

3GPP TSG\_CN  
Plenary Meeting #8, Dusseldorf, Germany  
21<sup>st</sup> – 23<sup>rd</sup> June 2000.

Tdoc NP-000299

Source: TSG\_N WG4  
Title: CRs to 3G Work Item “Quality of Service Enhancements”  
Agenda item: 6.20.4  
Document for: APPROVAL

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**Introduction:**

This document contains “2” CRs on Work Item “Quality of Service Enhancements”, that have been agreed by TSG\_N WG4, and are forwarded to TSG\_N Plenary meeting #8 for approval.

TDoc	SPEC	CR	REV	PHAS	VERS	SUBJECT	CAT	NEW_VERS
N4-000073	29.002	120	1	R99	3.4.0	QoS-Subscribed field enhancements	F	3.5.0
N4-000072	29.060	094	1	R99	3.4.0	QoS Profile IE modification	C	3.5.0

<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
<b>29.002</b>	<b>CR 120r1</b>	Current Versior <b>3.3.1</b>
GSM (AA.BB) or 3G (AA.BBB) specification number	↑ CR number as allocated by MCC support team	
For submission to <b>CN#08</b> <i>list expected approval meeting # here</i>	for approval <input checked="" type="checkbox"/> for informatio <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input checked="" type="checkbox"/> <i>(for SMG use only)</i>

Form: CR cover sheet, version 2 for 3GPP and SMG    The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.do>

**Proposed change affects:** (U)SIN     M     UTRAN / Radi     Core Network   
*(at least one should be marked with an X)*

**Source:**    N4    **Date** 28 Mar 2000

**Subject:**    QoS-Subscribed field enhancements

**Work item:**    QoS Enhancements

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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*(only one category shall be marked with an X)*

**Reason for change:** CR 29.002-094r2(N2B000120) was approved in N2 Kyoto meeting. However the CR(N1000559) that proposed to downsize the QoS Profile IE in 24.008 from 3-18 to 3-11 was approved in last N1 Umea meeting held on 28 Feb – 03 Mar 2000. Therefor the size o Ext-QoS-Subscribed shall be modified to 1..9 and the position of each QoS attributes shall be aliened.

**Clauses affected:**    17.7.1

<b>Other specs affected:</b>	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs 29.060 → List of CRs → List of CRs → List of CRs → List of CRs
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**Other comments:**    Based text of this CR was approved in CN#7.



help.doc

<----- double-click here for help and instructions on how to create a CR.

## 17.7.1 Mobile Service data types

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-- gprs location registration types

<b>UpdateGprsLocationArg ::= SEQUENCE {</b>			
imsi	IMSI,		
sgsn-Number	ISDN-AddressString,		
sgsn-Address	GSN-Address,		
extensionContainer	ExtensionContainer		OPTIONAL,
...			
sgsn-Capability	[0] SGSN-Capability		OPTIONAL }

<b>SGSN-Capability ::= SEQUENCE{</b>			
solsaSupportIndicator	NULL		OPTIONAL,
extensionContainer	[1] ExtensionContainer		OPTIONAL,
...			
gprsEnhancementsSupportIndicator	[2]NULL		OPTIONAL }

.....

<b>PDP-Context ::= SEQUENCE {</b>			
pdp-ContextId	ContextId,		
pdp-Type	[16] PDP-Type,		
pdp-Address	[17] PDP-Address		OPTIONAL,
qos-Subscribed	[18] QoS-Subscribed,		
vplmnAddressAllowed	[19] NULL OPTIONAL,		
apn	[20] APN ,		
extensionContainer	[21] ExtensionContainer		OPTIONAL,
...			
ext-QoS-Subscribed	[0] Ext-QoS-Subscribed		OPTIONAL}
-- qos-Subscribed shall be discarded if ext-QoS-Subscribed is received and supported			

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<b>QoS-Subscribed ::= OCTET STRING (SIZE (3))</b>	
-- Octets are coded according to TS GSM 04.08.	

<b>Ext-QoS-Subscribed ::= OCTET STRING (SIZE (1..916))</b>	
-- OCTET 1:	
-- Allocation/Retention Priority (This octet encodes each priority level defined in	
-- 23.107 as the binary value of the priority level, declaration in 29.060)	
-- OCTET 2:	
bits 8-7: Traffic Class	
bit 5: 0 (unused)	
bits 4-3: Delivery order	
bits 2-1: Delivery of erroneous SDU	
OCTETS 3-4:	
Maximum SDU size	
OCTETS 5-6:	
Maximum bit rate for uplink	
OCTETS 7-8:	
Maximum bit rate for downlink	
OCTET 9:	
Residual BER	
OCTET 10:	
SDU error ratio	
OCTET 11:	
Transfer delay	
OCTETS 12-13:	
Guaranteed bit rate for uplink	
OCTETS 14-15:	
Guaranteed bit rate for downlink	
OCTET 16:	
bits 8-7: 0 (unused)	
bits 2-1: traffic handling priority	
(Octets 2-916 are coded according to 3G TS 24.008 Quality of Service according Octets	
6-1320.)	

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<b>CHANGE REQUEST</b>		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
<b>29.060 CR 094r1</b>		Current Version: <b>3.4.0</b>	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: <b>CN#08</b> <i>list expected approval meeting # here ↑</i>	for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/>	strategic <input type="checkbox"/> non-strategic <input checked="" type="checkbox"/>	(for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

**Proposed change affects:** (U)SIM  ME  UTRAN / Radio  Core Network   
*(at least one should be marked with an X)*

**Source:** N4 **Date:** 28-03-2000

**Subject:** QoS Profile IE modification

**Work item:** QoS Enhancements

<b>Category:</b>	F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/>	<b>Release:</b>	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

**Reason for change:** CR 29.060-063r2(N2B000355) was approved in last N2B Milan meeting. However the CR(N1000559) that proposed to downsize the QoS Profile IE in 24.008 from 3..18 to 3..11 was approved in last N1 Umea meeting held on 28 Feb – 03 Mar 2000. Therefore the size of QoS Profile IE referring to 24.008 shall be modified to 4..13.

The Allocation/Retention Priority in QoS profile IE shall be ignored if the QoS profile IE is present in the QoS Req of the PDP context.

**Clauses affected:** 7.7.34

<b>Other specs affected:</b>	Other 3G core specifications <input checked="" type="checkbox"/> Other GSM core specifications <input type="checkbox"/> MS test specifications <input type="checkbox"/> BSS test specifications <input type="checkbox"/> O&M specifications <input type="checkbox"/>	→ List of CRs: 29.002 → List of CRs: → List of CRs: → List of CRs: → List of CRs:
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**Other comments:** Current version was changed to v3.4.0.

We agreed to remove the word 'according' on 4<sup>th</sup> line and 5<sup>th</sup> line on the text of 7.7.25 in 29.060v330. However it was already removed on 29.060v340.



<----- double-click here for help and instructions on how to create a CR.

### 7.7.34 Quality of Service (QoS) Profile

The Quality of Service (QoS) Profile shall include the values of the defined QoS parameters.. Octet 4 carries the allocation/retention priority octet which is defined in 3G TS 23.107. The allocation/retention priority octet encodes each priority level defined in 23.107 as the binary value of the priority level. Octets 5 – n are coded according to 3G TS 24.008 Quality of Service IE, octets 3 - ~~1320~~. If a pre-Release '99 only capable terminal is served, octets 5 - n are coded according to the GSM TS 04.08 Quality of Service IE, octets 3 - 5. The minimum length of the QoS profile Data field(i.e. octets 5 – n) is 3 octets; the maximum length may be up to 254 octets.

The allocation/retention priority shall be ignored if the QoS profile is pre-Release '99 or the QoS profile is present in Quality of Service Requested (QoS Req) of the PDP context. A receiving end shall interpret the QoS profile Data field to be coded according to GSM TS 04.08 (i.e. according to the pre-Release '99 format) if the Length field value is 4.

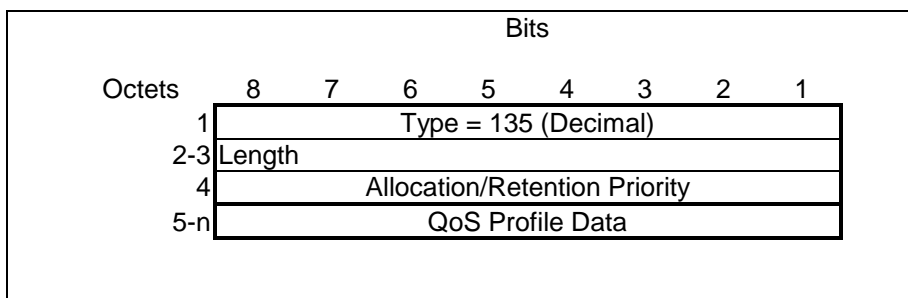


Figure 38: Quality of Service (QoS) Profile information element