

**Source:** CN2 chairman  
**Title:** Update of CAMEL4 Work Item Description (WID) in Rel-5 for TSG-CN  
**Agenda item:** 9.5  
**Document for:** Approval

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### Work Item Description

**Title: CAMEL4 scope in Rel-5 for TSG-CN**

**1 3GPP Work Area**

	Radio Access
X	Core Network
X	Services

**2 Linked work items**

*SA1 CAMEL WI*

**3 Justification**

It was agreed to use CAMEL (as distinct from other toolkits, existing or new ones) as a proper toolkit to provide services. For Rel-5 additions are needed. This Work Item Description summarises the work to be done.

**4 Objectives**

- CAMEL 4 shall be a superset of CAMEL 3 together with Rel-5 CAMEL additions.
- Any Rel-5 CAMEL addition, shall be applicable for GSM and UMTS networks, except when otherwise stated.
- The same set of CAMEL 4 capabilities shall be available when roaming in or outside the home network.
- CAMEL 4 capabilities shall apply to any service where appropriate, core network transport independence. That means, CAMEL procedures shall be usable for CS services and PS services, where appropriate. See clause 14b.
- TSG-CN shall implement CAMEL4 so that the TSG-SA1 specified requirements (22.078) are fulfilled. The implementation shall follow 3GPP Rel-5 time schedule as close as possible.

**5 Service Aspects**

In contrast to 2G systems new services in 3GPP will not be standardised. New services will be enabled by Service Capabilities, which are based on toolkits (e.g. CAMEL). If in addition to existing Service Capabilities new SCs particular to IM services are required or existing SCs need to be modified this needs to be identified.

## 6 MMI-Aspects

None identified.

## 7 Charging Aspects

Sufficient Charging capabilities have to be foreseen to allow flexible charging scenarios from the service provider and the network operator (visited and home) point of view. From the subscribers' point of view, online charging methods should be sufficiently enhanced to cover facilities provided in a Rel-5 network.

## 8 Security Aspects

A special attention has to be given to a Security Policy. Secure access to service and user confidential information has to be provided.

## 9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No		X	X		
Don't know	X	X			X

## 10 Expected Output and Time scale (to be updated at each plenary)

The results of this Work item shall be provided in a Technical Standard.

In order to complete CAMEL4 in a timely fashion the following Work Plan is proposed.

CN2	Dates	Actions
CN4#11, CN2#21 N2#20	<del>October 15-19, 2001</del> November 26-30, 2001	<ul style="list-style-type: none"> <li>• <del>Make final</del> Present version of combined CRs to specs within CN4 remit for comments.</li> </ul>
CN4#11 2, CN2#21 2	<del>November 26-30,</del> 2001 January 14-18, 2002	<ul style="list-style-type: none"> <li>• CN4 to approve CN2 endorsed CRs. From that point on, CAMEL related matters are corrected one-by-one.</li> <li>• Prepare any new Stage 2's and 3's for submission to CN#1415 (<del>December 12-14</del> March 6-8).</li> <li>• Complete CR's to the 23-series and 29-series.</li> </ul>

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
22.078	CAMEL 4	SA1				
23.078	CAMEL 4 Stage 2	CN2			CN#1415	
29.078	CAMEL 4 Stage 3	CN2			CN#1415	
23.008		CN4				
23.016		CN4				
23.018		CN4				
29.002		CN4				
23.218		CN1				
23.060		SA2				
Comment: there will be potentially other new specs, yet to be identified						
Affected existing specifications						
Spec No.	CR	Subject		Approved at plenary#		Comments
Comment: there will be probably various R99 specifications impacted, yet to be identified						

**11 Work item raporteurs**

[Keijo Palviainen, Nokia]

**12 Work item leadership**

CN2

**13 Supporting Companies**

[Alcatel, Ericsson, Lucent, Nokia, Siemens]

**14 Classification of the WI (if known)**

	Feature (go to 14a)
X	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

14b The WI covers several Building Blocks: parent Feature CAMEL Phase 4

- 1.1. Interactions with Optimal Routing
- 1.2. Call Party Handling
- 1.3. DTMF Mid call procedure for MO and MT calls
- 1.4. Provisioning of IP-based multimedia services / CAMEL applicability to media streams like VoIP
- 1.5. CAMEL control over MT SMS
- 1.6. Inclusion of flexible tone injection
- 1.7. Charging Notification to CSE
- 1.8. Enhancements of dialled services
- 1.9. Provision of location information of called subscriber
- 1.10. Notification of GPRS mobility management to CSE
- 1.11. [Inclusion of ODB data in the CSE-HLR interface](#)
- 1.12. [Location information during an ongoing call \(Handover DP\)](#)
- 1.13. [GPRS AnyTimeInterrogation](#)

14c The WI is a Work Task: parent Building Block