Rich Communication Suite

Endorsement of 3GPP TS 24.173 MMTel
Release 2
Document Version 1.0
31st August 2009

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Security Classification: This document contains non-confidential GSMA information

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1 INTRODUCTION

1.1 Overview

This document describes which sections of the 3GPP MMtel specification (see [3GPPMMTel]) are supported by RCS R2 Broadband Access devices.

For general overview of RCS R2 including high-level requirements regarding fixed terminal (packet-only access hence without circuit) based voice, please see document RCS Functional Description [FUNCDESC].

For details on how this fits technically in RCS R2, please see document RCS Technical Realization [TECHREAL].

For easier reference this document follows the same structure as [3GPPMMTel]. For that reason the headings of the sections are citations of the headings used in [3GPPMMTel], the sections themselves describe what part the equivalent section in [3GPPMMTel] is supported by RCS R2. For sections that are not applicable in their entirety, this is mentioned at the top level of the section and the subsections are not mentioned explicitly anymore. For sections in which no difference with [3GPPMMTel] is introduced however, also the subsections are mentioned to state it clearly that they are applicable as well.

1.2 Scope

This document provides the details of the PS voice control plane technology used in RCS voice related services (e.g. Video Share) of RCS R2 Broadband Access devices.

1.3 Definition of Terms

Term	Description
RCS	Rich Communication Suite

1.4 Document Cross-References

Document	Name
[IR.74]	Video Share Interoperability Specification 1.3
[FUNCDESC]	RCS R2 Functional Description (TBD)
[TECHREAL]	Rich Communication Suite: RCS R2 Technical Realization (Stage 2/3) (TBD)
[3GPPMMTel]	3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; IMS multimedia telephony communication service and supplementary services; stage 3 (release 8). 3GPP TS 24.173 V8.4.0 (2009-03) http://www.3gpp.org/ftp/Specs/html-info/24173.htm

2   REFERENCES

See chapter 1.4.

3   DEFINITIONS, SYMBOLS AND ABBREVIATIONS

The same definition, symbols and abbreviations used in chapter 4 of [3GPPMMTel]) are valid for RCS R2. Additional abbreviations and terms specific for this document can be found in chapter 1.3.

4   OVERVIEW OF MULTIMEDIA TELEPHONY COMMUNICATION SERVICE AND ASSOCIATED SUPPLEMENTARY SERVICES IN THE IP MULTIMEDIA (IM) CORE NETWORK (CN) SUBSYSTEM

4.1   General

No differences with [3GPPMMTel].

4.1A   Roles

No differences with [3GPPMMTel].

4.1A.1 Multimedia telephony participant

No differences with [3GPPMMTel].

4.1A.2 Multimedia telephony application server

No differences with [3GPPMMTel].

4.2   Overview of basic communication part

A difference with [3GPPMMTel] is that RCS R2 does not require in-session media capabilities real-time text, TCP/MSRP-based media transfer, video, or one-way transfer. RCS R2 devices handle MMTel in-session transfer of two-way voice. Add/drop of media e.g. video takes place in separate sessions i.e. IR.74 session for add/drop of one-way real-time video transfer. Thus, no re-INVITE takes place within the MMTel-voice session.

4.3   Overview of supplementary services part

Not applicable for RCS R2.

5   BASIC COMMUNICATION

No differences with [3GPPMMTel].

5.1   IMS communication service identifier

No differences with [3GPPMMTel].

5.2   Session Control procedures

No differences with [3GPPMMTel] in principal, however with clarifications as follows:

RCS R2 endorses the use of the +g.3gpp.icsi-ref feature tag and the RFC 3841 'audio' feature tag in the following way:

For an in-session voice call, the +g.3gpp.icsi-ref feature tag and the RFC 3841 'audio' feature tag are both set in the same Accept-contact header.

The RFC 3841 require-parameter shall be set in the same Accept-contact header as referred to above.

The above two feature tags shall also be set in the Contact header of SIP REGISTER and INVITE/200 OK (INVITE). The latter is an indication between the initiating and receiver entities that the capability prepared to be used during the session is MMTel audio (i.e. voice).

5.3   Interworking

No differences with [3GPPMMTel].

6 SUPPLEMENTARY SERVICES

Not applicable for RCS R2 i.e. none of chapters 6.1 - 6.18 of [3GPPMMTel].

ANNEX A-J: NOT APPLICABLE FOR RCS R2

DOCUMENT MANAGEMENT

Document History

Version	Date	Brief Description of Change	Approval Authority	Editor / Company
0.1	6 April 09	First version using the GSMA Template. Document 3rd Generation Partnership Project; Technical Specification Group Core Network and Terminals; IMS multimedia telephony communication service and supplementary services; stage 3 (release 8), version 8.4.0 was used as a basis	RCS Programme	Mats Stille/ Ericsson
0.2	23rd April 09	Updated according to comments at meeting held on April 8th		
0.3	22nd June 09	No Comments received during consistency review Consistency Review R2 Review report : SPEC DOC RCS SPEC R2_007 https://infocentre.gsm.org/cgi-bin/docindex.cgi?33477 Page 2 Added, needed for DAG approval		Dirk Raeymaekers/ NSN
0.4	25th June 09	Accept changes front pages & grammar/spelling check	RCS Programme	Dirk Raeymaekers /NSN
1.0	31st Aug 09	Approved by DAG & EMC and updated version to 1.0	DAG & EMC	Dirk Raeymaekers /NSN

Type	Description
Document Owner	Rich Communication Suite Programme
Editor / Company	Mats Stille/ Ericsson

Other Information