## 3GPP TSG CN#18 Tdoc NP-020667

New Orleans, USA 4th-6th, November 2002

**Source:** dynamicsoft

**Title:** CN1 IMS Open Items List

**Agenda item:** 8.1

**Document for:** Information

## Introduction

CN1 have been maintaining an IMS Open Items list for the last 12 months to track the open issues and progress towards stabilisation of the CN1 IMS specifications.

As of CN#18 there are 14 not done or only partly done items on this list and of these the vast majority of open items are in TS 24.228, which contains informative call flows.

It therefore can be concluded that the other two CN1IMS specifications (TS 23.218 and TS 24.229) can be considered stable and according to the original intention the maintainer considers that this document has become redundant with the full stabilisation of Rel-5 IMS related CN1 TSs (except for TS 24.228) and therefore the intention is to cease maintaining this document.

A further complete pass through TS 24.228 is required to align with the final versions of the IETF RFCs and to be consistent throughout with the changes already identified here. This task can be expected to be completed at CN#19.

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	25 = CN #17	26	27 = CN #18
Red = not done	102	90	70	44	27	22	9	12	13	8	2
Yellow = partly	1	11	22	31	9	29	26	16	17	16	<u>12</u>
done											
Green =	4	9	22	42	92	85	101	119	124	132	<u>143</u>
completed											
Total	107	110	114	117	128	136	141	147	154	156	157

The breakdown of Open Issues by specification is as follows:

After CN1	TS	TS 24.228	TS 24.229
Meeting	23.218		
Red = not done	0	1	1
Yellow = partly	0	9	3
done			

## Open items

1. Miss	ing 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
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 6 <sup>th</sup> of May 2002. 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,	N1-020294	WI moved to Rel-6
		24.229	N1-020436	The existing draft call flow needs to be removed from 24.228. (Ericsson)
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.
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, (24.228), (23.218)	N1-020934	How does the S-CSCF become aware 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-ID was
				agreed at CN1#23
1.21	Call Release from S-CSCF / AS	23.218,		23.228 states that the S-CSCF shall be
1.21	Cult release from 5 eser / 115	(24.228,		able to release a call. How can the S-
		24.229?)		CSCF release a call? Shall this be
		24.227.)		done by an AS instead? If yes, how is
				this performed?
				Transparent B2BUAsolves this.
1.22	Call Release from P-CSCF	24.229,	N1-021006	23.228 states that the P-CSCF shall be
1.22	Can Release Hom 1 - eser	(24.228,	111-021000	able to release a call. How can the P-
		23.218?)		CSCF release a call? Shall this be
		23.210.)		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,	N1-020399	3GPP specific container in the
1.25	Addition of Cen 1D to Sir signating	24.229	111-020377	message body will need to be defined.
	The second secon	24.22)		(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-	24.229,	N1-021060	How does the P-/S-CSCF find out if it
112	CSCF and S-CSCF	2225,	N1-021248	shall act for the MO or the MT case?
	100.00 111111 2 00.00		1.1. 3212.13	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,	N1-021060	Upon an incoming initial request how
		(24.228?		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	24.228	N1-020296	Which CSCFs are impacted?
	SA2 ?	24.229	N1-020907	Needs a P-Header
			N1-020921	
			N1-020922	
			N1-020924	
			N1-020937	
1.27	Transport of Security Parameters CK and IK	24.228	N1-020094	The keys are sent by S-CSCF to P-
	from S-CSCF to P-CSCF and matching of	24.229	N1-020154	CSCF in proprietary parameter in
	INVITES to previous authentications at P-		N1-020418	www-authenticate header of the 401
	CSCF.		N1-020824	UNAUTHORISED.
			N1-020915	P-CSCF matches the IK used for
			N1-021509	integrity protection of the message to
				the IMPU.
1.00	II. ( 1 . II. 4 . DE) CO	24.220	N1 020 100	Needs a P-Header ???
1.28	How to handle the DTMF?	24.229	N1-020499	Is DTMF transported in SIP (CN1) or
			N1-020666	RTP (CN3) signalling?
				(H3G, Vodafone, Lucent)
1.00	The state of the s	24.222	N1 00000	Decision has been made to use RTP.
1.29	Indication from P-CSCF to S-CSCF whether	24.228	N1-020901	This principle has been agreed but a
	a REGISTER message was received (at P-	24.229	N1-020916	CR to add the details is also needed.
1.30	CSCF) integrity protected or not.  Is filtering done just once or mutliple times?	23.218	N1-021007 N1-020637	(Vodafone, H3G, Nokia) N1-020164 highlights the problem but
1.30	is intering done just once of multiple times?	23.218	111-020057	there is no solution yet.
				there is no solution yet.

				(Lucent, Nokia)
1.31	IM CN and GPRS interaction during session	24.008	N1-020442	P-CSCF address to UE
	initiation		N1-020456	<ul> <li>indication of signalling PDP</li> </ul>
				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	Satisfying references to drafts by
1.55	Dependences to 1211 drafts	24.220	N1-021353	either:
			111 021000	• references to RFCs
				annexed drafts
				deletion of reference
				Nokia
				It has been determined for the moment
				to leave the few remaining internet
1.04	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24.220	NI 000516	draft references as is.
1.34	Dependencies to IETF drafts	24.229	N1-020516 N1-021091	Satisfying references to drafts by either:
			N1-021091 N1-021354	• references to RFCs
			N1-021357	annexed drafts
			N1-021361	deletion of reference
				It has been determined for the moment
				to leave the few remaining internet
				draft references as is.
				Lucent
1.35	Security Association related parameter	24.228		Input required from SA3
1.25	inclusion in SIP messages	24.229	NII 022401	The West Colonia Land
1.35	SigComp failure	24.229	<u>N1-022481</u>	Handling of the case when compressor/decompressor is reset due
				to failure. Awaiting solution from
				IETF
				Nokia,
				Dynamicsoft
				Siemens
				Above companies all have proposals.
				Dynamicsoft proposal submitted to
				IETF ROHC working group, Siemens
				also propose submitting their proposal to ROHC
				It was determined that the recovery
				mechnaims is implementation specific
1.36	Local emergency calls for roaming	24.229		In some cases it will be difficult for
	subscribers			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.
1.27	Application Source Originated as success	22.219		Vodafone Application Server may originate
1.37	Application Server Originated requests. Should Filter Criteria be evaluated and in	23.218 24.229		Application Server may originate requests. Do these trigger evaluation
	what cases?	24.229		of filter criteria? If so for both
	what cases:			Origination and Termination criteria?
				May an AS originate a request with
				Public User Identity of the IMS
				subscriber? Issue for discussion in

				dynamicsoft
1.3	8 Serving CSCF assignment when subscriber			LS sent to SA2
	is not registered and problem withlong lived			Siemens
	dialogs such as Subscribe causing S-CSCF			S-CSCF assignment and long lived
	assignment to be locked in			dialogs release 6 issue
1.3	9 Multiple media types per PDP context	24.229	<u>N1-022494</u>	Ericsson, Nokia
				Needs decision from CN and SA
				plenary as it may delay IMS and
				release 5 completion
1.4	• Alignment with IETF SIP for	23.218		LS sent from CN and SA to CN and
	interoperability	24.228		SA working groups
		24.229		Joint meeting held with SA2. A
				number of issues resolved at CN1#27.
				Outstanding issue is SDP media
				filtering which was not agreed at
				<u>CN1#27</u>

2. Missi	ing 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 N1-020331 N1-020387 N1-020450 N1-020450 N1-020607 N1-021423 N1-021423	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 third party Registration with R99 USIM ID	23.218		dynamicsoft
2.1.13	Application Server Originated requests. Should Filter Criteria be evaluated and in what cases?	23.218	N1-022144	dynamicsoft
2.1.14	Restriction of use of Service Info to REGISTER	23.218	<u>N1-022475</u>	dynamicsoft
	Nr. 1 1 24222	04.000		
0.0.1	Missing clauses in 24.228	24.228	N1 020427	TTU
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

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2.2.2	Clause 6.7 Notifying of the network initiated deregistration event	24.228	N1-020020 N1-020143	
	deregistration event		N1-020270	
			N1-020427 N1-020631	
2.2.3	Clause 7.2.4.2 PSTN originated sessions	24.228	N1-021435	Clause to be deleted?
2.2.3	routed towards CS domain (through G-MSC)	24.228		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  2.2.26 Clause 17,3,2.3 Origination failure  2.2.27 Clause 17,3,3.2 Termination failure  2.2.28 Do we add the call flow or de heading? Call flow not needed, marked provided.  2.2.28 Another empty title. Do we add the call flow or de heading? Call flow not needed, marked provided.  2.2.28 Another empty title. Do we add the call flow or de heading? Call flow not needed, marked provided.  2.2.29 Clause 17,3,3,3 Origination failure  2.2.20 Clause 17,3,4,3 Origination failure  2.2.21 Clause 17,3,4,3 Origination failure  2.2.22 Clause 17,3,5 Not applicable  2.2.23 Clause 17,3,7,1 (S-S#4) PSTN Termination performed by different operator than origination (not provided)  2.2.24 Clause 17,4,2,2 UE-detected failure/resource failure  2.2.25 Clause 17,4,2,3 Origination failure  2.2.26 Clause 17,4,2,3 Origination failure  2.2.27 Clause 17,4,2,3 Origination failure  2.2.28 N1-020427 Clause is needed to keep and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is defined applicable (for hiding case and 17 consistent so it is	
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Do we add the call flow or de heading? Call flow not needed, marked provided.  2.2.25 Clause 17.4.3 Not applicable  24.228 Should be removed? The clause needed to keep clauses 7 and	
heading? Call flow not needed, marked provided.  2.2.25 Clause 17.4.3 Not applicable 24.228 Should be removed? The clause of the	
Call flow not needed, marked provided.  2.2.25 Clause 17.4.3 Not applicable 24.228 Should be removed? The clause of the clause o	elete the
2.2.25 Clause 17.4.3 Not applicable 24.228 Should be removed? The clause 17.4.3 not applicable 24.228 should be removed? The clause 7 and	
2.2.25 Clause 17.4.3 Not applicable 24.228 Should be removed? The clause 17.4.3 needed to keep clauses 7 and	d as not
needed to keep clauses 7 and	
consistent so it is defined as n	пот
22.26 Clause 17.4.4 Not required 24.228 N1-020427 7.4.4 does exist, so this is nee	adad for
keeping the subclause number consistent.	110
2.2.27 Clause 17.6 Error handling: Session 24.228 N1-022291 Another empty title.	
Initiation Land Handling Session 24.228 Represent the Clause 17.0 Enter handling Session 24.228 Representation Do we add the call flow or de	elete the
heading?	Tiete the
7.6 is already not provided an	nd the
CN1 tdoc to which the editor'	
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	Not provided  What about PSTN interworking and error cases? An example of 18.3 and 18.4 is not
2.2.29	Clause 19 Network initiated procedures (hiding)	24.228	N1-020427	shown in this specification.  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 N1-021415 N1-021416 N1-021452 N1-021453 N1-021464 N1-021464 N1-021503	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

			NT1 001504	
			N1-021504	
			N1-021505	
			N1-021513	
2.2.34	Digest AKA authentication	24.228	N1-020824	implement the necessary call flow
			N1-020904	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
			N1-022096	changes to align 24.228 with the latest
			N1-022118	IETF draft version. (P-headers for
			N1-022119	transfer of 3GPP specific
			N1-022441	information)Lucent, Nortel, Nokia,
				AWS
				Much progress made but still
				remaining cleanup to be completed on
				TS 24.228
2.2.36	To and From headers	24.228		What does the UE encode in To and
2.2.50	To and Trom headers	24.220		From headers?
				1 Tom headers:
				CN1 will wait for IETF decision on
				the week from 6 <sup>th</sup> of May 2002.
				A proposal based on IETF position
2.2.25	Branch removal in Route headers	24.229	N1-020813	will be drafted by Nokia.
2.2.37	Branch removal in Route headers	24.228		implement the necessary call flow
			N1-020940	changes to align 24.228 with the latest
			N1-021040	IETF draft version.
			N1-021041	Nokia, Siemens, AWS, dynamicsoft,
			N1-021092	Nortel
			N1-021098	
			N1-021239	
			N1-021413	
			N1-021414	
			N1-021415	
			N1-021451	
2.2.38	Integrity check indication from P-CSCF to	24.228	N1-020916	Indication from P-CSCF to S-CSCF
	S-CSCF			that a REGISTER was received
				unprotected.
				Nokia
2.2.39	Media Authorization token as P-Header	24.228	N1-020813	Call flow changes to add media
			N1-021092	authorization token
			N1-021415	Nokia, dynamicsoft, AWS, Siemens
2.2.40	Rework of Path Header compliant with draft	24.228	N1-022151	
	willis and ServRoute			
2.2.41	Alignment of SDP with Ipv6 not SDP new	24.228		Not required as SDPnew is planned
_,_,	and the second of the second o	2.,225		for batch 3
2.2.42	Privacy updates	24.228	N1-020940	A lot of new requirements in IETF,
	Tirrue) updates	21.220	N1-020040 N1-021040	therefore this item has gone back to
			N1-	red -> and changed to yellow since the
			021041N1-	work was already started in CN1 #24
			021041111-	by at least deleting old RP-ID stuff
			N1-021092	which is not going to be used.
			N1-021092 N1-021098	Asserted Identity usage according to
			N1-021098 N1-021413	draft-jennings-sipping-nai needs to be
				0 11 0
			N1-021414	defined.
			N1-021415	Nokia, Siemens, AWS, dynamicsoft,
			N1-021416	Nortel
			N1-021503	Much progress made but still
			N1-021504	remaining cleanup to be completed on
			N1-021505	TS 24.228
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.
2,2,44	Updating flows for change in P-CSCF	24.228	N1-022390	This will be dealt with as part of the
	routing procedures (no header stripping)			<u>TS 24.228 cleanup</u>
	Missing clauses in 24.229	24.229	771 020100	
2.3.1	4.2 URL and address assignments	24.229	N1-020198	N I
2.3.2	8 SIP compression	24.229	N1-020198 N1-020945	Nortel, Lucent?
			N1-020943 N1-021099	Lucent?
			N1-021499	
2.3.3	A.2.2.4 Status codes table is not complete	24.229	N1-021173	Some data is still missing from the
	•		N1-021054	tables.
			N1-021059	There was an improvement in this area
			N1-021169	during CN1 #24 but more work is still
			N1-021357	needed.
			N1-021359 N1-021360	Lucent
			N1-021360 N1-021361	
2.3.4	Annex A.3 SDP types	24.229	N1-021301 N1-011836	Which ones of the IETF defined SDP
2.011	Timiex Till BBT types	21.229	N1-021467	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	SIP extensions which are defined only
			N1-020623 N1-020915	in 3GPP
			N1-020913 N1-021003	AsPath header is standardised in IETF in time, then the contents of this
			N1-021005	clause must be replaced with
			N1-021096	statement that there are no new
			N1-022116	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
				"noth" oution to a la fin 1
				"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.
2.3.9	7.5 SDP types defined in 3GPP	24.229		Nortel  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.
2.3.10	7.6 3GPP IMS XML body, version 1 and 3GPP IMS related P-headers.	24.229	N1-020399 N1-020656 N1-020659 N1-020671 N1-021433 N1-021508 N1-021510 N1-021456 N1-021458 N1-021498 N1-021513	Nortel  3GPP specific container in XML body, initially visited network identity, cell global identity, original dialog ID, IMPU and RAT. 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 – P-Visited-Network-ID N1-021508 – P-Service Route N1-021510 – P-Associated-URI 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 N1-011989 N1-012025 N1-020123 N1-020142 N1-020157 N1-020198 N1-020500 N1-020604 N1-020627 N1-020642 N1-020671 N1-020959	UE procedural description. Some of this material is already in place in Annex A  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.  Nokia
2.3.12	5.2 (SIP) Procedures at P-CSCF	24.229	N1-020939 N1-011984 N1-011988 N1-012021 N1-012057 N1-012031 N1-020142 N1-020064 N1-020151 N1-020396 N1-020416 N1-020418 N1-020421 N1-020198 N1-020624 N1-020659 N1-020669 N1-020901 N1-020907	P-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

			N1-020938	
			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.
			N1-020417	Need to Rework for PATH
			N1-020198	
			N1-020521	If no editor's notes are left in this
			N1-020624	subclause, then it can be marked
			N1-020649	green. If there are any editor's notes
			N1-020659	left, convert them to separate open
			N1-020910	items.
			N1-020970	
			N1-021506	dynamicsoft
			N1-021469	
2.3.14	5.4 (SID) Propodures et S. CSCE	24.229	N1-021078 N1-011985	S-CSCF procedural description.
2.3.14	5.4 (SIP) Procedures at S-CSCF	24.229	N1-011983 N1-012045	Need to Rework for PATH
			N1-012043 N1-020124	Need to Rework for FATTI
			N1-020124 N1-020142	If no editor's notes are left in this
			N1-020146	subclause, then it can be marked
			N1-020165	green. If there are any editor's notes
			N1-020398	left, convert them to separate open
			N1-020415	items.
			N1-020418	
			N1-020419	dynamicsoft
			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	
2215	5.5 (CID) Duo - dans at MCCC	24.220	N1-021506	MCCE me and and describe
2.3.15	5.5 (SIP) Procedures at MGCF	24.229	N1-020159 N1-020198	MGCF procedural description. Lucent
			N1-020198 N1-020500	Lucent
			N1-020507	
			N1-020614	
			N1-020659	
			N1-020960	
			N1-020967	
2.3.16	5.6 (SIP) Procedures at BGCF	24.229	N1-012022	BGCF procedural description
			N1-020198	1
			N1-020659	
2.3.17	5.7 (SIP) Procedures at AS	24.229	N1-020165	AS procedural description
			N1-020198	
			N1-020398	

			N1-020617	
			N1-020624 N1-020659	
			N1-020668	
			N1-020008	
2.3.18	5.8 (SIP) Procedures at MRFC	24.229	N1-011828	MRFC procedural description
2.5.10	5.6 (SH ) I locedares at Wild C	21.22)	N1-020198	Lucent
			N1-020504	20000
			N1-020611	
			N1-020612	
			N1-020613	
			N1-020659	
			N1-021434	
2.3.19	6.1 (SDP) Procedures at UE	24.229	N1-020198	Lucent
			N1-020422	Nokia
			N1-020500	
			N1-020646	
2.3.20	6.2 (SDP) Procedures at P-CSCF	24.229	N1-020971 N1-020198	
2.3.20	0.2 (SDF) Flocedules at F-CSCF	24.229	N1-020198 N1-020449	
			N1-020449 N1-020500	
2.3.21	6.3 (SDP) Procedures at S-CSCF	24.229	N1-020300	
2.0.21	old (BDT) Trovadires at 5 GBC1	2 (122)	N1-020136 N1-020449	
2.3.22	6.4 (SDP) Procedures at MGCF	24.229	N1-020159	Lucent?
			N1-020198	
2.3.23	6.5 (SDP) Procedures at MRFC	24.229	N1-020198	Open Issue remains that there is no
			N1-020424	text for UE initiated MRFC
				procedures. Also, is this part of Rel-5
				(CN1 – SA2)
2.3.24	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
2.3.25	No control location de la control de la cont	24.229	N1 020100	dynamicsoft
2.3.25	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
2.3.26	(7.5) New SDP types and handling of SDP	24.229		Editor's note in 7.5 to be replaced with
	in the UE		1	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			Actually not errors but real life failure
		24.229		cases that must be defined. This is the
				case when the S-CSCF can be
2.2.20	Notation of talescipation had 1 Control	24.220	N1 02100C	allocated but it does not respond.
2.3.28	Notation of tokenisation, both definition and implementation throughout the TS	24.228	N1-021096	Nokia
2.3.29	Removal of the conflict between 23.228 and	24.228		The assumption in 24.228 that the UE
	24.228 in case GGSN and P-CSCF are not in			and P-CSCF are in the same network
	the same network as UE?			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	24.229	N1-020198	This is a new event package. Clause
	<u> </u>			1 0

	Package		N1-021436	5.1.1.3 will cover this. Informational
				RFC required
				Siemens
2.3.30	9 GPRS aspects when connected to IMS	24.229	N1-020198	IM CN – GPRS interaction
			N1-020408	
2.3.31	DOO HOM degined Deblie access identifies	23.003	N1-020626 N1-021461	Vodafone
2.3.31	R99 USIM derived Public user identity, private user identity and home domain	25.005	N1-021461	vodarone
	nameformat			
2.3.32	R99 USIM Public user identity barring in the	24.229	N1-021563	Vodafone, Lucent
	S-CSCF at registration and session initiation			
	for MO and MT calls			
2.3.33	P-Asserted-Identity insertion into initial	24.229		Nokia, Lucent
	request	21200	271 021202	
2.3.34	Public Identity validation at the P-CSCF	24.299	N1-021793	Nokia
2.3.35	Multiple media types per PDP context	24.229	N1-021486 N1-021289	Ericsson, Nokia Needs decision from CN and SA
			111-021289	plenary as it may delay IMS and
				release 5 completion
2.3.36	Security Association setup procedures	24.229	N1-021791	Negotiation and setup of SA using
	y and y			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)
2.3.38	Application Server Originated requests.	24.229		Dynamicsoft
	Should Filter Criteria be evaluated and in			CN1#26 determined that no change to
2.2.20	what cases?	24.222	N1 000 (c)	24.229 was required
2.3.39	Local emergency calls for roaming subscribers	24.229	N1-022461	In some cases it will be difficult for the home P-CSCF to detect that an
	Subscribers			emergency call was attempted. Some
				solution is needed already in Rel-5 in
				order to reject the attempt.
				Vodafone, Nokia
2.3.40	Behaviour for Forking	24.229		TSG CN sent back CR to CN1
2.3.41	P-CSCF behaviour when request from UE	24.229	<u>N1-022499</u>	Agreed to validate Route headers
	contains Route headers			instead of strip Route headers

#	ification consistency  Description	TS	CRs	Comment
3.1	Unstable clauses in 23.218 Annex C	23.218	N1-020036	Material to be moved to the
<b>5.11</b>	Chistage chauses in 25:210 Times C	23.210	111 020030	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	Part of general 24.228 cleanup
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 N1-021175 N1-021176 N1-021178 N1-021179 N1-021183 N1-021184 N1-021233 N1-021264 N1-021466 N1-021470 N1-021471 N1-021472 N1-021487 N1-021466	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 N1-020653 N1-020835 N1-020835 N1-020836 N1-020852 N1-021500 N1-021501 N1-021502 N1-021503 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	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
3.18	Correct Use of USIM, ISIM and UICC terminology	23.218 24.228 24.229		Rapporteurs are requested to check their specs for correct use of terminology.  Completed for 23,218 and 24,229.  Check still needs to be done for 24,228 as part of cleanup