

**3GPP TSG CN Plenary  
Meeting #11, Palm Springs, U.S.A  
14<sup>th</sup> - 16<sup>th</sup> March 2001**

**Tdoc NP-010208**

**Source:** TSG CN WG 1  
**Title:** CRs to Rel-4 on Work Item TRFO  
**Agenda item:** 8.10  
**Document for:** APPROVAL

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**Introduction:**

This document contains 1 CR on **Rel-4** Work Item "TRFO", that has been agreed by **TSG CN WG1**, and is forwarded to TSG CN Plenary meeting **#11** for approval.

Tdoc	Title	Spec	CR#	Rev	CAT	Rel	C Ver
N1-010452	Removal of additional codec type octet in Supported Codecs List I.E.	24.008	392	-	F	Rel-4	4.1.1

## CHANGE REQUEST

⌘ **24.008 CR 0xx** ⌘ rev **-** ⌘ Current version: **4.1.1** ⌘

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

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

<b>Title:</b>	⌘ Removal of additional codec type octet in Supported Codecs List I.E.		
<b>Source:</b>	⌘ LM Ericsson		
<b>Work item code:</b>	⌘ TRFO-OOBTC	<b>Date:</b>	⌘ 2001-02-27
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ REL-4
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (essential correction)  <b>A</b> (corresponds to a correction in an earlier release)  <b>B</b> (Addition of feature),  <b>C</b> (Functional modification of feature)  <b>D</b> (Editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p>		<p>Use <u>one</u> of the following releases:</p> <p><b>2</b> (GSM Phase 2)  <b>R96</b> (Release 1996)  <b>R97</b> (Release 1997)  <b>R98</b> (Release 1998)  <b>R99</b> (Release 1999)  <b>REL-4</b> (Release 4)  <b>REL-5</b> (Release 5)</p>

<b>Reason for change:</b>	⌘ During a checking of the 24.008 for codec handling it was noticed that more than 2 octets have been introduced in the Supported Codec List IE during the Vancouver meeting review of Tdoc N1-000921, the final CR being tdoc N-001005. It is unclear why this change was made however it is not permissible to send more than 16 codec types in the Supported Codec List IE in Rel4 implementation due to the fact that the Selected Codec (NAS Synchronisation Id) in RANAP is only a 4 bit field. The discussion on the extension of the selected codec list between Ericsson & Siemens resulted in the conclusion that if in later releases we need to extend the list then we add an extension IE and a new Message from MSC to ME (Accepted Codecs) with an allocation of up to 16 allowed codecs with the NSI index allocated to each type. Then in RANAP the NSI is sent to select one of the Accepted Codecs. This extension mechanism is not in Rel4 and thus we should only allow 2 octet codec bitmap in Supported Codec List IE.
<b>Summary of change:</b>	⌘ 3 <sup>rd</sup> octet for codec bitmap removed.
<b>Consequences if not approved:</b>	⌘ Possibly faulty implementation.

<b>Clauses affected:</b>	⌘ 10.5.4.32
<b>Other specs affected:</b>	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> 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/3G\\_Specs/CRs.htm](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://www.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

### 10.5.4.32 Supported codec list

The purpose of the *Supported Codec List* information element is to provide the network with information about the speech codecs supported by the mobile.

The *Supported Codec List* information element is coded as shown in figure 10.5.118c/TS 24.008.

The *Supported Codec List* information element is a type 4 information element with a minimum length of 5 octets and a maximum length of  $m+3$  octets.

Speech codec information belonging to a GSM radio access shall not be conveyed by this information element, but by the *Bearer Capability* information element.



Figure 10.5.118c/TS 24.008 Supported codec list information element

**Table 10.5.4.135c/TS 24.008: Supported Codec List information element**

<p>Octet 3, (j+1), m etc SysID indicates the radio access technology for which the proceeding codec types may be used. Coding of this Octet is defined in 3GPP TS <del>28-062-26.103</del></p> <p>Octet 4, (j+2), m+1 etc Length Of Codec Bitmap for SysID indicates the number of octets included in the list for the given SysID.</p> <p>Octets (5 &amp; <del>6 to j</del>), (<del>J+2 &amp; j+3 to k</del>), (m+2 &amp; <del>m+3 to n</del>) etc The coding of the Codec Bitmap is defined in 3GPP TS 26.103.</p>
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