TSG RAN Meeting #22 Maui, USA, 9 - 12 December 2003 RP-030685

Title CRs (Rel-5 only) to TS 25.414, TS 25.424 and TS 25.434 on Diffserv marking is

configurable

Source TSG RAN WG3

Agenda Item 7.4.6

RAN3 Tdoc	Spec	curr. Vers.	new Vers.	REL	CR	Rev	Cat	Title	Work item
R3-031814	25.414	5.4.0	5.5.0	REL-5	071	1	F	Diffserv marking is configurable	ETRAN- IPtrans
R3-031812	25.424	5.2.0	5.3.0	REL-5	026	1	F	Diffserv marking is configurable	ETRAN- IPtrans
R3-031813	25.434	5.2.0	5.3.0	REL-5	028	1	F	Diffserv marking is configurable	ETRAN- IPtrans

3GPP TSG-RAN3 Meeting #39 San Diego, USA, November 17th-21st 2003

CHANGE REQUEST							
¥ 2	25.414 CR 071	≋rev <mark>1</mark>	器 Current version: 5	.4.0 [#]			
For <u>HELP</u> on usin	ng this form, see bottom of t	his page or look	at the pop-up text over the	e ¥ symbols.			
Proposed change af	fects: UICC apps 	ME <mark> </mark>	adio Access Network X C	Core Network X			
Title: 第	Diffserv marking is configure	able					
Source: #	RAN3						
Work item code: 第	ETRAN-IPtrans		<i>Dat</i> e:	2003			
Category: 第	F		Release: # Rel-5				
D	Jse one of the following catego F (correction) A (corresponds to a correction) B (addition of feature), C (functional modification) D (editorial modification) Detailed explanations of the above found in 3GPP TR 21.900.	ction in an earlier i	R97 (Release R98 (Release R99 (Release	hase 2) e 1996) e 1997) e 1998) e 1999) e 4) e 5)			
			1	,			
Reason for change:	器 It is not clear enough h	ow a node mark	ks IP packets with Diffserv.				
Summary of change:	It is made explicit that Rev1: re-wording	Diffserv marking	can be configured by the c	pperator.			
	release) because only This CR has an impact	one function is in under the funct		·			
Consequences if not approved:		ransport networl	e operator, it is very likely the k or to the evolution of the t the transport network).				
Clauses affected:	% 5.1.3.5, 6.1.3.4, 7.1.3.4	1					
Giauses affecteu.							
Other specs affected:	X Other core specification X O&M Specification	าร	TS 25.424 CR#026 Rel-5 TS 25.434 CR#028 Rel-5				
Other comments:	器 -						

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 Circuit switched domain

5.1 Transport network user plane

<<<<<< [some text is skip] >>>>>>

5.1.3 IP Transport Option

<><<< < [some text is skip] >>>>>

5.1.3.5 Diffserv code point marking

IP Differentiated Services code point marking [19] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. The Diffserv code point Traffic categories are implementation-specific and may be determined from the application parameters.

<<<<<< next change >>>>>>>>

6 Packet switched domain

6.1 Transport network user plane

<><<< [some text is skip] >>>>>

6.1.3 IP Transport Option

<><<< [some text is skip] >>>>>

6.1.3.4 Diffserv code point marking

IP Differentiated Services code point marking [19] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. The Diffserv code point Traffic categories are implementation-specific and may be determined from the application parameters.

<<<<<< next change >>>>>>>>>

7 Broadcast Domain

7.1 Transport network user plane

<-<-< [some text is skip] >>>>>

7.1.3 IP Transport Option

<><<<< [some text is skip] >>>>>

7.1.3.4 Diffserv code point marking

IP Differentiated Services code point marking [19] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. The Diffserv code point Traffic categories are implementation-specific and may be determined from the application parameters.

3GPP TSG-RAN3 Meeting #39 San Diego, USA, November 17th-21st 2003

CHANGE REQUEST							
*	25.424 CR 026	≋rev 1	第 Current version:	5.2.0 *			
For <u>HELP</u> on us	sing this form, see bottom of th	is page or look	at the pop-up text over the	he % symbols.			
Proposed change a	affects: UICC apps Ж	ME Ra	dio Access Network X	Core Network			
Title: 第	Diffserv marking is configural	ole					
Source: #	RAN3						
Work item code: ₩	ETRAN-IPtrans		<i>Date:</i>	1/2003			
Category: 業	F		Release: # Rel-	5			
	Use one of the following categorie F (correction) A (corresponds to a correcti B (addition of feature), C (functional modification of D (editorial modification) Detailed explanations of the abov be found in 3GPP TR 21.900.	ion in an earlier r feature)	Use <u>one</u> of the folk 2 (GSM release) R96 (Relea R97 (Relea R98 (Relea R99 (Relea	owing releases: Phase 2) se 1996) se 1997) se 1998) se 1999) se 4) se 5)			
Reason for change	: It is not clear enough ho	w a node mark	s IP packets with Diffserv	/ .			
Summary of chang	e: # It is made explicit that D Rev1: re-wording.	iffserv marking	can be configured by the	e operator.			
	release) because only on This CR has an impact of	ne function is ir under the functi		·			
Consequences if not approved:		ansport network	operator, it is very likely to or to the evolution of the hetransport network).				
Clauses affected:	⋇ 5.3						
Ciauses affected:	თ <mark>ე.კ</mark>						
Other specs affected:	X Other core specific X Test specifications O&M Specification	3	TS 25.414 CR#071 Rel- TS 25.434 CR#028 Rel-				
Other comments:	₩ -						

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- 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.

5.3 IP Option

UDP [18] over IP shall be used as the transport for DCH data streams on Iub and Iur interfaces. The data link layer is as specified in subclause 4.2.

An IP UTRAN Node shall support IPv6 [16]. The support of IPv4 [17] is optional.

Note: This does not preclude single implementation of IPv4.

IP dual stack support is recommended for the potential transition period from IPv4 to IPv6 in the transport network.

The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [18] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M. The Diffserv code point Traffic categories are implementation-specific and may be determined from the application parameters.

3GPP TSG-RAN3 Meeting #39 San Diego, USA, November 17th-21st 2003

CHANGE REQUEST							
×	25.434 CR 028	urrent version: 5.2.0 *					
For <u>HELP</u> on u	using this form, see bottom of this page or look at the p	oop-up text over the % symbols.					
Proposed change affects: UICC apps ME Radio Access Network X Core Network							
Title: %	Diffserv marking is configurable						
Source: #	RAN3						
Work item code: 第	ETRAN-IPtrans	Date: ** 19/11/2003*** ** 19/11/2003*** ** 19/11/2003** ** 19/11/20					
Reason for change	Use one 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.						
Summary of chang	Rev1: re-wording Impact Analysis This CR has isolated impact on the previous verelease) because only one function is impacted. This CR has an impact under the functional pointhe impact can be considered as isolated as it marking of IP packets.	ersion of the specification (same d. int of view.					
Consequences if not approved:	If the marking is not controllable by the operato be not adapted to the transport network or to the network (e.g. addition of new PHBs in the trans	ne evolution of the transport					
Clauses affected:	₩ 5.3						
Other specs affected:	· · · · · · · · · · · · · · · · · · ·	414 CR#071 Rel-5 424 CR#026 Rel-5					
Other comments:	₩ -						

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- 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.

5.3 IP Transport Option

UDP [12] over IP shall be supported as the transport for RACH, CPCH [FDD], FACH, PCH, DSCH and USCH [TDD] data streams on Iub Interface. The data link layer is as specified in chapter 4.2

An IP UTRAN node shall support IPv6 [13]. The support of IPv4 [14] is optional.

NOTE: This does not preclude single implementation and use of IPv4.

IP dual stack is recommended for the potential transition period from IPv4 to IPv6 in the transport network.

The transport bearer is identified by the UDP port number and the IP address (source UDP port number, destination UDP port number, source IP address, destination IP address).

IP Differentiated Services code point marking [15] shall be supported. The mapping between traffic categories and Diffserv code points shall be configurable by O&M for each traffic category. The Diffserv code point Traffic categories are implementation-specific and may be determined from the application parameters.