

# Introduction

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Restcomm SMSC is an Open Source Java based SMSC Gateway built on a modern extensible middleware platform. Restcomm SMSC enables operators to provide core SMSC features like mobile subscriber to subscriber SMS messaging, broadcasting campaigns and group messaging [1: Group Messaging can be achieved using RestComm. For more details please contact [info@telestax.com](mailto:info@telestax.com).] between subscribers. In addition it also enables value added services through integration with OTT social networks and microblogs such as Facebook and Twitter.

Restcomm SMSC is an easy-to-install and easy-to-deploy platform that can be set up and configured very quickly. Since it is built on a modern and extensible JSLEE platform it automatically provides out-of-the-box integration with various communication protocols such as SIP, Diameter, HTTP, XCAP, XMPP, MGCP and others in addition to the base SMPP protocol for connectivity to ESMES.

Restcomm SMSC stores messages using Cassandra database. The database is used for storing unsent messages, messages successfully sent and messages that failed to be sent.

Restcomm SMSC is cloud-ready. It can be deployed on dedicated hardware, private cloud infrastructure or public IaaS such as AWS. Restcomm SMSC supports TDM hardware offered by major vendors in the market, namely Intel family boards (Dialogic) and Zaptel/Dahdi (Digium, Sangoma). TeleStax also has in-house SS7 cards also known as RestComm SS7 Cards. RestComm SS7 cards have MTP2/3 support on-board and therefore the processing load on the server hosting the Restcomm SMSC platform will be low when you use these SS7 cards.

A single Restcomm SMSC node can process up to 1000 SMS/sec. Multiple SMSC nodes can be arranged in a cluster across one or more geographically distributed data centers to scale up throughput and provide various levels of redundancy, high availability and fault tolerance.

Restcomm SMSC is based on the robust and proven Restcomm JAIN SLEE 1.1 Server and Restcomm jSS7 Stack. Restcomm JAIN SLEE Server is a highly scalable event-driven application server with a robust component model and fault tolerant execution environment. It provides a set of connectors to a variety of networks elements: SS7 MAP, CAP, INAP, TCAP, ISUP, SMPP, XMPP, SIP, MGCP, HTTP, XDM, XCAP, Diameter and many others. It is fully compliant with JSR 240 (JSLEE 1.1). Restcomm jSS7 is a software based implementation of the SS7 protocol. It provides implementation for Level 2 and above in the SS7 protocol Stack. Restcomm jSS7 Stack User Guide is bundled within and you can refer to the guide for more details on the Stack.

This guide will assist you in installing Restcomm SMSC . For more details on configuring and using the platform, please refer to the Restcomm SMSC Admin Guide.