

A close-up, high-angle shot of a clock face. The numbers 10, 11, and 12 are visible in a serif font. A red hand is pointing towards the 12, and a black hand is also visible. The background is a light gray.

Act now to implement RCS

What is RCS?

The commercial specification for RCS was designed and specified by leading global operators based on clear market requirements and a deep understanding gathered from previous and service based trials about what works and doesn't work – in essence RCS is built by the industry for the industry. Native to the device – 'it's just there' – it gives users access to enriched services quickly and easily, simply by selecting from the multimedia capabilities in chat, file share or video share that are shown for each of their contacts – 'it just works'.

What is joyn?

joyn is the consumer brand for the range of RCS IP communications services being offered by many mobile network operators to their customers. The joyn feature set expands as additional functionality is brought into the corresponding RCS specification.

The first release of joyn is based on RCS specification V1.2.2 and is complemented by the [joyn User Experience guidelines](#) and includes one to one chat (instant messaging), group chat, file sharing and video sharing services. The second release of joyn, ("Blackbird" release) is an evolution which incorporates a selection of the features in the RCS 5.1V2.0 specification. The features and the user experience are defined in the [joyn Blackbird Product Definition Document](#) (PDD). The PDD includes guidance on user experience and technical implementation of RCS 5.1V2.0 for:

- Discovery and Activation
- Group Chat
- Integrated Messaging
- File Transfer
- Geo-location Push
- 1-2-1 Chat
- IP Voice call
- IP Video call
- Multi device support

The latest specification 5.1 V3.0 was published on 25th September. This release aligned on the latest version of the referenced industry standards (OMA CPM 2.0 and SIMPLE IM 2.0), and include bug fixes and clarifications to support deployment.

NB: The consumer brand is always 'joyn'. Release names such as 'Blackbird', 'Crane' etc. are industry names which are not presented to the customer.

RCS Specification

The RCS specification has been developed by the founding operators of the RCS project who have committed to launching the service, working together with leading infrastructure and device vendors.

V1.2.2

V1.2.2 specification was published as a maintenance release of Version 1.2 of the RCS specification, and includes only bug fixes/lessons-learnt based on recent V1.2.1 IOT efforts in preparation for commercial launches. The specification is supplemented by the [RCS Implementation Guidelines](#). Click [here](#) to download V1.2.2

5.1 V1.0

5.1 V1.0 is completely backward compatible with the V1.2 specifications and 5.0 and introduces additional new features such as Group Chat Store & Forward, File Transfer in Group Chat, File Transfer Store & Forward, and Best Effort Voice Call, as well as lessons-learnt and bug fixes from the V1.2 interoperability testing efforts. Global interoperability is a key aspect of these specifications, and 5.1 supports both OMA CPM and OMA SIMPLE IM.

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|------------------------|---------------------------|--|
| ▪ Standalone Messaging | ▪ Content Sharing | ▪ Geo-location Exchange |
| ▪ 1-2-1 Chat | ▪ Network based blacklist | ▪ Social Presence Information |
| ▪ Group Chat | ▪ IP Voice call | ▪ Capability Exchange based on Presence or SIP options |
| ▪ File Transfer | ▪ Best Effort Video call | |

5.1 V2.0

5.1 V2.0 introduced a number of incremental improvements and bug fixes to RCS 5.1 V1.0 that improve the user experience and resolve issues that were noticed in deployed RCS networks.

5.1 V3.0

5.1 V3.0 is aligned to the latest version of the referenced industry standards (OMA CPM 2.0 and SIMPLE IM 2.0), and includes bug fixes and clarifications to support deployment.

Incremental features, backwards compatible



Product Profile	Hot Fixes	Blackbird Drop 1	Blackbird Drop 2
Based on spec	RCS v1.2.2	RCS 5.1 v2.0	RCS 5.1 v2
Native devices	Available now	Q4 2013	Targeted for end Q2 2014
Contacts and capabilities	Capability Exchange	Auto provisioning over Wi-Fi	
		Auto provisioning for secondary devices	
		joyn included in Primary device set-up wizard	
Chat	One to One chat	One to One chat (with option to do converged or fully integrated messaging)	
	File Transfer with auto-accept	File Transfer Store & Forward	
	Group Chat with auto-accept	Group Chat Store & Forward	
		File Transfer in Group Chat (with store & forward)	
Content sharing	In-call sharing (image and video) during a CS voice call	Improved video orientation	In-call sharing (image and video) during a VoIP call
			Geolocation
			Show us on a map
			vCard exchange
Voice and Video			VoIP (End to end and VoIP to CS)
			IP Video call
Enablers			