3GPP TSG CN Plenary Meeting #16   **NP-020236**
5th - 7th June 2002. Marco Island, USA.

Source:	**TSG CN WG 1**
Title:	**CRs to Rel-5 on Work Item IMS-CCR towards 24.229**
Agenda item:	**8.1**
Document for:	**APPROVAL**

<u>**Introduction:**</u>

This document contains **6** CRs on **Rel-5 on** Work Item **"IMS-CCR"**, that have been agreed by **TSG CN WG1**, and are forwarded to TSG CN Plenary meeting #16 for approval.

Spec	CR	Rev	Phase	Subject	Cat	Version Current	Version-New	Meeting-2nd-Level	Doc-2nd-Level
24.229	084	1	Rel-5	MRFC register addresses	F	5.0.0	5.1.0	N1-24	N1-021434
24.229	085	1	Rel-5	MRFC INVITE interface editor's notes	F	5.0.0	5.1.0	N1-24	N1-021470
24.229	086	1	Rel-5	MRFC OPTIONS interface editor's notes	F	5.0.0	5.1.0	N1-24	N1-021471
24.229	087		Rel-5	MRFC PRACK & INFO editor's notes	F	5.0.0	5.1.0	N1-24	N1-021159
24.229	088	1	Rel-5	MGCF OPTIONS interface editor's notes	F	5.0.0	5.1.0	N1-24	N1-021472
24.229	089		Rel-5	MGCF reINVITE editor's notes	F	5.0.0	5.1.0	N1-24	N1-021161

CR-Form-v5

CHANGE REQUEST

⌘	**24.229 CR 084**	⌘ **rev**	**1**	⌘	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: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network ☐ Core Network **X**

Title:	⌘	MRFC register addresses
Source:	⌘	Lucent Technologies
Work item code:	⌘ IMS-CCR	***Date:*** ⌘ May 6, 2002

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

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 TR 21.900.

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)*

Reason for change:	⌘	MRFC procedures in 24.229 currently do not comment on whether or not the MRFC needs to register its addresses with a SIP Registrar (i.e. S-CSCF). However, it could be implied that the MRFC must register because it is identified as regular UA in clause 4.1.
Summary of change:	⌘	Procedures are modified to indicate that ~~discovery of~~ the MRFC ~~may or may not register its~~ associated addresses ~~are outside the scope of 24.229~~.
Consequences if not approved:	⌘	The MRFC will have to register addresses as part of standard UA behavior. This is not appropriate in all cases.

Clauses affected:	⌘	5.8.1

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

Other comments:	⌘	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://ftp.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Start of changed text

5.8 Procedures at the MRFC

5.8.1 General

Although the MRFC is acting as a UA, it is outside the scope of this specification how the MRFC associated addresses are made known to other entities. ~~The MGCF, although acting as a UA, may or may not initiate registration of its associated addresses. If registration is not done, these addresses are assumed to be known by peer-to-peer arrangements within the IM CN subsystem and the dependencies of table 0.3/1 and table 0.3/2 shall not apply.~~

~~Void.~~

End of changed text

CR-Form-v5

CHANGE REQUEST

⌘　　**24.229** CR **085**　⌘**rev** **1** ⌘　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: ⌘　(U)SIM ☐　ME/UE ☐　Radio Access Network ☐　Core Network **X**

Title: ⌘	MRFC INVITE interface editor's notes	
Source: ⌘	Lucent Technologies	
Work item code: ⌘	IMS-CCR	***Date:*** ⌘　May 6, 2002
Category: ⌘ **F**		***Release:*** ⌘　REL-5

<table>
<tr><td>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>.</td><td>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)</td></tr>
</table>

Reason for change: ⌘	MRFC procedures in 24.229 currently have editor's notes related to the details of how the MRFC provides tones, announcements and conferencing. If these details are not provided by CR 014 or some alternative, then the editor's notes need to be replaced with a statement that these procedures are proprietary for Rel-5. It is possible that the solution may be based on IETF proposals, but there is no clear choice in the Rel-5 timeframe.
Summary of change: ⌘	Editor's notes are replaced with statements noting that the details of the MRFC interface for tones, announcements and conferencing are not specified in this version of the document.
Consequences if not approved: ⌘	There will be unresolved editor's notes in the document.

Clauses affected: ⌘	5.8.2.1.1.1, 5.8.2.1.1.2, 5.8.4
Other specs affected: ⌘	☐ Other core specifications　⌘ ☐ Test specifications ☐ O&M Specifications
Other comments: ⌘	This CR is an alternative to CR 014 (tdoc N1-021153) and one of these CRs can be accepted.

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Start of changed text

5.8 Procedures at the MRFC

5.8.1 General

Void.

5.8.2 Call initiation

5.8.2.1 Initial INVITE

5.8.2.1.1 MRFC-terminating case

When the MRFC receives an initial INVITE request, the MRFC shall store the value of the <icid> XML element received in the message body (see subclause 7.6).

5.8.2.1.1.1 Tones and announcements

The MRFC can receive INVITE requests to set up a session to play tones and announcements. The MRFC acts as terminating UA in this case.

When the MRFC receives an INVITE request with an indicator for a tone or announcement, the MRFC shall:

- send 100 Trying response.

Editor's note: it is FFS how to identify the tone or announcement to be played.

NOTE:- The detailed interfaces for requesting tones and announcements are not specified in this version of the document Rel 5. IETF based solutions are desired, but proprietary Other solutions may be used in the interim.

5.8.2.1.1.2 Ad-hoc conferences

The MRFC can receive INVITE requests to set up an ad-hoc conferencing session (e.g. Multiparty Call) or to add parties from the conference. The MRFC acts as terminating UA in this case.

When the MRFC receives an INVITE request with an indicator to initiate ad hoc conferencing, the MRFC shall:

- send 100 Trying response; and

- after the MRFP indicates that the conference resources are available, send 200 OK response with an MRFC conference identifier.If the MRFC chooses to send a 183 Session Progress response prior to the 200 OK, then the conference identifier may also be included in the 183 Session Progress response.

When the MRFC receives an INVITE request with an indicator to add a party to an existing ad hoc conference (i.e. MRFC conference identifier), the MRFC shall:

- send 100 Trying response; and

- after the MRFP indicates that the conferencing request is granted, send 200 OK response with the MRFC conference identifier.If the MRFC chooses to send a 183 Session Progress response prior to the 200 OK, then the conference identifier may also be included in the 183 Session Progress response.

Editor's note: it is FFS how to identify the resources of the MRFC/MRFP.

NOTE:- The detailed interface for requesting ad-hoc conferencing sessions is not specified in this version of the documentRel 5. IETF based solutions are desired, but proprietary Other solutions may be used in the interim.

5.8.2.1.1.3 Transcoding

The MRFC may receive INVITE requests to set up transcoding between endpoints with incompatible codecs. The MRFC acts as terminating UA in this case.

When the MRFC receives an INVITE request with an indicator for transcoding and a codec is supplied in SDP, the MRFC shall:

- send 100 Trying response; and

- after the MRFP indicates that the transcoding request is granted, send 200 OK response.

When the MRFC receives an INVITE request with an indicator for transcoding but no SDP, the MRFC shall:

- send 183 Session Progress response with list of codecs supported by the MRFC/MRFP.

5.8.2.1.2 MRFC-originating case

Void.

5.8.2.2 Subsequent requests

> Editor's Note: PRACK and COMET can be handled in a generic way.

5.8.2.2.1 Tones and announcements

When the MRFC receives an ACK request for a session, this may be considered as an event to direct the MRFP to start the playing of a tone or announcement.

5.8.3 Call release

5.8.3.1 S-CSCF-initiated call release

5.8.3.1.1 Tones and announcements

When the MRFC receives a BYE request for a session, the MRFC shall direct the MRFP to stop the playing of a tone or announcement.

5.8.3.2 MRFC-initiated call release

5.8.3.2.1 Tones and announcements

When the MRFC has a timed session to play tones and announcements and the time expires, the MRFC shall:

- send a BYE request towards the UE.

When the MRFC is informed by the MRFP that tone or announcement resource has been released, the MRFC shall:

- send a BYE request towards the UE.

5.8.2.2.2 Transcoding

When the MRFC receives a PRACK request (in response to the 183) with an indicator for transcoding and codec supplied in SDP, the MRFC shall:

- after the MRFP indicates that the transcoding request is granted, send 200 OK response.

5.8.4 Call-related requests

5.8.4.1 ReINVITE

5.8.4.1.1 MRFC-terminating case

5.8.4.1.1.1 Ad-hoc conferences

The MRFC can receive reINVITE requests to modify an ad-hoc conferencing session (e.g. Multiparty Call) for purposes of floor control and for parties to leave and rejoin the conference.

When the MRFC receives a reINVITE request, the MRFC shall:

- send 100 Trying response; and

- after the MRFP indicates that the conferencing request is granted, send 200 OK response with the MRFC conference identifier.If the MRFC chooses to send a 183 Session Progress response prior to the 200 OK, then the conference identifier may also be included in the 183 Session Progress response.

Editor's note: it is FFS how to identify the resources of the MRFC/MRFP.

NOTE:- The detailed interface for requesting ad-hoc conferencing sessions is not specified in this version of the documentRel 5. IETF based solutions are desired, but proprietary Other solutions may be used in the interim.

5.8.4.1.2 MRFC-originating case

Void.

5.8.4.2 REFER

5.8.4.2.1 MRFC-terminating case

Void.

5.8.4.2.2 MRFC-originating case

Void.

5.8.4.2.3 REFER initiating a new session

Void.

5.8.4.2.4 REFER replacing an existing session

Void.

5.8.4.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

5.8.5 Further initial requests

When the MRFC responds to an OPTIONS request with a 200 OK response, the MRFC may include a message body with an indication of the supported tones/announcement packages, DTMF capabilities, supported codecs and conferencing options of the MRFC/MRFP.

Editor's note: it is FFS how to identify the resources of the MRFC/MRFP.

End of changed text

CR-Form-v5

CHANGE REQUEST

⌘ **24.229** CR **086** ⌘**rev** **1** ⌘ 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: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network ☐ Core Network **X**

Title: ⌘	MRFC OPTIONS interface editor's notes	
Source: ⌘	Lucent Technologies	
Work item code: ⌘	IMS-CCR	***Date:*** ⌘ May 6, 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)*

Reason for change: ⌘	MRFC procedures in 24.229 currently has an editor's note related to the details of how the MRFC reports supported capabilities. If these details are not provided by CR 015 or some alternative, then the editor's note needs to be replaced with a statement that this procedure is proprietary for Rel-5. It is possible that the solution may be based on IETF proposals, but there is no clear choice in the Rel-5 timeframe.
Summary of change: ⌘	Editor's note is replaced with statement noting that the details of the MRFC interface for reporting capabilities are not specified in this version of the document.
Consequences if not approved: ⌘	There will be an unresolved editor's note in the document.

Clauses affected: ⌘	5.8.5
Other specs affected: ⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments: ⌘	This CR is an alternative to CR 015 (tdoc N1-021154) and one of these CRs can be accepted.

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Start of changed text

5.8.5   Further initial requests

When the MRFC responds to an OPTIONS request with a 200 OK response, the MRFC may include a message body with an indication of the supported tones/announcement packages, DTMF capabilities, supported codecs and conferencing options of the MRFC/MRFP.

> ~~Editor's note: it is FFS how to identify the resources of the MRFC/MRFP.~~

> NOTE:~~-~~   The detailed interface for requesting MRFC/MRFP capabilities is not specified in this version of the document~~Rel 5~~. ~~IETF based solutions are desired, but proprietary~~ Other solutions may be used in the interim.

End of changed text

CR-Form-v5

CHANGE REQUEST

⌘ **24.229** CR **087** ⌘**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: ⌘ (U)SIM ☐ ME/UE ☐ Radio Access Network ☐ Core Network **X**

Title: ⌘	MRFC PRACK & INFO editor's notes	
Source: ⌘	Lucent Technologies	
Work item code: ⌘	IMS-CCR	***Date:*** ⌘ May 6, 2002
Category: ⌘ **F**		***Release:*** ⌘ REL-5

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 TR 21.900.

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)*

Reason for change: ⌘	MRFC procedures in 24.229 currently have editor's notes asking if the MRFC handles PRACK, COMET and INFO in any way other than standard SIP. Since no changes to SIP have been identified that are specific to 3GPP, the editor's notes need to be removed.
Summary of change: ⌘	Editor's notes are replaced with 'void' indicator or simply removed.
Consequences if not approved: ⌘	There will be unresolved editor's notes in the document.

Clauses affected: ⌘	5.8.2.2, 5.8.4.3

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

Other comments: ⌘	

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Start of first change

5.8.2.2 Subsequent requests

Editor's Note: PRACK and COMET can be handled in a generic way.

5.8.2.2.1 Tones and announcements

When the MRFC receives an ACK request for a session, this may be considered as an event to direct the MRFP to start the playing of a tone or announcement.

End of first change

Start of second change

5.8.4.3 INFO

Editor's Note: It has to be determined which of these requests can be handled in a generic way.

Void.

End of second change

CR-Form-v5

CHANGE REQUEST

⌘   **24.229 CR 088**   ⌘**rev** **1** ⌘   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: ⌘   (U)SIM ☐   ME/UE ☐   Radio Access Network ☐   Core Network **X**

Title: ⌘	MGCF OPTIONS interface editor's notes	
Source: ⌘	Lucent Technologies	
Work item code: ⌘	IMS-CCR	***Date:*** ⌘ May 6, 2002
Category: ⌘ **F**		***Release:*** ⌘ REL-5

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
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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)*

Reason for change: ⌘	MGCF procedures in 24.229 currently has an editor's note related to the details of how the MGCF reports supported capabilities. If these details are not provided by CR 021 or some alternative, then the editor's note needs to be replaced with a statement that this procedure is proprietary for Rel-5. It is possible that the solution may be based on IETF proposals, but there is no clear choice in the Rel-5 timeframe.
Summary of change: ⌘	Editor's note is replaced with statement noting that the details of the MGCF interface for reporting capabilities are not specified in this version of the document.
Consequences if not approved: ⌘	There will be an unresolved editor's note in the document.

Clauses affected: ⌘	5.5.6
Other specs affected: ⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments: ⌘	This CR is an alternative to CR 021 (tdoc N1-021156) and one of these CRs can be accepted.

How to create CRs using this form:

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Start of changed text

5.5.6   Further initial requests

When the MGCF responds to an OPTIONS request with a 200 OK response, the MGCF may include a message body with an indication of the DTMF capabilities and supported codecs of the MGCF/MGW.

> Editor's note: it is FFS how to identify the resources of the MGCF/MGW.

> NOTE:-   The detailed interface for requesting MGCF/MGW capabilities is not specified in this version of the documentRel 5. IETF based solutions are desired, but proprietary Other solutions may be used in the interim.

End of changed text

CR-Form-v5

CHANGE REQUEST

⌘   **24.229 CR 089** ⌘ **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: ⌘   (U)SIM ☐   ME/UE ☐   Radio Access Network ☐   Core Network **X**

Title: ⌘	MGCF reINVITE editor's notes
Source: ⌘	Lucent Technologies
Work item code: ⌘ IMS-CCR	***Date:*** ⌘ May 6, 2002

Category: ⌘ **F**

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.

Release: ⌘ REL-5

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: ⌘	MGCF procedures in 24.229 currently has an editor's note related to notifying the UE when the circuit-switched side of the call has done a halt or resume operation. Since there has not been a requirement identified to notify the UE, it will be left as an MGCF implementation option.
Summary of change: ⌘	Editor's note is replaced with a 'void' indicator.
Consequences if not approved: ⌘	There will be an unresolved editor's note in the document.

Clauses affected: ⌘	5.5.5.1.1

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

Other comments: ⌘	

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Start of changed text

5.5.5 Call-related requests

5.5.5.1 ReINVITE

5.5.5.1.1 Calls originating from circuit-switched networks

~~Editor's Note: When the bearer on the circuit-switched network side is halted/resumed, should the MGCF notify the UE with a reINVITE?~~

Void.

5.5.5.1.2 Calls terminating in circuit-switched networks

When the MGCF receives a reINVITE request for hold/resume operation, the MGCF shall:

- send 100 Trying response;

- after performing interaction with MGW to hold/resume the media flow, send 200 OK response.

5.5.5.2 REFER

5.5.5.2.1 Calls originating from circuit-switched networks

Void.

5.5.5.2.2 Calls terminating in circuit-switched networks

Void.

5.5.5.2.3 REFER initiating a new session

Void.

5.5.5.2.4 REFER replacing an existing session

Void.

5.5.5.3 INFO

Void.

End of changed text