Source:	**CN1 Chairman**	
Title:	**CN1 IMS open items list**	
Agenda item:	**6.1.1**	
Document for:	**INFORMATION**	

Introduction

IMS is by far the largest Rel-5 work item in CN1. This open item list identifies the tasks within that work item that still need to be completed before the CN1 IMS draft TSs (23.218, 24.228, 24.229) can be approved for Rel-5.

This study has been done to identify the still missing principal decisions and other major open issues in the IMS specifications under CN1 control. The intention is not to take this open items list to the granularity of a individual CRs.

Because of these reasons the list is not exhaustive so it should not be considered as comprehensive list of all CRs that are needed to complete the CN1 IMS task. It can be foreseen that not only the CRs to close the listed open items but also other CRs outside the list will be needed.

But the intention is to list all such open items which are likely to impact the scheduling and work amount estimates on the work item. This open item list may be used for priorisation of the Rel-5 work in TSG CN if the plenary meeting chooses to do so.

This document takes no position in how an open item is closed unless it is explicitly stated. So it may happen that an open item in a CN1 TS is covered by removing the whole clause from the TS.

It is the intention of the originator to maintain this document until it becomes redundant at the freezing of Rel-5 IMS related CN1 TSs.

The colour coding of the table is as follows:

After CN1 Meeting	20bis	21 = CN #14	21bis	22	22bis = CN #15	23	23bis	24 = CN #16		
Red = not done	102	90	70	44	27	22	9	12		
Yellow = partly done	1	11	22	31	9	29	26	16		
Green = completed	4	9	22	42	92	85	101	119		
Total	107	110	114	117	128	136	141	147		

Open items

1. Missing working assumptions				
#	**Description**	**TS**	**CRs**	**Comment**
1.1	SIP protocol related proposals to IETF in 24.229 clause 7	24.229		All SIP extensions in this annex which are not adopted to IETF RFCs need to be incorporated in 3GPP TSs. Currently Path Header, , Cell ID, Roaming Network Name… Delegates attending CN1 volunteered to write Internet Drafts for P-Headers. These drafts were reviewed at CN1#23bis
1.2	SIP compression	24.229	N1-020945 N1-021099	3GPP should follow IETF decisions. Need to fill in the Gaps regarding negotiation/setup of compression. ROHC group is moving in slightly different direction than SA2 requirements regarding UE-P-CSCF negotiation (Dynamicsoft, Ericsson, Motorola) Nortel, Lucent?
1.3	Network initiated re-authentication. Is this based on network initiated re-registrations which are then authenticated?	24.229	N1-012025	According to 24.229 Annex A 5.1.1.5.4 and N1-012025 the answer to this principal question is yes. A CR to move the text in 11.1.1.3 to the main body of 24.229 is still needed ~~H3G~~
1.4	Is I-CSCF stateful or is it not? Does the specification reflect this decision?	24.229	N1-011935	How to route CANCEL of an INVITE if it is not? -> Answer: I-CSCF is stateful in registration procedure and if hiding is required, then also in session initiation procedures.
1.5	What shall be encoded in To and From headers by the UE?	24.228, 24.229	N1-011752	Third party registration is out of Rel-5. CR to update the To/From headers in 24.228 and the 24.229 CR is still needed. Encryption of To and From headers still needs to be solved. CN1 will wait for IETF decision on the week from 6th of May 2002. ~~(Nokia)~~ Nokia will draft a proposal based on IETF position.
1.6	Is IMPI needed in P-CSCF for e.g. charging purposes? SA2, SA5	24.228, 24.229		It is believed that that the private ID is required in the P-CSCF. The Requirements from SA2 or SA5 to use IMPI in P-CSCF need to be confirmed. P-CSCF gets the IMPI during registration and so it will be available if needed for e.g. charging.
1.7	What information is needed from HSS to I-CSCF for S-CSCF selection? CN4	23.218	N1-020417 N1-020664	CN4 to define the data contents must be standardised even though the procedure is not. N1-020417 puts a pointer for Cx data

				to 29.228 ?
1.8	Emergency calls	24.228, 24.229	N1-020294 N1-020436	WI moved to Rel-6 The existing draft call flow needs to be removed from 24.228. (Ericsson) ~~There is some discussion regarding the decision to use the Message Body but this does not impact the basic working assumption~~
1.9	Does a Re-INVITE need to be forwarded to AS by the S-CSCF?	24.228, 24.229		What to follow? Route headers or filtering rules? It has been determined that Route header is used.~~(Ericsson, Siemens, Nortel)~~
1.10	Is there a need to carry the implicitly registered public IDs from S-CSCF to P-CSCF or is it enough if the P-CSCF stores only the registered contact information?	24.229		Replication of data in P-CSCF? Mandatory SUBSCRIBE from P-CSCF to S-CSCF? Delivery of dialled identity to callee? Done by means of NOTIFY
1.11	Is INFO method referenced in 3GPP IMS in Rel-5	24.228, 24.229		There are several editor's notes in 24.229 questioning whether the INFO method is supported. Not in Rel-5
1.12	Is MESSAGE method referenced in 3GPP IMS in Rel-5	24.228, 24.229		Needed for messaging. Up to SA2 to define whether it is needed for presence which is a Rel-5 WI. Not in Rel-5
1.13	Is OPTIONS method referenced in 3GPP IMS in Rel-5	24.228, 24.229		If the answer is yes, then the usage, if different from IETF, must be specified in 24.228 and 24.229. Included in Rel-5
1.14	Hiding at I-CSCF	24.229	N1-012056	11.3.3 and 11.3.4 to be created (or restructured) The text is in the annex but it still needs to be moved to the main body of the TS.
1.15	Clause 5 missing in 24.228	24.228		Waiting for input from SA2. This chapter should contain subflows for setting up and tearing down of PDP contexts. Explicitly indicated signalling PDP context? Clause 5 is there now. Some editor's notes still exist but these are covered by a separate open item.
1.16	Sr interface protocol between AS – MRF SA2	23.218	N1-020113 N1-020392	SA2 to develop the stage 2 information flows first and then CN1 specification text is needed. Not in Rel-5
1.17	Sh interface protocol between HSS – AS	23.218	N1-021385	SA2 to develop the stage 2 information flows first and then CN1 specification text is needed Not a CN1 issue except for that a reference to 3GPP TS 29.328 [17] and 3GPP TS 29.329 is added in N1-021385.~~.~~
1.18	Filtering of unknown methods	23.218		Decision that unknown methods can be filtered.
1.19	Information from S-CSCF to AS about user registered	23.218		How does the AS become aware that the user has registered. Agreed to use REGISTER method
1.20	Correlation of B2BUA-AS calls	24.229,	N1-020934	How does the S-CSCF become aware

		(24.228), (23.218)		that an incoming call from an AS, that acted as a B2BUA for that call, is the same call as previously sent to the AS? Dialogue ID inside the message body is used to identify this. Needs a P-Original-Dialog-IDHeader was agreed at CN1#23
1.21	Call Release from S-CSCF / AS	23.218, (24.228, 24.229?)		23.228 states that the S-CSCF shall be able to release a call. How can the S-CSCF release a call? Shall this be done by an AS instead? If yes, how is this performed? Transparent B2BUAsolves this.
1.22	Call Release from P-CSCF	24.229, (24.228, 23.218?)	N1-021006	23.228 states that the P-CSCF shall be able to release a call. How can the P-CSCF release a call? Shall this be done by an AS instead? If yes, how can the P-CSCF request the AS to release the call? Transparent B2BUAsolves this.
1.23	Addition of Cell ID to SIP signalling	24.228, 24.229	N1-020399	3GPP specific container in the message body will need to be defined. (Vodafone, Ericsson) Needs a P-Header Need to write Internet draft and submit quickly as this may be controversial because of overlap with IETF location work.
1.24	Determination of MOC / MTC in P-CSCF, I-CSCF and S-CSCF	24.229, (24.228?)	N1-021060 N1-021248	How does the P-/S-CSCF find out if it shall act for the MO or the MT case? Both CSCFs plant an indicator in path header for themselves for subsequent sessions. Also the I-CSCF part is covered in N1-021248. (Siemens, dynamicsoft)
1.25	Determination of Served User in S-CSCF	24.229, (24.228?)	N1-021060	Upon an incoming initial request how does the S-CSCF find out the user for whom to perform services? The problem especially occurs if the P-/S-CSCF serves both users. (Siemens)
1.26	Charging identifier SA2 ?	24.228 24.229	N1-020296 N1-020907 N1-020921 N1-020922 N1-020924 N1-020937	Which CSCFs are impacted? Needs a P-Header
1.27	Transport of Security Parameters CK and IK from S-CSCF to P-CSCF and matching of INVITES to previous authentications at P-CSCF.	24.228 24.229	N1-020094 N1-020154 N1-020418 N1-020824 N1-020915 N1-021509	The keys are sent by S-CSCF to P-CSCF in proprietary parameter in www-authenticate header of the 401 UNAUTHORISED. P-CSCF matches the IK used for integrity protection of the message to the IMPU. Needs a P-Header ???
1.28	How to handle the DTMF?	24.229	N1-020499 N1-020666	Is DTMF transported in SIP (CN1) or RTP (CN3) signalling? (H3G, Vodafone, Lucent)

				Decision has been made to use RTP.
1.29	Indication from P-CSCF to S-CSCF whether a REGISTER message was received (at P-CSCF) integrity protected or not.	24.228 24.229	N1-020901 N1-020916 N1-021007	This principle has been agreed but a CR to add the details is also needed. (Vodafone, H3G, Nokia)
1.30	Is filtering done just once or mutliple times?	23.218	N1-020637	N1-020164 highlights the problem but there is no solution yet. (Lucent, Nokia)
1.31	IM CN and GPRS interaction during session initiation	24.008	N1-020442 N1-020456	- P-CSCF address to UE - indication of signalling PDP context - authorisation token to SGSN
1.32	Dependencies to IETF drafts	23.218	N1-020516	Satisfying references to drafts by either: - references to RFCs - annexed drafts - deletion of reference Updates to RFC references agreed and made after CN#15
1.33	Dependencies to IETF drafts	24.228	N1-020516 N1-021353	Satisfying references to drafts by either: - references to RFCs - annexed drafts - deletion of reference Nokia
1.34	Dependencies to IETF drafts	24.229	N1-020516 N1-021091 N1-021354 N1-021357 N1-021361	Satisfying references to drafts by either: - references to RFCs - annexed drafts - deletion of reference Lucent
1.35	Security Association related parameter inclusion in SIP messages	24.228 24.229		Input required from SA3
1.35	SigComp failure	24.229		Handling of the case when compressor/decompressor is reset due to failure.
1.36	Local emergency calls for roaming subscribers	24.229		In some cases it will be difficult for the home P-CSCF to detect that an emergency call was attempted. Some solution is needed already in Rel-5 in order to reject the attempt.

2. Missing text paragraphs				
#	**Description**	**TS**	**CRs**	**Comment**
	Missing clauses in 23.218	23.218		
2.1.1	6.1 Modes of operation between S-CSCF and Application Server	23.218	N1-020137	
2.1.2	6.3 (S-CSCF) handling of IP Multimedia Registration	23.218	N1-020385 N1-020552 N1-021424 N1-021425	
2.1.3	6.6 (S-CSCF) Handling of Multimedia session release	23.218	N1-020110	
2.1.4	6.7 (S-CSCF) Handling of Subscription and notification	23.218	N1-020634	Empty clause
2.1.5	6.8.2 (S-CSCF) Definition of authentication data that is sent across the Cx interface	23.218	N1-020072	References to 23.008 and 33.203
2.1.6	7 Functional requirement for HSS	23.218	N1-020109 N1-020552	CN4 input needed. Covered with references to CN4 documents.
2.1.7	8 Functional requirements for MRFC	23.218	N1-020392 N1-020451 N1-020452 N1-020453 N1-020552 N1-020662	N1-020392 redefines this playground after removal of Sr interface. Two remaining editor's notes are not significant open items and should be removed. There is a separate open item on this in 3.5
2.1.8	9 (AS) Handling of IP multimedia calls	23.218	N1-020071 N1-020115 N1-020119 N1-020231 N1-020387 N1-020393 N1-020450 N1-020552 N1-020607 N1-021423 N1-021425	The two remaining editor's notes do not contain any major open item.
2.1.9	11.3 GSM service control detection points	23.218	N1-012051	Empty clause. Agreed to move to CN2 document. The whole section is replaced with a reference to 23.278
2.1.10	The first editor's note in clause 12	23.218	N1-011874 N1-020069	Is the editor's note redundant or is there still some restructuring of this clause and CN5 specifications needed? The whole section was replaced with a reference to OSA specifications.
2.1.11	Resolve download of Filter Criteria for Unregistered User	23.218	N1-020953 N1-020972	Annex Example uses default filter criteria which is not defined in main text
2.1.12	Application Server thirtd party Registration with R99 USIM ID	23.218		dynamicsoft
	Missing clauses in 24.228	24.228		
2.2.1	Clause 6.4 Registration signalling: mobile initiated deregistration (not provided)	24.228	N1-020427	Hiding cases are already provided in clause 16.4 and therefore 6.4 should be replaced with a reference to 16.4
2.2.2	Clause 6.7 Notifying of the network initiated deregistration event	24.228	N1-020020 N1-020143 N1-020270 N1-020427 N1-020631	

			N1-021435	
2.2.3	Clause 7.2.4.2 PSTN originated sessions routed towards CS domain (through G-MSC)	24.228		Clause to be deleted? Call flow not needed, marked as not provided.
2.2.4	Clause 7.2.4.3 PSTN originated sessions routed either towards IM CN subsystem or towards CS domain	24.228		Clause to be deleted? Call flow not needed, marked as not provided.
2.2.5	Clause 7.2.5 Error handling: origination procedures	24.228		This empty title is error handling of INVITE when not registered. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.6	Clauses 7.3.3 and 7.3.4 Not Applicable	24.228		Empty clauses, should be removed? 7.3.3 and 7.3.4 are needed to keep clauses 7 and 17 consistent.
2.2.7	Clause 7.3.5.3 Origination failure	24.228		Just a title "Origination failure" with no explanation of what kind of failure case was intended. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.8	Clause 7.4.3.2 UE-detected failure/resource failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.9	Clause 7.4.3.3 Origination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.10	Clause 7.4.4.2 MGCF-detected failure/resource failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.11	Clause 7.4.4.3 Origination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.12	Clause 7.6 Error handling: session initiation	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.13	Clause 8 Signalling flows for session release (non hiding)	24.228	N1-020427	What about PSTN interworking and error cases? 8.3 and 8.4 must be either added or marked as not provided. -> done to v.2.0.1
2.2.14	Clause 9 Network initiated procedures (non hiding)	24.228	N1-020427	Empty clause, just like 19.
2.2.15	Clause 17.3.2.2 Termination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.

2.2.16	Clause 17.3.2.3 Origination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.17	Clause 17.3.3.2 Termination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.18	Clause 17.3.3.3 Origination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.19	Clause 17.3.4.2 Termination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.20	Clause 17.3.4.3 Origination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.21	Clause 17.3.5 Not applicable	24.228		The clause is needed to keep clauses 7 and 17 consistent so it is defined as not applicable (for hiding case)
2.2.22	Clause 17.3.7.1 (S-S#4) PSTN Termination performed by different operator than origination (not provided)	24.228	N1-020427	Clause to be deleted? Call flow not needed, marked as not provided.
2.2.23	Clause 17.4.2.2 UE-detected failure/resource failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.24	Clause 17.4.2.3 Origination failure	24.228		Another empty title. Do we add the call flow or delete the heading? Call flow not needed, marked as not provided.
2.2.25	Clause 17.4.3 Not applicable	24.228		Should be removed? The clause is needed to keep clauses 7 and 17 consistent so it is defined as not applicable (for hiding case)
2.2.26	Clause 17.4.4 Not required	24.228	N1-020427	7.4.4 does exist, so this is needed for keeping the subclause numbers consistent.
2.2.27	Clause 17.6 Error handling: Session Initiation	24.228		Another empty title. Do we add the call flow or delete the heading? 7.6 is already not provided and the CN1 tdoc to which the editor's note refers is historical. Proposal to make 17.6 "Not provided".CR editor needed!
2.2.28	Clause 18 Signalling flows for session release (hiding)	24.228	N1-020427	What about PSTN interworking and error cases? An example of 18.3 and 18.4 is not

				shown in this specification.
2.2.29	Clause 19 Network initiated procedures (hiding)	24.228	N1-020427	Empty clause, just like 9. An example of this flow is not shown in this specification.
2.2.30	Clause 20 Procedures to enable enhanced multimedia services (hiding)	24.228		Another empty title. Do we add the call flow or delete the heading? An example of this flow is not shown in this specification.
2.2.31	Loose routing changes in IETF	24.228 24.229	N1-020940 N1-021040 N1-021041 N1-021092 N1-021098 N1-021413 N1-021414 N1-021415 N1-021416	implement the necessary call flow changes to align 24.228 with the latest IETF draft version. N1-020940 does session release part for 24.229. Nokia, Siemens, AWS, dynamicsoft, Nortel All done in CN1 #24
2.2.32	Max-forwards changes in IETF	24.228	N1-020813 N1-020940 N1-021040 N1-021041 N1-021061 N1-021092 N1-021098 N1-021151 N1-021229 N1-021239 N1-021413 N1-021414 N1-021415 N1-021416 N1-021503 N1-021504 N1-021505	implement the necessary call flow changes to align 24.228 with the latest IETF draft version. Registration flows are done, session establishment and clearing to be done Nokia, dynamicsoft, Siemens, AWS, Nortel
2.2.33	Alignment with Manyfolks and Update -and use of SDP with Preconditions	24.228 24.229	N1-020933 N1-020940 N1-021040 N1-021041 N1-021061 N1-021092 N1-021098 N1-021169 N1-021229 N1-021232 N1-021381 N1-021413 N1-021414 N1-021415 N1-021416 N1-021452 N1-021453 N1-021464 N1-021503 N1-021504 N1-021505 N1-021513	implement the necessary call flow and procedure changes to align 24.228 and 24.229 with the latest IETF draft version. offer-answer / offer-counter-offer-answer Nokia, Siemens, AWS, dynamicsoft, Nortel
2.2.34	Digest AKA authentication	24.228	N1-020824 N1-020904	implement the necessary call flow changes to align 24.228 with the latest IETF draft version. (encoding auth.

				parameters in digest rather than EAP)
2.2.35	XML body vs. P-headers	24.228	N1-020824	implement the necessary call flow changes to align 24.228 with the latest IETF draft version. (XML body or P-headers for transfer of 3GPP specific information) Lucent
2.2.36	To and From headers	24.228		What does the UE encode in To and From headers? CN1 will wait for IETF decision on the week from 6th of May 2002. A proposal based on IETF position will be drafted by Nokia.
2.2.37	Branch removal in Route headers	24.228	N1-020813 N1-020940 N1-021040 N1-021041 N1-021092 N1-021098 N1-021239 N1-021413 N1-021414 N1-021415 N1-021451	implement the necessary call flow changes to align 24.228 with the latest IETF draft version. Nokia, Siemens, AWS, dynamicsoft, Nortel
2.2.38	Integrity check indication from P-CSCF to S-CSCF	24.228	N1-020916	Indication from P-CSCF to S-CSCF that a REGISTER was received unprotected. Nokia
2.2.39	Media Authorization token as P-Header	24.228	N1-020813 N1-021092 N1-021415	Call flow changes to add media authorization token Nokia, dynamicsoft, AWS, Siemens
2.2.40	Rework of Path Header compliant with draft willis and ServRoute	24.228		dynamicsoft
2.2.41	Alignment of SDP with Ipv6 not SDP new	24.228		Not required as SDPnew is planned for batch 3
2.2.42	Privacy updates	24.228	N1-020940 N1-021040 N1-021041 N1-021061 N1-021092 N1-021098 N1-021413 N1-021414 N1-021415 N1-021416 N1-021503 N1-021504 N1-021505	A lot of new requirements in IETF, therefore this item has gone back to red -> and changed to yellow since the work was already started in CN1 #24 by at least deleting old RP-ID stuff which is not going to be used. Asserted Identity usage according to draft-jennings-sipping-nai needs to be defined. Nokia, Siemens, AWS, dynamicsoft, Nortel
2.2.43	Security Association setup procedures	24.228		Negotiation and setup of SA using 494 Security Agreement Required and REGISTER as a reply to initial REGISTER.
	Missing clauses in 24.229	24.229		
2.3.1	4.2 URL and address assignments	24.229	N1-020198	
2.3.2	8 SIP compression	24.229	N1-020198 N1-020945 N1-021099 N1-021499	Nortel, Lucent?

2.3.3	A.2.2.4<s>3</s> Status codes table is not complete	24.229	N1-021173 N1-021054 N1-021059 N1-021169 N1-021357 N1-021359 N1-021360 N1-021361	<s>What should it actually indicate?</s>Some data is still missing from the tables. There was an improvement in this area during CN1 #24 but more work is still needed. Lucent
2.3.4	Annex A.3 SDP types	24.229	N1-011836 N1-021467	Which ones of the IETF defined SDP types are to be supported by 3GPP Lucent?
2.3.5	7.1 SIP methods defined in 3GPP	24.229		SIP extensions which are defined only in 3GPP Editor's note to be replaced with statement that there are no new methods defined in this version of the specification. Lucent?? No new methods are defined by 3GPP therefore the clause is completeNortel
2.3.6	7.2 SIP headers defined in 3GPP	24.229	N1-020198 N1-020623 N1-020915 N1-021003 N1-021005 N1-021096	SIP extensions which are defined only in 3GPP <s>Editor's note in 7.2 to be deleted.</s> <s>If</s>AsPath header is standardised in IETF in time, then the contents of this clause <s>can also</s>must be replaced with statement that there are no new headers defined in this version of the specification. The same principle applies to any (P-) headers. N1-021096 deals with Tokenised-by parameter. Remove Path and use draft willis and ServRoute Nortel
2.3.7	7.3 SIP option tags defined in 3GPP	24.229		SIP extensions which are defined only in 3GPP <s>Editor's note in 7.3 to be deleted.</s> "path" option tag is defined and no others are known now. This may need to be removed as also the option tag is covered in draft-willis-sip-path-05. Nortel
2.3.8	7.4 SIP status codes defined in 3GPP	24.229		SIP extensions which are defined only in 3GPP Editor's note to be replaced with statement that there are no new status codes defined in this version of the specification. Nortel
2.3.9	7.5 SDP types defined in 3GPP	24.229		SIP extensions which are defined only in 3GPP Editor's note to be replaced with statement that there are no new SDP types defined in this version of the specification. Nortel
2.3.10	7.6 3GPP IMS XML body, version 1 and 3GPP IMS related P-headers.	24.229	N1-020399 N1-020656	3GPP specific container in XML body, initially visited network

			N1-020659	identity, cell global identity, original dialog ID, IMPU and RAT.
			N1-020671	Because of new working assumption all XML fields need to be re-evaluated as many of them will be defined as P-headers.
			N1-021433	
			N1-021508	
			N1-021510	
			N1-021456	N1-021433 – P-Visited-Network-ID
			N1-021458	N1-021508 – P-Service Route
			N1-021498	N1-021510 – P-Associated-URI
			N1-021513	N1-021456 – P-Original-Dialog-ID
				N1-021458 – P-Charging-Function-Addresses
				N1-021458 – P-Charging-Vector
				N1-021498 – P-Access-Network-Info
				N1-021513 – P-Charging-Vector
				Lucent –Charging
				Dynamicsoft
				H3G
2.3.11	5.1 (SIP) Procedures at UE	24.229	N1-011986	UE procedural description. Some of this material is already in place in Annex A
			N1-011989	
			N1-012025	
			N1-020123	
			N1-020142	If no editor's notes are left in this subclause, then it can be marked green. If there are any editor's notes left, convert them to separate open items.
			N1-020157	
			N1-020198	
			N1-020500	
			N1-020604	
			N1-020627	
			N1-020642	Nokia
			N1-020671	
			N1-020959	
2.3.12	5.2 (SIP) Procedures at P-CSCF	24.229	N1-011984	P-CSCF procedural description. Need to Rework for PATH
			N1-011988	
			N1-012021	
			N1-012057	If no editor's notes are left in this subclause, then it can be marked green. If there are any editor's notes left, convert them to separate open items.
			N1-012031	
			N1-020142	
			N1-020064	
			N1-020151	
			N1-020396	
			N1-020416	dynamicsoft
			N1-020418	
			N1-020421	
			N1-020198	
			N1-020624	
			N1-020659	
			N1-020669	
			N1-020901	
			N1-020907	
			N1-020938	
			N1-021004	
			N1-021083	
			N1-021508	
2.3.13	5.3 (SIP) Procedures at I-CSCF	24.229	N1-012056	I-CSCF procedural description. Need to Rework for PATH
			N1-020417	
			N1-020198	
			N1-020521	If no editor's notes are left in this subclause, then it can be marked green. If there are any editor's notes
			N1-020624	
			N1-020649	

				N1-020659 N1-020910 N1-020970 N1-021506 N1-021469 N1-021078	left, convert them to separate open items. dynamicsoft
2.3.14	5.4 (SIP) Procedures at S-CSCF	24.229	N1-011985 N1-012045 N1-020124 N1-020142 N1-020146 N1-020165 N1-020398 N1-020415 N1-020418 N1-020419 N1-020198 N1-020617 N1-020623 N1-020624 N1-020627 N1-020642 N1-020659 N1-020656 N1-020668 N1-020670 N1-020903 N1-020907 N1-020927 N1-020939 N1-020969 N1-020967 N1-021083 N1-021097 N1-021440 N1-021443 N1-021506	S-CSCF procedural description. Need to Rework for PATH If no editor's notes are left in this subclause, then it can be marked green. If there are any editor's notes left, convert them to separate open items. dynamicsoft
2.3.15	5.5 (SIP) Procedures at MGCF	24.229	N1-020159 N1-020198 N1-020500 N1-020507 N1-020614 N1-020659 N1-020960 N1-020967	MGCF procedural description. Lucent
2.3.16	5.6 (SIP) Procedures at BGCF	24.229	N1-012022 N1-020198 N1-020659	BGCF procedural description
2.3.17	5.7 (SIP) Procedures at AS	24.229	N1-020165 N1-020198 N1-020398 N1-020617 N1-020624 N1-020659 N1-020668 N1-020907	AS procedural description
2.3.18	5.8 (SIP) Procedures at MRFC	24.229	N1-011828 N1-020198 N1-020504 N1-020611 N1-020612	MRFC procedural description Lucent

			N1-020613 N1-020659 N1-021434	
2.3.19	6.1 (SDP) Procedures at UE	24.229	N1-020198 N1-020422 N1-020500 N1-020646 N1-020971	Lucent Nokia?
2.3.20	6.2 (SDP) Procedures at P-CSCF	24.229	N1-020198 N1-020449 N1-020500	
2.3.21	6.3 (SDP) Procedures at S-CSCF	24.229	N1-020198 N1-020449	
2.3.22	6.4 (SDP) Procedures at MGCF	24.229	N1-020159 N1-020198	Lucent?
2.3.23	6.5 (SDP) Procedures at MRFC	24.229	N1-020198 N1-020424	Open Issue remains that there is no text for UE initiated MRFC procedures. Also, is this part of Rel-5 (CN1 – SA2)
2.3~~4~~.24	New protocol elements: PATH header	24.229	N1-020198	Defined in 7.2 This text may be removed or modified when aligned to willis path and ServRoute dynamicsoft
2.3~~4~~.25	New protocol elements: path option tag	24.229	N1-020198	Defined in 7.3 This text may be removed when aligned to willis path and ServRoute dynamicsoft
2.3~~4~~.26~~3~~	(7.5) New SDP types and handling of SDP in the UE	24.229		Editor's note in 7.5 to be replaced with statement that there are no new SDP types defined in this specification. Lucent? This open item is duplicated. It is already covered in 2.3.9
2.~~3~~.27	S-CSCF not available error cases at I-CSCF	24.229		Actually not errors but real life failure cases that must be defined. This is the case when the S-CSCF can be allocated but it does not respond.
2.~~6~~3.28	Notation of tokenisation, both definition and implementation throughout the TS	24.228	N1-021096	Nokia
2.~~3~~.29~~7~~	Removal of the conflict between 23.228 and 24.228 in case GGSN and P-CSCF are not in the same network as UE?	24.228		The assumption in 24.228 that the UE and P-CSCF are in the same network should be changed (P-CSCF and GGSN are in the same network) but the actual call flows are not affected. At least clause 5.2.3 is still incorrect. This change of working assumption is already covered.
2.~~3~~.28	5.1.1.7 Network initiated deregistration	24.229	N1-020198	The UE behaviour?
2.3.29	Definition of Registration State Event Package	24.229	N1-020198 N1-021436	This is a new event package ~~an extension to the already existing presence event package. The extension is needed due to the re-authentication addition to presence that is made by CN1~~. Clause 5.1.1.3 will cover this. ~~Editorial correction to version 1.2.1 will still be needed.~~ Informational RFC required Siemens?
2.~~1~~3.3	9 GPRS aspects when connected to IMS	24.229	N1-020198	IM CN – GPRS interaction

0			N1-020408 N1-020626	
2.13.31	R99 USIM derived Public user identity, private user identity and home domain nameformat	23.003	N1-021461	Vodafone
2.3.32	R99 USIM Public user identity barring in the S-CSCF at registration ands session initiation for MO and MT calls	24.229		Vodafone, Lucent?
2.3.33	Remote Party ID insertion into initial request	24.229		Nokia, Lucent
2.3.34	Public Identity validation at the P-CSCF	24.299		Nokia
2.3.35	Multiple media types per PDP context	24.229	N1-021486 N1-021289	Ericsson, Nokia
2.3.36	Security Association setup procedures	24.229		Negotiation and setup of SA using 494 Security Agreement Required and REGISTER as a reply to initial REGISTER.
2.3.37	3GPP specific warn codes	24.229		Warning header is already part of 3GPP specification. But some 3GPP specific warn codes are foreseen additionally to the warn codes which have already been registered. (such as non-existent user, roaming not allowed, Network Congestion, Invalid dialled ID, Invalid own ID, Illegal UE)

3. Specification consistency				
#	Description	TS	CRs	Comment
3.1	Unstable clauses in 23.218 Annex C	23.218	N1-020036	Material to be moved to the appropriate places in the main body of the document
3.2	Unstable clauses in 24.228 Annex A	24.228	N1-020427 N1-020512	Material to be moved to the appropriate places in the main body of the document. Only one call flow, re-registration failure case remains. Repair or delete it?
3.3	Informative material in 24.229 Annex B	24.229	N1-020198 N1-020511	The annex should be deleted before freezing when it is not needed any more. The contents did not match the title but after N1-020198 moves all material to the main body for version 1.2.0 this does not matter any more. The Annex with editor's notes still needs to be deleted.
3.4	Working assumptions in 24.229 Annex C	24.229	N1-020512	List of working assumptions which have not yet been implemented in CN1 specifications. To be deleted before freezing.
3.5	Editor's notes in 23.218 must be deleted or replaced with normative text	23.218	N1-020036 N1-020114 N1-020662	All done for version 2.0.0
3.6	Editor's notes in 24.228 must be deleted or replaced with normative text	24.228	N1-011834 N1-012016 N1-012017	
3.7	Editor's notes in 24.229 must be deleted or replaced with normative text.	24.229	N1-012015 N1-020603 N1-021159 N1-021161 N1-021162 N1-021163 N1-021175 N1-021176 N1-021178 N1-021179 N1-021183 N1-021184 N1-021233 N1-021264 N1-021466 N1-021470 N1-021471 N1-021472 N1-021487	Lucent?
3.8	Systematical checking of reserved words {can, must, may, will, shall}	23.218	N1-020653	This was done in Oulu.
3.9	Systematical checking of reserved words {can, must, may, will, shall}	24.228		
3.10	Systematical checking of reserved words {can, must, may, will, shall}	24.229	N1-020437	This is considered complete as well currently
3.11	Deletion of Annex C	23.218		Minor task now that this temporary information storage is empty Not any more as the current annex C contains overview of filtering
3.12	Hanging text paragraph in section 6	23.218		This has been corrected to version

				2.0.0
3.13	9.4 Specific IP Multimedia session handling for SIP Application Servers	23.218		If no specific session handling procedures are defined the the whole clause needs to be deleted The contents has been added to version 2.0.0
3.14	Systematic checking of correct use of defined terminology	23.218, 24.228, 24.229	N1-011864 N1-011905 N1-012012 N1-012013 N1-012014 N1-012015 N1-020019 N1-020053 N1-020054 N1-020473 N1-020530 N1-020653 N1-020835 N1-020836 N1-020852 N1-020949 N1-021500 N1-021501 N1-021502 N1-021503 N1-021469 N1-021274	Collecting the used terms to vocabulary and checking the correct spelling of defined terms such as private user identity and public user identity
3.15	Correction to use of Offer-counter offer answer terminology	23.218	N1-020951	
3.17	R99 USIM compatibility check	24.228 24.229	N1-021441	Add a call flow to 24.228 to show the usage of derived public user identity. Add the 24.229 requirements to handle not just explicit ISIM identites but also the derived ones. (this part is partly done in CN1 #24.) Vodafone