Source:	**TSG CN WG1**	
Title:	**CR on Rel-6 WI TEI6 towards TS 29.994**	
Agenda item:	**9.21**	
Document for:	**APPROVAL**	

This document contains **1 CR on Rel-6 Work Item "TEI6"**, that has been agreed by TSG CN WG1 CN#35 meeting and forwarded to TSG CN Plenary meeting #25 for approval.

TDoc #	Tdoc Title	Spec	CR #	Rev	CAT	Current version	WI	Rel
N1-041626	Incorrect handling, by MS, of registration acceptance messages that include R99 and later IEs	29.994	A018	2	F	5.0.1	TEI6	Rel-6

CR-Form-v7

CHANGE REQUEST

⌘ **29.994** CR **A018** ⌘ rev **2** ⌘ Current version: **5.0.1** ⌘

*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 **X**

Title: ⌘	Incorrect handling, by MS, of registration acceptance messages that include R99 and later IEs
Source: ⌘	China Mobile
Work item code: ⌘ TEI6	**Date:** ⌘ 16/08/2004
Category: ⌘ **F**	**Release:** ⌘ Rel-6

Use <u>one</u> of the following categories:
  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.

Use <u>one</u> of the following releases:
  2 (GSM Phase 2)
  R96 (Release 1996)
  R97 (Release 1997)
  R98 (Release 1998)
  R99 (Release 1999)
  Rel-4 (Release 4)
  Rel-5 (Release 5)
  Rel-6 (Release 6)

Reason for change: ⌘	The Equivalent PLMN concept was introduced in R99 and an optional EPLMN list IE was included in the LOCATION UPDATING ACCEPT, ATTACH ACCEPT and ROUTING AREA UPDATE ACCEPT messages.
	It has been found that some types of R97/R98 MS are unable to correctly handle these messages which included the EPLMN list IE and because of this they fail to register on the network.
Summary of change: ⌘	A new clause is added to identify how a network can provide service to R97/R98 MS that are unable to handle the message.
Consequences if not approved: ⌘	There will be MS that can not register on the network and therefore can not provide service to the subscriber.

Clauses affected: ⌘	New clause 5.9 added

	Y	N	
Other specs affected: ⌘		X	Other core specifications ⌘
		X	Test specifications
		X	O&M Specifications

Other comments: ⌘	

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at http://www.3gpp.org/specs/CR.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.

5.9 MS unable to handle the LOCATION UPDATING ACCEPT, ATTACH ACCEPT and ROUTING AREA UPDATE ACCEPT messages when the EPLMN Lists IE is included

5.9.1 Justification

The concept of EPLMN was initially defined in the R99 specifications and to provide the EPLMN list to an MS a type 4 TLV coded IE was added to the LOCATION UPDATING ACCEPT, ATTACH ACCEPT and ROUTING AREA UPDATE ACCEPT messages.

Some types of R97/R98 MS are not able to handle these messages when the EPLMN List IE is included. Such MS ignore the messages and continually repeats the registration procedure. Consequently they never successfully register on the network and as a result fail to provide any service to the subscriber.

This means that such a R97/R98 MS can not provide any service in a network applying the EPLMN functionality.

5.9.2 Solution

To enable operation of the affected MSs, the infrastructure may adapt the contents of the LOCATION UPDATING ACCEPT, ATTACH ACCEPT and ROUTING AREA UPDATE ACCEPT message it sends to an MS by excluding the EPLMN List IE added in the R99 version of the specifications. This can be done based on the MS Revision Level Indicator.

NOTE 1: This subclause was added to the present document in 3GPP TSGN #25.