NP-040131

3GPP TSG-CN Meeting #23 10th - 12th March 2004, Phoenix, USA

Source:3GPP TSG CN2Title:CRs for Rel-6 WI TEI6Agenda item:7.1Document for:APPROVAL

This document contains following CRs that are approved by CN2 and are forwarded to TSG CN#23 for approval:

TDoc #	WI	Rel	Title	Spec	CR #	Cat	Re	Versio
N2-040159	TEI6	Rel-6	GPRS ODB reporting to CAMEL SCP	23.078	686	F	1	6.0.0

3GPP TSG CN WG2 Meeting #32 Atlanta, USA, 16th – 20st Feb 2004

CHANGE REQUEST										
æ	23.078 CR 686 #rev 1 [#]	Current version: 6.0.0 [#]								
For HELP on using this form, see bottom of this page or look at the pop-up text over the # symbols.										
Proposed chang	e affects: UICC apps ೫ ME Radio Ac	cess Network Core Network X								
Title:	GPRS ODB reporting to CAMEL SCP									
Source:	f Nokia									
Work item code:	€ TEI6	Date:								
Category:	 F Use <u>one</u> 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 <u>TR 21.900</u>. 	Release: # Rel-6 Use <u>one</u> 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: ೫	It is not specified what happens in various cases when a PDP context is			
_	disconnected due to Operator Determined Barring (ODB)			
Summary of change: ೫	The gprsSSF is modelled to have an ODB input. If there is no relationship for the PDP context then nothing is sent to SCP. If there is a monitoring or controlling relationship then ACR-GPRS is sent, FCI record is closed, EntityReleasedGPR is sent and all EDPs for the PDPid are disarmed.			
Consequences if 🛛 🕱	Possible inter-operability problems. The gsmSCF resources are kept reserved			
not approved:	unnecessarily, even for hours.			
not appiorea.				
Clauses affected: #	6.5.3.9			
Clauses allected.	0.3.3.9			
Other specs ж affected:	YNXOther core specifications#XTest specifications#XO&M Specifications•			
Other comments: अ	 In WFI state ODB input may occur only when Scenario 1 is in use, and another PDPid is in a point in accosiation (not in a DP). Tssf timer is not set. This is in line with PDB disconnection case when EDP is not armed. 			

-- For Information --

6.4.3.1 Description of the PDP Context model (PIAs)

This subclause describes the model for PDP Context State Model in the SGSN. For each PIA a description can be found of the entry events, actions and exit events.

6.4.3.1.1 Idle

Entry events:

- Deactivation (user or network initiated) and clearing of a previous PDP Context.
- Processing of exceptional conditions.

Actions:

- Interface is idled.
- Activate PDP Context request is received from MS (containing NSAPI, PDP Type, PDP Address, Access Point Name, QoS Requested, PDP Configuration Options), or Inter-SGSN Routeing Area Update is accepted (DP Change of Position Context).
- Information being analyzed, e.g. GPRS-CSI is analyzed.

Exit events:

- GPRS-CSI is analyzed (DP PDP Context Establishment or DP Change of Position Context, new SGSN).

6.4.3.1.2 PDP Context Setup

Entry events:

- GPRS-CSI is analyzed (DP PDP Context Establishment).

Actions:

- APN and GGSN selection procedure is performed for a primary PDP context as specified in Annex A of 3GPP TS 23.060 [15]. APN and GGSN selection procedure is not performed for a secondary PDP context.
- Access Point Name is verified against the subscription. If the gsmSCF has provided an Access Point Name then the Access Point Name provided by the gsmSCF is checked against the subscription. For details refer to 3GPP TS 23.060 [15] Annex A.
- The operator determined barring category "Barring of all Packet Oriented Services " is checked and invoked if necessary.
- The operator determined barring category "Barring of Packet Oriented Services from access points that are within the HPLMN whilst the subscriber is roaming in a VPLMN" is checked and invoked if necessary.
- The operator determined barring category "Barring of Packet Oriented Services from access points that are within the roamed to VPLMN" is checked and invoked if necessary.
- The SGSN ensures that an already active PDP context is not reactivated.
- GGSN address is derived from the Access Point Name by interrogation of a DNS. The Access Point Name consists of a Network Identifier and an Operator Identifier.
- Create PDP Context Request is sent to the GGSN.

Exit events:

- Create PDP Context Response is received from the GGSN (DP PDP Context Establishment Acknowledgement).
- An exception is encountered.

6.4.3.1.3 PDP Context Established

Entry events:

- GPRS-CSI is analyzed (DP PDP Context Establishment Acknowledgement or DP Change of Position Context).

Actions:

- PDP context is established at the MS and the SGSN.

Exit events:

- Deactivation of the PDP Context is received from the MS or the GGSN, or is due to an inter SGSN routing area update (DP PDP Context Disconnection, old SGSN).
- Intra-SGSN Routeing Area Update Request is received from the MS (DP Change of Position Context).
- Inter-SGSN Routeing Area Update (DP Change of Position Context, new SGSN).
- An exception is encountered.

-- First modified section --

6.5.3.9 SDL diagrams for process GPRS_SSF and procedures

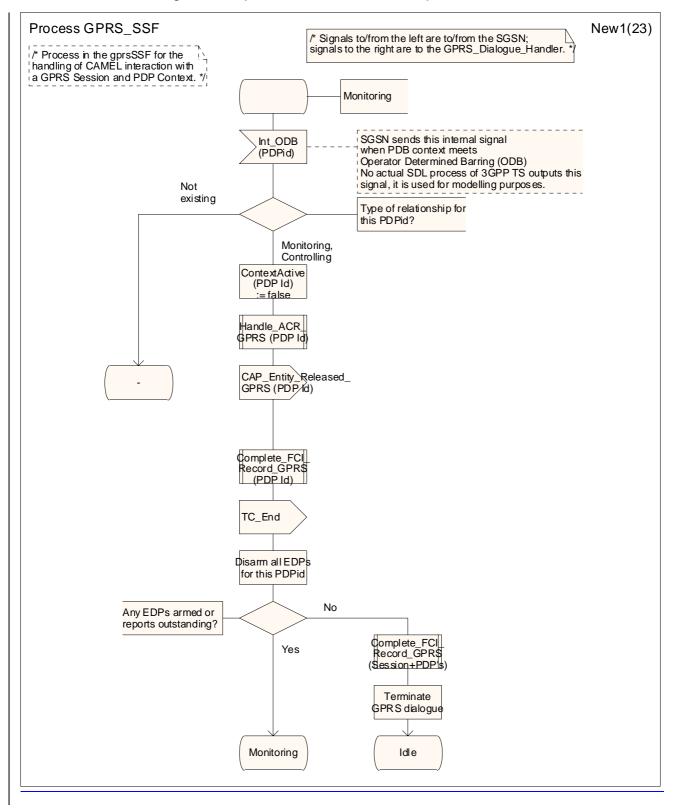


Figure 6.17-x: Process GPRS_SSF (sheet x)

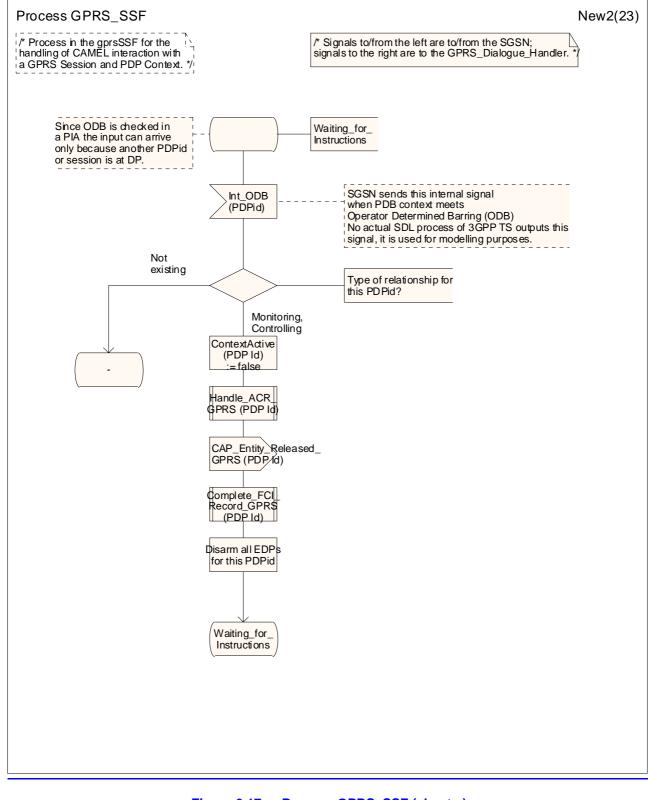


Figure 6.17-y: Process GPRS_SSF (sheet y)