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

Introduction:

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		Meeting- 2nd-Level	Doc-2nd-
						Current	n-New	Zna-Levei	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	880	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

CHANGE REQUEST									
*	<mark>24.229</mark>	CR <mark>084</mark>	≋ rev	1 **	Current vers	ion: 5.0.0	H		
For <u>HELP</u> on usi	ing this for	rm, see bottom	of this page or	look at the	pop-up text	over the # syl	mbols.		
Proposed change at	fects: #	(U)SIM	ME/UE	Radio Acc	cess Network	Core Ne	etwork X		
Title: #	MRFC re	gister addresses	S						
Source: #	Lucent Te	echnologies							
Work item code: %	IMS-CCR				Date: ₩	May 6, 2002			
	Jse <u>one</u> of F (con A (con B (add C (fun D (edi Detailed ex	the following cate rection) responds to a coldition of feature), ctional modification and modification and modification of the against TR 21.900	rrection in an ea on of feature) n) above categorie	rlier release _,	2) R96 R97 R98 R99 REL-4	REL-5 the following rel (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)			
Reason for change: MRFC procedures in 24.229 currently do not comment on whether of MRFC needs to register its addresses with a SIP Registrar (i.e. S-CS However, it could be implied that the MRFC must register because it as regular UA in clause 4.1.									
Summary of change		edures are mod eter its associate				may not			
Consequences if not approved:		MRFC will have t appropriate in		dresses as	part of stand	dard UA behav	vior. This		
Clauses affected:	第 5.8.1								
Other specs affected:	Te	ther core specif est specification &M Specificatio	S						
Other comments:	¥								

- 1) Fill out the above form. The symbols above marked \(\mathcal{H} \) 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.

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.

CHANGE REQUEST									
*	<mark>24.229</mark> CR	085	≋ rev	1 *	Current vers	5.0.0	¥		
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.									
Proposed change aft	fects: ♯ (U)SIM ME	E/UE	Radio A	ccess Networl	k Core Ne	etwork X		
Title: 第	MRFC INVITE	interface editor	r's notes						
Source: #	Lucent Techno	logies							
Work item code:	IMS-CCR				Date: ℜ	May 6, 2002			
D	se one of the fo F (correction A (correspo B (addition C (functional D (editorial	nds to a correction feature), of feature), of modification of modification) ions of the above	on in an ear feature)		2	REL-5 the following relicion (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)			
Reason for change: Summary of change:	how the M details are need to be Rel-5. It is is no clea	ocedures in 24 IRFC provides e not provided be replaced with possible that to choice in the fotes are replaced.	tones, and by CR 014 a statement he solution Rel-5 time	nouncement or some ent that the may be frame.	e alternative, the e alternative, these procedure e based on IET	erencing. If the nen the editor's es are propriet FF proposals, b	notes ary for out there		
Summary of change.	interface f	or tones, annot the document.	uncement						
Consequences if not approved:	署 There will	be unresolved	editor's no	otes in th	ne document.				
Clauses affected:	第 5.8.2.1.1.	1, 5.8.2.1.1.2, 5	5.8.4						
Other specs affected:	Test sp	core specification ecifications pecifications	ons X						
Other comments:	# This CR is	s an alternative	to CR 014	4 (tdoc N	11-021153) and	d one of these	CRs can		

- 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.

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.

CHANGE REQUEST										CR-Form-v5		
*	24.	229	CR	086		жrev	1	¥	Current ve	rsion:	5.0.0	¥
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.												
Proposed change a	affect	s: #	(U)	SIM	ME/	UE	Rad	io Ac	cess Netwo	ork	Core Ne	etwork X
Title: Ж	MR	FC OF	PTION	S interfa	ce edit	or's no	tes					
Source: #	Luc	ent Te	chnolo	ogies								
Work item code: ₩	IMS	-CCR							Date: 8	₩ <mark>M</mark> a	y 6, 2002	
	Detai	F (corr A (corr B (add C (fund D (edit led exp	rection) respond lition of ctional in torial m blanatio	owing cat ds to a co feature), modificatio ons of the FR 21.90	orrection ion of fe n) above	n in an e eature)			2	of the fo (GSI (Rela (Rela (Rela (Rela (Rela	L-5 ollowing rela M Phase 2) ease 1996) ease 1997) ease 1999) ease 4) ease 5)	
Reason for change	<i>:</i> ¥	of ho by C state solut	w the R 015 ment t	MRFC re or some hat this pay be bas	eports : alterna proced	support ative, thure is p	ted cap nen the proprie	oabili e edit tary f	n editor's no ties. If these or's note ne or Rel-5. It i ut there is n	e detai eds to s poss	ls are not be replac sible that th	provided ed with a he
Summary of chang	e: ૠ	interf							ng that the c ecified in thi			FC
Consequences if not approved:	ж	Ther	e will b	e an un	resolve	ed edito	r's not	e in t	he docume	nt.		
Clauses affected:	¥	5.8.5										
Other specs affected:	*	Τe	est spe	re speci cification ecification	ns	ns :	₩					
Other comments:	¥		CR is		native t	o CR 0	15 (tda	oc N1	-021154) a	nd one	of these	CRs can

- 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.

3

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 documentRel 5. IETF based solutions are desired, but proprietary Other solutions may be used in the interim.

3GPP TSG-CN1 Meeting #24 Budapest, Hungary, 13. – 17. May 2002

CHANGE REQUEST										CR-Form-v5		
			`			_ \	. • -	•				
ж	24.	229	CR	087	H	rev	-	¥	Current v	ersion	5.0.	0 #
For <u>HELP</u> on u	For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the # symbols.											
Proposed change affects:												
Title: 第	MR	FC PF	RACK	& INFO 6	editor's r	otes						
Source: #	Luc	ent Te	chnol	ogies								
Work item code: ₩	IMS	-CCR							Date:	ж <mark>М</mark>	lay 6, 200)2
Category: 第 Reason for change	Detai be fo	F (corr A (corr B (add C (fund D (edit led exp und in	rection) respondition of ctional torial modanatic 3GPP	ds to a co f feature), modification ons of the TR 21.900	ion of fean) above ca	ture) ategorie	s can	ave (2	of the (GS (Re (Re (Re 4 (Re 5 (Re		2) 16) 17) 18) 19)
Summary of shane	. o. 90	no ch notes	nanges s need	s to SIP I I to be re	nave bee moved.	en iden	tified	that	are specifi	c to 30	GPP, the	
Summary of chang	e: # *				•				tor or simp	•	ovea.	
Consequences if not approved:	ф	rner	C WIII L	Je uniteSt	orveu eu	1101 5 11	0162	iii tiit	documen	ι.		
Clauses affected:	ж	5.8.2	2.2, 5.8	3.4.3								
Other specs affected:	¥	Te	est spe	ore specification	าร	H						
Other comments:	æ											

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ 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 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

CHANGE REQUEST									
ж 2	4.229 CR 088	≋ rev	1 * 0	Current versio	5.0.0	\mathfrak{H}			
For <u>HELP</u> on usin	g this form, see bottom	of this page or i	look at the	pop-up text o	over the % sym	nbols.			
Proposed change aff	ects: # (U)SIM	ME/UE	Radio Acce	ess Network	Core Ne	twork X			
Title:	MGCF OPTIONS interfa	ace editor's note	S						
Source: # L	ucent Technologies								
Work item code: ₩ Ⅰ	MS-CCR			Date: ೫	May 6, 2002				
De	se one of the following ca F (correction) A (corresponds to a c B (addition of feature) C (functional modifica D (editorial modification etailed explanations of the found in 3GPP TR 21.90	orrection in an ear tion of feature) on) above categories	lier release)	Use <u>one</u> of th 2 (C R96 (F R97 (F R98 (F R99 (F REL-4 (F	REL-5 ne following rele GSM Phase 2) Release 1996) Release 1997) Release 1999) Release 4) Release 5)	ases:			
Reason for change:	# MGCF procedures of how the MGCF is by CR 021 or some statement that this solution may be ba 5 timeframe.	reports supported e alternative, the procedure is pro	d capabilition the editor prietary for	es. If these de r's note needs r Rel-5. It is p	etails are not post to be replace to be that the constitution of t	provided ed with a e			
Summary of change:	器 Editor's note is rep interface for reporti document.					CF			
Consequences if not approved:	第 There will be an ur	nresolved editor's	note in the	e document.					
Clauses affected:	第 5.5.6								
Other specs affected:	# Other core spec Test specificatio O&M Specificati	ns							
Other comments:	# This CR is an alter	native to CR 021	(tdoc N1-0	021156) and o	one of these C	Rs can			

- 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.	f)

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.

3GPP TSG-CN1 Meeting #24 Budapest, Hungary, 13. – 17. May 2002

CHANGE REQUEST													
¥	24.	229	CR	089	6	⊭ rev	-	Ж	Current ve	rsion:	5.0.	0 #	
For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the % symbols.													
Proposed change affects: # (U)SIM													
Title: ૠ	MG	CF rel	NVITE	editor's	notes								
Source: #	Luc	ent Te	chnolo	ogies									
Work item code: ₩	IMS	-CCR							Date: 8	₩ <mark>M</mark> a	ay 6, 200	02	
Reason for change	Detai be for	F (corr A (corr B (add C (fund D (edit led exp und in	rection) respondition of ctional forial m blanation 3GPP	ds to a co f feature), modification ons of the TR 21.90	orrection ion of fean) above o	ature) ategorie	s can		R97 R98 R99 REL-4 REL-5	of the for (GSI) (Reli (Reli (Reli (Reli (Reli	M Phase ease 199 ease 199 ease 199 ease 199 ease 4) ease 5)	2) 96) 97) 98) 99)	
_		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 chang	ge: ₩	Edito	r's not	te is repl	aced wi	th a 'vo	id' inc	dicate	or.				
Consequences if not approved:	Ж	Ther	e will b	e an un	resolve	d editor	s note	e in t	the docume	nt.			
Clauses affected:	ж	5.5.5	.1.1										
Other specs affected:	¥	Te	est spe	ore speci ecification ecification	ns	s #	3						
Other comments:	ж												

How to create CRs using this form:

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ 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.

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 Void.	Calls originating from circuit-switched networks
5.5.5.2.2 Void.	Calls terminating in circuit-switched networks
5.5.5.2.3 Void.	REFER initiating a new session

REFER replacing an existing session

Void.

5.5.5.2.4

5.5.5.3 INFO

Void.