

**3GPP TSG CN Plenary
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001**

Tdoc NP-010089

Source: TSG CN WG4
Title: Work Item Description for Release 4: ODB (Operator Determined Barring) for Packet Oriented Services
Agenda item: 8.16
Document for: APPROVAL

This contribution proposes the Work Item Description on ODB for Packet Oriented Services.

This WID has been once proposed from NEC at the TSG-CN Plenary #10 in December 2000. The needs of this WID have been recognised during the CN plenary #10 meeting and therefore, the CN Plenary has endorsed this WID to proceed its work in the CN working group level as the result.

Work Item Description

ODB (Operator Determined Barring) for Packet Oriented Services (CN)

1 3GPP Work Area

	Radio Access
X	Core Network
X	Services

2 Linked work items

None

3 Justification

As stated in the current ODB stage1 specification, the purpose of ODB feature is to be able to limit the service provider's financial exposure to new subscribers, or to those who have not promptly paid their bills.

In order to fulfil this purpose, this network feature has to be effective for both CS domain and PS domain. Currently in release 99, the ODB feature works only for CS domain.

4 Objective

Packet Oriented Services, particularly data services, are different in nature to Circuit Oriented Services, and therefore have different requirements for Operator Determined Barring. Currently there is no requirements described in the ODB stage 1 specification for Packet Oriented Services.

5 Service Aspects

As described in the following categories, the Service Provider may at any time activate this feature and this shall terminate any relevant services in progress, and bar future requests for service covered by the barring category:

- It shall be possible to bar subscribers completely from the Packet Oriented Services.
- It shall be possible to bar a subscriber from requesting Packet Oriented Services from access points that are within the HPLMN whilst the subscriber is roaming in a VPLMN.
- It shall be possible to bar a subscriber from requesting Packet Oriented Services from access points that are within the roamed to VPLMN.

The term 'access point' is used to indicate the GGSN or part of the GGSN that is specified by a particular APN.

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes				X	
No	X	X	X		X
Don't know					

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
None						Ability of the core network to transport a list of transcoders via the BICC protocol from the originating to the terminating node. Ability of an intermediate node to reduce the number of transcoders in the list for speech calls.
Affected existing specifications						
Spec No.	CR	Subject			Approve d at plenary#	Comments
23.015 (ODB stage 2)		<ul style="list-style-type: none"> • ODB function needs to be applied for the Packet oriented services as well as CS domain services. • Barring categories for Packet oriented services needs to be introduced. 			TSG CN#11	
23.008 (org. of sub. Data)		<ul style="list-style-type: none"> • The ODB-induced barring data for the packet-oriented services needs to be introduced. 			TSG CN#11	
23.016 (sub. data stage 2)		<ul style="list-style-type: none"> • Barring category for GPRS services needs to be introduced. 			TSG CN#11	
29.002 (MAP)		<ul style="list-style-type: none"> • New IEs, "GPRS Operator Determined Barring General Data", "GPRS Subscriber status" are introduced. • New IEs can be carried by the MAP-INSERT-SUBSCRIBER-DATA service as the optional IE. • Update relevant descriptions in 29.002. (Ex. ASN.1, etc.) 			TSG CN#11	
24.008		<ul style="list-style-type: none"> • Add new cause value for 'ODB for the Packet Oriented Services' 			TSG CN#11	

11 Work item rapporteurs

NEC, Toshiyuki Tamura ([tamurato@nsf.ncos.nec.co.jp](mailto:tamura@nsf.ncos.nec.co.jp))

12 Work item leadership

TSG-CN4

13 Supporting Companies

NTT DoCoMo, NTT Comware, NEC, Fujitsu, NTC and Vodafone

14 Classification of the WI (if known)

	Feature (go to 14a)
	Building Block (go to 14b)
X	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

14b The WI is a Building Block: parent Feature

14c The WI is a Work Task: parent Building Block

ODB (Operator Determined Barring) for Packet Oriented Services (CN)