

**TSG RAN Meeting #22**  
**Maui, USA, 9 - 12 December 2003**

**RP-030672**

**Title** CRs CRs (Rel-4 and Rel-5 Category A) to TS 25.414 on Inclusion of AAL2 Link Characteristics in ERQ  
**Source** TSG RAN WG3  
**Agenda Item** 7.4.4

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-031479	25.414	4.6.0	4.7.0	REL-4	068	-	F	Inclusion of AAL2 Link Characteristics in ERQ	TEI4
R3-031480	25.414	5.4.0	5.5.0	REL-5	069	-	A	Inclusion of AAL2 Link Characteristics in ERQ	TEI4

## CHANGE REQUEST

⌘ **25.414 CR 068** ⌘ rev **-** ⌘ Current version: **4.6.0** ⌘

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

<b>Title:</b>	⌘ Inclusion of AAL2 Link Characteristics in ERQ		
<b>Source:</b>	⌘ RAN3		
<b>Work item code:</b>	⌘ TEI4	<b>Date:</b>	⌘ 10/11/2003
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-4
	Use <u>one</u> of the following categories: <b>F</b> (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) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		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)

<b>Reason for change:</b>	⌘ According to TS 25.414, Link Characteristics (LC) shall be included in the Establish Request and Modification Request messages if there is an AAL2 switching function in the transport network of the Lu interface. If there is no AAL2 switching function involved, nothing is stated about the inclusion or non-inclusion of ALC. <ul style="list-style-type: none"> <li>• It was recognised during RAN3#36 that the sending RNC normally does not know if there is AAL2 switching in the transport network of the Lu interface.</li> <li>• The receiving endpoint (MSC Server/MGW) should always have the possibility to perform Connection Admission Control based on LC even when MSC Server and MGW are connected via H248 as specified in TS 23.205. The separate MSC server/MGW architecture is specified from R4.</li> <li>• In 29.414 (which is based on 25.414 and concerns the Nb interface), the procedure text has already been changed in order to make the LC parameter mandatory in the Establish Request message.</li> </ul>
<b>Summary of change:</b>	⌘ The procedure text is changed to state that LC shall be included in the AAL2 Establish Request and Modification Request messages. <p><u>Impact assessment towards the previous version of the specification (same release):</u>                  This CR has isolated impact towards the previous version of the specification (same release). This CR has an impact under functional point of view. The impact can be considered isolated because it only affects the establishment/modification of AAL2 connections.</p>

**Consequences if not approved:** ⌘ From R4 onwards, the receiving endpoint (MSC/MGW) cannot perform Connection Admission Control on LC when MSC Server and MGW are separated and this could lead to interoperability problems between UTRAN and Core Networks from different vendors.

**Clauses affected:** ⌘ 5.2.2.1.1

<b>Other specs affected:</b>	⌘	<table border="1"><tr><td>Y</td><td>N</td></tr><tr><td>X</td><td></td></tr><tr><td></td><td>X</td></tr><tr><td></td><td>X</td></tr></table>	Y	N	X			X		X	Other core specifications	⌘ CR069 TS25.414 v5.4.0
		Y	N									
		X										
			X									
	X											
	Test specifications											
	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.

### 5.2.2.1 AAL2 Signalling Protocol (Q.2630.2)

ITU-T Recommendation Q.2630.2 [21] shall be used for establishing AAL2 connections towards the circuit switched domain. ITU-T Recommendation Q.2630.2 [21] adds new optional capabilities to ITU-T Recommendation Q.2630.1 [10].

The AAL2 transport layer uses the embedded E.164 or other AESA variants of the NSAP addressing formats [11, 22]. Native E.164 addressing [5] shall not be used.

Binding ID provided by the radio network layer shall be copied in SUGR parameter of ESTABLISH request primitive of ITU-T Recommendation Q.2630.2 [21].

~~If there is an AAL2 switching function in the transport network layer of the interface, t~~The Link Characteristics parameter (LC) shall be included in the Establish Request message and in the Modification Request message of AAL2 signalling protocol.

## CHANGE REQUEST

⌘ **25.414 CR 069** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

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

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

<b>Title:</b>	⌘ Inclusion of AAL2 Link Characteristics in ERQ		
<b>Source:</b>	⌘ RAN3		
<b>Work item code:</b>	⌘ TEI4	<b>Date:</b>	⌘ 10/11/2003
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ Rel-5
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</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>

<b>Reason for change:</b>	<p>⌘ According to TS 25.414, Link Characteristics (LC) shall be included in the Establish Request and Modification Request messages if there is an AAL2 switching function in the transport network of the Lu interface. If there is no AAL2 switching function involved, nothing is stated about the inclusion or non-inclusion of ALC.</p> <ul style="list-style-type: none"> <li>• It was recognised during RAN3#36 that the sending RNC normally does not know if there is AAL2 switching in the transport network of the Lu interface.</li> <li>• The receiving endpoint (MSC Server/MGW) should always have the possibility to perform Connection Admission Control based on LC even when MSC Server and MGW are connected via H248 as specified in TS 23.205. The separate MSC server/MGW architecture is specified from R4.</li> <li>• In 29.414 (which is based on 25.414 and concerns the Nb interface), the procedure text has already been changed in order to make the LC parameter mandatory in the Establish Request message.</li> </ul>
<b>Summary of change:</b>	<p>⌘ The procedure text is changed to state that LC shall be included in the AAL2 Establish Request and Modification Request messages.</p> <p><u>Impact assessment towards the previous version of the specification (same release):</u> This CR has isolated impact towards the previous version of the specification (same release). This CR has an impact under functional point of view. The impact can be considered isolated because it only affects the establishment/modification of AAL2 connections.</p>

**Consequences if not approved:** ⌘ From R4 onwards, the receiving endpoint (MSC/MGW) cannot perform Connection Admission Control on LC when MSC Server and MGW are separated and this could lead to interoperability problems between UTRAN and Core Networks from different vendors.

**Clauses affected:** ⌘ 5.2.2.1.1

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		Y	N									
		X										
	X											
	X											
	Test specifications											
	O&M Specifications											

**Other comments:** ⌘

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#### 5.2.2.1.1 AAL2 Signalling Protocol (Q.2630.2)

In the ATM transport option ITU-T Recommendation Q.2630.2 [21] shall be used for establishing AAL2 connections towards the circuit switched domain. ITU-T Recommendation Q.2630.2 [21] adds new optional capabilities to ITU-T Recommendation Q.2630.1 [10].

The AAL2 transport layer uses the embedded E.164 or other AESA variants of the NSAP addressing formats [11, 35]. Native E.164 addressing [5] shall not be used.

Binding ID provided by the radio network layer shall be copied in SUGR parameter of ESTABLISH request primitive of ITU-T Recommendation Q.2630.2 [21].

~~If there is an AAL2 switching function in the transport network layer of the interface, t~~The Link Characteristics parameter (LC) shall be included in the Establish Request message and in the Modification Request message of AAL2 signalling protocol.