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**RCS** specifications

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History

**Status** 

References

**History** 

**External links** 

Communication Services. [7]

Telekom, and Globe are committed to the service. [11]

**RCS** specifications

**Release 1 (November 2016)** 

Included support for LTE.

**Release 2 (July 2017)** 

Release 1

Release 2

Release 3

Release 4

Release 5

■ 1-to-1 Chat

Group Chat

File Transfer

IP Voice call

Content Sharing

Best Effort Video call

Audio Messaging

Geolocation Exchange

Network based blacklist

At this time there are two major relevant releases:

Two or more future releases are planned:

**Status** 

**Operator** 

Vodafone

Movistar

Vodafone

**MetroPCS** 

Orange

ΚT

LG U+

Telcel

Claro

Claro

Claro

Claro

Claro

Sprint

Vodafone

Telekom

Vodafone

Vodafone

T-Mobile US

Orange

02

AT&T

MTS

Vodafone

**Rogers Wireless** 

Fido Solutions

Sprint

Telenor

Vodafone

Telia Company

NTT Docomo

SoftBank Corp.

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Telstra

KDDI

Slovak Telekom

Orange

SK Telecom

Deutsche Telekom

Standalone Messaging

Social Presence Information

# WikipediA **Rich Communication Services**

project 'home' of RCS and an RCS steering committee was established by the organisation.

Flowers.com, Booking.com, SnapTravel (https://www.getsnaptravel.com), and Subway.

Universal Profile RCS has had one release, and currently has one scheduled:[13]

multi-device, enriched calling, location share and live sketching.

Focused on the broadband device as a primary device.

The following standardized services are a part of the specifications of RCS:[14]

Capability Exchange based on Presence or SIP OPTIONS

• joyn Crane - Already available in GSMA web page.

Universal Profile is currently backed by 60 supporters:<sup>[16]</sup>

2 mobile OS providers: Google and Microsoft.

Country

**Spain** 

**Spain** 

**Spain** 

Germany

United States

South Korea

South Korea

**South Korea** 

Germany

Argentina

**Colombia** 

Peru

France

Brazil

🚢 Ecuador

Albania

Romania

Slovakia

Slovakia

**R**ussia

Portugal

🙌 Canada

🙌 Canada

List

List

Europe and Asia

Multiple markets

🌉 Australia

Sweden

Japan

Japan

Japan

IOT team and any IOT issues arising resolved with the submitter.<sup>[40]</sup>

egic-rationale/) on 3 March 2014. Retrieved 7 March 2013.

**GSMA RCS accreditation** 

issues arising resolved with the submitter.<sup>[40]</sup>

Germany

United States

United States

United States

**UK** 

United States

🛌 Czech Republic | June 2014

Mexico

based upon this specification are live in Spain, France and Germany.

Global interoperability is a key aspect of these specifications.

Prior to Universal Profile, five releases of the RCS specifications were made. Each release expanded the scope of its predecessor.

Rich Communication Services is a communication protocol between mobile-telephone carriers and between phone and carrier, aiming at replacing SMS messages with a text-

message system that is richer, provide phonebook polling (for service discovery), and transmit in-call multimedia. It is marketed under the names RCS, Advanced Messaging, Advanced Communications, [1] joyn, [2] and Message+.

The Rich Communication Suite (RCS) industry initiative<sup>[3]</sup> was formed by a group of industry promoters in 2007. In February 2008 the GSM Association officially became the

The scope of the steering committee's work was to entail the definition, testing, and integration of the services in the application suite known as RCS.<sup>[4][5][6]</sup> Three years later, the

RCS project released a new specification – RCS-e (e = 'enhanced'), which included various iterations of the original RCS specifications. The GSMA program is now called Rich

3GPP specified IMS core system as the underlying service platform taking care of issues such as authentication, authorization, registration, charging and routing.

Includes Messaging as a Platform, APIs, plug-in integration and improved authentication and app security.

Added broadband access to RCS features: enhancing the messaging and enabling sharing of files.

Offered the first definitions for the enrichment of voice and chat with content sharing, driven from an RCS enhanced address book.

interoperable services between carriers. The RCS specifications aim to define a more specific implementation that promote standardization and simplify interconnection between carriers.

also been involved in interoperability testing with vendors of joyn Blackbird Drop 1 clients. A number of client vendors are accredited to joyn Blackbird Drop 1.

Orascom Telecom, Rogers Communications, SFR, SK Telecom, Telecom Italia, Telefónica, Telia Company, Telus, Verizon and Vodafone. [15]

**RCS** launches

[17] Branded as *iovn*.

[17] Branded as joyn.

[17] Branded as *iovn*.

[17][19] Branded as *joyn*.

[17][19] Branded as joyn.

[17][19] Branded as joyn.

[17] Branded as joyn.

[17] Branded as *iovn*.

[17] Branded as joyn.

[17] Branded as joyn.

[17] Branded as joyn.

[17] Branded as *iovn*.

[17] Branded as joyn.

[22] Branded as Message+.

[17] Branded as Message+.

[25][26] Branded as Message+.

[27] Branded as Message+Call.

[31] Branded as MTS Connect.

[32] Branded as Message+.

Universal Profile.

Universal Profile.

Universal Profile.[34]

[35] Universal Profile.[11]

Branded as SMS+.[37]

Branded as +Message.[38]

Branded as +Message.[38]

Branded as +Message. [38]

Branded as Telstra Messaging.[36]

[28] Branded as Advanced Messaging.

[33] Branded as RCS. Universal Profile.

Branded as Advanced Messaging and Video Call. [29][30]

The RCS Interop and Testing (IOT) accreditation process [39] was started by the GSMA in order to improve the quality of testing, increase transparency, drive scale, minimize complexity and accelerate time-to-market (TTM) of joyn

"Accredited" means that the device, client or network has undertaken a series of test cases (150 to 300) in a specific set of conditions, provided test results and traces that have been analysed by the GSMA RCS IOT team and any IOT

"Accreditation Ready" is the designation awarded to a hosted RCS service that has undertaken the same series of test cases as mobile network operator, provided test results and traces that have been analysed by the GSMA RCS

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[23][24] Branded as joyn.

[23][24] Branded as joyn.

[23][24] Branded as *joyn*.

Launched as a separate application<sup>[17][21]</sup>

[17] Branded as Message+[20]

Telstra, Telus, TIM (brand), T-Mobile US, Turkcell, Verizon Communications, VEON, and Vodafone.

Launch date

2012

June 2012

August 2012

November 2012

November 2012

December 2012

December 2012

December 2012

February 2013

February 2013

May 2013

May 2013

May 2013

June 2013

August 2013

August 2013

October 2013

April 2014

June 2014

June 2014

March 2015

2015

July 2015

September 2014

November 2015

December 2015

November 2016

December 2016

December 2016

February 2017

February 2017

October 2017

May 2018

May 2018

May 2018

December 2017

services. Companies need to undertake the IOT process from the GSMA to apply for a license to use the service mark joyn.

"Rich Communications" (http://www.gsma.com/network2020/rcs/). GSMA. Retrieved 7 March 2013.

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"Partnering with global carriers to upgrade SMS" (https://blog.google/products/android/partnering-global-carriers-upgrade-sms/)

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tp://www.gsma.com/rcs/rich-communications-past-present-future/) on 2012-05-23. Retrieved 18 October 2012.

The GSMA published the Universal Profile in November 2016.<sup>[8]</sup> The Universal Profile is a globally agreed, single GSMA specification for advanced communications. Carriers that deploy the Universal Profile guarantee interconnection

with other carriers. 47 mobile network operators, 11 manufacturers, and 2 OS providers (Google and Microsoft) have announced their support. [9] Google's Jibe Cloud platform is an implementation of the RCS Universal Profile, designed

to help carriers launch RCS quickly and scale easily. [10] Google supports RCS on Android devices with the Android Messages app. The Jibe RCS cloud service partners with Sprint, Rogers, Telenor, and Vodafone; Orange, Deutsche

On February 22, 2018, Google made an announcement that in collaboration with Sprint, it has enabled campaigns for a handful of global brands to send RCS enabled messages to consumers. [12] These brands include 1-800-

RCS combines different services defined by 3GPP and Open Mobile Alliance (OMA) with an enhanced phonebook. Another phone's capabilities and presence information can be discovered and displayed by a mobile phone. RCS reuses

Includes core features such as capability discovery which will be interoperable between regions, chat, group chat, file transfer, audio messaging, video share,

The GSMA defined a series of specific implementations of the RCS specifications. The RCS specifications often define a number of options for implementing individual communications features, resulting in challenges in delivering

• joyn Hot Fixes - based upon the RCS 1.2.2 specification (previously known as RCS-e), this includes 1:1 chat, group chat, MSRP file sharing and video sharing (during a circuit switched call). Services

• joyn Blackbird Drop 1 - based upon the RCS 5.1 specification, this extends the joyn Hot Fixes service to include HTTP file sharing, location sharing, group file sharing, and other capabilities such as

• joyn Blackbird Drop 2 - also based upon the RCS 5.1 specification, this will primarily add IP voice and video calling. The test cases for joyn Blackbird Drop 2 have yet to be released by the GSMA.

According to GSMA PR, Rich Communication Services (RCS) carriers from around the globe supporting the RCS standard include AT&T, Bell Mobility, Bharti Airtel, Deutsche Telekom, Jio, KPN, KT Corporation, LG U+), Orange,

• 47 operators: Advanced Info Service, América Móvil, AT&T Mobility, Axiata, Beeline (brand), Bell Mobility, Bharti Airtel, China Mobile, China Telecom, China Unicom, Claro Americas#Brazil, Claro

■ 11 OEMs: Alcatel (mobile device brand), Asus, Huawei, General Mobile, HTC, Intex Technologies, Lava International, LG Electronics, Motorola, Samsung Electronics and ZTE.

Colombia, Deutsche Telekom, Etisalat, Globe Telecom, Indosat Ooredoo, KPN, M1 Limited, MegaFon, Millicom, MTN Group, MTS (network provider), Optus, Orange S.A., Telecom Argentina, Telecom

Note

[17] Launched the beta version of RCS at beginning of 2012, branded as joyn.

[17][18] First Branded as joyn. Since November 2013 Message+.

Argentina#Personal, Play (telecommunications), Jio, Rogers Communications, Singtel, Smart Communications, Sprint Corporation, StarHub, Telcel, Tele2, Telefónica, Telenor, Telia Company, Telkomsel,

group chat store and forward. joyn Blackbird Drop 1 is backward compatible with joyn Hot Fixes. Vodafone Spain's network is accredited for joyn Blackbird Drop 1, and Telefónica and Orange Spain have

**Rich Communication** 

**Services** 

GSM

- - Association 2012
- - Android
- **Development status** Active

- Developer(s) **Initial release**

Available in

Type

License

Website

Windows 10

Multilingual

Messaging

**Proprietary** 

www.gsma

/futurenetworks

/rcs/ (https://w

ww.gsma.com/f

uturenetworks/

software

.com

rcs/)

Mobile

Instant

- **Operating system**