

ALCATEL-LUCENT SOCIAL COMMUNICATIONS RELEASE 6.1

Compliant with GSMA Rich Communications recommendations (RCS and RCS-e), Alcatel-Lucent Social Communications provides tools for the consumer and enterprise markets to enable people to effortlessly connect, communicate and share within and outside their social graph with privacy and trust.



The demand for social communications is stronger than ever, the networks are in place, devices are smarter, and there is an ever-expanding set of applications that provide communications capabilities.

As service providers move to IP, it is critical to offer subscribers a compelling new social conversation experience. Alcatel-Lucent offers a core set of capabilities based on the GSMA Rich Communications recommendations (RCS and RCS-e), with differentiating capabilities that make communication easier, more social, integrated and relevant.

Alcatel-Lucent has created a social communications framework that allows a better user experience, embraces social communities and introduces innovative ways for consumers and enterprises to communicate.

Alcatel-Lucent Social Communications gathers enablers from three products: Alcatel-Lucent Multimedia Instant Messaging (MMIM), Alcatel-Lucent Presence Server/XDM Server (PS/XDMS) and Alcatel-Lucent Unified Message Center (UMC).

MMIM provides service providers with the means for a successful joyn service launch with a full-featured, real-time chat system that complies with GSMA Rich Communications recommendations and also supports file transfer, store and forward, and message notification.

PS/XDMS aggregates and delivers real-time presence information about user availability, service capability and social presence for associated contacts across networks for both consumer and enterprise applications.

UMC acts as a 3GPP™-compliant IP Short Message Gateway (IP SM Gateway) for transport and service-level interworking specifications to allow Short Message Service (SMS) delivery over an IP Multimedia Subsystem/Long Term Evolution (IMS/LTE) network.

Social Communications assets can be expanded through hosted Unified Communications (UC) where a single platform can serve multiple enterprises (multitenancy), thereby lowering the operator's total cost of ownership (TCO).

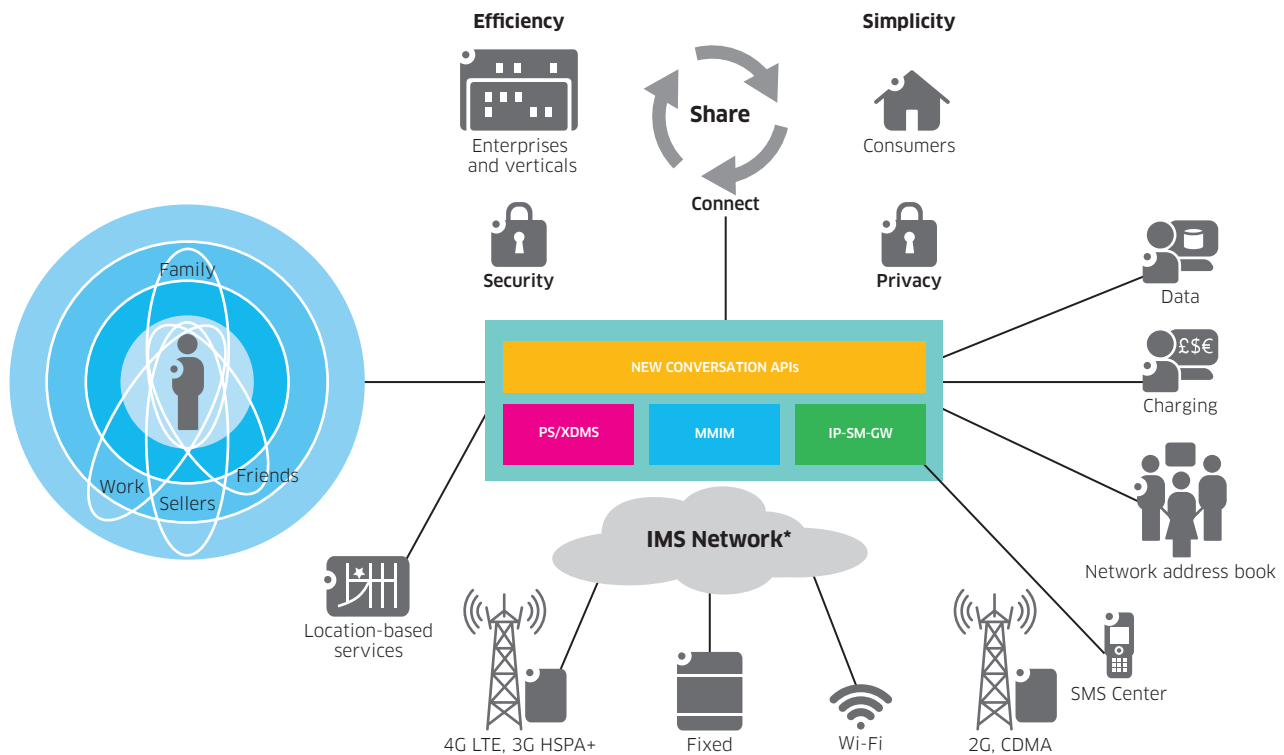
Social Communications adds value to leading Alcatel-Lucent Advanced Communications Solutions to address consumers and enterprises and is also consistent with Alcatel-Lucent New Conversation APIs to create new business model opportunities.

To date, Social Communications enliven over six millions consumer and enterprise user experiences thru social presence, messaging continuity and several RCS/RCS-e trials (including New Conversation APIs).

FEATURES

- Highly scalable, multitenant and carrier-grade Rich Communications-compliant platform with guaranteed interoperability testing (IOT)
- RCS and RCS-e-compliant, real-time chat system that also supports file transfer, store and forward, and messages notification
- Rich content: Social presence, multiple service discovery capabilities, avatars, location (including a location Presence Network Agent [PNA]), permanent content and devices description

Figure 1. High-level network design of Alcatel-Lucent Social Communications



* Alcatel-Lucent or third-party IMS Communications Core

- SMS continuity from legacy networks to LTE, including existing applications built over SMS such as over-the-air activation, voting and application to person (A2P)
- Addresses verticals through New Conversation APIs for an innovative, personalized and unique experience

BENEFITS

- Enables RCS-e (joyn) service to sustain average revenue per user (ARPU) and monetize data plans through a cross-carrier social messaging offering
- Contributes to IMS/LTE communications adoption with services discovery capabilities
- Socializes the address book with presence as an anchoring point for all consumer and enterprise communications
- Bridges legacy messaging assets to the newer IMS or LTE networks smoothly
- Enables an easy evolution from a consumer to enterprise deployment
- Consistent with Alcatel-Lucent New Conversation Experience assets, including New Conversation APIs

TECHNICAL SPECIFICATIONS

HP™ ProLiant DL380 Server

- Dual Hex-Core Intel® Xeon® processors
- 2U density

Largest configuration

- HP rack mount server cabinet
 - Up to 10 HP ProLiant DL380 Servers per cabinet
- 2 LAN IP switches: Alcatel-Lucent OmniSwitch™ 6850 Stackable LAN Switch

Smallest configuration

- Cabinet provided by service provider
 - 2 HP ProLiant DL380 Servers
 - Service provider LAN

Standards compliance

- GSMA Rich Communication Suite – Functional and Technical Descriptions – Release 2 & 3
- GSMA Rich Communication Suite – Enhanced (RCS-e) version 1.2.x
- Open Mobile Alliance (OMA) specifications

- IETF SIP/SIMPLE and XMPP RFC and Internet-Drafts
- 3GPP R9 23.204, 24.341, 29.311 Compliant IP SM Gateway

Network interfaces and protocols

- Serving Call Session Control Function (S-CSCF): SIP
- Session Border Controller (SBC) for data plan: Message Session Relay Protocol (MSRP)
- Mobile Switching Center (MSC) and Home Location Register (HLR): GSM MAP SIGTRAN
- Short Message Service Center (SMSC): GSM MAP
- Multimedia Messaging Service Center (MMSC): MM4
- Interoperability with other messaging systems:
 - Short Message Peer-to-Peer Protocol (SMPP)
 - Extensible Messaging and Presence Protocol (XMPP)
- Home Subscriber Server (HSS): Diameter Sh interface
- OA&M system: Simple Network Management Protocol (SNMP) and HTTP(S)
- Web exposure: REST API (trial grade) for presence and instant messaging