3GPP TSG-CN Meeting #26 **NP-040560**
8th – 10th December 2004. Athens, Greece.

Source:	**TSG CN WG3**
Title:	**CRs to Rel-6 on Work Item "TEI-6"(Pack3)**
Agenda item:	**9.21**
Document for:	**APPROVAL**

Introduction:

This document contains 2 CRs to Rel-6 on Work Item "TEI-6"(Pack3) that have been agreed by TSG CN WG3, and are forwarded to TSG CN Plenary for approval.

WG_tdoc	Spec	CR	R	Cat	Title	Rel	C_Ver	Work Item
N3-040863	29.207	138	2	F	SBLP and non-realtime PDP Contexts	Rel-6	6.1.0	TEI6
N3-040894	29.207	142	3	F	QoS procedure at session release	Rel-6	6.1.0	TEI-6

3GPP TSG-CN WG3 Meeting #34 **Tdoc N3-040863**
Seoul, Korea, 15 – 20 November 2004.

CR-Form-v7.1

CHANGE REQUEST

⌘ **29.207** **CR** **138** ⌘ **rev** **2** ⌘ Current version: **6.1.0** ⌘

*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 ☒

Title:	⌘	SBLP and non-realtime PDP Contexts
Source:	⌘	Nokia
Work item code:	⌘	TEI6
Date:	⌘	1/11/2004
Category:	⌘	**F**
Release:	⌘	Rel-6

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.

Use one of the following releases:

Ph2	*(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)*
Rel-7	*(Release 7)*

Reason for change:	⌘	TSG-SA2 has in stage 2 specifications relaxed SBLP use. The 23.207 is modified so that "If SBLP is implemented in the operator's network, the GGSN shall nonetheless allow the activation/modification of at least one non-realtime PDP context per UE IP address and per APN (PDP Context with UMTS Traffic class "background" or "interactive") without a Media Authorization Token." SA2 have already agreed the corresponding CRs 23.207 CR 084r1 and 23.228 CR 445r1 and they liaised to CN3 in S2-042948 and S2-042950, requesting that CN3 makes the corresponding changes to our specifications.
Summary of change:	⌘	It is proposed to align this specification so that GGSN allows the establishment of a non-realtime PDP Context without an Authorization Token.
Consequences if not approved:	⌘	SBLP handling for NRT PDP context is inconsistent in related stage 3 specification.

Clauses affected:	⌘	4.3.1.5			
Other specs affected:	⌘	Y: X Y: Y: N: N: X N: X	Other core specifications Test specifications O&M Specifications	⌘	24.229
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.

4.3.1.5 Binding mechanism handling

The binding information is used by the GGSN to identify the correct PDF and subsequently request service-based local policy information from the PDF. The binding information associates a PDP context with one or more media components or IP flows of an AF session. The GGSN may receive one or more sets of the binding information during an activation or modification of a secondary PDP context. Each set of binding information consists of an authorisation token and the flow identifier(s) related to the IP flow(s) within the same session

The GGSN shall store the binding information and apply it to correlate events and actions between the PDP context and the service-based local policy.

The GGSN shall determine the IP address of the PDF from the PDF identifier received as part of the Authorization Token. This identifier shall be in the format of a fully qualified domain name. If the GGSN receives multiple sets of binding information in the secondary PDP context activation, the GGSN shall search for the first Authorization Token containing the PDF identifier (Authorization Token is of type AUTH_SESSION and contains AUTH_END _ID) and use that to identify the correct PDF. If none of the tokens included in the binding information are of type AUTH_SESSION, or they do not contain an AUTH_ENT_ID attribute to resolve the PDF address, then the GGSN shall reject the secondary PDP context activation request. The reason for the rejection is indicated to the UE with the error code value "Invalid binding information" (see annex D).

The GGSN shall forward the binding information received from the UE to the PDF. If multiple sets of binding information are received by the GGSN, it shall forward them to the PDF.

If the binding information is successfully modified using the PDP context modification procedure, the GGSN shall replace the old binding information with the new binding information.

When the GGSN receives a secondary PDP context activation request to an APN for which the Go interface is enabled and no binding information is received, the GGSN may either reject the secondary PDP context activation request, or accept it within the limit imposed by a locally stored QoS policy. This local QoS policy shall be operator configurable within the GGSN. If the request is rejected, the reason for the rejection is indicated to the UE with the error code value "Missing binding information" (see annex D). If the requested PDP context is non-realtime (UMTS Traffic class “background” or “interactive”) and such a PDP context is not yet assigned for the UE for the same APN, then the GGSN shall accept the secondary PDP context activation request without binding information and SBLP authorization. If such a PDP context is already assigned, then the GGSN may accept the secondary PDP context request according to operator policy.

When the GGSN receives a PDP context modification request for a secondary PDP context to an APN for which the Go interface is enabled, and no binding information is received (e.g. due to a SGSN initiated PDP context modification of maximum bitrate to 0 kbit/s), the GGSN shall accept the PDP context modification if binding information has been previously provided for the PDP context. SBLP still applies for this PDP context. If a request for service-based local policy information from the PDF is necessary, the GGSN shall use the stored binding information of this PDP context.

If no binding information has previously been received, the GGSN may either reject the PDP context modification request, or accept it within the limit imposed by a locally stored QoS policy. This local QoS policy shall be operator configurable within the GGSN. If the request is rejected, the reason for the rejection is indicated to the UE with the error code value "Missing binding information" (see annex D). If the modified PDP context is non-realtime (UMTS Traffic class “background” or “interactive”), then the GGSN shall accept the secondary PDP context modification request without binding information and SBLP authorization.

When binding information is received, the GGSN shall ignore any UE supplied TFT, and filters in that TFT shall not be installed in the packet processing table.

The GGSN shall reject a secondary PDP context activation or PDP context modification request with the error code "Binding information not allowed" (see annex D) in the following cases:

- The Go interface is disabled and the GGSN receives a Create PDP Context Request or Update PDP Context Request message that includes binding information.

- The GGSN receives a Create PDP Context Request or Update PDP Context Request message that includes both binding information and the IM CN Subsystem Signalling Flag.
- The GGSN receives an Update PDP Context Request message that includes binding information to modify a previously non-authorized PDP context.

3GPP TSG–CN3 Meeting #34
Seoul, Korea, 15th to 19th November 2004

***Tdoc* ⌘N3-040894**

CR-Form-v7

CHANGE REQUEST

⌘ **29.207** **CR** **142** ⌘**rev** **3** ⌘ Current version: **6.1.0** ⌘

*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 ☒

Title:	⌘	QoS procedure at session release
Source:	⌘	Orange
Work item code:	⌘	TEI-6
Date:	⌘	19/11/2004
Category:	⌘	**F**
Release:	⌘	REL-6

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.

Use one 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)*

Reason for change: ⌘

At session release,

- "Removal of QoS commit" is triggered when the PDP context(s) involved in the session contain other IP flow(s) than those relative to the released session.
- "Revoke authorization for GPRS and IP resources" is triggered when the PDP context(s) involved in the session only contain IP flow(s) relative to the released session.

"Revoke authorization for GPRS and IP resources" should be used for both cases, so that the resources involved in the closed session can be released.

Summary of change: ⌘

In section 5.2.1.3 about the revoke decision at the PDF, the decision shall be sent upon release of an AF session whatever the client handle/PDP context contains other sessions or not.

The timer for a pending session release shall be terminated if the PDF receives an indication on the deactivation (If there are no more media streams in a PDP context, the UE will remove this PDP) or new authorisation request with the same handle where the IP flow(s) of the released AF session have been removed (If at least one media stream is still present in the PDP context, the UE will modify this PDPcontext) of each of the PDP context related to the released session.

Consequences if not approved:	⌘	GPRS and IP resources can not be modified if the PDP context(s) used in the released session contain other session(s).

Clauses affected:	⌘	5.2.1.3			
Other specs affected:	⌘	Y / N N N N	Other core specifications Test specifications O&M Specifications	⌘	TS 29.208
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 co

*** FIRST MODIFICATION ***

5.2.1.3 SBLP revoke decision

Upon release of ~~the only or the last~~ an AF session of a given client handle (PDP context) the PDF shall send a revoke authorisation decision to the GGSN after an operator specific time. The revoke authorisation decision shall be sent for each handle (PDP context) related to the session as a separate decision to the GGSN corresponding to the previous SBLP authorisation decision.

The timer for a pending session release shall be terminated if the PDF receives an indication on the deactivation (If there are no more media streams in a PDP context, the UE will remove this PDP) or new authorisation request with the same handle where the IP flow(s) of the released AF session have been removed (If at least one media stream is still present in the PDP context, the UE will modify this PDPcontext) of each of the PDP contexts related to the released session.

Additionally, when a media component which is bound to a PDP context is removed from an AF session and the UE has not performed the corresponding modification or deactivation of the PDP context within an operator specific time the PDF shall revoke the authorisation for the set of IP flows of the media components on that PDP context.

The timer for a pending media component removal shall be terminated if the PDF receives either a new authorisation request with the same handle where the IP flows of that media component has been removed, or an indication of the termination of the PDP context.

NOTE: The values of the timers for session termination and media component removal might be different, e.g. to allow for some more time for the required modification of the PDP context.

If the PDF receives a request from a GGSN for the same authorisation token and flow identifier(s) that this (or another) GGSN was already communicated authorisation, then the previous authorisation shall be revoked, and this revocation shall be communicated to the GGSN.

*** END OF MODIFICATION ***