TSGS#18(02)0739

Source: **SA5 (Telecom Management)**

Title: **3 Rel-5 CRs 32.225 (IMS Charging): various**

Document for: **Approval**

Agenda Item: **7.5.3**

Doc-1st-	Spec	CR	R	Phase	Subject	Cat	Version	Doc-2nd-	Workitem
SP-020739	32.225	001	-	Rel-5	Remove ambiguity of the CCF Session State	F	5.0.0	S5-024512	OAM-CH
SP-020739	32.225	002	-	Rel-5	Addition of Application Server (AS) acting as a Voice Mail Server	B	5.0.0	S5-024488	OAM-CH
SP-020739	32.225	003	-	Rel-5	Corrections of definitions and ambiguity	F	5.0.0	S5-024552	OAM-CH

CR-Form-v7

CHANGE REQUEST

| ⌘ | **32.225** CR **001** | ⌘**rev** | **-** | ⌘ | Current version: | **5.0.0** | ⌘ |

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 **X**

Title: ⌘	Remove ambiguity of the CCF Session State	
Source: ⌘	SA5	
Work item code: ⌘	OAM-CH	***Date:*** ⌘ 22/11/02

Category: ⌘ **F**	***Release:*** ⌘ *Rel-5*

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: ⌘	The session state of the CCF is not clear.
Summary of change: ⌘	To clarify in section 4.2.2.1 the stateless nature of the CCF.
Consequences if not approved: ⌘	Ambiguity and non-clarity of the session state of the CCF, resulting in potential billing problems.

Clauses affected: ⌘	4.2.2.1

	Y	N	
Other specs affected: ⌘		X	Other core specifications ⌘
		X	Test specifications
		X	O&M Specifications

Other comments: ⌘	

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Change in Clause 4.2.2.1

4.2.2.1   Offline Specific Base Protocol Requirements

In order to support the offline charging principles described in the present document, the Diameter client and server must implement at least the following Diameter options listed in [3]:

- To send/receive Abort-Session-Request.

- To send/receive Abort-Session-Answer.

All other options of the Diameter Base Protocol are beyond the scope of the present document.

If *Acct-Interim-Interval* AVP is not used or its value field is set to 0, the timer Ts should have a configurable default value.

For Offline Charging, the client implements the state machine described in [3]. The server (CCF) implements the STATELESS ACCOUNTING state machine as specified in [3], i.e. there is no order in which the server expects to receive the accounting information.

End of Change in Clause 4.2.2.1
End of Document

CR-Form-v7

CHANGE REQUEST

⌘   **32.225** CR **002**   ⌘**rev** **-** ⌘ Current version: **5.0.0** ⌘

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Proposed change affects: UICC apps⌘ ☐   ME ☐   Radio Access Network ☐   Core Network **X**

Title: ⌘	Addition of Application Server (AS) acting as a Voice Mail Server	
Source: ⌘	SA5	
Work item code:⌘	OAM-CH	***Date:*** ⌘ 11/10/2002
Category: ⌘ **B**		***Release:*** ⌘ *Rel-5*

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)
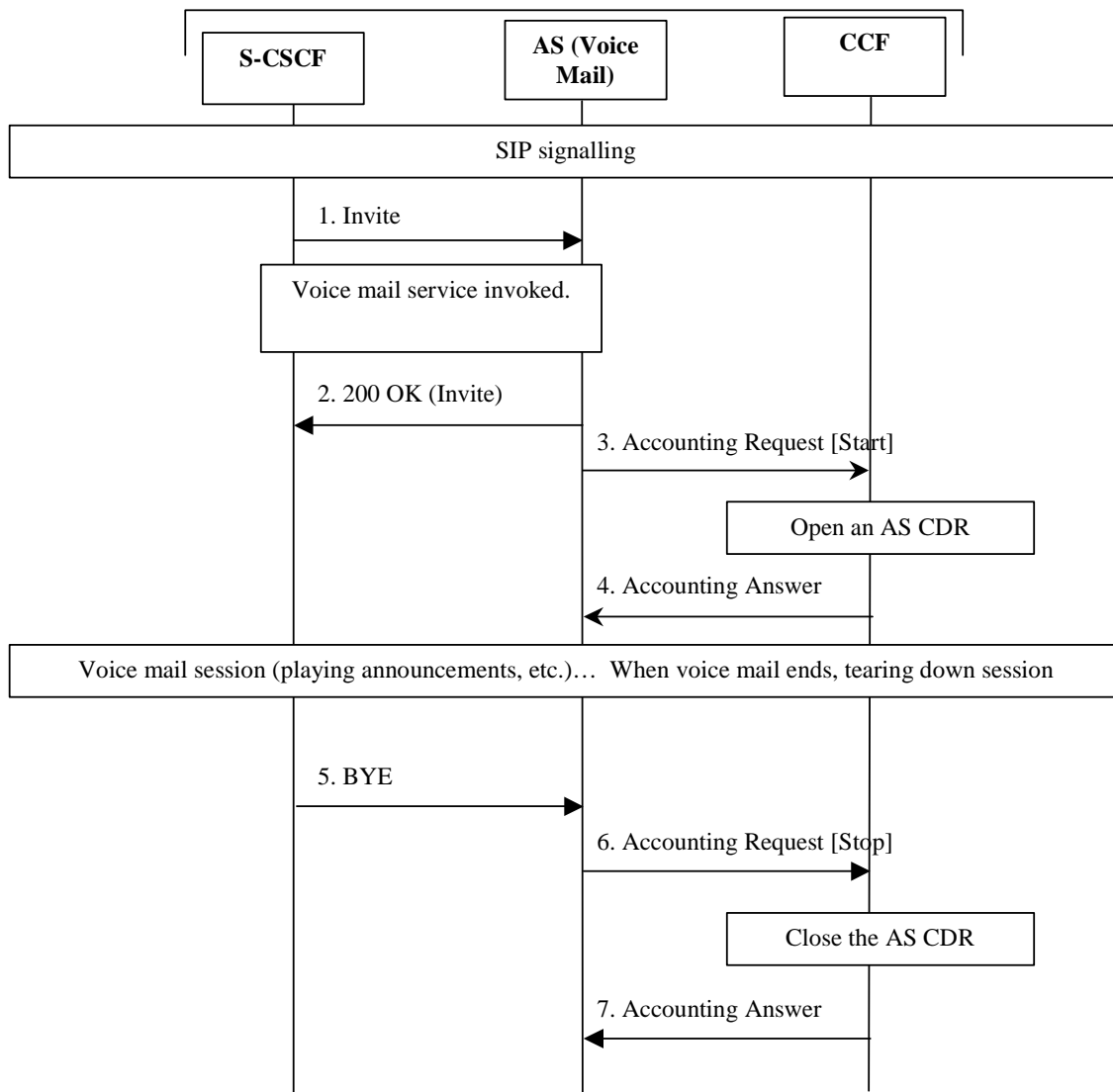   *Rel-5* (Release 5)
   Rel-6 (Release 6)

Reason for change: ⌘	The section "AS as a Voice Mail Server" is currently void.
Summary of change:⌘	The contribution proposes to add the details where an AS acts as a Voice Mail Server
Consequences if not approved: ⌘	No clear charging mechanism for the AS acting as a mail server.

Clauses affected: ⌘	5.1.2.1.5.2

		Y	N		
Other specs affected:	⌘		X	Other core specifications	⌘
			X	Test specifications	
			X	O&M Specifications	

Other comments: ⌘	

Change in Clause 5.1.2.1.5.2

5.1.2.1.5.2   AS Acting as a Voice Mail Server

Figure 5.13 shows the case where an Application Server acts as a Voice Mail Server. S-CSCF invokes the AS acting as Voice Mail Server according to procedure as defined in TS 23.218 [5].

Figure 5.13: Message Sequence Chart for AS Acting as a Mail Server

1.   AS receives the INVITE from the S-CSCF.
2.   AS acknowledges the initiated Voice Mail session by issuing a 200 OK in response to the INVITE.
3.   AS sends *Accounting-Request* with *Accounting-Record-Type* indicating START_RECORD to record start of a voice mail session.
4.   The CCF acknowledges the reception of the *Accounting-Request* with *Accounting-Record-Type* indicating START_RECORD and opens a AS CDR.
5.   Voice mail session release is initiated.

6. Upon reception of release message AS sends an *Accounting-Request* with *Accounting-Record-Type* indicating STOP_RECORD to record stop of a session in the AS CDR.
7. The CCF acknowledges the reception of the data and closes the AS CDR.

End of Change in Clause 5.1.2.1.5.2
End of Document

CHANGE REQUEST

⌘ **32.225** **CR** **003** ⌘**rev** **-** ⌘ Current version: **5.0.0** ⌘

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Proposed change affects: UICC apps⌘ ☐ ME ☐ Radio Access Network ☐ Core Network **X**

Title:	⌘	Corrections of definitions and ambiguity
Source:	⌘	SA5
Work item code:	⌘ OAM-CH	**Date:** ⌘ 22/11/2002
Category:	⌘ **F**	**Release:** ⌘ Rel-5

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:	⌘	Incorrectness of definitions and ambiguity of passages.
Summary of change:	⌘	1. On Re-transmission & Duplicate detection (Accounting Related) 2. Clarification of ACRs from different nodes 3. Clarification on the usage of Duplicate Detection 4. Clarification to CDR field Media Initiator 5. Clarification to CDR field Private User ID
Consequences if not approved:	⌘	Ambiguity and incorrectness in the Technical Specification.

Clauses affected:	⌘	5.1.2.2.3.3, 5.1.1, 6.1.2.2.2.3, 5.2.4.16, 5.2.4.19

	Y	N	
Other specs affected:	⌘		X	Other core specifications ⌘
		X	Test specifications
		X	O&M Specifications

Other comments:	⌘	

Change in Clause 5.1.2.2.3.3

5.1.2.2.3.3 Duplicate detection – (Accounting Related)

A Diameter client marks possible duplicate request messages (e.g., retransmission due to the link failover process) with the *Re-Transmission* AVP.

If the CCF receives a message that is marked as retransmitted and this message was already received, then it discards the duplicate message. However, If the original of the re-transmitted message was not yet received, ~~its~~ it's the information in the marked message is taken into account when generating the CDR. The CDRs are marked if information from duplicated message(s) is used. ~~with a retransmission flag if information from duplicated messages is used.~~

End of Change in Clause 5.1.2.2.3.3

Change in Clause 5.1.1

It is operator configurable in the nodes for which SIP method or ISUP messages an *Accounting Request* is sent, with the exception that if accounting information is collected for sessions the ACR [Start] and ACR [Stop] messages are mandatory according to the tables below. Table 5.1 describes all possible ACRs that might be sent from a P-CSCF, I-CSCF, S-CSCF, MGCF or BGCF. ~~However, not all options are required in all nodes, and a more node specific description of the ACRs is given in subclause 5.1.3.3.~~ A list of node specific ACRs, along with the AVPs to be included are detailed in section 5.1.3.3.

End of Change in Clause 5.1.1

Change in Clause 6.1.2.2.2.3

6.1.2.2.2.3   Duplicate Detection

For credit control ~~sessions the~~ duplicate detection is performed only for possible duplicate event requests related to IEC as mentioned in ~~section~~ subclause 6.1.2.1.2.3, ~~is not needed,~~ as retransmission of ECUR ~~session~~ related accounting request~~s~~ is not allowed.

End of Change in Clause 6.1.2.2.2.3

Change in Clause 5.2.4.16

5.2.4.16   Media Initiator Flag~~Address~~

~~Void.~~This field indicates if the called party has requested the session modification and it is present only if the initiator was the called party.

End of Change in Clause 5.2.4.16

Change in Clause 5.2.4.19

5.2.4.19   Private User ID (served party)

~~Void.~~This field identifies the served party's~~, which is either the calling or called party,~~ private User ID that is received in the *User-Name* AVP in the *Accounting Request* message. The served party could be either the calling or called party. ~~The used Network Access Identifier is according to the RFC2486 [6].~~

End of Change in Clause 5.2.4.19
End of Document