

Source: TSG CN WG 1

Title: CR to Rel-4 (with mirror CR) on Work Item LCS1-PS towards 24.008

Agenda item: 8.8

Document for: APPROVAL

Introduction:

This document contains 2 CRs on **Rel-4 (with mirror CR)** to Work Item "LCS1-PS", that have been agreed by **TSG CN WG1**, and are forwarded to TSG CN Plenary meeting #14 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Doc-2nd-Level
24.008	494	2	Rel-4	RR Establishment Causes for LCS procedures	F	4.4.0	4.5.0	N1-011973
24.008	495	2	Rel-5	RR Establishment Causes for LCS procedures	A	5.1.0	5.2.0	N1-011974

CHANGE REQUEST

⌘ **24.008 CR 494** ⌘ rev **21** ⌘ Current version: **4.4.0.** ⌘

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

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ RRC Establishment Causes for LCS Procedures		
Source:	⌘ Ericsson		
Work item code:	⌘ LCS1-PS	Date:	⌘ 28th Nov 2001
Category:	⌘ F	Release:	⌘ Rel-4
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ In Release 4 it is required that LCS be supported by the PS Domain. As such the RRC Establishment Causes for NAS procedures within the PS Domain must reflect the LCS procedures that has to be supported. Thus this CR proposes RRC Establishment Causes to cater for LCS procedures.
Summary of change:	⌘ In Annex L, an entry to Table L.1.2. has been introduced to cater for LCS in PS Domain.
Consequences if not approved:	⌘ The Rel 4 support of LCS via PS Domain will be incomplete

Clauses affected:	⌘ Annex L		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications	⌘	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
Other comments:	⌘ This CR also takes into account Tdoc N1-011579, 24.008CR486r1 which was approved in CN1#20, Brighton.		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Annex L (normative): Establishment cause (lu mode only)

This annex is normative.

L.1 Mapping of NAS procedure to RRC establishment cause (lu mode only)

When MM requests the establishment of a RR connection, the RRC establishment cause used by the MS shall be selected according to the CS NAS procedure as specified in Table L.1.1.

Table L.1.1/3GPP TS 24.008: Mapping of CS NAS procedure to establishment cause

CS NAS procedure	RRC Establishment cause(according 3GPP TS 25.331)
Originating CS speech call	Originating Conversational Call
Originating CS data call	Originating Conversational Call
CS Emergency call	Emergency call
Call re-establishment	Call re-establishment
Location update	Registration
IMSI Detach	Detach
MO SMS via CS domain	Originating Low Priority Signalling
Supplementary Services	Originating High Priority Signalling
Answer to circuit switched paging	Set equal to the value of the paging cause used in the reception of paging in the RRC layer
SS part of Location services	Originating High Priority Signalling

When GMM requests the establishment of a PS signalling connection, the RRC establishment cause used by the MS shall be selected according to the PS NAS procedure as specified in Table L.1.2.

Table L.1.2/3GPP TS 24.008: Mapping of PS NAS procedure to establishment cause

PS NAS procedure	RRC Establishment cause(according 3GPP TS 25.331)
GPRS Attach	Registration
Routing Area Update – for the case of ‘Directed Signalling Connection Re-Establishment (see chapter 4.7.2.5.)	Call Re-Establishment
Routing area Update – all cases other than ‘Directed Signalling Connection Re-Establishment	Registration
GPRS Detach	Detach
Request to re-establish RABs	Either ‘Originating Conversational Call’ or ‘Originating Streaming Call’ or ‘Originating Interactive Call’ or ‘Originating Background Call ‘ – depending on the Traffic Class in QoS of the “most demanding” RAB. (see Note 1)
Activate PDP Context	Either ‘Originating Conversational Call’ or ‘Originating Streaming Call’ or ‘Originating Interactive Call’ or ‘Originating Background Call ‘ – depending on the Traffic Class in QoS of the “most demanding” RAB. (see Note 1) – If Traffic Class in QoS is not ‘Conversational Class’ or ‘Streaming Class’ or ‘Interactive Class’ or ‘Background Class’ but is ‘Subscribed Traffic Class’, then ‘Originating High Priority Signalling’ shall be used.
Modify PDP Context	Originating High Priority Signalling
Deactivate PDP Context	Originating High Priority Signalling
MO SMS via PS domain	Originating Low Priority Signalling
<u>SS part of Location services</u>	<u>Originating High Priority Signalling</u>
Answer to packet paging	Set equal to the value of the paging cause used in the reception of paging in the RRC layer
Note 1:	For classification of “most demanding” Traffic Class the following ranking order applies: ‘Conversational’ followed by ‘Streaming’ followed by ‘Interactive’ followed by ‘Background’, where ‘Conversational’ is the most demanding Traffic class in terms of being delay sensitive. In choosing the “most demanding” Traffic Class all already active PDP Context together with the PDP Context to be activated shall be considered

NOTE: The RRC establishment cause may be used by the network to prioritise the connection establishment request from the MS at high load situations in the network.

CHANGE REQUEST

⌘ **24.008 CR 495** ⌘ rev **24** ⌘ Current version: **5.1.0.** ⌘

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Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ RRC Establishment Causes for LCS Procedures		
Source:	⌘ Ericsson		
Work item code:	⌘ LCS1-PS	Date:	⌘ 28th Nov 2001
Category:	⌘ A	Release:	⌘ Rel-5
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ Since Release 4 it is required that LCS be supported by the PS Domain. As such the RRC Establishment Causes for NAS procedures within the PS Domain must reflect the LCS procedures that has to be supported. Thus this CR proposes RRC Establishment Causes to cater for LCS procedures.
Summary of change:	⌘ In Annex L, an entry to Table L.1.2. has been introduced to cater for LCS in PS Domain.
Consequences if not approved:	⌘ The Rel 5 support of LCS via PS Domain will be incomplete

Clauses affected:	⌘ Annex L		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications	⌘	
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Other comments:	⌘ This CR also takes into account Tdoc N1-011580, 24.008CR487r1 which was approved in CN1#20, Brighton		

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When GMM requests the establishment of a PS signalling connection, the RRC establishment cause used by the MS shall be selected according to the PS NAS procedure as specified in Table L.1.2.

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Modify PDP Context	Originating High Priority Signalling
Deactivate PDP Context	Originating High Priority Signalling
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<u>SS part of Location services</u>	<u>Originating High Priority Signalling</u>
Answer to packet paging	Set equal to the value of the paging cause used in the reception of paging in the RRC layer
Note 1:	For classification of “most demanding” Traffic Class the following ranking order applies: ‘Conversational’ followed by ‘Streaming’ followed by ‘Interactive’ followed by ‘Background’, where ‘Conversational’ is the most demanding Traffic class in terms of being delay sensitive. In choosing the “most demanding” Traffic Class all already active PDP Context together with the PDP Context to be activated shall be considered

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