

TSG-RAN Meeting #15
Cheju, Korea, 5 - 8 March 2002

TSGRP#15(02) 0165

Title: Agreed CRs to TS 25.414

Source: TSG-RAN WG3

Agenda item: 7.3.3/7.3.4

RP_Num	Tdoc_Num	Specification	CR_Num	Revision_Num	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	Workitem
RP-020165	R3-020370	25.414	031		R99	AAL5 used to transport IP packet for Broadcast Domain	F	3.9.0	TEI
RP-020165	R3-020371	25.414	032		Rel-4	AAL5 used to transport IP packet for Broadcast Domain	A	4.2.0	TEI

CHANGE REQUEST

⌘ **25.414 CR 031** ⌘ rev **-** ⌘ Current version: **3.9.0** ⌘

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:	⌘ AAL5 used to transport IP packet for Broadcast Domain		
Source:	⌘ R-WG3		
Work item code:	⌘ TEI	Date:	⌘ 2002-February
Category:	⌘ F	Release:	⌘ R99
	<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:	⌘ The AAL5 used to transport IP packet across lu interface for Broadcast domain in current 25.414 is described as towards packet switched domain. This is wrong because the lu-BC dose not across the packet switched domain.
Summary of change:	⌘ Change the current description of "toward packet switched domain" for AAL5 in subclause 7.1.3 to "towards broadcast domain"
Consequences if not approved:	⌘ If this is not approved, it may be implemented that the AAL5 used to transport IP packet is for packet switched domain. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has [isolated impact] with the previous version of the specification (same release) because maybe some existing implementation implement the AAL5 as toward packet switched domain. ONLY if there is impact: This CR has an impact under [functional] point of view. The impact [can] be considered isolated because the change affects [one] [system function] namely the broadcast domain.

Clauses affected:	⌘ 7.1.3		
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	25.414 CR32 Rel4
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. 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.

7 Broadcast Domain

7.1 Transport network user plane

7.1.1 General

Figure 4 shows the protocol stack for the transport network user plane on the Iu interface towards the Broadcast domain.

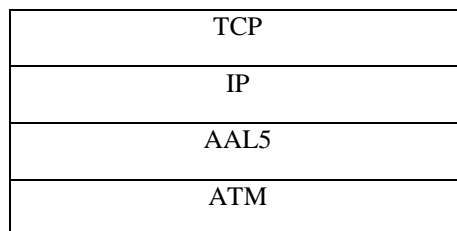


Figure 4

The protocol architecture for the Service Area Broadcast Plane of the Iu interface shall be TCP over IP over AAL5 over ATM.

7.1.2 TCP/IP

The path protocol used shall be TCP, which is specified in RFC793 [18]. IPv4 [13] (RFC 791) shall be supported, IPv6 [16] (RFC 2460) support is optional.

7.1.3 ATM Adaptation Layer Type 5 (I.363.5)

AAL5 shall be used according to I.363.5.

AAL5 virtual circuits shall be used to transport the IP packets across the Iu interface toward the ~~packet switched~~ broadcast domain. Multiple VCs may be used over the interface. An association shall be made between a VC and the IP addresses that are related to this VC in the peer node side. This association shall be made using O&M or using ATM Inverse ARP according to Classical IP over ATM when PVCs are used.

7.1.4 IP/ATM

Classical IP over ATM protocols and Multiprotocol Encapsulation over AAL5 shall be used to carry the IP packets over the ATM transport network when PVCs are used. Classical IP over ATM is specified in RFC 2225 [15]. Multiprotocol Encapsulation over AAL5 is specified in RFC 2684 [14].

7.2 Transport network control plane

ALCAP is not required over the Iu interface towards the broadcast domain.

CR-Form-v5

CHANGE REQUEST

⌘ **25.414 CR 032** ⌘ rev **-** ⌘ Current version: **4.2.0** ⌘

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:	⌘ AAL5 used to transport IP packet for Broadcast Domain		
Source:	⌘ R-WG3		
Work item code:	⌘ TEI	Date:	⌘ 2002-February
Category:	⌘ A	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:	⌘ The AAL5 used to transport IP packet across lu interface for Broadcast domain in current 25.414 is described as towards packet switched domain. This is wrong because the lu-BC dose not across the packet switched domain.
Summary of change:	⌘ Change the current description of "toward packet switched domain" for AAL5 in subclause 7.1.3 to "towards broadcast domain"
Consequences if not approved:	⌘ If this is not approved, it may be implemented that the AAL5 used to transport IP packet is for packet switched domain. Impact Analysis: Impact assessment towards the previous version of the specification (same release): This CR has [isolated impact] with the previous version of the specification (same release) because maybe some existing implementation implement the AAL5 as toward packet switched domain. ONLY if there is impact: This CR has an impact under [functional] point of view. The impact [can] be considered isolated because the change affects [one] [system function] namely the broadcast domain.

Clauses affected:	⌘ 7.1.3		
Other specs affected:	⌘ <input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	25.414 CR31 R99
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. 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.

7 Broadcast Domain

7.1 Transport network user plane

7.1.1 General

Figure 4 shows the protocol stack for the transport network user plane on the Iu interface towards the Broadcast domain.

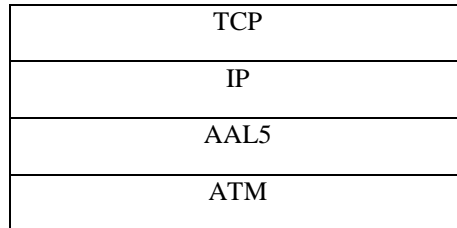


Figure 4

The protocol architecture for the Service Area Broadcast Plane of the Iu interface shall be TCP over IP over AAL5 over ATM.

7.1.2 TCP/IP

The path protocol used shall be TCP, which is specified in RFC793 [18]. IPv4 [13] (RFC 791) shall be supported, IPv6 [16] (RFC 2460) support is optional.

7.1.3 ATM Adaptation Layer Type 5 (I.363.5)

AAL5 shall be used according to I.363.5.

AAL5 virtual circuits shall be used to transport the IP packets across the Iu interface toward the ~~packet switched~~ broadcast domain. Multiple VCs may be used over the interface. An association shall be made between a VC and the IP addresses that are related to this VC in the peer node side. This association shall be made using O&M or using ATM Inverse ARP according to Classical IP over ATM when PVCs are used.

7.1.4 IP/ATM

Classical IP over ATM protocols and Multiprotocol Encapsulation over AAL5 shall be used to carry the IP packets over the ATM transport network when PVCs are used. Classical IP over ATM is specified in RFC 2225 [15]. Multiprotocol Encapsulation over AAL5 is specified in RFC 2684 [14].

7.2 Transport network control plane

ALCAP is not required over the Iu interface towards the broadcast domain.
