joint-API-group (Parlay, ETSI Project OSA, 3GPP TSG_CN WG5) **N5-020557**
Meeting #19, Montreal, CANADA, 8 – 12 July 2002

Source: **CN5 and SPAN12 OSA Chairmen**
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Title: **Draft report Meeting CN5#19, Montreal, CANADA, 8-12 July 2002**

Document for: **APPROVAL**

Agenda item	Agenda item title	Tdoc 3GPP N5-020	Title	Source	Result	
1	**Opening and approval agenda**				**Objective of this meeting: to finish Parlay 4, and then bring corresponding alignment to 3GPP CN plenary in September. What needs to be finished is mainly the security enhancements coming from the discussions started in SA3.**	
1.1	**IPR declarations**				The Chairman 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 Chairman invited the delegates to declare IPRs - relevant to the 3GPP - they are aware of and there were no declarations. The List of IPR declarations sorted by Organizational Partners can be found at: http://www.3gpp.org/PCG/IPR_declarations.htm	
		550	**Proposed agenda**	**N5 chairman**	**Revised to 623.**	
		623	**Revised agenda**	**N5 chairman**	**Approved.**	
2	**Allocation of documents**	**551**	**Document allocation**	**N5 chairman (Ard-Jan Moerdijk, Ericsson)**		
3	**Reporting**					

3.1	CN5/SPAN12/Parlay	327	Report CN5#18 Budapest	JWG chairs	Approved.	
3.2	3GPP CN plenary	697	Report CN5 to CN#16	N5 chairman (Ard-Jan Moerdijk, Ericsson)	Question: why was there one of our CRs withdrawn in the plenary? Answer: because it was duplicated.	
3.3	Parlay BoD and TAC meetings				• Backwards Compatibility (BC) discussion has been finalised, a presentation will be made tomorrow in the Parlay plenary. • Numbering scheme for our specs has also been discussed. • Parlay 3.2 was created by implementing the last changes. These changes only affected the Framework and CC, but Parlay wanted all documents re-issued so Ultan generated ETSI version 1.3.1, which is Parlay 3.2.	
3.4	3GPP-3GPP2 harmonisation related activities				Last 3GPP2 meeting an OSA sub WG (TSG-N OSA API WG) was created (proposed chair is Greg Schumacher (Schlumberger), vice-chair Roger Bunting (Lucent)); They will study how to work and may contact us for further activities. They will start in August. This group has a scope that includes also stages 1 and 2 of OSA. Other IMS activities: TSG-N intends to align as much as possible with 3GPP. There are lots of discussions ongoing with TAG-S, dealing with options like having just references to 3GPP specs or working on them. From the 3GPP side: last SA plenary decided not to do organised joint work, but to entrust member companies to ensure alignment.	
3.5	Other OSA related activities					
		611	Presentation for the Education Track, Parlay Member Meeting (Montreal, 8-12 July 2002)	Chelo Abarca (Alcatel)	Noted. This is the last version of this presentation. It will be made available to the Parlay, ETSI and 3GPP web pages, together with an introductory text. Chelo to do it next week.	
		612	Presentation of OSA Status to ETSI SPAN Plenary #8	Chelo Abarca (chair, Alcatel)	Noted.	
4	Liaison Statements					

		330	**LS from S1 to N5 : Response LS to SA3 on new security requirements for LCS**	**SA1**	**This LS still needs to be answered, see report CN5#18.** **Ard-Jan and Chelo will draft a response and send it for email approval next week.**	
		331	**LS back to SA1and SA3 on enhanced user privacy and new security requirements for LCS**	**SA2**	**This LS still needs to be answered, see report CN5#18.** **Ard-Jan and Chelo will draft a response and send it for email approval next week (could be together with the previous one).**	
		334	**LS-reply on Joint Meeting SA5/CN5/T2 on MMS charging**	**T2**	**This LS still needs to be answered, see report CN5#18.** **Proposal to have SA involved on how this WI will be handled, because interchanging LSs is slower.** **Reminder: all this is driven by the GSM Association – that is, operators are requesting something that happens to be feasible with our current functionality!** **Agreed that we're all interested in this cooperation, but need to make sure that the August meeting is the right next step. Agreed that the chairs will draft an LS to discuss with T2 and SA5 what is intended in this meeting and what is expected from us – if we believe this is the right meeting we'll send some experts, otherwise we'll organise something else.** **Musa, Ard-Jan and Chelo will draft this LS and send it for email approval next week.**	

		560	LS from S1 to N5 : Liaison Statement on OSA Journaling Function	SA1	Response to LS (N5-020134 (=S1-020670)) on Clarification of the OSA Stage 1 Journaling Requirements from CN5. SA1 agrees that the current text need to be modified before a stage 3 can be done, but they cannot do it for Rel5. Thus the Journalling requirement is removed from Rel5. SA1 is meeting this week as well, might be working on this. No need to answer. Noted.	
		562	LS copy from T2 to N5 : Service Operations Management	T2	Noted (see 334).	
		561	LS copy from S5 to N5 : Liaison Statement on MMS Connectivity	SA5	Noted (see 334).	
		563	LS copy from T2 to N5 : Liaison Statement Charging Support for VASP MMS Connectivity	T2	T2 responds the LS from SA5 on charging support for VAS MMS Connectivity Interface, and suggests parameters to be used for VASP charging CDRs. This is input for the August joint session. No need for us to do anything now. No actions for us.	
		610	Summary Of Email Discussions Between Joint Meetings #18 and #19	Chelo Abarca (chair, Alcatel)	All email discussions have resulted in approvals, except 592 (see later). All approvals are endorsed.	
5	Backward compatibility discussions					
		592	White Paper on Discovery and Backwards Compatibility	Andy Bennett (Lucent Technologies)	Presented in Budapest, agreed except that some sequence diagram updates were requested. The updates have been made, and the new version in 592 has been distributed for TAC and BoD approval, and approved. Then it has been incorporated into Anders' broader scope BC paper, and will be published in the Parlay public web. Approved.	
6	OSA version 1.1 / Rel. 4					

7	**OSA version 2 / Rel. 5**					
					672 through 689 are ETSI format drafts of Parlay 4, which will be updated after this meeting to create the final Parlay 4. They incorporate all CRs agreed in last meetings (including those approved by email), and thus are in line with 3GPP Rel5. The split in CC documents has been implemented as well. The WSDL attached to these documents has been updated as well to include the agreed CRs, and is therefore 100% in line with the IDL and the whole of the specs. **Parlay 3.x and Parlay 4.x will be maintained in parallel, this is why there are new ETSI numbers for these documents.** **Note that CCC is not included in 3GPP Rel5. MMCC has been added, but CCC will not be part of Rel5, and it hasn't been decided yet whether it will be part of Rel6.** **Discussion: when looking at Part 1, how can I know this is Parlay 4? It is written at the end of the Foreword section, but it may not be visible enough. Ultan has prepared some slides that explain the documentation and versions. Agreed that we should make these slides visible – a kind of read-me-first so that a potential reader could find the documents they need.** **This discussion will resume when discussing Ultan's slides in Tdoc 707.**	
		672	**1st Draft Parlay 4, ETSI ES 202 915-10**	**Ultan Mulligan, ETSI PTCC**	**Noted.**	
		673	**1st Draft Parlay 4, ETSI ES 202 915-2**	**Ultan Mulligan, ETSI PTCC**	**Noted.**	
		674	**1st Draft Parlay 4, ETSI ES 202 915-3**	**Ultan Mulligan, ETSI PTCC**	**Noted.**	
		675	**1st Draft Parlay 4, ETSI ES 202 915-4-1**	**Ultan Mulligan, ETSI PTCC**	**Noted.**	

		676	1st Draft Parlay 4, ETSI ES 202 915-4-2	Ultan Mulligan, ETSI PTCC	Noted.	
		677	1st Draft Parlay 4, ETSI ES 202 915-4-3	Ultan Mulligan, ETSI PTCC	Noted.	
		678	1st Draft Parlay 4, ETSI ES 202 915-4-4	Ultan Mulligan, ETSI PTCC	Noted.	
		679	1st Draft Parlay 4, ETSI ES 202 915-4-5	Ultan Mulligan, ETSI PTCC	Noted.	
		680	1st Draft Parlay 4, ETSI ES 202 915-5	Ultan Mulligan, ETSI PTCC	Noted.	
		681	1st Draft Parlay 4, ETSI ES 202 915-6	Ultan Mulligan, ETSI PTCC	Noted.	
		682	1st Draft Parlay 4, ETSI ES 202 915-7	Ultan Mulligan, ETSI PTCC	Noted.	
		683	1st Draft Parlay 4, ETSI ES 202 915-8	Ultan Mulligan, ETSI PTCC	Noted.	
		684	1st Draft Parlay 4, ETSI ES 202 915-9	Ultan Mulligan, ETSI PTCC	Noted.	
		685	1st Draft Parlay 4, ETSI ES 202 915-1	Ultan Mulligan, ETSI PTCC	Noted.	
		686	1st Draft Parlay 4, ETSI ES 202 915-11	Ultan Mulligan, ETSI PTCC	Noted.	
		687	1st Draft Parlay 4, ETSI ES 202 915-12	Ultan Mulligan, ETSI PTCC	Noted.	
		688	1st Draft Parlay 4, ETSI ES 202 915-13	Ultan Mulligan, ETSI PTCC	Noted.	
		689	1st Draft Parlay 4, ETSI ES 202 915-14	Ultan Mulligan, ETSI PTCC	Noted.	

		707	ETSI – Parlay – 3GPP correspondence.	Ultan Mulligan, ETSI PTCC	Slides that identify the alignment and differences between different ETSI, Parlay and 3GPP releases, including timeframe and documentation. Note that ETSI is publishing Parlay 4 as a different document, so Parlay 3 and 4 can be both maintained in parallel. The last slide summarises the approval process of the three bodies. This presentation has been presented to the Parlay BoD. It will be in the OSA part of the ETSI server once it has been overhauled. Parlay will be asked to make it available in the Parlay web as well. It will also be included in 3GPP.	
7.1	Framework (Framework Security)					
		582	29.198-03 Framework: Unclear how to sign the SLA.	Ericsson, Koen Schilders	Agreed to have the 3rd proposal (only use the agreement text for signing) Corresponding CR will be provided in 710	
		710			Not available in the meeting.	
		583	Unclear procedure for authentication	Ericsson, Koen Schilders	Withdrawn as we decided to leave the old mechanism untouched.	
		584	Clarify how and by what party the challenge should be Encrypted during the authentication process	Ericsson, Koen Schilders	It is pointed out that the order of encryption is now reversed. Suggestion to leave the deprecated authentication mechanism as it is. Withdrawn.	

		690	**CR 29.198-03 Rel-5 Correction to Authentication Process**	**Ultan Mulligan, ETSI PTCC**	**This contribution assumes that there are basically two authentication processes and they can be used in parallel. However, according to the STD there is a strict order.** **It is pointed out that developers usually follow the sequence diagram and don't look at the STDs. We should thus strive to keep the sequences as they are.** **Sequence initialAcces 6.1.1.2, step 7: Last sentence does not add anything as client may do what it wants. Will be updated.** **6.1.1.3 rephrase last part second sentence to "or the client and the FW recognises one other as a trusted party requiring no authentication."** **Step 2: should be changed to reflect the fact that underlying authentication can be done anywhere in the sequence, not just after requestAccess. Will be corrected in update.** **6.1.1.4, Step 3 : change the e.g. in i.e.** **authenticationSucceeded is missing as well in the sequence diagram. However, Seq Diag was based on previous version of spec. Should be ok now.** **It is pointed out that it should be described that the case when the FW decides it needs to authenticate the application first, even though the application started the authentication process, could happen as well. Agreed that this update will be added to 6.1.1.2 as well.** **Will abortAuthentication on the client lead to removal of the authentication session on the FW side. The method is to indicate that the FW wants to stop the authentication process as it can't respond now. It should not remove its authentication session.** **Exactly when should this method be invoked? Should the client wait when the FW returns the authenticate with rubbish till the abortAuthentication? Or should this method be first invoked and then the FW could return from the authenticate with rubbish?** **SelectEncryptionMethod: text stating that this needs to be invoked as first method on this IF will be removed as the discussion on how trusted parties should obtain access is not yet resolved. Also in the STD this should be corrected.**	

		695	**CR 29.198-03 Rel-5 Clarify the sequence of events in signing the service agreement**	**Ultan Mulligan, ETSI PTCC**	**Approved.**	
		696	**CR 29.198-03 Rel-5 Complete the introduction of initiateAuthenticationWithVersion**	**Ultan Mulligan, ETSI PTCC**	**Document N5-020467, agreed at the Budapest meeting, introduced the initiateAuthenticationWithVersion method, replacing initiateAuthentication(), which remains in the specification but will be removed at a later date. Numerous sequence diagrams and state transition diagrams refer to initiateAuthentication(), when now they should refer to initiateAuthenticationWithVersion(), as the first method for contacting the Framework.** **This contribution replaces references to initiateAuthentication() with initiateAuthenticationWithVersion() throughout the Trust and Security Management clause.** **The question is whether we should include deprecated methods in the STDs – it is different in for the sequence diagrams because they do not show the only possible, but a recommended sequence. Agreed that they're needed for the STDs, because the deprecated methods do result in state changes.** **Except the STDs, all changes in this contribution are included in 703, which has been updated to 708. This contribution is agreed, and the changes will be included in 708, which will now be the final authentication CR, containing the whole correction of the authentication process.**	

					The following three contributions are the result of the Security discussion which has taken place between SA3 and OSA experts. The discussion was kicked off by four contributions from Alcatel to SA3, that were presented in their Bristol meeting (25/2/2) which Musa and Chelo attended representing the Joint WG. These contributions identified a series of OSA Security issues, and in general more than one proposed solutions for each of them. SA3 discussed them and provided guidelines, indicating that they would be satisfied with any conclusion respecting them, as well as their interest in being informed of the outcome of this discussion in the JWG. **These contributions were presented than to our Sophia meeting as TDocs 202, 203, 204 and 205 from Sophia. The issues raised were the following:** • **202: lack of a negotiation mechanism for the authentication mechanism – API authentication was CHAP, which allows different mechanisms with MP5 as default, and we didn't have any mechanism to negotiate that.** • **Use of digital signatures for the terminateAccess method. No anti-replay protection (the solution for this is to include a time stamp** • **No negotiation of the algorithm used for the digital signature.** • **No mechanism to negotiate which digital signature hash function is used.** • **API level authentication: we're forced to use the MD5 algorithm, which is outdated; and we have no means to specify the use of another one.** • **The format of the challenge in the CHAP mechanism and whether it needs to be encrypted was left open.** **After Sophia they were discussed off line by email, in order to chose, among the proposed solutions, those with the maximum backwards compatibility, and refine them. The conclusion of this email discussion is included in the next three CRs.**	

		700	**CR 29.198-03 Rel-5 Add selectAuthenticationMechanism**	**Chelo Abarca, Alcatel; Ultan Mulligan, ETSI**	**This contribution proposes to add a mechanism for negotiation of the authentication mechanism for the API level authentication – so far only CHAP MD5 authentication hash function can be used, and there is no way to have a negotiation.** **In today's Fw only CHAP can be used for API level authentication; CHAP requires support of MD5 and allows others, but no other was listed in RFC 1994. However, since RFC 1994 was issued, newer, more secure, hashing algorithms have been made available. A mechanism needs to be added to the API to permit negotiation of the hashing algorithm used, in order to take advantage of these newer algorithms.** **The solution proposed in this contribution is** • **To add selectAuthenticationMechanism() to IpAPILevelAuthentication interface to permit the client to offer a choice of mechanisms to the Framework;** • **To add extensible types TpAuthMechanism and TpAuthMechanismList to contain the choice of authentication mechanisms (in line with the data types for encryption types);** • **To add an exception in case no acceptable mechanism is available to the Framework.** • **To add the requirement that his method shall be invoked by the client when it receives the interface reference to IpAPILevelAuthentication from the Framework, since until this method is invoked, authentication challenges by the Framework or the client might not be possible.** **STDs have not yet been changed (there is another, disjoint contribution that proposes to clean them up). They will have to be.** **A: What happens if the Fw does not support any of the mechanisms proposed?** **A: MD5 has to be supported but since it is outdated and has security flaws the Fw may choose not to accept it, so there is no default, always-accepted mechanism. Agreed that this will be written explicitly in 6.1.1.4.** **TDocs 564-567 are the RFCs mentioned in TpAuthenticationMechanism, provided to this meeting as reference documents.**	

		699	**CR 29.198-03 Rel-5 Authentication Challenge Format**	**Chelo Abarca, Alcatel; Ultan Mulligan, ETSI**	**OSA API level authentication relies on CHAP, which has a specific challenge format; besides we've said in the spec that this challenge has to be encrypted. This contribution proposes to change the parameters in the authenticate() method so that it is clear that the challenge is formatted according to section 4.1 of RFC 1994. In TpEncryptionCapability the padding algorithm to be used per encryption capability is specified in the text.** **It is noted that SA3 already remarked that encrypting the challenge was not necessary, and that t involved extra management. But we chose to leave it as it was for backwards compatibility reasons. Now based on the discussion in 700, we don't need to encrypt the challenge for the new mechanism, and for the old one we don't need the proposed changes in the text since they're motivated by interoperability and anyway interoperability can only be achieved with the new mechanism.** **Agreed that the contribution will be updated: for the old mechanism no changes will be done in the description of the authenticate() parameters; for the new one, for challenge(), only the first proposed paragraph for the challenge parameter, and the text proposed for the return parameter, will be kept. No text related to encryption will remain. The text will also be revised so that it does not seem as if CHAP is used.** **Revised into 703, together with 700.**	
		703			**Combined update of 699 and 700.** **The sequence for trusted parties is left untouched, except that the method name initiateAuthenticationWithVersion is now seen in sequence.** **The rest of the updates during discussions of 699 and 700 are captured.** **Changes approved. The trusted case will be removed and 703 will be updated into 708.**	

		708			**This contribution combines 690, 696 and 703, and it represents a complete update to the authentication mechanism. To be noted:** - **The case of access of trusted parties has been deleted, because on what grounds it is decided that there are trusted? All is based in the spec on the domainID, which is not secure.** - **Initial access sequence diagram, item 5: some text that was in the method description has been added to the sequence diagram.** - **Item 7: sentence added as agreed.** - **All references to the domainID have been removed.** - **There are now four IpAPILevelAuthentication STDs because now the existing and the new authentication mechanisms are described.** **Chelo to send it for email approval on Monday, to be approved next week.**	

		701	**CR 29.198-03 Rel-5 Protection of terminateAccess and endAccess methods**	**Chelo Abarca, Alcatel; Ultan Mulligan, ETSI**	**Digital signatures are used in OSA for the signing of service agreements. They are also used for the termination of service agreements, and for the Framework's termination of the client's access session. But they are not used for other methods which result in termination of service agreements: those invoked by a client which terminate a client's access session with the Framework. This is a potential security hole, offering a means to perform denial of service attacks.** **There is no negotiation mechanism in the API to enable negotiation of the signing algorithms – it has to be done off-line. The choice of signing algorithms is restricted and should be extended with newer choices. This contribution proposes a mechanism that is similar to the one used or negotiating authentication mechanism.** **Other changes in this contributions are:** • **A correct digital signature has been added to IpClientAccess.terminateAccess(), including replay protection. Also, the functionality has been extended to close also all service instances associated with the access session.** • **TpSigningAlgorithm has been extended with state of the art signing algorithms.** • **IpAccess.endAccess replaced with terminateAccess for the following reasons: to add digital signature for security, to prevent denial of service attacks on this unprotected method, and to remove the endAccessProperties (which were undefined, but without which the method would throw an exception). This removes the possibility to leave service instances open following close of Framework access session, which was a further security hole.** • **IpAccess.releaseInterface() has been replaced with relinquishInterface(), to add digital signature parameters for security, to prevent denial of service attacks on this unprotected method.** **Comment: for TpSigningAlgorithm, the new values have dash instead of underscores like the existing ones. Agreed that this will be changed. Updated to 704.** **In IpClientAccess, in terminateAccess(), the signing algorithm has been left as a parameter, even if it is not necessary now (with the mechanism proposed it becomes redundant), for BC reasons.**	

		704			**Update of 701, where all was agreed except dashes/underscores in a name in a data type.** **Agreed.**	
		705			**Sequence diagrams were added as a result of the discussion of 701.** **Chelo will put this in email approval for next week.**	
		580	**Add a Service Property for invoking a method on the SCS from a callback method**	**Ericsson, Koen Schilders**	**Question whether finding out if this is supported or not via the Service Properties is too late as the application code is already written.** **Agreed to have this issue resolved via text in introduction part, see contribution 581.**	
		604	**Introduce types and modes for generic properties**	**Ericsson, Koen Schilders**	**Suggestion that if you provide or don't put in a value the Operation Set it could mean that all methods on all interfaces are supported.** **Supported interfaces could be used to indicate that all methods on an IF are supported. As this might lead to conflicting values between this property and the Operation Set the suggestion is not agreed.** **The Mode should be linked to the data-type that is used for this.** **Should product name and product version be Mandatory? Agreed to make them READ_ONLY.** **Pointed out that when properties are specified in XML it would be much more safe** **Deleted properties should be deprecated. And changed properties should be renamed.** **Updated to 712.**	
		712			**Comment that he Mode should be linked to the data-type that is used for this not captured.** **Updated to 741**	
		741			**Not available in the meeting.**	

		595	**Interface Changes for Keeping Subscription Information Consistent**	**FTW (Ivan Gojmerac, Klaus Umschaden)**	**This contribution addresses the EntOp interfaces, where the client application may be assigned to a service only through a single service profile at a particular moment in time. (It may actually be assigned through any number of non-concurrent service profiles.) This condition may be violated when performing addSAGMembers() and assign() method calls. Exception messages, which are used with these method calls are not well suited for standardized communication between the enterprise operator and the framework. For ensuring full interoperability between different enterprise operators and different frameworks, it is necessary to communicate the reason of the exception in a clear and structured manner.** **This issue was addressed by FTW in the last two meetings. Last meeting they proposed the solution to add exceptions, and a field to the exceptions with the reason. The new exceptions were agreed but not the field proposal, an instead a new solution was agreed that is implemented in this contribution (except for the data types and exceptions, which were provided last meeting).** **Approved.**	
		606	**Remove undefined exception in registerService**	**Ericsson, Koen Schilders**	**Approved.**	

		607	**Add possibility for re-obtaining the reference to the service manager**	**Ericsson, Koen Schilders**	**How can the FW recognise it is an application that was there before?** **How can the application re-install callbacks when it crashed? A number of alternatives are indicated in the proposal.** **Aren't we putting requirements on applications to store information about a previous session? In that case we should specify it.** **Pointed out that more of this mechanism should be specified as it is currently not stated what the Service manager should do.** **Not clear what is meant by a crash. Is all this really needed?** **Further off-line discussions needed.**	

		609	**Add re-registration for an SCF to update property values**	**Ericsson, Koen Schilders**	**In the backwards compatibility white paper it is described that the backwards compatible changes can be handled by one SCF instance. This CR describes how the SCF can indicate to the framework which version of the API it supports, and how can an SCF re-register after a restart. Changes are proposed to allow the re-registration in method and STD, and to describe its relation to backwards compatible upgrades in the text.** **Comment: for an upgrade, it can be done with a re-registration, and applications will be informed that there is a new version with event notification.** **Q: how does the framework know that the same serviceID need to be returned?** **A: it will return the same serviceID always if the new set of properties is a superset of the previous one.** **Q: how is a superset defined?** **A: the new range should at least contain the old range, etc.** **Discussion on the relevance of this mechanism for the case when there is a crash: there is no need to re-register a service just because an instance has crashed; and if the crash is so severe that even the registration is lost, then the serviceID is lost too and there is no point in re-registering.** **The meeting agrees that this contribution does identify some issues that need to be solved, but that more work needs to be done on this subject.** **Not approved.**	
		613	**Correction on use of NULL in Framework API**	**AePONA**	**As OMG IDL does not support NULL as a valid value for a data type updates in FaultManagement are needed. Agreed to change in the wording “zero length value” to “empty string”.** **Updated to 711.**	
		711		**AePONA**	**Approved as a Rel4 CR. 751 will be the corresponding Rel5 CR.**	

		691	**CR 29.198-03 Rel-5 Remove ServiceIDs from IpFwFaultManager.genFaultStatsRecordReq()**	**Ultan Mulligan, ETSI PTCC**	**genFaultStatsRecordReq on IpSvcFaultManager and genFaultStatsRecordRes/Err on IpFwFaultManager contain parameter serviceIDs : TpServiceIDList. But these interfaces are between an instance of a service and the framework. It seems strange that the framework should request a service instance to record fault statistics for other service instances - this implies a dependency, not between service instances, but between different services (the parameter is not of type TpServiceInstanceID).** **Clearly, this parameter is a left-over from similar methods on the FW-Application interfaces. However, it is indicated that this parameter shall not be an empty list, and it is not described what might occur if the serviceID packed into this parameter, to prevent it being empty, did not correspond to the serviceID associated with the service instance which invokes these methods (genFaultStatsRecordRes/Err) or on which this method (genFaultStatsRecordReq) is invoked.** **These methods cannot ever operate as described, therefore they should be corrected. This requires deprecation of the existing methods and their replacement by generateFaultStatsRecordReq/Res/Err.** **This contribution proposes to** • **Deprecate IpSvcFaultManager.genFaultStatsRecordReq() and add a similar new method generateFaultStatsRecordReq() without the serviceIDs parameter.** • **Deprecate IpFwFaultManager.genFaultStatsRecordRes/Err() and add similar new methods generateFaultStatsRecordRes/Err() without the serviceIDs parameter.** **Approved (as a CR for Rel5).**	

		692	**CR 29.198-03 Rel-5 Correct appUnavailableInd and related methods**	**Ultan Mulligan, ETSI PTCC**	**Currently, the appUnavailableInd and svcUnavailableInd methods on IpFaultManager, IpAppFaultManager, IpFWFaultManager and IpSvcFaultManager all imply that the application or service instance is broken, can't be fixed, and is to be killed. However, what when there is just a temporary out of service?** **The proposal is to remove the requirement that service agreements be terminated and deprecate the IpFaultManager.appUnavailableInd() as this method is redundant with the terminateServiceAgreement.** **It was pointed out that application might e.g. for upgrade purposes use the appUnavailable to indicate that the service should not invoke the application. However, this use is not within the scope of current method description as there it is said that the agreement is terminated. There is also no method to indicate the application is "back" again.** **Anders will provide a contribution for this kind of functionality (706).** **It is pointed out that the STDs should also be updated, however, the method still exists, so this should be done when the method is actually removed in later release.** **Approved.**	

		706	**Adding the appAvailStatusInd method allowing the Applications reporting the available status**	**Incomit AB (Anders Lundqvist)**	**The client application had a method to report that the application is unavailable, i.e. appUnavailableInd() in the IpFaultManager interface. This method is deprecated in the N5-020692 CR because it lacks the possibility to inform the framework and service why the application is unavailable as well as report when the application is available again. This contribution adds a new method in the IpFaultManager called appAvailStatusInd with a new parameter reason of type TpAppAvailStatusReason containing the reason to become unavailable or that the application becomes available again.** **Comment on the data type TpSvcUnavailReason: it talks about "irrevocable" failures, and this would mean termination of the service agreement would be triggered by an unprotected method. Agreed, it will be removed but some text will describe the severity of the failure.** **With this and other comments, will be updated to 728.**	
		728			**Update of 706.** **Comment: there is a copy and paste problem in 10.4.9, where the name of the new data type should be TpSvcAvailReason.** **Comment: in IpFaultManager, in the proposed new method appAvailStatusInd, there is no need for the serviceID; agreed to delete it.** **Updated to 752.**	
		752			**Update of 728.** **Not available in the meeting.**	
		693	**CR 29.198-03 Rel-5 Remove unusable exception from IpFaultManager.appActivityTestRes()**	**Ultan Mulligan, ETSI PTCC**	**The method IpFaultManager.appActivityTestRes() has exception P_INVALID_SERVICE_ID, yet there is no parameter containing a Service ID, and no reason to raise this exception. Removing this exception simplifies life slightly for application developers, since they don't have to include code to trap an exception that will never occur.** **Approved.**	

		694	CR 29.198-03 Rel-5 Remove unusable exceptions from IpFwServiceRegistration.registerService()	Ultan Mulligan, ETSI PTCC	Withdrawn (this change was already approved when discussing 606).	
7.2	Call Control					
7.2.1	3GPP IMS related Call Control					
7.2.2	Other Call Control issues					
		605	Correction of error in Call Forward on Busy sequence diagram	Ericsson, Koen Schilders	In the sequence diagram for Call Forward on Busy the text says that the B-leg is continued, but the sequence shows the A-leg being continued. This contribution proposes to change the sequence to conform to the text. Comment: some changes need to be made in the text as well. Need off-line discussions. Discussion continues: the text should be in step 25, unfortunately the number of the step was deleted as well. Approved.	

		608	**Correct inconsistencies in IpCallLeg state transition diagrams**	**Ericsson, Erik van der Velden**	**In the descriptions of the state transition diagrams some inconsistencies and unclarities are found.** **Comment on Note1: "terminating" is used ambiguously. Agreed it will be changed to "release".** **Comment: the text is not correct according to the Call Control leg model we have. There is a mixed up between the originating and terminating BCSN, and the API level leg model. It seems to say that termination of the terminating leg is visible because the originating one disappeared. It this is not visible to the application. Agreed to re-write the note differently, something like "Although events coming from a specific party will always be tied to the callLeg related to that party, these events may lead to transitions on STDs from other callLegs"** **Comment: item 4, it is not clear if the proposed new text is true (do we always need continued processing?).** **Other changes agreed and incorporated online in the meeting.** **To be updated to 754 and approved by email.**	

		622	**Adding explicit indication on who's behalf application will control the call**	**Ericsson, Ard-Jan Moerdijk**	**This contribution originated from the problem of triggering criteria overlapping in the MPCC. When studying this problem another one was identified: the data type TpNotificationCallType that used to be included in GCC was removed in MPCC (because it was believed that events would be sufficient). This was the reason behind the problem above, but it also resulted in another problem: there is no way to indicate on whose behalf the application will control the call.** **This contribution proposes the following alternative solutions:** • **To re-introduce the data type TpNotificationCallType. This is a non backwards compatibility change.** • **To add an indication in the TpCallMonitorMode** • **To add additional event types** • **To add a notification type to create and change notification.** **For BC reasons and in order to keep the similarity between GCC and MPCC, the contribution expresses a preference for having an explicit indication of the side of the call the application is controlling (that is, the second proposed solution). This preferred solution is implemented in the CRs in 620 and 621.** **Comment: TpCallMonitorMode is a common type between GCC and MPCC. There is some text in 620 explaining how to address this.** **Comments: this turns the MPCC call model into the IN half call model, while we wanted to abstract that model to make it easier to use by developers – they wouldn't need to know where in the network the application was being triggered. On the other hand the only way to keep the model simple is to adopt the solution that breaks backwards compatibility.** **Conclusion: the corrections proposed in this contribution will not be implemented. There is a need for an appendix mentioning how the mapping could be done, and that there are ambiguities. There is also a need to add text saying that createNotification does not lead to automatic set of triggers in the network.**	

		620	**Adding explicit indication on who's behalf application will control the call**	**Ericsson, Ard-Jan Moerdijk**	**Will be updated according to the discussion in 622.** **Update is 737.**	
		737			**Update of 620.** **Discussion: is this text too specific for the IN half-call model, or is it also valid for the SIP whole call model?** **Ard-Jan to send it on Monday for email discussion, deadline end of the week.**	
		621	**Correction of the overlapping criteria definition**	**Ericsson, Ard-Jan Moerdijk**	**According to the discussion in 622, this contribution presents a proposal to align the definition of overlapping criteria in MPCC with the definition in GCC.** **Ultan and Ard-Jan will re-work this contribution.**	
		624	**Correct description of IpCallControlManager.enableCallNotification()**	**ETSI STF 211 (Jerome Hatton)**	**In the description of IpCallControlManager.enableCallNotification() the exception P_GCCS_INVALID_CRITERIA was found, but this exception does not exist. This contribution proposes to change this name to P_INVALID_CRITERIA.** **Will be part of an error log (see discussion in 625).**	

		625	**CR 29.198-04 Rel-5 Correct the description of getCrietria() in GCC**	**ETSI STF 211 (Jerome Hatton)**	**In the description of IpCallControlManager.getCriteria() the result is described as a single Event Criteria data type, but in fact the method returns a list of Event Criteria. The description of the return parameter is in fact copied from another method and doesn't really relate to or describe this return parameter. This contribution proposes to correct the description of the result of IpCallControlManager.getCriteria() to indicate it is a list of event Criteria which is returned, and to correctly describe the contents of this return parameter.** **Comment: GCC is now an independent part, and we agreed not to maintain it. On the other hand, if we decide to maintain it, since it seems that it is being implemented (from the feedback we get), then we should do it as we maintain everything: only correcting essential errors. A solution would be to put it in an error log, though there is no agreement in the meeting on what is the purpose of the error log: either to record errors we'll never correct, or to record errors we may correct later.** **Conclusion: to be put in an error log, with the idea to implement the changes in Rel6.**	
		596	**New methods for floor control in CCC**	**Ericsson**	**Withdrawn.**	

		735	Rel-5 (OSA2) draft 29.198-4-3 ADD TpCarrier to routeReq	Telcordia (John-Luc Bakker)	The Parlay Emergency Telecommunications Service (ETS)Working Group is chartered to ETS enable the APIs governed by Parlay Working Groups or the Joint API Group. This contribution is the second in a series that seek to ETS enable these APIs. This contribution is to add support to include multiple carriers. The proposal would allow straight mapping to corresponding parameter in CAP CONNECT operation. Pointed out that in IN there have been problems with the definition of carrier field as in Europe and US the fields are different. There is a format defined that works with both solutions, however it might still be a different format in the rest of the world. ITU CS3 might have the correct definition that supports this for at least US and Europe. At least references to appropriate encodings should be included. The proposal is also not backward compatible between Parlay 3.2 and Parlay 4. Suggestion to have the information in TpCallAppInfo. In that case the solution is backward compatible as it would lead to addition in union type. Suggestion to make description of the CarrierSelectionField a bit higher level. However, developers using this field will already know about this specific functionality. Updated to 736, will be provided via e-mail next monday so we can approve it on friday.	
		736			Update of 735, to be discussed by email.	
7.3	Policy Management					
7.4	Presence and Availability Management					
7.5	WSDL/SOAP/XML APIs					

		597	Addition to ObjectRef description in WSDL Mapping Rules	Nortel Networks, Lucent Technologies	Update to WSDL mapping rules, mainly errors found due to testing with different tools. With contributions 597-603 the WSDL version of the interface is stable and tested against different tools. As David can not take up the responsibility for maintaining the WSDL anymore at the moment discussions are ongoing on who can take it over. Ultan and Joe McIntyre are taking this up most likely. Approved.	
		598	Addition of sequence tag to Choice types.	Nortel Networks, Lucent Technologies	Approved.	
		599	Replace all occurrences of the xsd:anyURI type to xsd:string	Nortel Networks, Lucent Technologies	Approved.	
		600	Correction to Namespace mapping in WSDL Mapping Rules	Nortel Networks, Lucent Technologies	Approved.	
		601	Correction to xmlns:wsdl Namespace	Nortel Networks, Lucent Technologies	Approved.	
		602	Prepend class name to <message> name	Nortel Networks, Lucent Technologies	Approved.	
		603	Correction to void return types in WSDL Mapping Rules	Nortel Networks, Lucent Technologies	Approved.	
7.6	Other APIs					
7.6.1	Content Based Charging					
7.6.2	Terminal Capabilities					
7.6.3	Others					

		581	**Add general introduction to the OSA APIs in Part 1**	**Ericsson, Koen Schilders**	**Suggestion to add text that in case of single threaded SCS a time-out mechanism should prevent complete deadlock.** **Comments:** • **7.9 TpGeneralException should be TpCommonExceptions that contains also the additional TpString information field.** • **Suggestion to indicate that the text is for information purposes and not normative. However, most of the description is about patterns we always apply.** • **First bullet point 7.1: All interfaces are named Ip. Should be changed.** • **7.2 Service Instance is not yet defined overhere. Factory pattern should be explained as one of the first sections.** • **7.4 Change Most to Some, Callback mechansim is not used in the Framework. It should be added how to obtain callbacks in the FW.** • **7.5 Identify which exception is thrown (2x).** • **7.6, second paragraph. Change in most cases to "In other cases". third paragraph: asynchronous pattern also applies when there is no communication with network: Make it more general.** • **7.8 change to "Exception hierarchy" and remove first 2 paragraphs.** • **7.9 TpGeneralException should be TpCommonExceptions, and statement is not true as we don't have exceptions on application side. Should be covered.** • **7.10 2nd sentence in 2nd paragraph: correct wording.** • **7.11 State in beginning of section that in general these mechanisms are implied.** • **7.12 correct application misspelling, make 2nd paragraph start with "A" (A deadlock can occur ...), Suggestion to remove this section and add a statement in the description on asynchronous methods that deadlocks may occur.** **Updated to 740,will be provided via e-mail next monday so we can approve it on friday**	
		740				

		585	**Add missing CORBA realization rules in Part 1**	**Ericsson, Koen Schilders**	**TpGeneralException should be TpCommonExceptions that contains also the additional TpString information field.** **Rest of changes are agreed.** **Updated to 738**	
		738			**Not available in the meeting.**	
		586	**Add missing callback interface for notifications in Account Management**	**Ericsson, Koen Schilders**	**Dependent on 702. Do we want account management notification mechanism to be the same as the other APIs?.** **Needs to be updated as parameter definition is missing. Postponed till discussion on 702.** **Final conclusion: withdrawn.**	
		587	**Clarify what callback the SCS shall use when setCallback() is used in reportNotification()**	**Ericsson, Koen Schilders**	**The proposal is only part of the total solution and is also quite difficult worded.** **A complete solution is needed for all of the parts.** **Needs further discussion.**	
		588	**Clarify what callback the SCS shall use when setCallback() is used in reportNotification()**	**Ericsson, Koen Schilders**	**Needs further discussion.**	
		589	**Clarify what callback the SCS shall use when setCallback() is used in reportNotification()**	**Ericsson, Koen Schilders**	**Needs further discussion.**	

		614	**Correction on description of TpTimeInterval**	**AePONA**	**CR to the Common Data section corresponding to 613: an unspecified or undefined TpTimeInterval value is used to indicate that the time interval is at the discretion of the interface in question. Clear indication is required in order to specify how and unspecified time interval shall be defined. This contribution proposes to state both start time and end time as empty strings; thus an unspecified time interval is clearly defined.**
					
					This CR is proposed for Rel5 and Rel4.
					
					Approved, will be cleaned and then will be a CR for Rel4; 745 will be the corresponding CR for Rel5.
					
					General discussion: what do we want Parlay 3.3 to be: only essential corrections, or do we include as well all clarifications we have in Parlay 4, so there is no need to read Parlay 4 in order to understand how Parlay 3 works? For the plenary: these clarifications are NOT editorial, but they're key for interoperability support.
					
					Recommendation from the JWG:
					• **To have a release schedule**
					  • **Release only the parts that have been changed**
					  • **Releases only every six months**
					• **Parlay 4.1 aligned with Parlay 3.3**
					These recommendations will be written in a more complete way by the JWG officials, presented in next TAC audioconference, and then presented to the BoD.	

		615	**Correction on use of NULL in Call Control API**	**AePONA**	**CR to Call Control from the same family as 613: occurrences of the use of NULL as a valid setting for Call Control API parameters have been replaced; use of null for structs TpCall*Identifier modified to define appropriate behaviour in NOTIFY mode.** **Discussion on change in callEventNotify in IpAppCallControlManager: what we want to avoid in the behaviour is that there is a call object in the SCS that gets changed. New text needed. 746 will be the Rel4 CR, and 747 the Rel5 CR.**	
		746				
		747				

		616	**Correction on use of NULL in User Interaction API**	**AePONA**	**CR to UI from the same family as 613: TpUICollectCriteria data definition has been corrected to use an empty string rather than NULL, in description for field, EndSequence.** **Approved as a CR for Rel4; 748 will be the corresponding CR for Rel5.**	
		748				
		617	**Correction on use of NULL in Data Session Control API**	**AePONA**	**CR to Data Session Control from the same family as 613: the use of null for dataSessionReference parameter in reportNotification method has been modified to define appropriate behaviour in NOTIFY mode.** **Approved as a CR for Rel4; 749 will be the corresponding CR for Rel5.**	
		749				
		618	**Correction on use of NULL in Generic Messaging API**	**AePONA**	**Change to Generic Messaging from the same family as 613. This one is not a CR since Generic Messaging is not part of the 3GPP spec.** **Approved. Following the same procedure this will be changed both in Parlay 3 and 4.**	
		619	**Correction to TpUIInfo data type to support binary data for SMS services**	**AePONA**	**The User Interaction is currently supported with mappings to MAP/CAP, including support for SMS delivery. Current SMS can support binary mode, whereas the existing API cannot be used to supply this data. This contribution proposes to correct the definition of TpUIInfo to include support for binary data.** **The change proposed in BC – it is an extension of an enumerated data type (not a struct).** **Approved as a CR for Rel4; 750 will be the corresponding CR for Rel5.**	
		750				

		626	Remove all parameter error and network error sequence diagrams from User Location Emergency	ETSI STF 211 (Jerome Hatton)	Proposal to remove sequences that show general exception and error mechanisms in the User Location Emergency. This part is specifically for the ETSI /Parlay spec; 627 is the corresponding correction for the 3GPP/ETSI/Parlay specs. Approved	
		627	CR 29.198-06 Rel-5 Remove all parameter error and network error sequence diagrams	ETSI STF 211 (Jerome Hatton)	Approved.	
		628	CR 29.198-06 Rel-5 Removal of unnecessary exceptions	ETSI STF 211 (Jerome Hatton)	At the moment there are two mechanisms to report the fact that a subscriber is not known: an immediate exception and an Err method. The latter would always work and the idea is to make life easier for developers by allowing only one mechanism Approved.	
		629	CR 29.198-06 Rel-5 Remove unusable exceptions from IpUserLocationCamel.periodicLocationReportingStartReq()	ETSI STF 211 (Jerome Hatton)	Proposal to remove redundant exceptions. An alternative is proposed in 630, where the proposal is to describe that the exceptions will never be raised. Approved, therefore 630 is withdrawn.	
		630	CR 29.198-06 Rel-5 Add text to forbid unusable exceptions from IpUserLocationCamel.periodicLocationReportingStartReq()	ETSI STF 211 (Jerome Hatton)	Withdrawn.	
		631	CR 29.198-08 Rel-5 Correct the result type of IpDataSessionControlManager.getNotification()	ETSI STF 211 (Jerome Hatton)	631 and 632 are two alternatives. 632 is Backward compatible while 631 leads to level 3 BC 'violation'. In principle this is also applicable for Parlay 3. As having been the editor for the DSC part, Musa recalls that this error has been corrected before. However, it is in the specs now and needs to be corrected. Question why the assignmentID parameter is of type TpInt in stead of TpAssignmentID. Agreed. Withdrawn and 632 will be updated.	

		632	CR 29.198-08 Rel-5 Introduce new method getNotifications	ETSI STF 211 (Jerome Hatton)	See 631, updated to 713 (Rel.4) and 714 (Rel.5). Discussion on whether and how we should put in the clarification text that has been agreed with other contributions in this meeting. Concern that there might not be enough resources to produce new specs in conjunction with the 3GPP releases. Further off-line discussion needed on how we want to proceed with this.	
		713			Update of 632. Approved.	
		714			Update of 632. Approved.	
		633	CR 29.198-08 Rel-5 Remove duplicate exception from IpDataSessionControlManager.createNotification	ETSI STF 211 (Jerome Hatton)	Approved.	
		634	CR 29.198-08 Rel-5 Add P_INVALID_INTERFACE_TYPE exception to IpDataSessionControlManager.createNotification()	ETSI STF 211 (Jerome Hatton)	A BC way could be to use the P_INVALID_PARAMETER exception. However, this exception is used when the data-type is wrong. Another alternative is to deprecate the method and have a more BC solution. This alternative is agreed and 634 will be updated. As this is not an essential error correction (the error could be reported by using TASK_REFUSED) it will only be corrected in Rel.5 Updated to 715.	
		715			Update of 634. Approved.	
		635	CR 29.198-08 Rel-5 Remove P_SERVICE_INFORMATION_MISSING and P_SERVICE_FAULT_ENCOUNTERED exceptions fromDataSessionControl methods.	ETSI STF 211 (Jerome Hatton)	Approved.	

		636	CR 29.198-03 Rel-5 Addition of status of methods to interfaces in clause 6.3	ETSI STF211 (Peter Schmitting)	See 662 for the motivation for this CR. This contribution proposes compliance statements for the Access Interfaces. Seems that Initial is missing. Comment: for IpClientAPILevelAuthentication, the meeting agrees that abortAuthentication is not mandatory. The rest are agreed.	
		637	CR 29.198-03 Rel-5 Addition of status of methods to interfaces in clause 7.3	ETSI STF211 (Peter Schmitting)	See 662 for the motivation for this CR.	
		638	CR 29.198-03 Rel-5 Addition of status of methods to interfaces in clause 8.3	ETSI STF211 (Peter Schmitting)	See 662 for the motivation for this CR.	
		639	CR 29.198-04 Rel-5 Addition of status of methods to GCC interfaces	ETSI STF211 (Peter Schmitting)	See 662 for the motivation for this CR.	
		640	CR 29.198-04 Rel-5 Addition of status of methods to MPCC interfaces	ETSI STF211 (Peter Schmitting)	See 662 for the motivation for this CR. This contribution is presented in order to show what these compliance statements intend. The meeting decides to continue this discussion by means of audioconferences. Ultan will organise them. The first, for the Framework, will take place on Thursday July 25th. Chelo will send out a call, to attract other participants, and to figure out where participants will be calling from in order to decide at what time it should be. It is suggested to use Parlay X as a guide for this.	
		641	CR 29.198-04 Rel-5 Addition of status of methods to MMCC interfaces	ETSI STF211 (Peter Schmitting)	See 662 for the motivation for this CR.	
		642	Addition of status of methods to CCC interfaces	ETSI STF211 (Peter Schmitting)	See 662 for the motivation for this CR.	

		643	**CR 29.198-05 Rel-5 Addition of status of methods to UI interfaces**	**ETSI STF211 (Peter Schmitting)**	**See 662 for the motivation for this CR.**	
		644	**CR 29.198-06 Rel-5 Addition of status of methods to Mobility interfaces**	**ETSI STF211 (Peter Schmitting)**	**See 662 for the motivation for this CR.**	
		645	**CR 29.198-07 Rel-5 Addition of status of methods to Term Caps interfaces**	**ETSI STF211 (Peter Schmitting)**	**See 662 for the motivation for this CR.**	
		646	**CR 29.198-08 Rel-5 Addition of status of methods to DSC interfaces**	**ETSI STF211 (Peter Schmitting)**	**See 662 for the motivation for this CR.**	
		647	**Addition of status of methods to GMS interfaces**	**ETSI STF211 (Peter Schmitting)**	**See 662 for the motivation for this CR.**	
		648	**CR 29.198-11 Rel-5 Addition of status of methods to AM interfaces**	**ETSI STF211 (Peter Schmitting)**	**See 662 for the motivation for this CR.**	
		649	**CR 29.198-12 Rel-5 Addition of status of methods to Charging interfaces**	**ETSI STF211 (Peter Schmitting)**	**See 662 for the motivation for this CR.**	

		650	**CR 29.198-03 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**650 through 661 all deal with the same issue, for different spec parts: It is not clear in the OSA Specifications what exactly is meant by support of a method: is it sufficient to include such code as to respond correctly to a method invocation with the exception P_METHOD_NOT_SUPPORTED, or is it required to support the functionality described and defined by the method? These contributions propose to add text to clause 4 to indicate that support or implementation of a method requires that the functionality of the method be supported or implemented.** **Proposal to go even further, and say that for methods with several parameters that may take several values, we should say that all mandatory parameters should support the functionality for at least one of the possible values. This would mean that there is no requirement to support every value. Agreed.** **Contributions 650 through 661 agreed with this update. Will be revised into 716 through 727.**	
		651	**CR 29.198-04 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		652	**CR 29.198-05 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		653	**CR 29.198-06 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		654	**CR 29.198-07 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		655	**CR 29.198-08 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	

		656	**Add text to Part 9 to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		657	**Add text to Part 10 to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		658	**CR 29.198-11 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		659	**CR 29.198-12 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		660	**CR 29.198-13 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		661	**CR 29.198-14 Rel-5 Add text to clarify requirements on support of methods**	**Ultan Mulligan, ETSI**	**See 650.**	
		716-727			**Updates of 650 through 661.** **Approved.**	

		662	Draft OSA API ICS Document	ETSI STF 211	This document is a template statement of what the gateway has to support. Initially it was based on the functionality of Parlay 3, but it was found out that nothing was written about what is required, and even different people would have different opinions about this. Since a PICS should not impose a requirement that is not in the spec, it was found that it is necessary to write in the specs statements that say what is mandatory and what is optional. This has resulted in the CRs 636-649 above. It is questioned whether this kind of statement is found in other standards like IN. Clarification: it is present in the standard spec of any OPEN interface. Discussion: do we need these statements or is it enough with the service properties? Service properties seem to be enough to some meeting attendants, but other believe they're not because it's clear that today we all don't have the same views about what's mandatory or not. Comments from CBC editor: these statements seem straightforward but they're indeed very useful, because they define dependencies. Comment: we'd need to have statements as well about methods and parameter values. Agreed, but the statements proposed to this meeting are the first step. Comment: couldn't we make generalised statements, instead of one per interface? Agreed that generalising may not be that easy, and that it could be a second step, once we agree on the individual examples. Comment: couldn't this information be in an annex, in table format? It is noted that the table could be cryptic (as the PICS document, which is not very friendly), and having the information in an annex would mean missing the clarifying advantage they have in the description of the interface. Comment: we should try to avoid thinking of this spec as similar to IN. OSA is different, we aim to multi-vendorship, and we intend to attract a big variety of application providers. Therefore we have strong interoperability specs.	

		663	Overview of Draft OSA API Test Specifications	ETSI STF 211	Documents N5-020664 to N5-020671 are the first drafts of the ETSI Test Specifications for OSA (DES/SPAN-120088) produced by STF 211. These documents are submitted for information, in order to get feedback from the JWG. The test specifications list 'Test Purposes', or prose descriptions of the test procedures, for each interface. These will be complemented at a later date with Sequence Diagrams making the tests more readable. No more can be done without imposing a certain technology realisation, which we don't want. These documents are at a very initial stage, and have not been reviewed much. Therefore all comments are welcome, and the joint working group can make considerable changes to the content of these documents, if required. The Test specifications should also include criteria for selecting the test – not all the tests are applicable for a certain implementation. This will be done when the PICS is ready, and when we agree on what is mandatory or not at API level. Feedback is welcome from now until October 4. After this date the SFT experts will be able to take them into account and make a new version for the October meeting. Comments that could result in a new version for the September meeting are also welcome. Comment: this is a very good start but we need to be careful on not over-specifying it. It would be very useful to have operator and application provider feedback, to see which point they want to reach. On the other hand it is noted that this work only intends to endure interoperability, and not to replace any in-house testing – the STF work will not go into that detail. The idea is that a customer can see that all show the same results of the specs to different customers. The test specifications are based on Parlay 3.x (eventually Parlay 3.2). On the other hand the PICS is for Parlay 4, unless we agree to have compliance statements in Parlay 3.3 – this could be a selling argument for a Parlay 3.3. Since we want to propose that Parlay 3.3 is in line with Parlay 4.1, then the CRs resulting from this discussions need not be	

		664	**Draft Framework Test Specification**	**ETSI STF 211**	**Noted. Comments are welcome.**	
		665	**Draft Mobility Test Specification**	**ETSI STF 211**	**Noted. Comments are welcome.**	
		666	**Draft Terminal Capability Test Specification**	**ETSI STF 211**	**Noted. Comments are welcome.**	
		667	**Draft Data Session Control Test Specification**	**ETSI STF 211**	**Noted. Comments are welcome.**	
		668	**Draft Generic Messaging Test Specification**	**ETSI STF 211**	**Noted. Comments are welcome.**	
		669	**Draft Connectivity Manager Test Specifications**	**ETSI STF 211**	**Noted. Comments are welcome.**	
		670	**Draft Account Management Test Specifications**	**ETSI STF 211**	**Noted. Comments are welcome.**	
		671	**Draft Charging Test Specification**	**ETSI STF 211**	**Noted. Comments are welcome.**	

		702	CR 29.198-11 Rel-5 Permit multiple Notifications in Account Management	Ultan Mulligan, ETSI PTCC	The State Transition Diagram for IpAccountManager clearly permits only one set of Notifications to be active at a time, i.e. no second or subsequent createNotifications may be invoked until the first set of notifications has been destroyed. This behaviour contradicts the notifications-related behaviour of the other SCFs, and makes the assignmentID parameter redundant. Therefore it is assumed that this is not the intended behaviour. This contribution proposes to correct the STD for IpAccountManager to permit more than one set of notifications to be active at any given time. Discussion: the entire notification mechanism is different in this and the rest of the SCFs. Then why do we need assignmentID? Beside there is no mention in the rest of the specification that only one set of Notifications can be active at a time. To be discussed with Karsten/Koen at lunch The original difference stems from the fact that the AccountManager was not a factory pattern like the rest of the Managers. The problem is that there is an assignmentID, maybe we could roll-back and remove the assignementID. Musa will prepare the roll-back proposal and send it out on Monday for email approval, deadline Friday.	
		739		Teltier (Guda Venkatesh)	Section 11.9.1 of ETSI Draft ES 202 915-14 contains a definition for a data type TpPAMTime that is not used anywhere in the specifications. Approved, CR should be produced. This needs to be ready next week.	

		743	**Correction to multiple errors in Charging API**	**AePONA**	**A number of errors and inconsistencies have been identified in the Charging API. This contribution proposes some corrections to text that inaccurately described Charging behaviour and functionality.** **Change on debitUnitReq is accepted. It is a non-BC change because it means a change in the behaviour, but CBC is not at the same level of maturity as other APIs. However, it will not break an existing application.** **Change on rateReq: we've had discussions before that show that rateReq is not possibly the best model. Contributions were rejected before but may be re-considered. There is a need to re-think this from the requirements and do a major re-work.** **Pointed out that some other errors have been found in the CBC API. It is agreed that all these non-BC changes will be put together and presented in a new contribution for Parlay 4.1 and 3.3.**	
		744	**Correction to multiple errors in Framework API**	**AePONA**	**Since this is a late contribution only the last proposed change is discussed. This third change will be included in a CR which will be put for email discussion on Monday, to be approved on Friday. The CR will be 755, and whether it is for Rel4 or Rel5 will be part of the email discussion.**	
		755				

		731		**Ultan Mulligan**	**It has been identified that a greater clarification is needed of the relationship between different versions of the ETSI, Parlay and 3GPP OSA specifications. Each of the three bodies has its own version numbering. The ETSI and the 3GPP version numbering appear on the front page of their documents. The Parlay version number appears in the Foreword of the ETSI document, but nowhere is the relationship between these specifications explained. Yet, although they are each published on different dates, there is a direct relationship between a version of ES 201 915 or ES 202 915 and a version of 3GPP Release 4 or Release 5 of TS 29.198. This relationship needs to be explained. The relationship can be explained in the ETSI/Parlay document, since 3GPP does not like to see references to ETSI or Parlay specs. in their documents.** **This contribution proposes is to add text to explain this relationship in two places:** **- In each part of the ETSI specifications (both Parlay 4 / ES 202 915 and Parlay 3 / ES 201 915), add a statement at the end of the Foreword to identify with which version number of which 3GPP specification each specific part corresponds to.** **- Also, a new clause 7 is proposed for Part 1 of ES 202 915, and also ES 201 915 at the next planned update, which will include tables outlining the relationship between the ETSI, Parlay and 3GPP release phases. These tables will be updated for each release. It is also proposed to update these tables for each draft release of the ETSI specs, which will correspond to each 3GPP plenary release. But since each ETSI draft will not be published, this draft-specific information will not remain in the published specifications.** **Comment: why not having this in the 3GPP documents as well? 3GPP seems not to like references to ETSI documents because a 3GPP TS ends up being adopted by the local STOs, who include their own references. The meeting agrees that our case is different, and that 3GPP understands well how we work and can agree.** **Approved. A CR will be prepared and approved by email. It will be a CR for Rel5.**	

8	**Parlay opening plenary**					
9	**OSA version 3 / Rel. 6**					
9.1	**Requirements**					
9.1.1	**Input from SA1**					
9.1.2	**ETSI SPAR**					
9.1.3	**Input from Policy Management Requirements WG**					
		729	**Supporting paper to 730**			

		730	Presentation from the Policy Management WG		Following work items are recommended: • new policy evaluation interfaces & data structures • extending policy variable definitions • extend the BNF grammar • additional methods for rule management • extend repository • define new conditions & actions. Observation that there are no requirements for specifying the actual policies than an SCF can manage: The current scope of requirements require that policy decisions are made by Policy Management SCF. However, it was pointed out that there are ideas to work on Policy Enable PAM and Emergency Telephony Service. But, it was requested to also consider the Presence and User location policies. Pointed out that input to SA2 is needed. PAM policies are further advanced than the current SA2 work in this area. Aren't there protocols already available for communication between the different policy entities? There are specific protocols available (COPS), however, these can be used to implement the functionality behind the APIs. Proposal to extend the charter to also support an SCF to download policies from the Policy Management SCF. This requires more work, separate charter might be needed. Pointed out that when there is communication between SCSs there is at the moment no interface defined and SA2 work is needed. Next steps: the idea is to include this in Rel.6. Q: Will these be included in SA1? Answer: yes, in case this can be agreed by the JWG and the idea is to have a co-signed contribution to SA1. Lucent is committed to provide the Stage 3 contributions. The proposal is that the requirements are drafted in format already submissable to SA1. It is requested to provide use cases. The target will be to have	

9.1.4	**Input from PAM Requirements WG**					
9.1.5	**Others**					
9.2	**Balancing Up**					
9.3	**Framework Information Model**					

		591	**Framework Information Model: a first analysis**	**Telecom Italia Lab (Corrado MOISO, Sergio TOGNON)**	**The purpose of this contribution is to analyse aspects concerning the information model underlying the framework functions and APIs and to identify some open issues that need further investigation. This document was produced in the context of EURESCOM Project P1110 "Open Service Access: advantages and opportunities in service provisioning on 3G Mobile Networks".** **The analysis on the derived class diagrams and on the various specifications have identified the following open issues to be further investigated:** • ***Relationships among objects handled by different interfaces.*** **The FIM analysis highlighted that there are situations in which different interfaces can acts on the same entity or on linked entities, but currently each interface is defined independently: this can hide possible links to entities not directly handled by that interface, or even possible side-effects.** • ***Service Contracts*****. The detail of the relationships between Service Contract and the other service-related entities (e.g. Service, ServiceProfile, ServiceSubscriptionProperties etc.) need further analysis, e.g., to understand their role in the definition of SLA clauses.** • ***Service Properties typology*****. The classification of service properties should be further investigated, in order to address the issues mentioned in Section** Error! Reference source not found.**.** • ***Service Properties in Service Discovery*****. The selection of service interfaces performed by Service Discovery should be influenced by the service properties and the subscription data. Further investigations on this issue are required.** **Question if there is impact on the APIs or if this is a suggestion to put forward a data view. Answer, it is mainly the latter.** **Q: Is management of the system considered as well? A: Maybe additional APIs are needed to for e.g. accessing**	

		734			Will be discussed over the e-mail list, starting next monday.	
9.4	Others					
		593	Service Level Agreement (SLA) and Parlay/OSA: Analysis and open issues	EURESCOM P1110	The contents of the document are presented with slides, see document 732	

		732	**Presentation of the SLA work done by Eurescom**		**The presentation gives an overview of the work on SLAs that has been done by the Eurescom P1110 project.** **All aspects of SLAs have been investigated, e.g. on how they could be specified.** **Open points identified:** • **APIs for SLA could be addressed by the Policy Management.** • **Links between SLAs and Service Properties need further analysis** • **Use of policies in SLA field can be useful and profitable (e.g. for a "dynamic management/tuning" done when a SLA is already "up and running").** • **Further analysis on GTW characteristics to support SLA can be useful.** • **Use of UML and XML in SLA context looks useful and profitable. Their capacity should be further investigated (e.g. no considerations on Parlay X have been done).** **Q: has this been discussed with the Policy Management WG? Answer, no. (not yet). It would be good to synchronise the views.** **What are the future plans? Within the P1110 the work is finished. Individual members might contribute.** **Q: Was the outcome that Service Properties could be specified in XML and thus form the base for a Service Level Agreement? A: What really would be needed is the possibility to obtain the information on SLAs that different SCS are containing. Related requirement discussions found place with the Policy Managements where it was also pointed out that it would be good to have the possibility to communicate policy data in between SCSs. Concluded that when working out the relation between Service Properties and policies we could benefit when the former are specified in XML.**	
		594	**Non-functional aspects and requirements related to Parlay/OSA products**	**EURESCOM P1110**	**The contents of the document are presented with slides, see document 733.**	

		733			**Conclusions found from the project:** • **Service availability most important** • **performance needs not clear (high scalability is important, low response times)** • **security requirements should not be underestimated.** • **extensive SLA support is important.** **Q: Regarding the low response times: how does the project view the web services based services? A: Adding additional layers would lead to more performance impact, but it has to be seen in practice what the performance needed would be.** **Q : are there more specific figures available for the non-functional aspects.? E.g. taking as a base 2-3 different network topologies.** **A: there is further output of the project and tests are being done with the different GW of vendors in the project. The project will not develop a common model, but some specific tests will be done. Defining such a benchmark model would be interesting.** **Q; will there be impact on the APIs, e.g. for security or performance?** **A: Not for the time being. Pointed out that it would be good to have a process within which there will be feedback on these aspects to the group. For now the project is ready. It might be that this can be part of a new project.**	
11	**Organizational aspects**					
11.1	**Review of 3GPP OSA Work Plan**					
11.2	**3GPP OSA Work Item Description**				**We need to have it before the September plenary. It will be done by email.**	
11.3	further work on 12076					
11.4	further work on 12075					
11.5	other					
12	**Outgoing liaisons**					

13	**Future meetings**				**The 3GPP European friends can host one meeting per WG next year. The other CN groups will go to Dublin in February. February is most likely the date of a Parlay Member meeting, so it is not suitable for us. Ard-Jan will inform Stephen Hayes that we won't be there.** **Anyway we need to discuss a date because there is a budget to host one meeting. It is suggested we could co-locate with SA2. We need to find out if SA2 is planning a meeting hosted by the 3GPP European friends.**	
14	**AOB**					

Annex A: AGENDA

1 Opening of the meeting and approval of the agenda (Monday 9:00 AM)

1.1 IPR (Intellectual Property Rights) declarations

The Chairman reminds 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 Chairman invites the delegates to declare IPRs - relevant to the 3GPP - they are aware of.
The List of IPR declarations sorted by Organizational Partners can be found at:
http://www.3gpp.org/PCG/IPR_declarations.htm

2 Allocation of documents to agenda items : Monday morning

3 Reporting : Monday morning

3.1 CN5 #18 /ETSI OSA project/Parlay meeting, Budapest
3.2 3GPP CN #16 plenary meeting, Marco Island, Florida
3.3 Parlay Board and TAC meetings.
3.4 3GPP – 3GPP2 harmonisation related activities.
3.5 Report of all other OSA related activities.

Items to be considered here are all other OSA related activities e.g. in SA1, SA2 and ETSI SPAN

3.6 ETSI STF 211.

4 Input liaison statements : Monday morning

5 Backward compatibility discussions: Monday morning

Review of the status after our previous discussions in Budapest.

6 Technical discussions OSA version 1 / 3GPP Rel.4 : Monday morning

Only essential error corrections can be taken into account. Essential means that without the intended error correction the current spec can not be implemented (SCS and/or application side).

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7 Technical discussions OSA version 2 / 3GPP Rel.5

7.1 Framework (Framework security)
7.2 Call Control

7.2.1 3GPP IMS related Call control

7.2.2 Other Call control issues (e.g. potential input from ETS group)

7.3 Policy Management
7.4 Presence and Availability Management
7.5 WSDL / SOAP / XML APIs
7.6 Other APIs

7.6.1 Content Based Charging

7.6.2 Terminal Capabilities

7.6.3 Others

8 Parlay opening plenary

See overall Parlay meeting agenda.

9 Technical discussions Parlay 5.0, OSA version 3 / 3GPP Rel.6

9.1 Requirements

9.1.1 Input from SA1: OSA and VHE requirements
9.1.2 ETSI SPAR
9.1.3 Input from the Policy Management WG
9.1.4 Input from the PAM WG
9.1.5 Others

9.2 Balancing Up

9.3 Framework information model

9.4 Others

10 Parlay closing plenary: Thursday afternoon

See overall Parlay meeting agenda

11 Organisational aspects with relation to Joint activities: Thursday afternoon

11.1 Review of 3GPP OSA workplan

11.2 3GPP OSA Work Item Description (prepare for Rel-6).

New WID should be presented next TSG-CN.

11.3 Organization of further work on ETSI ES 201 915 (Version 2)

11.4 Organization of further work on ETSI TR 101 917

12 Outgoing Liaisons: Thursday afternoon

13 Future meetings : Friday morning

14 AOB : Friday morning

15 Close : Friday morning (12:00)

Annex B: List of Documents

Doc	Title	Source	Allocations	Type	Status/Comment
N5-020550	Draft Agenda	JWG Chair	1 Agenda approval	Agenda	Updated to 623
N5-020551	Document Allocation	JWG Chair	2 Tdoc# allocation	Tdoc alloc.	Noted.
N5-020552	report_Monday	JWG Chair		Report	Noted.
N5-020553	report_Tuesday	JWG Chair		Report	Noted.
N5-020554	report_Wednesday	JWG Chair		Report	Noted.
N5-020555	report_Thursday	JWG Chair		Report	Noted.
N5-020556	report_Friday	JWG Chair		Report	Noted.
N5-020557	Draft Report of CN5#19, Montreal, CANADA, 8-12 Jul 2002	JWG Chair		Report	
N5-020558	Report of CN5#19, Montreal, CANADA, 8-12 Jul 2002	Joint-API-group		Report	
N5-020559	List_of_new_CN5_CRs_approved_at_CN_16.xls	MCC		Tdoc	Noted.
N5-020560	LS from S1 to N5 : Liaison Statement on OSA Journaling Function	S1-020863	4 Input LSs	LS in	Noted. No reply needed.
N5-020561	LS copy from S5 to N5 : Liaison Statement on MMS Connectivity	S5-022047	4 Input LSs	LS in	Noted. Need for action (see 334).
N5-020562	LS copy from T2 to N5 : Service Operations Management	T2-020527	4 Input LSs	LS in	Noted. Need for action (see 334).
N5-020563	LS copy from T2 to N5 : Liaison Statement Charging Support for VASP MMS Connectivity	T2-020584	4 Input LSs	LS in	Noted. No reply needed.
N5-020564	IETF RFC 1321	ETSI (Ultan Mulligan)		Tdoc	Noted.
N5-020564-bis	LS reply to S1, S2 (cc: S3) on enhanced user privacy and new security requirements for LCS	CN5	12 LS out	LS out	Email approved. Sent 22 Jul 2002.
N5-020565	IETF RFC 2104	ETSI (Ultan Mulligan)		Tdoc	Noted.
N5-020565-bis	LS to S5 : Joint Meeting SA5/CN5/T2 on MMS charging	CN5	12 LS out	LS out	Email approved. Sent 22 Jul 2002.
N5-020566	IETF RFC 2403	ETSI (Ultan Mulligan)		Tdoc	Noted.
N5-020567	IETF RFC 2404	ETSI (Ultan Mulligan)		Tdoc	Noted.
N5-020568	IETF RFC 1994	ETSI (Ultan Mulligan)		Tdoc	Noted.
N5-020569	LS from N5 to S3 : OSA Security	CN5	12 LS out	LS out	Approved. Sent 10 Jul 2002.
N5-020570	VOID			VOID	VOID
N5-020571	VOID			VOID	VOID
N5-020572	VOID			VOID	VOID
N5-020573	VOID			VOID	VOID
N5-020574	VOID			VOID	VOID
N5-020575	VOID			VOID	VOID
N5-020576	VOID			VOID	VOID
N5-020577	VOID			VOID	VOID
N5-020578	VOID			VOID	VOID
N5-020579	VOID			VOID	VOID
N5-020580	CR 29.198-03 Rel-5 additional service property	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	
N5-020581	CR 29.198-01 Rel-5 addition of introduction to OSA APIs	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Updated to 740
N5-020582	29.198-03 Rel-5 Unclear Service Agreement Signing	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	Tdoc	Updated to 710
N5-020583	CR 29.198-03 Rel-5 Unclear Authentication Process	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	
N5-020584	CR 29.198-03 Rel-5 Unclear Challenge Encryption	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	
N5-020585	CR 29.198-01 Rel-5 Missing CORBA Realization Rules	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Updated to 738
N5-020586	CR 29.198-11 Rel-5 Missing Callback for Notifications in Account Management	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Updated to 757
N5-020587	CR 29.198-04 Rel-5 Ambigous Callback in reportNotification() MPCC	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	
N5-020588	CR 29.198-05 Rel-5 Ambigous Callback in reportNotification() UI	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	
N5-020589	CR 29.198-08 Rel-5 Ambigous Callback in reportNotification() DSC	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	

N5-020590	WITHDRAWN	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	Tdoc	WITHDRAWN
N5-020591	29.198-03 Rel-6 Framework Information Model: a first analysis	Telecom Italia (Corrado Moiso) (Corrado Moiso)	OSA3 3GPP Rel-6	Tdoc	Updated to 734
N5-020592	Backwards Compatibility White Paper	Lucent	Backward compatibil	Tdoc	Approved.
N5-020593	Service Level Agreement (SLA) and Parlay/OSA: Analysis and open issues	EURESCOM P1110	OSA3 3GPP Rel-6	Tdoc	Discussed. Related-Presentation in 732
N5-020594	Non-functional aspects and requirements related to Parlay/OSA products	EURESCOM P1110	OSA3 3GPP Rel-6	Tdoc	Discussed. Related-Presentation in 733
N5-020595	ETSI ES201915-3 V.0.0.7 Interface Changes for Keeping Subscription Information Consistent (split of 345 into 470 and 595)	FTW (Ivan Gojmerac, Klaus Umschaden)	OSA2 3GPP Rel-5	CR	Approved.
N5-020596	New methods for floor control in CCC	Ericsson	OSA3 3GPP Rel-6	Tdoc	WITHDRAWN
N5-020597	CR 29.198-01 Rel-5 WSDL - Addition to ObjectRef description in WSDL Mapping Rules	Nortel, Lucent	OSA2 3GPP Rel-5	CR	Approved.
N5-020598	CR 29.198-01 Rel-5 WSDL - Addition of sequence tag to Choice types.	Nortel, Lucent	OSA2 3GPP Rel-5	CR	Approved.
N5-020599	CR 29.198-01 Rel-5 WSDL - Replace all occurences of the xsd:anyURI type to xsd:string	Nortel, Lucent	OSA2 3GPP Rel-5	CR	Approved.
N5-020600	CR 29.198-01 Rel-5 WSDL - Correction to Namespace mapping in WSDL Mapping Rules	Nortel, Lucent	OSA2 3GPP Rel-5	CR	Approved.
N5-020601	CR 29.198-01 Rel-5 WSDL - Correction to xmlns:wsdl Namespace	Nortel, Lucent	OSA2 3GPP Rel-5	CR	Approved.
N5-020602	CR 29.198-01 Rel-5 WSDL - Prepend class name to message name.	Nortel, Lucent	OSA2 3GPP Rel-5	CR	Approved.
N5-020603	CR 29.198-01 Rel-5 WSDL - Correction to void return types in WSDL Mapping Rules	Nortel, Lucent	OSA2 3GPP Rel-5	CR	Approved.
N5-020604	CR 29.198-05 Rel-5 Introduce types and modes for generic properties	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Updated to 712
N5-020605	CR 29.198-04 Rel-5 Correction of error in CFB sequence	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Approved.
N5-020606	CR 29.198-03 Rel-5 Remove undefined exception in registerService	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	
N5-020607	CR 29.198-03 Rel-5 Add possibility to re-obtain the reference to the service manager	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	
N5-020608	CR 29.198-04 Rel-5 Correct inconsistencies in IpCallLeg state diagram	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Updated to 754
N5-020609	CR 29.198-03 Rel-5 Add re-registration for an SCF to update property values	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Rejected
N5-020610	Summary of e-mail discussions	Alcatel (Chelo Abarca)	3 Reporting	Tdoc	All approvals endorsed.
N5-020611	Presentation to Parlay Education Track	Alcatel (Chelo Abarca)	3 Reporting	Tdoc	Noted.
N5-020612	Presentation to ETSI SPAN Plenary	Alcatel (Chelo Abarca)	3 Reporting	Tdoc	Noted.
N5-020613	CR 29.198-03 Rel-4 Correction on use of NULL in Framework API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Updated to 711
N5-020614	CR 29.198-02 Rel-4 Correction on description of TpTimeInterval	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Approved. Rel-5 CR in 745
N5-020615	CR 29.198-04 Rel-4 Correction on use of NULL in Call Control API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Updated to 746.
N5-020616	CR 29.198-05 Rel-4 Correction on use of NULL in User Interaction API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Approved. Rel-5 CR in 748
N5-020617	CR 29.198-08 Rel-4 Correction on use of NULL in Data Session Control API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Rel-5 CR in 749. Updated to 761
N5-020618	ETSI ES 201 915-09_v1.3.1 Correction on use of NULL in Generic Messaging API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	Tdoc	Approved.
N5-020619	CR 29.198-05 Rel-4 Correction to TpUIInfo data type to support binary data for SMS services	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Approved. Rel-5 CR in 750
N5-020620	CR 29.198-04-1 Rel-5 Adding explicit indication on who's behalf application will control the call	Ericsson (Ard-Jan Moerdijk)	OSA2 3GPP Rel-5	CR	Updated to 737.
N5-020621	CR 29.198-04-3 Rel-5 Correction of the overlapping criteria definition	Ericsson (Ard-Jan Moerdijk)	OSA2 3GPP Rel-5	CR	Updated to 756.
N5-020622	29.198-04-1, 29.198-04-3 Rel-5 Adding explicit indication on who's behalf application will control the call	Ericsson (Ard-Jan Moerdijk)	OSA2 3GPP Rel-5	Tdoc	
N5-020623	Revised Agenda	JWG Chair	1 Agenda approval	Agenda	Update of 550. Approved
N5-020624	CR 29.198-04 Rel-5 Correct description of IpCallControlManager.enableCallNotification()	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	CR	Approved.

N5-020625	CR 29.198-04 Rel-5 Correct the description of getCrietria() in GCC	ETSI STF 211 (Jerome Hatton, Ultan Mulligan)	OSA2 3GPP Rel-5	CR	
N5-020626	ETSI ES 202 915-6 ULE: Remove all parameter and network error sequence diagrams	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	Tdoc	Approved.
N5-020627	CR 29.198-06 Rel-5 Remove all parameter error and network error sequence diagrams	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	CR	Approved.
N5-020628	CR 29.198-06 Rel-5 Removal of unnecessary exceptions	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	CR	Approved.
N5-020629	CR 29.198-06 Rel-5 Remove unusable exceptions from IpUserLocationCamel.periodicLocationReportingStartReq()	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	CR	Approved.
N5-020630	CR 29.198-06 Rel-5 Add text to forbid unusable exceptions from IpUserLocationCamel.periodicLocationReportingStartReq()	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	CR	Withdrawn.
N5-020631	CR 29.198-08 Rel-5 Correct the result type of IpDataSessionControlManager.getNotification()	ETSI STF 211 (Jerome Hatton / Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Withdrawn.
N5-020632	CR 29.198-08 Rel-5 Introduce new method getNotifications	ETSI STF 211 (Jerome Hatton / Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 713 (Rel-4) & 714 (Rel-5)
N5-020633	CR 29.198-08 Rel-5 Remove duplicate exception from IpDataSessionControlManager.createNotification	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	CR	Approved.
N5-020634	CR 29.198-08 Rel-5 Add P_INVALID_INTERFACE_TYPE exception to IpDataSessionControlManager.createNotification()	ETSI STF 211 (Jerome Hatton)	OSA2 3GPP Rel-5	CR	Updated to 715 (Rel-5)
N5-020635	CR 29.198-08 Rel-5 Remove P_SERVICE_INFORMATION_MISSING and P_SERVICE_FAULT_ENCOUNTERED exceptions fromDataSessionControl methods.	ETSI STF 211 (Jerome Hatton / Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Approved.
N5-020636	CR 29.198-03 Rel-5 Addition of status of methods to interfaces in clause 6.3	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020637	CR 29.198-03 Rel-5 Addition of status of methods to interfaces in clause 7.3	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020638	CR 29.198-03 Rel-5 Addition of status of methods to interfaces in clause 8.3	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020639	CR 29.198-04 Rel-5 Addition of status of methods to GCC interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020640	CR 29.198-04 Rel-5 Addition of status of methods to MPCC interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020641	CR 29.198-04 Rel-5 Addition of status of methods to MMCC interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020642	ETSI ES 202 915-4 Addition of status of methods to CCC interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	Tdoc	
N5-020643	CR 29.198-05 Rel-5 Addition of status of methods to UI interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020644	CR 29.198-06 Rel-5 Addition of status of methods to Mobility interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020645	CR 29.198-07 Rel-5 Addition of status of methods to Term Caps interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020646	CR 29.198-08 Rel-5 Addition of status of methods to DSC interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020647	ETSI ES 202 915-9 Addition of status of methods to GMS interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	Tdoc	
N5-020648	CR 29.198-11 Rel-5 Addition of status of methods to AM interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020649	CR 29.198-12 Rel-5 Addition of status of methods to Charging interfaces	ETSI STF211 (Peter Schmitting)	OSA2 3GPP Rel-5	CR	
N5-020650	CR 29.198-03 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 716
N5-020651	CR 29.198-04 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 717
N5-020652	CR 29.198-05 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 718
N5-020653	CR 29.198-06 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 719
N5-020654	CR 29.198-07 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 720

N5-020655	CR 29.198-08 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 721
N5-020656	ETSI ES 202 915-9 Add text to Part 9 to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	Tdoc	Updated to 722
N5-020657	ETSI ES 202 915-10 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	Tdoc	Updated to 723
N5-020658	CR 29.198-11 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 724
N5-020659	CR 29.198-12 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 725
N5-020660	CR 29.198-13 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 726
N5-020661	CR 29.198-14 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Updated to 727
N5-020662	Draft OSA API ICS Document	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020663	Overview of Draft OSA API Test Specifications	ETSI STF 211	ETSI STF 211 Test	Tdoc	
N5-020664	Draft Framework Test Specification	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020665	Draft Mobility Test Specification	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020666	Draft Terminal Capability Test Specification	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020667	Draft Data Session Control Test Specification	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020668	Draft Generic Messaging Test Specification	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020669	Draft Connectivity Manager Test Specifications	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020670	Draft Account Management Test Specifications	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020671	Draft Charging Test Specification	ETSI STF 211	ETSI STF 211 Test	ETSI Spec	
N5-020672	1st Draft Parlay 4, ETSI ES 202 915-1	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020673	1st Draft Parlay 4, ETSI ES 202 915-2	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020674	1st Draft Parlay 4, ETSI ES 202 915-3	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020675	1st Draft Parlay 4, ETSI ES 202 915-4-1	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020676	1st Draft Parlay 4, ETSI ES 202 915-4-2	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020677	1st Draft Parlay 4, ETSI ES 202 915-4-3	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020678	1st Draft Parlay 4, ETSI ES 202 915-4-4	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020679	1st Draft Parlay 4, ETSI ES 202 915-4-5	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020680	1st Draft Parlay 4, ETSI ES 202 915-5	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020681	1st Draft Parlay 4, ETSI ES 202 915-6	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020682	1st Draft Parlay 4, ETSI ES 202 915-7	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020683	1st Draft Parlay 4, ETSI ES 202 915-8	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020684	1st Draft Parlay 4, ETSI ES 202 915-9	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020685	1st Draft Parlay 4, ETSI ES 202 915-10	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020686	1st Draft Parlay 4, ETSI ES 202 915-11	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020687	1st Draft Parlay 4, ETSI ES 202 915-12	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020688	1st Draft Parlay 4, ETSI ES 202 915-13	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020689	1st Draft Parlay 4, ETSI ES 202 915-14	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	ETSI Spec	Noted.
N5-020690	CR 29.198-03 Rel-5 Correction to Authentication Process	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	updated to 708
N5-020691	CR 29.198-03 Rel-5 Remove ServiceIDs from IpFwFaultManager.genFaultStatsRecordReq()	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Approved.
N5-020692	CR 29.198-03 Rel-5 Correct appUnavailableInd and related methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	
N5-020693	CR 29.198-03 Rel-5 Remove unusable exception from IpFaultManager.appActivityTestRes()	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Approved.
N5-020694	CR 29.198-03 Rel-5 Remove unusable exceptions from IpFwServiceRegistration.registerService()	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Withdrawn.

N5-020695	CR 29.198-03 Rel-5 Clarify the sequence of events in signing the service agreement	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	
N5-020696	CR 29.198-03 Rel-5 Complete the introduction of initiateAuthenticationWithVersion	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	updated to 708
N5-020697	Report CN5 to CN#16	JWG Chair (Ard-Jan Moerdijk)	3 Reporting	Report	Noted.
N5-020698	VOID			VOID	VOID
N5-020699	CR 29.198-03 Rel-5 Authentication Challenge Format	Alcatel (Chelo Abarca), ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	updated to 703
N5-020700	CR 29.198-03 Rel-5 Add selectAuthenticationMechanism	Alcatel (Chelo Abarca), ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	updated to 703
N5-020701	CR 29.198-03 Rel-5 Protection of terminateAccess and endAccess methods	Alcatel (Chelo Abarca), ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	updated to 704
N5-020702	CR 29.198-11 Rel-5 Permit multiple Notifications in Account Management	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Email approval 19 July.
N5-020703	CR 29.198-03 Rel-5 Add selectAuthenticationMechanism	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	update of 699, 700. Updated to 708.
N5-020704	CR 29.198-03 Rel-5 Protection of terminateAccess and endAccess methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	update of 701. Approved.
N5-020705	CR 29.198-03 Rel-5 Update of State Diagrams	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Email approval 19 July.
N5-020706	29.198-03 5.0.0 (Framework) Adding the appAvailStatusInd method allowing the Applications reporting the available status	Incomit (Anders Lundqvist)	OSA2 3GPP Rel-5	Tdoc	Updated to 728
N5-020707	ETSI-Parlay-3GPP specifications correspondence	ETSI (Ultan Mulligan)		Tdoc	
N5-020708	CR 29.198-03 Rel-5	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 690, 696, 703. Email approval 19 July. Updated to 760
N5-020709	CR 29.198-03 Rel-5 Correction to Authentication Process	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Withdrawn.
N5-020710	29.198-03 Rel-5 Unclear Service Agreement Signing	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	Tdoc	Update of 582. Email approval 19 July.
N5-020711	CR 29.198-03 Rel-4 Correction on use of NULL in Framework API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Update of 613. Approved. Rel-5 CR in 751
N5-020712	CR 29.198-05 Rel-5 Introduce types and modes for generic properties	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Update of 604, Updated to 741
N5-020713	CR 29.198-08 Rel-4 Introduce new method getNotifications	ETSI (Ultan Mulligan)	OSA1 3GPP Rel-4	CR	Update of 632 (for Rel-4)
N5-020714	CR 29.198-08 Rel-5 Introduce new method getNotifications	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 632 (for Rel-5)
N5-020715	CR 29.198-08 Rel-5 Add P_INVALID_INTERFACE_TYPE exception to IpDataSessionControlManager.createNotification()	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-6	CR	Update of 634 (for Rel-5)
N5-020716	CR 29.198-03 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 650
N5-020717	CR 29.198-04 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 651
N5-020718	CR 29.198-05 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 652
N5-020719	CR 29.198-06 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 653
N5-020720	CR 29.198-07 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 654
N5-020721	CR 29.198-08 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 655
N5-020722	ETSI ES 202 915-9 Add text to Part 9 to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	Tdoc	Update of 656
N5-020723	ETSI ES 202 915-10 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	Tdoc	Update of 657
N5-020724	CR 29.198-11 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 658
N5-020725	CR 29.198-12 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 659

N5-020726	CR 29.198-13 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 660
N5-020727	CR 29.198-14 Rel-5 Add text to clarify requirements on support of methods	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 661
N5-020728	CR 29.198-03 Rel-5 Adding the appAvailStatusInd method allowing the Applications reporting the available status	Incomit (Anders Lundqvist)	OSA2 3GPP Rel-5	CR	Update of 706. Updated to 752.
N5-020729	Proposed Extensions from Lucent to the Parlay Policy Management Specification	Lucent (Shehryar Qutub)	OSA3 3GPP Rel-6	Tdoc	Discussed
N5-020730	Policy Management WG: New Features Recommendations	Lucent (Shehryar Qutub), Cisco (Peter HEITMAN)	OSA3 3GPP Rel-6	Tdoc	Discussed
N5-020731	ETSI ES 202 915-01	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	Tdoc	
N5-020732	Service Level Agreement (SLA) and Parlay/OSA: Analysis and open issues	EURESCOM P1110	OSA3 3GPP Rel-6	Tdoc	Presentation going with 593
N5-020733	Non-functional aspects and requirements related to Parlay/OSA products	EURESCOM P1110	OSA3 3GPP Rel-6	Tdoc	Presentation going with 594
N5-020734	29.198-03 Rel-6 Framework Information Model: a first analysis	Telecom Italia (Corrado Moiso)	OSA3 3GPP Rel-6	Tdoc	Update of 591. Email approval 19 July.
N5-020735	29.198-4-3 Rel-5 ADD TpCarrier to routeReq	Telcordia (John-Luc Bakker)	OSA2 3GPP Rel-5	Tdoc	
N5-020736	CR 29.198-04-3 Rel-5 Add support for Carrier selection	Telcordia (John-Luc Bakker)	OSA2 3GPP Rel-5	CR	Updated to 759
N5-020737	CR 29.198-04-3 Rel-5 Correction of the overlapping criteria definition	Ericsson (Ard-Jan Moerdijk)	OSA2 3GPP Rel-5	CR	Update of 620. Updated to 756.
N5-020738	CR 29.198-01 Rel-5 Missing CORBA Realization Rules	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Update of 585. Email approval 19 July.
N5-020739	ETSI Draft ES 202 915-14: Removing unused type definition for TpPAMTime	Teltier (Guda Venkatesh)	OSA2 3GPP Rel-5	Tdoc	Updated to 742.
N5-020740	CR 29.198-01 Rel-5 addition of introduction to OSA APIs	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Update of 581. Email approval 19 July.
N5-020741	CR 29.198-05 Rel-5 Introduce types and modes for generic properties	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Update of 712. Email approval 19 July.
N5-020742	CR 29.198-14 Rel-5 Removing unused type definition for TpPAMTime	Teltier (Guda Venkatesh)	OSA2 3GPP Rel-5	CR	Update of 739. Email approval 19 July.
N5-020743	CR 29.198-12 Rel-4 Correction to multiple errors in Charging API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	
N5-020744	CR 29.198-03 Rel-4 Correction to multiple errors in Framework API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Updated to 755.
N5-020745	CR 29.198-02 Rel-5 Correction on description of TpTimeInterval	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Rel-5 equivalent of 614. Email approval 19 July.
N5-020746	CR 29.198-04 Rel-4 Correction on use of NULL in Call Control API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Update of 615. Updated to 762.
N5-020747	CR 29.198-04 Rel-5 Correction on use of NULL in Call Control API	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Rel-5 equivalent of 746. Updated to 763
N5-020748	CR 29.198-05 Rel-5 Correction on use of NULL in User Interaction API	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Rel-5 equivalent of 616. Email approval 19 July.
N5-020749	CR 29.198-08 Rel-5 Correction on use of NULL in Data Session Control API	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Rel-5 equivalent of 617. Updated to 764
N5-020750	CR 29.198-05 Rel-5 Correction to TpUIInfo data type to support binary data for SMS services	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Rel-5 equivalent of 619. Email approval 19 July.
N5-020751	CR 29.198-03 Rel-5 Correction on use of NULL in Framework API	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Rel-5 equivalent of 711. Email approval 19 July.
N5-020752	CR 29.198-03 Rel-5 Adding the appAvailStatusInd method allowing the Applications reporting the available status	Incomit (Anders Lundqvist)	OSA2 3GPP Rel-5	CR	Update of 728
N5-020753	CR 29.198-01 Rel-5 Add references to ITU-T/ANSI for encoding of Carrier selection	Telcordia (John-Luc Bakker)	OSA2 3GPP Rel-5	CR	Updated to 758
N5-020754	CR 29.198-04 Rel-5 Correct inconsistencies in IpCallLeg state diagram	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Update of 608. Email approval 19 July.
N5-020755	CR 29.198-03 Rel-4 Correction to multiple errors in Framework API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Update of 744. Email approval 19 July.
N5-020756	CR 29.198-04-3 Rel-5 Clearification of the overlapping criteria definition and eventType mapping to IN TDPs	Ericsson (Ard-Jan Moerdijk)	OSA2 3GPP Rel-5	CR	Update of 621, 737. Email approval 19 July.
N5-020757	CR 29.198-11 Rel-5 Missing Callback for Notifications in Account Management	Ericsson (Koen Schilders)	OSA2 3GPP Rel-5	CR	Update of 586. Email approval 19 July.
N5-020758	CR 29.198-01 Rel-5 Add references to ITU-T/ANSI for encoding of Carrier selection	Telcordia (John-Luc Bakker)	OSA2 3GPP Rel-5	CR	e-mail approved 19 July
N5-020759	CR 29.198-04-3 Rel-5 Add support for Carrier selection	Telcordia (John-Luc Bakker)	OSA2 3GPP Rel-5	CR	e-mail approved 19 July
N5-020760	CR 29.198-03 Rel-5 Authentication	ETSI (Ultan Mulligan)	OSA2 3GPP Rel-5	CR	Update of 708. Email approved
N5-020761	CR 29.198-08 Rel-4 Correction on use of NULL in Data Session Control	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Update of 617. e-mail approved. Rel-5 CR in 764

	API				
N5-020762	CR 29.198-04 Rel-4 Correction on use of NULL in Call Control API	AePONA (Eamonn Murray)	OSA1 3GPP Rel-4	CR	Update of 746. Email approved 19 July.
N5-020763	CR 29.198-04 Rel-5 Correction on use of NULL in Call Control API	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Update of 747. Rel-5 equivalent of 762. Email approved 19 July.
N5-020764	CR 29.198-08 Rel-5 Correction on use of NULL in Data Session Control API	AePONA (Eamonn Murray)	OSA2 3GPP Rel-5	CR	Update of 749. Rel-5 equivalent of 761. Email approved 19 July.
N5-020765					
N5-020766					
N5-020767					
N5-020768					

Annex C: **List of incoming & outgoing LSs**

N5-020560	LS from S1 to N5 : Liaison Statement on OSA Journaling Function	S1-020863	4 Input LSs	LS in	Noted. No reply needed.
N5-020561	LS copy from S5 to N5 : Liaison Statement on MMS Connectivity	S5-022047	4 Input LSs	LS in	Noted. Need for action (see 334).
N5-020562	LS copy from T2 to N5 : Service Operations Management	T2-020527	4 Input LSs	LS in	Noted. Need for action (see 334).
N5-020563	LS copy from T2 to N5 : Liaison Statement Charging Support for VASP MMS Connectivity	T2-020584	4 Input LSs	LS in	Noted. No reply needed.
N5-020564-bis	LS reply to S1, S2 (cc: S3) on enhanced user privacy and new security requirements for LCS	CN5	12 LS out	LS out	Email approved. Sent 22 Jul 2002.
N5-020565-bis	LS to S5 : Joint Meeting SA5/CN5/T2 on MMS charging	CN5	12 LS out	LS out	Email approved. Sent 22 Jul 2002.
N5-020569	LS from N5 to S3 : OSA Security	CN5	12 LS out	LS out	Approved. Sent 10 Jul 2002.

Annex D: List of Participants

Chairman

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

ViceChairman

UNMEHOPA Musa	Lucent Technologies B.V.	NL

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