The Rich Communication Suite (RCS) messaging technology offers feature-rich messaging capabilities needed to reduce user churn as well as protect and improve ARPU. It is important for carriers to select the correct RCS partner for implementing this technology.

While messaging communication by carriers remains the preferred and most reliable way for consumers to exchange messages, Over-the-Top applications have increasingly become more dominant. RCS is the solution to combat these over-the-top applications.

The Infinite Convergence messaging platforms, designed for the next generation messaging solutions, provide an architecture that is efficient, reliable, scalable and highly available.

The solution supports geographic redundancy, zero down-time during upgrades, and the ability to utilize all nodes as though they were a single, distributed application.

The solution is compliant with GSMA’s RCS-e and RCS 5.1 specifications, and supports both OMA SIMPLE and OMA CPM based clients.

THE INFINITE CONVERGENCE GSMA ACCREDITED RCS SOLUTION SEAMLESSLY INTEGRATES IP-BASED SERVICES ACROSS A WIDE RANGE OF MOBILE DEVICES. WITH SUPPORT FOR LEGACY SMS/MMS INTERWORKING, THE RCS SOLUTION EXTENDS THE REACH OF THESE SERVICES TO ALL SUBSCRIBERS. THE SPEED, RELIABILITY AND FEATURE CAPABILITIES OF INFINITE’S RCS SOLUTION ENABLES THE OPERATOR TO PROVIDE INNOVATIVE USER EXPERIENCES ON A WIDE VARIETY OF END DEVICES, THUS PROMOTING LOYALTY AND INCREASING ARPU.
Infinite’s RCS Solution is scalable from thousands of subscribers to hundreds of millions of subscribers and can be deployed as a hosted service or an in-network solution; including standalone and redundant configurations.

The Infinite RCS suite of products includes the RCS Application Server, Presence Server, and Message Storage Server. All Infinite products are highly scalable to be deployed anywhere from regional operators to Tier 1 operators. The complete RCS solution supports an internal subscriber database as well as accessing a remote LDAP subscriber database, ENUM Servers (for Number Portability), Ad Servers (Ad insertion), Prepaid Servers, Lawful Intercept Servers, MMS Servers, SMS Servers, Backup Servers, NOC, and other standard network components.

The RCS suite of products supports both IPv4 and IPv6 communications for all call processing (messaging) interfaces.

The Infinite Convergence RCS Solution can be deployed in all networks using any air interface technology including IMS, WiFi, LTE, CDMA, TDMA, GSM, GPRS, UMTS, and EVDO.

**RCS IN THE NETWORK**
When deployed with a full IMS Core infrastructure, the RCS Solution functions as an Application Server (AS) in the IMS network.

**RCS IN THE CLOUD**
Infinite’s RCS in the Cloud allows the carrier to deploy next generation RCS messaging experiences while optimizing CAPEX and OPEX.

**RCS IN A BOX**
Can be deployed without an IMS Core or in conjunction with an IMS Core (all devices can register directly with RCS Server).

**OPERATIONS, ADMINISTRATION, MAINTENANCE & PROVISIONING (OAMP)**
The Infinite products’ common user interface architecture streamlines the OAMP capabilities with a sophisticated web based user interface that makes it easy for the operator to diagnose operational problems, monitor long term trends, and engineer the mobile messaging service for growth. All of Infinite’s solutions include extensive logging, statistics and reporting capabilities.
Pager Mode
Allows the transport of short text messaging in IMS networks similar to SMS messaging.

RCS API
Allows the development community to create new applications leveraging the strength of RCS.

RCS Chat
Allows users to establish an IM Session and exchange messages in near real time. Supports transport of both text and multimedia during a chat session.

Presence Server
Makes a user's status and capabilities available to others and is a key enabling technology for Instant Messaging Service.

Capability Discovery (via SIP OPTIONS/ Presence Server)
Allows clients to query capabilities (discovery) and take an action as to how / if the messaging is to be sent.

Store and Forward for Chat
Supports Store & Forward for RCS Chat messages. Chat messages for subscribers that did not initially accept the Chat invite will be saved in an attempt to deliver them when the subscriber becomes available.

Prepaid
Supports prepaid interfaces. Prepaid billing can be performed for message originations and/or message terminations.

Statistics & Reporting
Provides statistics to the operator via the graphical web based interface, an interactive command line, or an automated bulk export.

Message Storage (Optional)
Supports external Message Storage Server allowing for long term storage and message sync between devices.

Remote Access to User Subscription Information
Supports using an external LDAP subscriber database. The RCS Application Server supports active/standby database configurations and database partitions based on MDN ranges.

Messaging using Broadband Access
Supports sending and delivering RCS as well as SMS/MMS messages to IP-based broadband access devices (Internet including Wifi).

Disposition Notifications
Supports delivery and display reports for RCS chat and stand-alone messaging.

Geo-Location, Vcard
Supports sharing location and contact information.

Progressive File Transfer
Used to transfer files that are larger than what is supported in standard messaging (up to 4GB). This feature is available for both 1-to-1 and group transfers. In this mode, the file is transferred in chunks that are small enough for mobile clients to handle.

RCS IP Voice & Video
Supports IP Voice and Video between RCS devices.

Security
Provides transport level security as well as role based access control for operating the system.

Billing
Provides flexible billing capabilities by allowing the operator to provision the types of Call Detail Records (CDRs) that are generated.
About Infinite Convergence Solutions:

Incorporated in 2010, Infinite Convergence is a subsidiary of Infinite Computer Solutions LTD. With quality and reliability from our technology roots in Motorola, combined with the agility and innovation expected from a modern company, Infinite Convergence provides state of the art, highly available, and highly reliable messaging services supporting the messaging needs of Enterprises and Cellular Service Providers (CSPs) worldwide.

Infinite Convergence provides a complete messaging product portfolio that includes:

• Rich Communication Suite (RCS)
• Enterprise Messaging Service (EMS)
• Multimedia Messaging Service Center (MMSC)
• Short Messaging Service Center (SMSC)
• Short Messaging Service Gateway (SMSGW)
• Public Safety Multimedia Messaging Server (PSMM)
• Personal Messaging Cloud (PMC)

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