

Technical Specification Group Services and System Aspects **TSGS#12(01)0512**

Meeting #13, Beijing, China, 24-27 September 2001

Source: TSG SA WG2
Title: CRs on 23.107
Agenda Item: 7.2.3

The following Change Requests (CRs) have been approved by TSG SA WG2 and are requested to be approved by TSG SA plenary #13.

Note: the source of all these CRs is now S2, even if the name of the originating company(ies) is still reflected on the cover page of all the attached CRs.

CR #	Rev	Rel	Title	cat	Ver in	Ver out	S2 Tdoc #	WI
049		R4	Clarification of traffic class weights in QoS profile	A	4.1.0	4.2.0	S2-012097	QoS
050		R5	Clarification of traffic class weights in QoS profile	A	5.1.0	5.2.0	S2-012098	QoS

CR-Form-v3

CHANGE REQUEST

⌘ **23.107 CR 049** ⌘ rev ⌘ Current version: **4.0.0** ⌘

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:	⌘ Clarification of traffic class weights in QoS profile		
Source:	⌘ Nortel Networks		
Work item code:	⌘ QoS	Date:	⌘ August 2001
Category:	⌘ A	Release:	⌘ REL-4
<p>Use <u>one</u> of the following categories:</p> <p>F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (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>2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)</p>	

Reason for change:	⌘ To allow sub flows associated with an IP address and APN to have different "Traffic Classes" and hence support traffic of different types e.g. SIP signalling vs. video, it is essential to clarify the interpretation of the Traffic Class usage in any PDP Activation attempts. If the traffic class is rigidly enforced to be the subscribed Traffic Class, then this will likely make the QoS negotiation less flexible. This is the mirror CR for CR046 on the R99 version of 23.107.
Summary of change:	⌘ Add a normative annex explaining how traffic classes have different weights in the QoS profile, with the following order: background, interactive, streaming and conversational.
Consequences if not approved:	⌘ Rel-4 version of 23.107 will not be aligned with R99 of 23.107

Clauses affected:	⌘ Annex X (new)		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications	⌘ <input type="text"/>	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
Other comments:	⌘ <input type="text"/>		

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://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.

Annex X (normative): Determine Traffic Class weights in HLR QoS profile

The QoS profile in the subscription record represents the maximum QoS per PDP context to the associated APN. Subsequently, it shall be possible to negotiate all QoS parameters, including an appropriate Traffic Class for each QoS flow. This is valid for the first PDP context that is established as well as subsequent PDP contexts, i.e. this includes primary and secondary PDP contexts activations. The traffic classes have increasing weight according to the order background, interactive, streaming and conversational.

CR-Form-v3

CHANGE REQUEST

⌘ **23.107 CR 050** ⌘ rev ⌘ Current version: **5.0.0** ⌘

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:	⌘ Clarification of traffic class weights in QoS profile		
Source:	⌘ Nortel Networks		
Work item code:	⌘ QoS	Date:	⌘ August 2001
Category:	⌘ A	Release:	⌘ REL-5
<p>Use <u>one</u> of the following categories:</p> <p>F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (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>2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)</p>	

Reason for change:	⌘ To allow sub flows associated with an IP address and APN to have different "Traffic Classes" and hence support traffic of different types e.g. SIP signalling vs. video, it is essential to clarify the interpretation of the Traffic Class usage in any PDP Activation attempts. If the traffic class is rigidly enforced to be the subscribed Traffic Class, then this will likely make the QoS negotiation less flexible. This is the mirror CR for CR046 on the R99 version of 23.107.
Summary of change:	⌘ Add a normative annex explaining how traffic classes have different weights in the QoS profile, with the following order: background, interactive, streaming and conversational.
Consequences if not approved:	⌘ Rel-5 version of 23.107 will not be aligned with R99 of 23.107

Clauses affected:	⌘ Annex X (new)	
Other specs affected:	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘
Other comments:	⌘	

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Annex X (normative): Determine Traffic Class weights in HLR QoS profile

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