Technical Specification Group Services and System Aspects
Meeting #12, Stockholm, Sweden, 18-21 June 2001

TSGS#12(01)0235

Source: **SA5**

Title: **R99 CRs to Telecommunications Management; Charging and billing; 3G call and event data for the Packet Switched (PS) domain (32.015)**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc-1st-Level	Doc-2nd-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Version-New	Workitem
SP-010325	S5-010222	32.015	026		R99	**Correct the Node Address IE**	F	3.5.0	3.6.0	OAM-CH
SP-010325	S5-010223	32.015	027		R99	**Correct GGSN address in G-CDR and S-CDR**	F	3.5.0	3.6.0	OAM-CH

3GPP TSG- SA5 Meeting #19
Los Angeles, USA, 2 – 6 April 2001

S5-010222
S5B010046

CR-Form-v3

CHANGE REQUEST

⌘ **32.015** **CR** **026** ⌘ rev **-** ⌘ Current version: **3.5.0** ⌘

*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 **X**

Title:	⌘	**Correct the Node Address IE**
Source:	⌘	**SA5**
Work item code:	⌘	OAM-CH
Date:	⌘	**06/04/2001**
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
- ***F*** *(essential 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)*

Reason for change:	⌘	Ambiguos specification of the type and value of the Node Address IE. 32.015 does not assign a type number to the Node Address IE. Clause 7.3.4.1 states: "The Node Address format is the same as for the Charging Gateway Address format described in [CN4's] TS 29.060." However, to say that the **format is the same** is not necessarily to say that the **type value is the same**.
Summary of change:	⌘	Correct the specification of the Node Address IE in clause 7.3.4.1 in by explicitly stating that both the **format** and the **type** are the same.
Consequences if not approved:	⌘	Ambiguos specification

Clauses affected:	⌘	7.3.4.1		
Other specs Affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

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7.3.4.1 Node Alive Request

The Node Alive Request message may be used to inform that a node in the network has started its service (e.g. after a service break due to software or hardware maintenance or data service interruption after an error condition). A node may send a different Node Address than its own in the Information Element, e.g. informing the "next node in the chain" that the "previous node in the chain" (which is located on the other side of the sender of this message) is now ready for service. This message type is optional if the Path Protocol is TCP.

The Node Alive Request message allows a quicker reconnect capability than the Echo Request message based polling can provide, and its usage will have a reduced load effect on the network, particularly when the number of network nodes using GTP' is high. It may also be used to inform when a new network node has become available for service. If the Echo Request message is also used then the usage of the Node Alive Request message allows the interval of Echo Requests to be longer than would be otherwise required, thus reducing network loading with many Echo Requests.

Table 12: Information Elements in a Node Alive Request

Information Element	Presence requirement
Node Address	Mandatory
Private Extension	Optional

The Node Address format and type number ~~is~~ are the same as for the Charging Gateway Address format and type described in 3GPP TS 29.060 [22]).

3GPP TSG-SA5 (Telecom Management)
Meeting #19, Los Angeles, CA, USA, 2-6 April 2001

S5-010223
S5B010062

CR-Form-v3

CHANGE REQUEST

⌘ **32.015** **CR** **027** ⌘ rev **-** ⌘ Current version: **3.5.0** ⌘

*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 **X**

Title:	⌘	**Correct GGSN address in G-CDR and S-CDR**
Source:	⌘	SA5
Work item code:	⌘	OAM-CH
Date:	⌘	06/04/2001
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
- ***F*** *(essential correction)*
- ***A*** *(corresponds to a correction in an earlier release)*
- ***B*** *(Addition of feature),*
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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)*

Reason for change:	⌘	TS 29.060 specifies two GGSN IP addresses: one for Control Plane and the other for User traffic. In the current version of 32.015 it is not clear which of these IP addresses shall be used in G-CDR and S-CDR. If G-CDR and S-CDR use a different IP address for the same PDP context, the Billing system can not associate CDRs from different GSN nodes to the same PDP context.
Summary of change:	⌘	Specify the "**GGSN address for control plane**" as the GGSN address in both G-CDR and S-CDR.
Consequences if not approved:	⌘	Severe billing errors may occur, as the Billing System can not associate CDRs from different GSN nodes to the same PDP context.

Clauses affected:	⌘	6.1.6.12
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

6.1.6.12 GGSN Address/GGSN Address Used

These fields are the current serving GGSN IP address for the control plane. ~~contain one IP address of GGSN.~~

~~The S-CDR fields contain a single address of current GGSN used.~~

~~The G-CDR fields contain an address of current GGSN.~~