
Source: SA1
Title: CR to 22.078 on Corrections to re-introduction of enhancements of dialled services in CAMEL 4 (Rel-6)
Document for: Approval
Agenda Item: 7.1.3

SA Doc	Spec	CR	Rev	Phase	Cat	Subject	Old Vers	New Vers	SA1 Doc
SP-030021	22.078	155	-	Rel-6	F	Corrections to re-introduction of enhancements of dialled services in CAMEL 4	6.0.0	6.1.0	S1-030075

CR-Form-v7

CHANGE REQUEST

⌘ **22.078 CR 155** ⌘ rev - ⌘ Current version: **6.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘	Correction to the re-introduction of "Enhanced CSE capability for Dialed Services"
Source:	⌘	SA1 (Lucent Technologies)
Work item code:	⌘	EDCAMEL
		Date: ⌘ 09/01/2003
Category:	⌘	F
		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><i>Use <u>one</u> of the following categories:</i></p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p> </div> <div style="width: 45%;"> <p><i>Use <u>one</u> of the following releases:</i></p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>Rel-4 (Release 4)</p> <p>Rel-5 (Release 5)</p> <p>Rel-6 (Release 6)</p> </div> </div>

Reason for change:	⌘	<p>The procedure for enhanced subscriber dialed services when no relationship exists with the CSE (as proposed in SP-020817) should be identical to the procedure when dialed digits have been collected for normal CAMEL call set up request (ie O-CSI triggered call). The change request in SP-020817 that re-introduced the procedures for the "Enhancements CSE capability for Dialed Services" was based on text that pre-dated additional changes to the normal CAMEL call set up request, namely the possibility that the CSE could continue handling of the call party without routing the call to the destination (for CPH purposes). We anticipate the CPH capabilities will be applicable to dialed services. This purpose of this change request is to have identical capabilities for the following cases :</p> <ul style="list-style-type: none"> • Call triggered by a O-CSI • Call triggered by a D-CSI (and not previously triggered by an O-CSI)
Summary of change:	⌘	<p>Introduce the same capabilities in enhanced dialed services as in normal CAMEL trigger up when there is no existing relationship (ie previously triggered by an O-CSI)</p>
Consequences if not approved:	⌘	<p>Service design become more complex. Currently, the service designer is aware of restrictions when a call is triggered as part of dialed service if a relationship exists in previous CAMEL Phases. There should not be any additional restrictions to a service designer.</p>

Clauses affected:	⌘	5.3.2.2 and 7.2		
<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">Y</td> <td style="padding: 2px 5px;">N</td> </tr> </table>			Y	N
Y	N			

Other specs affected:	⌘	X	Other core specifications	⌘	23.078, 29.078
		X	Test specifications		
		X	O&M Specifications		
Other comments:	⌘				

5.3.2 Procedure for subscribed dialled services

The purpose of this procedure is to detect a call set-up request at the point where the called party number has been compared with the dialled services information, and allow the CSE to modify the handling of the call set-up request. Triggering of this procedure shall happen immediately after the procedure when dialled digits have been collected.

5.3.2.1 Initiation of contact with the CSE

If (according to the CSI):

- The subscriber is provisioned with a CAMEL based originating service; and
- The call set-up request occurs; and
- The criteria are satisfied.

Then the VPLMN/IPLMN shall suspend call processing, make contact with the CSE and await further instructions.

Contact with the CSE shall (if necessary) be made in this manner before network dialled services are invoked.

5.3.2.2 Further processing of the call

If a relationship exists with a CSE, then when the VPLMN/IPLMN has made contact with the CSE, the CSE shall be able to instruct the VPLMN/IPLMN to act as described below:

- Perform charging activities The CSE is only allowed to send e-values (refer to sect. 15.1, 'CSE controlled e-values') and include free format data in Call Data Records (refer to sect. 15.2, 'Inclusion in charging records of information received from the CSE');
- Order in-band user interaction. (Interaction between the service triggered from previous triggering may be needed to avoid duplicated guidance etc.).

Once the CSE has concluded issuing the above instructions, it shall issue one and only one of the following instructions:

- Release the call;
- Continue the call processing;
- Continue the call processing with modified information;

If no relationship exists with a CSE for the call, then when the VPLMN/IPLMN has made contact with the CSE, the CSE shall be able to instruct the VPLMN/IPLMN to act as described below:

- Perform charging activities;
- Activate subsequent control service events for the call. The CSE shall have the possibility to send the following information:
 - The subsequent service event which shall be detected and reported:
 - Called party alert;
 - Called party connection;
 - Call disconnection;
 - Calling party abandon;
 - Unsuccessful call establishment. In the case of no answer the CSE may provide a no answer timer;
 - Mid call event (DTMF or out of band information). The CSE shall specify the digit string(s) or the out of band information for which the instruction is valid. Out-band information may be detected during alerting phase of the call.

- The party in the call for which the event shall be detected and reported (calling or called party);
- The type of monitoring (control or notification).
- Order in-band user interaction.

There shall be no restriction regarding the order of the above instructions or the number of times each of the above instructions can be repeated. Once the CSE has concluded issuing the above instructions, it shall issue one and only one of the following instructions:

- Allow the call processing to continue unchanged;
- Allow the call processing with modified information;
- Continue the handling of the calling party without routeing the call to the destination;
- Release the call.

Due to interworking problems, the service operator shall ensure that sending of e-values and call period control is not used by the other services in the same call of the served subscriber with *Enhanced CSE capability for Dialed Services*.

7 Procedures for serving network dialled services

The purpose of this procedure is to detect a match between the called party number and a stored network service number at the call set-up request. It is to allow the CSE to modify the handling of the call set-up request. If this procedure is triggered it shall happen after processing of Subscribed Dialed Services triggered via the CSI. If any other CAMEL dialogue has changed the called party number then the modified called party number is used for conditional triggering check.

7.1 Initiation of contact with the CSE

If:

- The call set up request occurs, and
- The call set up request procedure is passed, and
- The PLMN is provisioned with network based service information

Then the VPLMN shall suspend call processing, make contact with the CSE and await further instructions.

7.2 Further processing of the call

If a relationship exists with a CSE, then when the serving network has made contact with the CSE, the CSE shall be able to instruct the serving network to act as described below:

- Release the call;
- Continue the call processing;
- Continue the call processing with modified information;
- Perform charging activities (the CSE is only allowed to include charging data in the Call Data Record);
- Order in-band user interaction. (Interaction between the service triggered from previous triggering may be needed to avoid duplicated guidance etc.)

If no relationship exists with a CSE for the call, then when the serving network has made contact with the CSE, the CSE shall be able to instruct the serving network to act as described below:

- Perform charging activities;

- Activate subsequent control service events for the call. The CSE shall have the possibility to send the following information:
 - The subsequent service event which shall be detected and reported:
 - Called party alert;
 - Called party connection;
 - Call disconnection;
 - Calling party abandon;
 - Unsuccessful call establishment. In the case of no answer the CSE may provide a no answer timer;
 - Mid call event (DTMF or out of band information). The CSE shall specify the digit string(s) or the out of band information for which the instruction is valid. Out-band information may be detected during alerting phase of the call.
 - The party in the call for which the event shall be detected and reported (calling or called party);
 - The type of monitoring (control or notification).
- Order in-band user interaction.

There shall be no restriction regarding the order of the above instructions or the number of times each of the above instructions can be repeated. Once the CSE has concluded issuing the above instructions, it shall issue one and only one of the following instructions:

- Allow the call processing to continue unchanged;
- Allow the call processing with modified information;
- Continue the handling of the calling party without routeing the call to the destination;
- Release the call.

Due to interworking problems, the service operator shall ensure that sending of e-values and call period control is not used by the other services in the same call of the served subscriber with *Enhanced CSE capability for Dialed Services*.

Further processing of the call continues as detailed in Section 5.3, and the CSE contact initiated at this procedure is terminated.