Technical Specification Group Services and System Aspects
Meeting #10, Bangkok, Thailand, 11-14 December 2000

TSGS#9(00) 0537

Source: **TSG SA1**

Title: **CRs to 22.078 on Introduction of GGSN Address (R99)**

Document for: **Approval**

Agenda Item: **7.1.3**

Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	SA1 Doc. No.
22.078	065		R99	F	Introduction of GGSN Address	3.5.0	3.6.0	S1-000855
22.078	066		R4	A	Introduction of GGSN Address	4.0.0	4.1.0	S1-000856
22.078	067		R5	A	Introduction of GGSN Address	5.0.0	5.1.0	S1-000857

3GPP TSG-CN WG 2 Meeting #15 ***Tdoc N2-000648***
Paris, France, 13 – 17 November 2000

CR-Form-v3

CHANGE REQUEST

22.078	CR	065	rev	-	Current version:	3.5.0

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Proposed change affects: ✍ (U)SIM ☐ ME/UE ☐ Radio Access Network ☐ Core Network ☒

Title: ✍	Introduction of GGSN Address	
Source: ✍	SA1	
Work item code: ✍	CAMEL3	***Date:*** ✍ 17-Nov-00
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: ✍	The Charging ID is only unique together with the Address of the corresponding GGSN. At certain events only the charging ID is reported to the CSE, but not the GGSN Address.
Summary of change: ✍	The GGSN Address is introduced for Inter Change Of Position PDP Context and PDP Context Establishment Acknowledge.
Consequences if not approved: ✍	The gsmSCF can not uniquely identify a PDP context by its charging ID. Correlation of PDP contexts with its corresponding CDRs is not possible. ✍

Clauses affected: ✍	Annex A3			
Other specs affected: ✍	☒	Other core specifications	✍	23.078, 29.078, 29.002
	☐	Test specifications		
	☐	O&M Specifications		
Other comments: ✍				

A.3 GPRS Information provided to the CSE

Table A-3 shows the information that shall be reported to the CSE on various GPRS events. The numbers reflect the applicable CAMEL phase (3).

	Attach	PDP Context Establishment (Initial Service Event)	PDP Context Establishment (Subsequent Service Event)	PDP Context Establishment Ack (Initial Service Event)	PDP Context Establishment Ack (Subsequent Service Event – PDP Context relationship)	PDP Context Establishment Ack (Subsequent Service Event – GPRS Session Relationship I) – **note 1**	PDP Context Establishment Ack (Subsequent Service Event – GPRS Session relationship II) – **note 2**
Event met	3	3	3	3	3	3	3
Type of monitoring	-	-	3	-	3	3	3
MSISDN	3	3	-	3	-	-	-
IMSI	3	3	-	3	-	-	-
Service Key	3	3	-	3	-	-	-
Location information, at least to the resolution of Routing Area of the attaching subscriber	3	3	3	3	-	3	-
Time stamp information	3	3	3	3	-	3	-
Time zone information	3	3	3	3	-	3	-
GPRS MS Class (**note 3**)	3	3	-	3	-	-	-
PDP transport protocol, i.e. IP or X.25	-	3	3	3	-	3	-
Quality of Service (requested)	-	3	3	3	-	3	-
Quality of Service (subscribed)	-	3	3	3	-	3	-
Quality of Service (negotiated)	-	-	-	3	3	3	3
Destination address information	-	3	3	3	-	3	-
GPRS charging ID	-	-	-	3	3	3	3
GGSN Address	-	-	-	3	3	3	3

Table A-3: GPRS Information transferred towards the CSE

Note 1: PDP Context Establishment Ack (Subsequent Service Event – GPRS Session relationship I): The PDP Context Establishment event for this PDP Context has not been reported.

Note 2: PDP Context Establishment Ack (Subsequent Service Event – GPRS Session relationship II): The PDP Context Establishment event for this PDP Context has been reported.

Note 3: GPRS MS Class: Subparameter MS RadioAccessCapability is not supported in UMTS Network.

Table A-4 shows the information that shall be reported to the CSE on the Change of Position events. The numbers reflect the applicable CAMEL phase (3).

Table A-4: GPRS Information reported to the CSE

	Intra Change of Position PDP Context, (Subsequent Service Event)	Intra Change of Position Session (Subsequent Service Event)	Inter Change of Position PDP Context, (Initial Service Event)	Inter Change of Position Session (Initial Service Event)
Event met	3	3	3	3
Type of monitoring	3	3	-	-
MSISDN	-	-	3	3
IMSI	-	-	3	3
Service Key	-	-	3	3
Location information, at least to the resolution of Routing Area of the attached subscriber	3	3	3	3
Time stamp information	-	-	3	3
Time zone information	-	-	3	3
GPRS MS Class (**note 1**)	-	-	3	3
PDP transport protocol, i.e. IP or X.25	-	-	3	-
Quality of Service (requested)	-	-	3	-
Quality of Service (subscribed)	-	-	3	-
Quality of Service (negotiated)	-	-	3	-
Destination address information	-	-	3	-
GPRS Charging ID	-	-	3	-
GGSN Address	-	-	3	-

Note 1: GPRS MS Class: Subparameter MS RadioAccessCapability is not supported in UMTS Network.

TSG-SA WG 1 (Services) meeting #10
Orlando, USA 13th to 17th November 2000

TSG S1 (00) 856
Agenda Item:

3GPP TSG-CN WG 2 Meeting #15
Paris, France, 13 – 17 November 2000

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CHANGE REQUEST

✍	22.078	CR	066	✍	rev	-	✍	Current version:	4.0.0	✍

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Proposed change affects: ✍ (U)SIM ☐ ME/UE ☐ Radio Access Network ☐ Core Network ☒

Title: ✍	Introduction of GGSN Address	
Source: ✍	SA1	
Work item code: ✍	CAMEL3	***Date:*** ✍ 17-Nov-00
Category: ✍	**A**	***Release:*** ✍ REL-4

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)*
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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: ✍	The Charging ID is only unique together with the Address of the corresponding GGSN. At certain events only the charging ID is reported to the CSE, but not the GGSN Address.
Summary of change: ✍	The GGSN Address is introduced for Inter Change Of Position PDP Context and PDP Context Establishment Acknowledge.
Consequences if not approved: ✍	The gsmSCF can not uniquely identify a PDP context by its charging ID. Correlation of PDP contexts with its corresponding CDRs is not possible. ✍

Clauses affected: ✍	Annex A3			
Other specs affected: ✍	☒	Other core specifications	✍	23.078, 29.078, 29.002
	☐	Test specifications		
	☐	O&M Specifications		
Other comments: ✍				

A.3 GPRS Information provided to the CSE

Table A-3 shows the information that shall be reported to the CSE on various GPRS events. The numbers reflect the applicable CAMEL phase (3).

	Attach	PDP Context Establishment (Initial Service Event)	PDP Context Establishment (Subsequent Service Event)	PDP Context Establishment Ack (Initial Service Event)	PDP Context Establishment Ack (Subsequent Service Event – PDP Context relationship)	PDP Context Establishment Ack (Subsequent Service Event – GPRS Session Relationship I) – **note 1**	PDP Context Establishment Ack (Subsequent Service Event – GPRS Session relationship II) – **note 2**
Event met	3	3	3	3	3	3	3
Type of monitoring	-	-	3	-	3	3	3
MSISDN	3	3	-	3	-	-	-
IMSI	3	3	-	3	-	-	-
Service Key	3	3	-	3	-	-	-
Location information, at least to the resolution of Routing Area of the attaching subscriber	3	3	3	3	-	3	-
Time stamp information	3	3	3	3	-	3	-
Time zone information	3	3	3	3	-	3	-
GPRS MS Class (**note 3**)	3	3	-	3	-	-	-
PDP transport protocol, i.e. IP or X.25	-	3	3	3	-	3	-
Quality of Service (requested)	-	3	3	3	-	3	-
Quality of Service (subscribed)	-	3	3	3	-	3	-
Quality of Service (negotiated)	-	-	-	3	3	3	3
Destination address information	-	3	3	3	-	3	-
GPRS charging ID	-	-	-	3	3	3	3
GGSN Address	-	-	-	3	3	3	3

Table A-3: GPRS Information transferred towards the CSE

Note 1: PDP Context Establishment Ack (Subsequent Service Event – GPRS Session relationship I): The PDP Context Establishment event for this PDP Context has not been reported.

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Table A-4 shows the information that shall be reported to the CSE on the Change of Position events. The numbers reflect the applicable CAMEL phase (3).

Table A-4: GPRS Information reported to the CSE

	Intra Change of Position PDP Context, (Subsequent Service Event)	Intra Change of Position Session (Subsequent Service Event)	Inter Change of Position PDP Context, (Initial Service Event)	Inter Change of Position Session (Initial Service Event)
Event met	3	3	3	3
Type of monitoring	3	3	-	-
MSISDN	-	-	3	3
IMSI	-	-	3	3
Service Key	-	-	3	3
Location information, at least to the resolution of Routing Area of the attached subscriber	3	3	3	3
Time stamp information	-	-	3	3
Time zone information	-	-	3	3
GPRS MS Class (**note 1**)	-	-	3	3
PDP transport protocol, i.e. IP or X.25	-	-	3	-
Quality of Service (requested)	-	-	3	-
Quality of Service (subscribed)	-	-	3	-
Quality of Service (negotiated)	-	-	3	-
Destination address information	-	-	3	-
GPRS Charging ID	-	-	3	-
GGSN Address	-	-	3	3

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3GPP TSG-SA WG 1 Meeting #10
Orlando, USA, 13 – 17 November 2000

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CHANGE REQUEST

✍	22.078	CR	067	✍	rev	-	✍	Current version:	5.0.0	✍

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Title: ✍	Introduction of GGSN Address	
Source: ✍	SA1	
Work item code: ✍	CAMEL3	***Date:*** ✍ 17-Nov-00
Category: ✍	**F**	***Release:*** ✍ **REL-5**

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Clauses affected: ✍	Annex A3		
Other specs affected: ✍	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	✍	23.078, 29.078, 29.002
Other comments: ✍			

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Event met	3	3	3	3	3	3	3
Type of monitoring	-	-	3	-	3	3	3
MSISDN	3	3	-	3	-	-	-
IMSI	3	3	-	3	-	-	-
Service Key	3	3	-	3	-	-	-
Location information, at least to the resolution of Routing Area of the attaching subscriber	3	3	3	3	-	3	-
Time stamp information	3	3	3	3	-	3	-
Time zone information	3	3	3	3	-	3	-
GPRS MS Class (**note 3**)	3	3	-	3	-	-	-
PDP transport protocol, i.e. IP or X.25	-	3	3	3	-	3	-
Quality of Service (requested)	-	3	3	3	-	3	-
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Time zone information	-	-	3	3
GPRS MS Class (**note 1**)	-	-	3	3
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Quality of Service (requested)	-	-	3	-
Quality of Service (subscribed)	-	-	3	-
Quality of Service (negotiated)	-	-	3	-
Destination address information	-	-	3	-
GPRS Charging ID	-	-	3	-
GGSN Address	-	-	3	-

Note 1: GPRS MS Class: Subparameter MS RadioAccessCapability is not supported in UMTS Network.