Source:	TSG CN WG2
Title:	CAMEL4 CPH adHoc Meeting Report
Agenda item:	6.2.1
Document for:	Information

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Allocation of documents and chairmans report

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TDoc #	Type	Title	Source	Discussion	Conclusion
		General issues			
		Participant list		- Ian Park: Vodafone - Ruth Hewson: Vodafone - Keijo Palviainen: Nokia - Rogier Noldus: Ericsson - Vesa Tiainen: Nokia - Michel Grech: Lucent - Sumio Miyagawa: Siemens - Veronique Belfort: Alcatel - Christian Homan: Alcatel	-
None	DISC	Location of Draft CAMEL specs & version numbering	CN2 chairman	- We could allocate tdoc numbers (2 per draft per meeting) for draft and then put then on the server. More work to put them on the server. (Sumio). These are difficult to find by people who were not in the meeting. (Ian). - CAMEL4 specs are not real draft specs, version could be 5d.x.y (Ian). - According to Christian there is already a *DraftSpecs* directory under CN2 directory. - Do we only have the latest one – tdoc# would solve some tracking problems.	- We propose a directory under CN2 directory. - Numbering 5d.x.y. X and y have the same starting values as now, x.6.1 becomes 5d.7.0. - All versions will be kept there for tracking. - File name e.g. 23078-5dxy.
N2-010232		Tdoclist	MCC		Updated during the meeting. Copy will be given to Per Johan. Noted by delegates.
N2-010233		Allocation of documents and chairmans report. *At the beginning of the meeting*	CN2 chairman		Noted
N2-010259		Allocation of documents and chairmans report. *At close of business on Tuesday.*	CN2 chairman		

N2-010260		Allocation of documents and chairmans report. *At close of business on Wednesday.*	CN2 chairman		
N2-010261		Allocation of documents and chairmans report. *At close of business on Thursday.*	CN2 chairman		
		Discussion papers			
N2-010241	DISC	CPH - Open Issues	Vodafone	- Maintained as a living document. - We could maintain a living document. Ruth could maintain a list of open CPH items. - Keijo could maintain a list of principle decisions. - The issue of Connect: CAMEL_EXPORT_LEG_MSC is used after Split & Move operations in the source call segment / BCSM. Christian: CUE & CWA shall be allowed when they are allowed in CAMEL3. CUE is allowed in one CS case only. Christian supports Vodafone's proposal of 4th bullet. Alcatel would allow Connect when new leg hits e.g. busy condition i.e. rerouting. Connect is not allowed right after ICA. - D-CSI/N-CSI: Ruth: If they apply then there should be a way of suppressing them. Even N-CSI suppress should be an option. Others: agreeable. D-CSI is not available for call out-of-the-blue. Suppression is on leg basis, not on call segment basis. O-CSI is not an issue since it doesn't trigger while ongoing dialogue. - Default call handling: Vodafone proposes "release". SCP does not have to control the whole duration of the call, e.g. SCP can close CAP dialogue after answer(s). This may create signalling relationship problems. Is it "release leg", "Release CS" or "Release the call"? Christian proposes "Release CS". Rogier favours "Release call". For existing calls we could use O-CSI/T-CSI/VT-CSI default handling according to Vesa. - Is ReleaseCall allowed right after ICA: May be reasonable if all parties have released. Must ICA+CUE/CWA be in the same TC-BEGIN? In CS-3: yes for out-of-the-blue calls.	- Connect is used only for rerouting. - Rerouting is allowed only in failure / disconnection detection points, not right after ICA or CPH operations. - CSI suppression is an option for dialled services. Suppression is done on leg basis. - Default call handling is "Release" for calls out-of-the-blue. New legs in an existing call: Left open. - ICA must be followed by CUE or CWA. ReleaseCall can be sent thereafter for a controlling relationship. - Revised to 262

N2-010262	DISC	CPH - Open Issues	Vodafone	- FFS texts from to draft could bew removed, this covers everything.	- Revision of 241 - Noted.

N2-010263		List of principal decisions	CN2 chairman	- Reduntand CPH stuff could be moved to Ruth's document:
				  - D2,
				- We have 3 items:
				  - CPH open issues
				  - CPH decisions
				  - Other open issues & decisions
				- Decision list shall have a date / meeting reference.
					- Ruth maintains the CPH decisions and open items.
					- Ruth copies off-line stuff from Keijo's document.
					- Keijo maintans a list of other than CPH CAMEL4 issues.
					- Noted

N2-010242	DISC	Correction of Call Release	Alcatel	- In which state the CS/SSF is when CAP dialogue is closed? Some intermediate state. - How about the other TDPs? Must be considered. - Is there a requirement to have CPH call w/o SCP control of it? It would save some SCP resources. Vodafone wants this. If the 2nd last party of CS releases, then the all parties in that CS should be released according to Ruth. - Nokia favours maintaining controlling CAP relationship for CPH calls – SCP should control the entire call duration. - Is this the only exception to last meetings decision to have signalling relationship via SCP.	- SCP/SCF can drop out during active phase of a call only, and CPH call is maintained by the gsmSSF. SCP can not drop out before all remaining parties have answered. - When the 2nd last party of a Call Segment releases, all parties of that CS are released. - No (should not)SCP drop out if there are CSs with one party. - No SCP drop out during user interaction. - Noted
N2-010257	DISC	23.078-CR: Discussion of Compatibility and of Stage 1 requirements	Alcatel	- CAMEL4 capability shall cover CAMEL3 capabilities. - One example of differences is handling of CUE/CWA at failure DPs – CAMEL4 does not clear the call automatically. - So far CN2 has used its own justification what can be done/implemented, and when service requirement needs clarification or enhancement.	- All service requirements of earlier CAMEL phases shall be possible in a later phases. - GsmSSF responses to certain operations in certain situations may differ. - CN2 keeps on using its policy on unclear/missing service requirements. - Noted
		Change requests			
N2-010234	CR	23.018-CR: Introduction of CAMEL Phase 4	Vodafone	- This is a combined CR for CAMEL4. - In May meeting we will see the revised version. - This will be the base for the further CRs. - This update due to CAMEL CRs and due to 23.018 updates (by CN4). - The CRs can be done against draft CR or actual spec. - 23.083 needs a draft version as well (call hold, CW etc). - Christian has found one mistake. Ruth will correct that off-line. - SDT files should be included in the draft. Will be in the next draft.	- We will have a working version for CAMEL4 in the draft directory. The draft is base for CAMEL CRs. - Noted

N2-010235	CR	23.078-CR: Correction of CAMEL_ICA_ALERTING_MSC process	Vodafone	- SendInfoForICA: Gets barring etc information, only when a new leg is created for an existing call. Not used in a call (new call out-of-the-blue = NC) NC call. Wording needs clarification. - Ruth does not propose VLR visit for any call out-of-the-blue. - Alcatel tdoc 244 handles the same issue. - Both the ODB and SS barring can be suppressed by the SCP. (according to Vodafone). Stated in 22.078 section 8.1.1. - Dialled services and Reconnect cases are missing. - Ruth: CR is modifying existing draft, things were approved in last CN2 meeting. -	- approved. Needs careful editing keping tdoc 273 in mind. Will be incorporated Alcatel tdoc 276.
N2-010244	CR	23.078-CR: Introduction of gsmSCF initiated new calls: CAMEL_ICA_MSC process	Alcatel	- related to tdoc 235. - Barring check is proposed only for MO calls in the tdoc (page 14). - "new call case" page 3, means NC calls. - GsmSSF may need other changes. - Why export/disconnect leg operations are out? No specific reason. - Page 3 "Release call segment": The process does not know whether there are other legs in the CS. -	- revised to 264. Based either on current draft and/or Ruth's CR.
N2-010264	CR	23.078-CR: Introduction of gsmSCF initiated new calls: CAMEL_ICA_MSC process	Alcatel	- Why VLR enquiry in the dialled services procedure? Due to history. Will be moved out of the procedure. - Various detailed comments. - Dialled services procedure should check the SCP suppression of the relevant CSIs. - GsmSSF invoked decision is not needed, the SCP may drop out only after answer. - In section 4.5.6.2.1 we shall remove reference to call segment. - No reply timer shall be stopped at reconnect branch, page 5. -	- revision of 244 - revised to 273
N2-010273	CR	23.078-CR: Introduction of gsmSCF initiated new calls: CAMEL_ICA_MSC process	Alcatel	- Last page SDL shall pass the result checking when a CSI is suppressed. - Redundant text is left in but removed later on removed for consistency. - Various detailed comments.	- revision of 264 - revised to ,includes Vodafone tdoc 235 changes as well

N2-010276	CR	23.078-CR: Introduction of gsmSCF initiated new calls: CAMEL_ICA_MSC process	Alcatel	-	- revision of 273 (and 235 by Vodafone to make Sumio's life easier). E-mail approval. Shall be available start of business 9th of April, comments shall be given by Wednesday 11th of April 17:00 CET. In a comment there shall be a clear indication of rejection, otherwise approved. If this is rejected, tdoc 235 is still approved.
N2-010243	CR	Rel-4 23.018-CR: Correction of CAMEL Alerting procedure	Alcatel	- The change is already in the 23.018 draft.	- Approved
N2-010236	CR	23.078-CR: Contents of Initiate Call Attempt operation	Vodafone	- Is CPH only for speech calls? Voda: could be only for speech calls, needs a 22.078 update. Consensus in adHoc that only for speech. - A mapping table is needed for NC and NP calls. - Vodafone proposes basicServiceCode from SCP, but not HLC+ISDN BCIE. Alcatel proposes HLC+BCIE+LLC from SCP, but not basicServiceCode in tdoc 246. - CallReferenceNumber: - CallingPartyNumber: Alcatel does not want to give CLI for new legs, only for NCs. CLI is also used for trace & malicious call trace etc. -	- NC calls shall contain CgPN in ICA. For NP calls MSC shall populate the served party's MSISDN. SCP can not provide CLI for new legs. When NP call takes place after ICA out-of-the-blue, we use the original CgPN of the 1st ICA. - CallReferenceNumber: In NC case the SCP allocates it (mandatory) and NP case the SCP shall not allocate it and MSC uses the original reference. - LocationNumber is removed from ICA. - GsmSCFaddress: M in NC, not present in NP. - BaSC, LLC, BCIE, HLC: SCP does not send them, we define rules for NC calls, NP calls use the original values. - Revised to 265
N2-010265	CR	23.078-CR: Contents of Initiate Call Attempt operation	Vodafone	-	- revision of 236 - approved initially, but then revised to 269
N2-010269	CR	23.078-CR: Contents of Initiate Call Attempt operation	Vodafone	-	- revision of 265 - Approved

N2-010246	CR	23.078-CR: Correction of the Initiate Call Attempt and Continue With Argument Information Flow	Alcatel	- S = present, presense depend on the description column.	- Noted, parts are in Vodafone's CRs
N2-010237	CR	23.078-CR: Contents of Continue With Argument operation	Vodafone	- Suppress Outgoing Call Barring: also to GMSC. GMSC has not the information -> should be optional according to Ian. - SuppressOfAnnouncement: Vodafone wants to suppress also for NP calls, Alcatel does not. Vodafone proposal uses more signalling capacity but simplifies service logic. Vodafone approach taken. - Vodafone claims that incoming call barring control should not allowed in CWA. This is an issue of HPLMN control; other networks shall not overwrite HPLMN barrings. In the SCP-HLR interface this is a different story – it's a more protected situation. Alcatel says this is a 22.078 clause 8.2 requirement. It's a HPLMN requirement only (Vodafone). If GMSC is different NW element then this IE is lost. - Ian sees ICA as a new call rather than as call forwarding. - ODB should not be in SII2. Only in CWA for ICA.	- Incoming call barring suppression is not allowed in CWA. - Outgoing call barring can applies to NP calls and can be suppressed by SCP. - Revised to 266
N2-010266	CR	23.078-CR: Contents of Continue With Argument operation	Vodafone	- Basic OR interrogation requested should be "S,O", optional but conditions apply as described in the description column. - NP column: how it is used when multiple CWAs per call (e.g. DP2 + O_Answer DP). According to Ruth NP is used through the call. According to Ian NP leg is like a MO leg. All relevant differences between MO and NP are right after ICA. Therefore subsequent CWAs should refer to MO column. According to Vesa only legID is relevant parameter after DP2/DP12, in all cases (MO,MF,…). - SuppressD-CSI is relevant only if original call is a MO and VT call.	- revision of 237 - CWA can change parameters only at call setup phase (DP2/DP3/DP12), legID is used for addressing in other DPs. DP3 is FFS. - Revised to 267
N2-010267	CR	23.078-CR: Contents of Continue With Argument operation	Vodafone	-	- revision of 266 - approved
N2-010238	CR	23.078-CR: Alignment of CPH procedures with changes to 23.018	Vodafone	- CPH interaction interworking with ECT&MPTY. SII2 should be used to avoid interworking. Stage 1 has a warning already.	- approved

N2-010245	CR	23.078-CR: Enhancement of Send Routeing Info information flow for the GMSC - HLR interface and further clarifications	Alcatel	- SendRouteingInfo(Suppress-VT-CSI): where does the GMSC get this IE from? Part of CWA. Vodafone sees this as a security risk. - How to prevent ORLCF if SCP inquires the MSRN directly from the HLR? SCP could send SupportedCAMEL phases in SRI-ICA. There is a OR parameter "OR (not) supported". HLR should populate this field properly. - SCP could do ATI before SRI-ICA -> SRI-ICA-ack does not need LocationInformation. (agreement of CN2#17). - SRI CallReference#: Also allocated by SCF. - SRI-ICA: Operation is used only for a new call, not for a new party. - Suppress T-CSI is not applicable for SRI-ICA. - ISDN BCIE etc are not applicable for SRI-ICA. - ICA(msrn) shall be send to MSC-address. MSCaddress is already in the HLR, it is used for MT SMS. LocationInformation is not useful.	- MSCaddress is added to main level of SRI-ICA-ack. The HLR shall return the MSC#. - For time being, LocationInfo is not in SRI-ICA-ack. - Revised to 268
N2-010268	CR	23.078-CR: Enhancement of Send Routeing Info information flow for the GMSC - HLR interface and further clarifications	Alcatel	- MSCaddress -> MSC number. - BasicServiceCode could be deleted. - Suppress-VT-CSI should be deleted from SRI and PRN (removed from PRN if SRI from GMSC, not removed when SRI-ICA from SCP). - GMSC CAMEL Phases parameter is not applicable in SRI-ICA cases. "OR supported" parameter can influence ORLCF enough. - Call Diversion Treatment Indicator description change: Ruth gives proposal off-line. - SendInfoForICA shall have IMSI (MSC->VLR) as a mandatory parameter. We leave in the NP column, this needs improvement in future.	- revision of 245 - revised to 275
N2-010275	CR	23.078-CR: Enhancement of Send Routeing Info information flow for the GMSC - HLR interface and further clarifications	Alcatel	-	- revision of 268 - approved, Sumio will make some off-line editorial improvements to PRN.

N2-010247	CR	23.078-CR: Correction of Disconnect Leg operation and import/export leg for the gsmSSF process	Alcatel	- According to Christian AC/ACR is CS oriented, CIR is leg oriented. - Rogier says that AC/ACR is leg related. - "NP" may have to be mentioned on the left upper corner. Call Case List is deleted. - Why Handle_ACR procedure is not used? The procedure has some setting that Christian was not sure about. Procedure shall be used and with correct notation of input parameters. - SDL is done against the old version. - CSA process takes care of CS release when last leg is releaseCallSegment -> no check needed in CS.	- Postponed to next meeting
N2-010254	CR	23.078-CR: CPH and prepaid charge control	Nokia	- We should not have a memory how a leg was created. - In overall description we could describe applicability. - Most these operations have identical parameter set -> a "required" column could do it. - NC is almost the same as the MO case. - MoveLeg would result to 2 ACRs. - Vodafone favours charging on leg basis, analogue to call hold and MPTY charging. Tariff changes may be distinct on leg basis (e.g. call to USA+Norway). - Each SCP created leg should have a separate (MO) CDR, and there is one CDR for the original call. - Request notification charging? - Combined AC/ACR for two legs is also feasible.	- Postponed to next meeting -
N2-010248	CR	23.078-CR: Connect operation for the multiple CS state of Process CSA_gsmSSF	Alcatel	- Alcatel proposes Connect operation for rerouting in failure DPs, in any Call Segment. - In Connect there is no CSid. -> How to rely the operation to correct call segment? - Alcatel would allow creation of the first leg with Connect and following legs with ICA. - Connect shall contains a legID that exists already.	- LegID added to Connect. - Revised to 270
N2-010270	CR	23.078-CR: Connect operation for the multiple CS state of Process CSA_gsmSSF	Alcatel	- LegID could have a default ASN value -> no text needed in stage 2. - Wording improved.	- revision of 248. - Revised to 277

N2-010277	CR	23.078-CR: Connect operation for the multiple CS state of Process CSA_gsmSSF	Alcatel	-	- Approved w/o presentation.
N2-010249	CR	23.078-CR: Long FtN Supported in SRI for ICA	Vodafone	-	- Approved
N2-010250	CR	23.078-CR: Correction of gsmSCF-gsmSFR IFs	Nokia	- Editorial CR - "Required" vs "status" column header name. Will be aligned later on.	- Approved.
N2-010251	CR	23.078-CR: Correction of gsmSCF-assisting SSF IFs	Nokia	- Assisting SRF section could highlight the differences only (CSid is not needed).	- Revised to 272
N2-010272	CR	23.078-CR: Correction of gsmSCF-assisting SSF IFs	Nokia	-	- revision of 251 - approved, Sumio makes section number references more precise off-line.
N2-010252	CR	23.078-CR: Allow the User interaction for the CSE initiated leg	Nokia	-	- withdrawn
N2-010253	CR	23.078-CR: Adding of Call Segment ID to the Specialized Resource Report IF	Nokia	- SpecializedResourceReport is a linked response -> Csid is not needed.	- Revised to 271
N2-010271	CR	23.078-CR: Adding of Call Segment ID to the Specialized Resource Report IF	Nokia	-	- approved w/o presentation
N2-010255	CR	23.078-CR: Call Gap operation for the multiple CS state of Process CSA_gsmSSF	Alcatel	- The CR proposes to move handling of the call gapping from CS to CSA process -> allows gapping in a multi call segment cases as well. - The SDL of page 6 is twice, page 6 shall be deleted.	- Revised to 274

N2-010274	CR	23.078-CR: Call Gap operation for the multiple CS state of Process CSA_gsmSSF	Alcatel	-	- revision of 255. Approved w/o presentation.
N2-010256	CR	23.018-CR: Correction to CPH procedures	Vodafone	- Handling of Connect Follow-on call needs further study.	- approved
N2-010239	CR	29.078-CR: Introduction of CPH operations	Vodafone	- LegID = 3 should be allowed. -	- LegID=1 is always the Calling Party for regular calls, and for NC calls Leg1 is never used. - Revised to next meeting.
N2-010258	CR	29.078-CR: Comments on TDoc N2-010239 (N2-010132) "Introduction of CPH operations"	C. Homann, Alcatel	- Christian: The surrogate (calling) leg has no number (or –1 for simulation purposes), and the <u>called</u> leg has Leg1. - Vesa: Called party leg numbering should start from #2. - The NC calls do not have a "calling party", i.e. there is no leg# allocated for the "ghost" calling party. - Keijo: Parameters should be optional in ASN.1 unless we are very sure about the mandatoryness. - Vodafone, Nokia and Lucent favour human readability rather than similarity with the Core INAP protocols. - Keijo: Extended parameter with tag59 waste signalling resources and are difficult to read.	- The parameters of CAP will be in tag number order for human readability. Alcatel does not like this approach but can live with it. The CS-3 does have a different order of parameters, but the same tag numbers for identical parameters. - 29.078 section 11 will be renumbered. - Noted, comments taken into account.
N2-010240	CR	29.002-CR: Introduction of CPH operations	Vodafone	-	- Postponed.