3gppmembership/QueryForm.asp

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Annex C: Documents list

Legend   Documents highlighted in red are not available; e.g. S5-010xyz
Documents highlighted in green are replaced / superseded by a Revised Version; e.g. S5-010xyz
Documents highlighted in blue had been sent out by SA5 & the action is discharged; e.g. S5-010xyz   Sent on 1 Jan 2001

Tdoc	Title	Source	Agenda	Type	Status
N5-020001r2	Draft Agenda	JWG Chair	1 Agenda approval	Agenda	
N5-020002r1	Document Allocation	JWG Chair	2 Tdoc# allocation		
N5-020003	report_Monday	JWG Chair			Missing
N5-020004	report_Tuesday	JWG Chair			Missing
N5-020005	report_Wednesday	JWG Chair			Missing
N5-020006	report_Thursday	JWG Chair			Missing
N5-020007	report_Friday	JWG Chair			Missing
N5-020008	Draft Report of CN5#16, Hong Kong, CHINA, 4-8 Feb 2002	JWG			Missing
N5-020009	Report of CN5#16, Hong Kong, CHINA, 4-8 Feb 2002	CN5			Missing
N5-020010	LS on Lawful Intercept (LI) Stage 1 requirements, Stage 2 descriptions	S3 LI via CN (NP-010698)	4 Input LSs	LS in	reply in 110 updated to 162
N5-020011	LS reply (cc: CN5) on OSA functions for retrieval of Network Capabilities	S1-011327	4 Input LSs	LS in	Noted. No reply needed
N5-020012	LS (cc: CN5) on Confirmation of OSA Support for VASP MMS Connectivity	S2-013589	4 Input LSs	LS in	Noted. No reply needed
N5-020013	LS (to: CN5) on Support of security algorithms in OSA framework	S3-010696	4 Input LSs	LS in	reply in 113
N5-020014	LS reply (cc: CN5) to LS T2-010905 on VASP MMS connectivity	S3-010698	4 Input LSs	LS in	Noted. No reply needed
N5-020015	LS reply (cc: CN5) to LS T2-010905 on VASP MMS connectivity	S5-010750	4 Input LSs	LS in	Noted. No reply needed
N5-020016	LS (cc: CN5) on Impacts of Subscriber and Equipment Trace	S5-020013	4 Input LSs	LS in	Noted. No reply needed
N5-020017r1	LS reply (cc: CN5) on Comments to UP-010141 and relationship of GUP to Subscription Management	S5-020028	4 Input LSs	LS in	Noted. No reply needed
N5-020018	LS (to: CN5) on Status of the Generic User Profile Work	3GPP Joint AH Generic User Profile (GUP)	4 Input LSs	LS in	Noted. No reply needed
N5-020019	LS reply (cc: CN5) on Release of In-Process Stage 1 Specification to SA1 for Review and Continuing Development	3GPP GUP (UP-010129)	4 Input LSs	LS in	Noted. No reply needed
N5-020020	Rel-4 CR 29.198-03 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020021	Rel-4 CR 29.198-04 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020022	Rel-4 CR 29.198-05 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020023	Rel-4 CR 29.198-06 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020024	Rel-4 CR 29.198-07 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020025	Rel-4 CR 29.198-08 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020026	Rel-4 CR 29.198-11 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020027	Rel-4 CR 29.198-12 Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020028	ETSI ES 201 915-09 Generic Messaging: Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	Tdoc	
N5-020029	ETSI ES 201 915-10 Connectivity Manager: Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	Tdoc	
N5-020030	Rel-4 CR 29.198-04: Event Subscription/Notification Data Type Corrections	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved

3GPP

N5-020031	Rel-4 CR 29.198-04: Incorrect parameter name in IpCallLeg.routeReq() and in IpCallLeg.setAdviceOfCharge()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020032	ETSI ES 201 915-09 Generic Messaging: Correction to IpMailboxFolder.putMessage()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	Tdoc	
N5-020033	Rel-4 CR 29.198-11: Correct parameter name in IpAccountManager.createNotification()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020034	Rel-4 CR 29.198-12: Correct parameter name in IpAppChargingSession.extendLifeTimeRes()	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020035	Rel-5 29.198-14 Notes on Policy Management Specification in ETSI/3GPP format	ETSI PTCC (Ultan Mulligan)	6.3 Policy Managemen	Tdoc	Discussed
N5-020036	Rel-5 29.198-14 Draft ETSI Policy Mgt. Spec. DES/SPAN-120091-13	ETSI PTCC (Ultan Mulligan)	6.3 Policy Managemen	TS	Discussed
N5-020037	ETSI ES 201 915-04 Error in Multi Media Call Control	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	Tdoc	
N5-020038	Starting Work on the OSA PICS Document	ETSI PTCC (Ultan Mulligan)	11.3 Orga SPAN-076 v, 3.3.1 ETSI STF Test: 3.3.1 ETSI Compliance and Testing STF	Tdoc	Noted
N5-020039	Sample INAP CS-2 PICS Document	ETSI PTCC (Ultan Mulligan)	11.3 Orga SPAN-076 v, 3.3.1 ETSI STF Test: 3.3.1 ETSI Compliance and Testing STF	Tdoc	Noted
N5-020040	PICS Style Guide	ETSI PTCC (Ultan Mulligan)	11.3 Orga SPAN-076 v, 3.3.1 ETSI STF Test: 3.3.1 ETSI Compliance and Testing STF	Tdoc	Noted
N5-020041	Rel-5 29.198-04 ETS-enabling of Call Control API	Telcordia (John-Luc Bakker; Parlay ETS WG)	6.2.2 Other CC issue	Tdoc	
N5-020042	Rel-5 29.198-04 Time based charging	Alcatel (Chelo Abarca)	6 Rel-5 (OSA2) 3GPP	Tdoc	
N5-020043	Rel-5 29.198-04 Charge info methods	Alcatel (Chelo Abarca)	6 Rel-5 (OSA2) 3GPP	Tdoc	
N5-020044	Rel-5 29.198-04 AddOnCharge() methods for usage charging	Alcatel (Chelo Abarca)	6 Rel-5 (OSA2) 3GPP	Tdoc	
N5-020045	Rel-4 29.198-12 Corrections to rateRes	Alcatel (Chelo Abarca)	5 Rel-4 (OSA1) 3GPP	Tdoc	Discussed
N5-020046	Rel-4 CR 29.198-03: Replace erroneous mention of P_OSA_ACCESS by the correct value P_OSA_AUTHENTICATION	Alcatel (Chelo Abarca)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020047	Rel-4 CR 29.198-03 Test Subject parameters in IpFaultManager, Option A	Lucent (Musa Unmehopa)	5 Rel-4 (OSA1) 3GPP	CR	Withdrawn
N5-020048	Rel-4 CR 29.198-03 Test Subject parameters in IpFaultManager, Option B	Lucent (Musa Unmehopa)	5 Rel-4 (OSA1) 3GPP	CR	Withdrawn
N5-020049	Rel-4 CR 29.198-03 Improved description of activityTestReq with respect to ServiceInstanceID	Lucent (Musa Unmehopa)	5 Rel-4 (OSA1) 3GPP	CR	updated to 137
N5-020050	Rel-4 CR 29.198-03 Generating statistics records on behalf of another entity using genFaultStatsRecordReq	Lucent (Musa Unmehopa)	5 Rel-4 (OSA1) 3GPP	CR	updated to 140
N5-020051	Rel-5 29.198-0x Discussion Paper on Journalling Requirements	Lucent (Musa Unmehopa)	6.7.1 Journalling	Tdoc	
N5-020052	Rel-5 29.198-xy Initial Proposals for Network Capabilities SCF to Kick-off discussions	Lucent (Musa Unmehopa)	6.7 Other APIs	Tdoc	
N5-020053	Rel-5 29.198-04/-05 Interdependence between UI and Call Control	AePONA (Eamonn Murray)	6.2.2 Other CC issue	Tdoc	
N5-020054	ETSI 201 915-10 Multiple Inheritance	Sun Microsystems (Gary Bruce)		Tdoc	
N5-020055	Rel-4 CR 29198-06 AssignmentID in Mobility	Sun Microsystems (Gary Bruce)	5 Rel-4 (OSA1) 3GPP	CR	updated to 146
N5-020056	Rel-5 29.198-04/-05/-08/-11 Support for Distributed Applications	Ericsson (Koen Schilders)	6 Rel-5 (OSA2) 3GPP	Tdoc	updated to 105
N5-020057	Rel-5 29.198-12 recreateChargingSession	Ericsson (Koen Schilders)	6.5 Content Based Ch	Tdoc	Discussed
N5-020058	Rel-5 29.198-03 Semantics of BOOLEAN_SET properties	Ericsson (Koen Schilders)	6 Rel-5 (OSA2) 3GPP	Tdoc	Agreed
N5-020059	Rel-5 29.198-12 Service Properties CBC	Ericsson (Koen Schilders) / Siemens (Karsten Luettge)	6.5 Content Based Ch	Tdoc	updated to 107
N5-020060	Rel-5 29.198-04/-05/-08/-11 Network Controlled Notifications	Ericsson (Koen Schilders)	6 Rel-5 (OSA2) 3GPP	Tdoc	
N5-020061	3GPP Rel-5 freeze in March 2002 (TSG#15)	ETSI MCC (Adrian Zoicas)	10 Prepare 3GPP R5	Tdoc	updated to 165
N5-020062	UML-WSDL Mapping	Nortel Networks (David Tweedie)	6.6 WSDL/SOAP/XMLapi	Tdoc	
N5-020063	Rel-5 29-198-01 WSDL inclusion	Nortel Networks (David Tweedie)	6.6 WSDL/SOAP/XMLapi	Tdoc	
N5-020064	Rel-5 29.198-02 to 29.198-12 AnnexB WSDL	Nortel Networks (David Tweedie)	6.6 WSDL/SOAP/XMLapi	Tdoc	
N5-020065	Rel-5 CR 29.198-07 Addition of terminal capability change notifications	Nokia (Matti Saarenpaa)	6.7.2 Terminal Capab	CR	
N5-020066	Rel-5 CR 29.198-12 Clarification to the use of setCallback with charging	Nokia (Matti Saarenpaa)	6.5 Content Based Ch	CR	Agreed to be included in a big CR 29.198-12

N5-020067	Rel-5 CR 29.198-12 Clarification to the use of sessionEnded in Charging SCF	Nokia (Matti Saarenpaa)	6.5 Content Based Ch	CR	Withdrawn
N5-020068	Rel-5 29.198-13 Questions on Policy Management APIs	Ericsson	6.3 Policy Managemen	Tdoc	Discussed
N5-020069	Rel-5 29.198-14 Comments & questions on PAM APIs	Ericsson (Koen Schilders)	6.4 PAM	Tdoc	Discussed
N5-020070	Review of 3GPP OSA work plan	ETSI MCC (Adrian Zoicas)	11.1 Rev 3GPP OSA WP	Tdoc	
N5-020071	Update of 3GPP CN5 list of Rapporteurs / Editors	ETSI MCC (Adrian Zoicas)	11.1 Rev 3GPP OSA WP	Tdoc	updated to 143
N5-020072	Rel-4? CR 29.198-04 Event handling rules clarification	Ericsson	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020073	Rel-4? CR 29.198-03 Missing inheritance in service agreement management interfaces	Ericsson	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020074	Information on Preparatory Meeting for ETSI OSA Compliance STF	Alcatel (Chelo Abarca)	4.3.1 ETSI Compliance and Testing STF	Tdoc	Noted
N5-020075	Some initial thoughts on OSA compliance	Alcatel (Chelo Abarca)	4.3.1 ETSI Compliance and Testing STF	Tdoc	Noted
N5-020076	Administration and Maintenance Interfaces	ftw, Parlay member (Sandford Bessler)	6 Rel-5 (OSA2) 3GPP	Tdoc	Discussed
N5-020077	A CCM friendly UML to IDL mapping	ftw, Parlay member (Sandford Bessler)	6 Rel-5 (OSA2) 3GPP	Tdoc	Discussed
N5-020078	On Keeping Subscription Information in the Parlay Framework Consistent	ftw, Parlay member (Sandford Bessler)	6 Rel-5 (OSA2) 3GPP	Tdoc	Discussed
N5-020079					
N5-020080	3GPP & All CN Calendar of Meetings	ETSI MCC (Adrian Zoicas)	13 Future meetings	Tdoc	updated to 106
N5-020081	Rel-5 29.198-14 Parlay APIs 3.0: Presence and Availability Management (PAM) Data Definitions & PAM Interfaces v0.3	Teltier (Guda Venkatesh; Parlay WG)	6.4 PAM	Tdoc	updated to 124
N5-020082	Rel-5 CR 29.198-11 Correction of result parameter of getNotification, set in stead of single result	Lucent (Musa Unmehopa)	6.5 Content Based Ch	CR	
N5-020083	Rel-5 29.198-03 Allow Framework to select Encryption Method	Lucent (Musa Unmehopa)	6.7.5 Others	Tdoc	wait for SA3
N5-020084	Rel-5 TR 29.998-4-4 V0.2.1: SIP mapping for the Multi-party Call Control (MPCC) API	Ericsson (Jorgen Dyst)	6.2.1 3GPP IMS relCC	T R	
N5-020085	ETSI SPAN, 3GPP SA, CN Calendar of Meetings	ETSI MCC (Adrian Zoicas)	13 Future meetings	Tdoc	updated to 150
N5-020086	Paymentgroup's Web Service Specification	Siemens (Karsten Lüttge)	6.6 WSDL/SOAP/XMLapi	Tdoc	
N5-020087	Paymentgroup's Payment Web Service Reference Implementation	Siemens (Karsten Lüttge)	6.6 WSDL/SOAP/XMLapi	Tdoc	
N5-020088	Additional Rules for WSDL generation from OSA APIs	Siemens (Karsten Lüttge)	6.6 WSDL/SOAP/XMLapi	Tdoc	
N5-020089	Rel-5 29.198-14 Views on Presence SCF definitions	Nokia (Matti Saarenpaa)	6.4 PAM	Tdoc	Discussed
N5-020090	Rel-5 29.198-11 Correction for TpBalanceInfo description	Siemens (Karsten Lüttge)	6.5 Content Based Ch	Tdoc	Editorial to be implemented in Rel-4 29.198-11:
N5-020091	Rel-5 29.198-12 Use Case for Separate ChargingSession Interfaces	Siemens (Karsten Lüttge)	6.5 Content Based Ch	Tdoc	Discussed
N5-020092	Rel-5 29.198-12 Separate Interfaces for Unit Charging and Amount Charging	Siemens (Karsten Lüttge)	6.5 Content Based Ch	Tdoc	Withdrawn
N5-020093	Rel-5 29.198-12 PreferredVolume/MinimumVolume for ReserveUnitReq	Siemens (Karsten Lüttge)	6.5 Content Based Ch	Tdoc	Deferred
N5-020094	Rel-5 29.198-12 Implementation of the Split Charging requirement	Siemens (Karsten Lüttge)	6.5 Content Based Ch	Tdoc	updated to 145
N5-020095	Rel-4 CR 29.198-03: Include Operation Set as part of General Service Properties	ETSI PTCC (Ultan Mulligan)	5 Rel-4 (OSA1) 3GPP	CR	
N5-020096	Rel-5 29.198-12 Description for Split Charging	Siemens (Karsten Lüttge)	6.5 Content Based Ch	Tdoc	
N5-020097	Rel-5 29.198-12 Handling of Reservation Expiry	Siemens (Karsten Lüttge)	6.5 Content Based Ch	Tdoc	
N5-020098	Rel-5 29.198-14 Notes on PAM Specification in ETSI/3GPP format	ETSI PTCC (Ultan Mulligan)	6.4 PAM	Tdoc	Discussed
N5-020099	Rel-5 29.198-14 Draft ETSI PAM Spec. DES/SPAN-120091-14	ETSI PTCC (Ultan Mulligan)	6.4 PAM	T S	Withdrawn
N5-020100	New forum "PayCircle" founded	Siemens (Karsten Lüttge)	3 Reporting	Report	
N5-020101	Parlay 4.0 Requirements V1.1	BT Exact (Richard Stretch)	6.1 Requirements	Tdoc	
N5-020102	ETSI TIPHON and SPAN 14 Meeting Report	BT Exact (Richard Stretch)	3 Reporting	Report	
N5-020103					
N5-020104	Rel-5 29.198-04 Forking support in Call control	Ericsson (Jorgen Dyst)	6.2.1 3GPP IMS relCC	Tdoc	updated in 136
N5-020105	Rel-5 29.198-04/-05/-08/-11 Support for Distributed Applications	Ericsson	6 Rel-5 (OSA2) 3GPP	Tdoc	update of 056
N5-020106	Combined meeting calendar of the joint-API-group/CN5, CN1-4, SA1-3, TSGs	ETSI MCC (Adrian Zoicas)	13 Future meetings	Tdoc	update of 080, updated to 150
N5-020107	Rel-5 29.198-12 Service Properties for Content Based Charging	Ericsson (Koen Schilders)/ Siemens (Karsten Luettge)	6 Rel-5 (OSA2) 3GPP	Tdoc	update of 059, updated to 133
N5-020108	LS reply to CN5's N5-011161 on Request clarification on SA1's CR stating that OSA APIs do not require Service Capability Features to be 3GPP standardized entities	SA1 OSA AH#10 (S1-020285)	4 Input LSs	LS in	Noted. No reply needed
N5-020109	LS reply to CN5's N5-011172 on Retrieval of Network Capabilities Requirement	SA1 OSA AH#10 (S1-020298)	4 Input LSs	LS in	Noted. No reply needed
N5-020110	LS reply to SA3 LI (N5-020010/NP-010698)	CN5	12 Outgoing LSs	LS out	reply to 010, updated to 162
N5-020111	LS reply to (N5-020011)		12 Outgoing LSs	LS out	Withdrawn

N5-020112	LS reply to (N5-020012)		12 Outgoing LSs	LS out	Withdrawn
N5-020113	LS reply to SA3 (N5-020013/S3-010696) Security Framework	CN5	12 Outgoing LSs	LS out	reply to 013
N5-020114	LS reply to (N5-020014)		12 Outgoing LSs	LS out	Withdrawn
N5-020115	LS reply to (N5-020015)		12 Outgoing LSs	LS out	Withdrawn
N5-020116	LS reply to (N5-020016)		12 Outgoing LSs	LS out	Withdrawn
N5-020117	LS reply to (N5-020017)		12 Outgoing LSs	LS out	Withdrawn
N5-020118	LS reply to (N5-020018) GUP		12 Outgoing LSs	LS out	Withdrawn
N5-020119	LS reply to (N5-020019) GUP		12 Outgoing LSs	LS out	Withdrawn
N5-020120	LS to SA1, SA2 (cc: SA5) on Clarification of requirements for the VHE	CN5	12 Outgoing LSs	LS out	
N5-020121	LS to SA5 cc CN5, SA2, SA1 on VASP MMS Connectivity	T2-020038	4 Input LSs	LS in	Noted. No reply needed
N5-020122	Rel-5 23.218 v1.2.0 IP Multimedia (IM) Session Handling; IM call model	CN1 Rapporteur (Andrew Allen - Dynamicsoft)	14 AOB	TS	Noted
N5-020123	Backwards compatibility issues	join-API-group	14 AOB (Joint session with Developer Realisation WG)	Tdoc	Discussed
N5-020124	Rel-5 29.198-14 Parlay PAM Specs 0.3 to 0.4 change list	Teltier (Guda Venkatesh)	6.4 PAM	Tdoc	update of 081, 085, updated to 126
N5-020125	Rel-5 29.198-14 Subset of Parlay PAM specs for 3GPP	Teltier (Guda Venkatesh)	6.4 PAM	Tdoc	Discussed
N5-020126	Rel-5 29.198-14 Parlay PAM spec 0.5	Teltier (Guda Venkatesh)	6.4 PAM	Tdoc	update of 124
N5-020127	Rel-5 29.198-01/-03 Policy Management Addition to Framework	Ericsson (Koen Schilders)	6 Rel-5 (OSA2) 3GPP	Tdoc	
N5-020128	The 3GPP Change Request (CR) regime: 21.900 (clauses 4.6, 4.10.2)	ETSI MCC (Adrian Zoicas)	14 AOB	Tdoc	
N5-020129	Understanding of Backward compatibility	JWG	14 AOB (Joint session with Developer Realisation WG)	Tdoc	Discussed
N5-020130	Parlay/OSA presentation	JWG officials		Tdoc	Noted
N5-020131	Rel-5 29.198-12 Update for Stored Confirmation Proposal (N5-011095)	Siemens (Karsten Lüttge)	6.5 (Content Based Charging)	Tdoc	Discussed
N5-020132	Rel-5 29.198-12 Update of Relayed Confirmation Proposal (N5-011095)	Siemens (Karsten Lüttge)	6.5 (Content Based Charging)	Tdoc	updated to 141
N5-020133	Rel-5 29.198-12 Service Properties for Content Based Charging	Ericsson (Koen Schilders) / Siemens (Karsten Luettge)	6 Rel-5 (OSA2) 3GPP	Tdoc	update of 107, agreed, CR to be produced
N5-020134	LS to SA1, SA2 on Clarification of the OSA Stage 1 Journaling Requirements	CN5		LS out	
N5-020135	Rel-5 CR 29.198-07 Addition of terminal capability change notifications	Nokia (Matti Saarenpaa)	6 Rel-5 (OSA2) 3GPP	CR	updated to 161
N5-020136	Rel-5 29.198-04 Forking support in Call control	Ericsson (Koen Schilders)	6.2.1 3GPP IMS relCC	Tdoc	update of 104
N5-020137	Rel-4 CR 29.198-03 Improved description of activityTestReq with respect to ServiceInstanceID	Lucent (Musa Unmehopa)	5 Rel-4 (OSA1) 3GPP	CR	update of 049
N5-020138	LS reply to N5-020108		12 Outgoing LSs	LS out	Withdrawn
N5-020139	LS reply to N5-020109		12 Outgoing LSs	LS out	Withdrawn
N5-020140	Rel-4 CR 29.198-03 Generating statistics records on behalf of another entity using genFaultStatsRecordReq	Lucent (Musa Unmehopa)	5 Rel-4 (OSA1) 3GPP	CR	update of 050
N5-020141	Rel-5 29.198-12 Update of Relayed Confirmation Proposal (N5-011132)	Siemens (Karsten Lüttge)	6.5 (Content Based Charging)	Tdoc	update of 132, agreed, CR to be created
N5-020142	ETS	Telcordia (John-Luc Bakker)	6.2.2 Other CC issue	Tdoc	
N5-020143	Updated list of OSA APIs Rapporteurs / Editors	ETSI MCC (Adrian Zoicas)	11.1 Rev 3GPP OSA WP	Tdoc	update of 071
N5-020144	Rel-5 29.198-13/-14 PAM and Policy Management data type alignement	Lucent (Musa Unmehopa)	6.3 PM, 6.4 PAM	Tdoc	
N5-020145	Rel-5 29.198-12 Implementation of the Split Charging requirement	Siemens (Karsten Lüttge)	6.5 (Content Based Charging)	Tdoc	update of 094
N5-020146	Rel-4 CR 29198-06 AssignmentID in Mobility	Sun Microsystems (Gary Bruce)	5 Rel-4 (OSA1) 3GPP	CR	update of 055, moved to Rel-6
N5-020147	Rel-5 29.198-14 Comments on the Presence SCF definitions	Nokia (Matti Saarenpaa)	6.4 PAM	Tdoc	
N5-020148	PAM addition to Framework	Teltier (Guda Venkatesh)	6.4 PAM	Tdoc	
N5-020149	Rel-4 CR 29198-02 TpAssignmentID in Common	Sun Microsystems (Gary Bruce)	5 Rel-4 (OSA1) 3GPP	CR	Approved
N5-020150	Updated meeting calendar of the JWG, ETSI SPAN, 3GPP TSGs, CN1-4, SA1-3	JWG	13 Future meetings	Tdoc	update of 106
N5-020151	Backwards compatibility v001: Frame Work version in run-time	Incomit (Anders Lundquist)	5 Rel-4 (OSA1) 3GPP	Tdoc	
N5-020152		Teltier (Guda Venkatesh)	6.4 PAM	Tdoc	
N5-020153	[CR] PAMandPM_DataTypeAlignment	Lucent (Musa Unmehopa)		CR	updated to 155
N5-020154		Incomit (Anders Lundquist)		Tdoc	
N5-020155	[CR] PAMandPM_DataTypeAlignment	Lucent (Musa Unmehopa)		CR	update of 153, updated to 159

N5-020156		Lucent (Musa Unmehopa)		Tdoc	
N5-020157		Lucent (Musa Unmehopa)		Tdoc	
N5-020158	[CR] Discovery_Of_PAM_And_PolicyManagement	Lucent (Musa Unmehopa)		CR	updated to 160
N5-020159	[CR] PAMandPM_DataTypeAlignment	Lucent (Musa Unmehopa)		Tdoc	update of 155
N5-020160	[CR] Discovery_Of_PAM_And_PolicyManagement	Lucent (Musa Unmehopa)		CR	update of 158
N5-020161	Rel-5 CR 29.198-07 Addition of terminal capability change notifications	Nokia (Matti Saarenpaa)	6 Rel-5 (OSA2) 3GPP	CR	update of 135
N5-020162	LS reply to SA3 LI (cc: SA1) (N5-020010/NP-010698) on Lawful Intercept related information in CN5 specifications	CN5	12 Outgoing LSs	LS out	reply to 010, update of 110
N5-020163	LS copy from S5 to N5 : Comments on UP-010141 and relationship of GUP to Subscription Management	S5-020016	4 Input LSs	LS in	Noted. No reply needed
N5-020164				Tdoc	
N5-020165	3GPP Release 5 freeze in March 2002 (TSG#15)	JWG	10 Prepare 3GPP R5	Tdoc	update of 061

Annex L: Liaison Statements

Doc. Name	Title	Source	Type	Status
N5-020010	LS on Lawful Intercept (LI) Stage 1 requirements, Stage 2 descriptions	S3 LI via CN (NP-010698)	LS in	reply in 110 updated to 162
N5-020011	LS reply (cc: CN5) on OSA functions for retrieval of Network Capabilities	S1-011327	LS in	Noted. No reply needed
N5-020012	LS (cc: CN5) on Confirmation of OSA Support for VASP MMS Connectivity	S2-013589	LS in	Noted. No reply needed
N5-020013	LS (to: CN5) on Support of security algorithms in OSA framework	S3-010696	LS in	reply in 113
N5-020014	LS reply (cc: CN5) to LS T2-010905 on VASP MMS connectivity	S3-010698	LS in	Noted. No reply needed
N5-020015	LS reply (cc: CN5) to LS T2-010905 on VASP MMS connectivity	S5-010750	LS in	Noted. No reply needed
N5-020016	LS (cc: CN5) on Impacts of Subscriber and Equipment Trace	S5-020013	LS in	Noted. No reply needed
N5-020017r1	LS reply (cc: CN5) on Comments to UP-010141 and relationship of GUP to Subscription Management	S5-020028	LS in	Noted. No reply needed
N5-020018	LS (to: CN5) on Status of the Generic User Profile Work	UP-010128	LS in	Noted. No reply needed
N5-020019	LS reply (cc: CN5) on Release of In-Process Stage 1 Specification to SA1 for Review and Continuing Development	UP-010129	LS in	Noted. No reply needed
N5-020108	LS reply to CN5's N5-011161 on Request clarification on SA1's CR stating that OSA APIs do not require Service Capability Features to be 3GPP standardized entities	S1-020285	LS in	Noted. No reply needed
N5-020109	LS reply to CN5's N5-011172 on Retrieval of Network Capabilities Requirement	S1-020298	LS in	Noted. No reply needed
N5-020121	LS to SA5 cc CN5, SA2, SA1 on VASP MMS Connectivity	T2-020038	LS in	Noted. No reply needed
N5-020163	LS copy from S5 to N5 : Comments on UP-010141 and relationship of GUP to Subscription Management	S5-020016	LS in	Noted. No reply needed
N5-020113	LS reply to SA3 (N5-020013/S3-010696) Security Framework	CN5	LS out	reply to 013
N5-020120	LS to SA1, SA2 (cc: SA5) on Clarification of requirements for the VHE	CN5	LS out	
N5-020134	LS to SA1, SA2 on Clarification of the OSA Stage 1 Journaling Requirements	CN5	LS out	
N5-020162	LS reply to SA3 LI (cc: SA1) (N5-020010/NP-010698) on Lawful Intercept related information in CN5 specifications	CN5	LS out	reply to 010, update of 110

Annex S: CN5 specifications

WG prime	Type	Number	Title	Release	current version	rapporteur
N5	TS	29.198	Open Service Architecture (OSI) Application Programming Interface (API) - Part 1	R99	3.4.0	MOERDIJK, Ard-Jan
N5	TR	29.998	Open Services Architecture API part 2	R99	3.2.0	MOERDIJK, Ard-Jan
N5	TS	29.198-01	Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview	Rel-4	4.3.0	MOERDIJK, Ard-Jan
N5	TS	29.198-02	Open Service Access (OSA) Application Programming Interface (API); Part 2: Common data	Rel-4	4.3.0	MOERDIJK, Ard-Jan
N5	TS	29.198-03	Open Service Access (OSA) Application Programming Interface (API); Part 3: Framework	Rel-4	4.3.0	BENNETT, Andrew
N5	TS	29.198-04	Open Service Access (OSA) Application Programming Interface (API); Part 4: Call control	Rel-4	4.2.0	BAKKER, John-Luc
N5	TS	29.198-05	Open Service Access (OSA) Application Programming Interface (API); Part 5: Generic user interaction	Rel-4	4.3.0	Mc QUILLAN, Laura
N5	TS	29.198-06	Open Service Access (OSA) Application Programming Interface (API); Part 6: Mobility	Rel-4	4.3.0	TWEEDIE, David
N5	TS	29.198-07	Open Service Access (OSA) Application Programming Interface (API); Part 7: Terminal capabilities	Rel-4	4.3.0	SAARENPAA, Matti
N5	TS	29.198-08	Open Service Access (OSA) Application Programming Interface (API); Part 8: Data session control	Rel-4	4.3.0	UNMEHOPA, Musa
N5	TS	29.198-11	Open Service Access (OSA) Application Programming Interface (API); Part 11: Account management	Rel-4	4.2.0	SCHILDERS, Koen
N5	TS	29.198-12	Open Service Access (OSA) Application Programming Interface (API); Part 12: Charging	Rel-4	4.2.0	SCHILDERS, Koen
N5	TR	29.998-01	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping	Rel-4	4.0.0	UNMEHOPA, Musa
N5	TR	29.998-04-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 1: API to CAP Mapping	Rel-4	4.2.0	UNMEHOPA, Musa
N5	TR	29.998-05-1	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 1: API to CAP Mapping	Rel-4	4.0.0	UNMEHOPA, Musa
N5	TR	29.998-05-4	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 4: API to SMS Mapping	Rel-4	4.0.0	UNMEHOPA, Musa
N5	TR	29.998-06	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 6: User Location – User Status Service Mapping to MAP	Rel-4	4.0.0	UNMEHOPA, Musa
N5	TR	29.998-08	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 8: Data Session Control Service Mapping to CAP	Rel-4	4.0.0	UNMEHOPA, Musa
N5	TS	29.198-13	Open Service Access (OSA) Application Programming Interface (API); Part 13: Policy Management SCF	Rel-5	0.0.1	UNMEHOPA, Musa
N5	TS	29.198-14	Open Service Access (OSA) Application Programming Interface (API); Part 13: Presence and Availability Management (PAM)	Rel-5	none	VENKATESH, Guda
N5	TR	29.998-04-4	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 4: Call Control Service Mapping; Subpart 4: Multiparty Call Control SIP	Rel-5	none	UNMEHOPA, Musa
N5	TR	29.998-05-2	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 2:	Rel-5	none	UNMEHOPA, Musa
N5	TR	29.998-05-3	Open Service Access (OSA) Application Programming Interface (API) Mapping for Open Service Access; Part 5: User Interaction Service Mapping; Subpart 3	Rel-5	none	UNMEHOPA, Musa