Downloading and Installing

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Installing Restcomm SMSC is easy and quick with the binary download. You can either download the binary release or download the source code and set up from source.

Binary Download and Installation

The binary release is available for download at TeleStax Customer Support Portal &THIS.RELEASE_BINARY_URL;link:

Procedure: Binary Download and Installation

1. Download the zip file `<filename>` to any folder of your choice.

2. Extract the contents of the zip file.

   ```
   Downloads]$ unzip <filename>
   ```

3. Verify the contents of the newly created directory.

Directory Structure

When you download the binary release, you will notice that the top level directory is named `mobicents-smscgateway-<version>` and immediately below this are five sub-directories as explained below:

- cassandra: Contains description of the Cassandra database tables' structure.

- docs: Contains all relevant documentation in respective subfolders.

- jboss-5.1.0.GA: The core server with two profiles "default" and "simulator". The "default" profile is a clean profile where you will have to start from scratch and configure the entire SS7 Stack and SMSC Gateway. The "simulator" profile is a pre-configured profile to work with jss7-simulator. Refer to the Admin Guide for instructions on how to start the server in either of the profiles.

- resources: Contains SLEE MAP RA jars.

- tools: Contains SLEE tools and SMSC test tools as explained below.

  - RestComm-hlr-simulator: Command line HLR simulator used for load testing of SMSC. RestComm-hlr-simulator is pre-configured to integrate with SMSC run in simulator profile.

  - RestComm-jss7-simulator: jSS7 Simulator that can be run in GUI or command line mode. This tool is useful to test `MoForwardSM` and other such functionality of SMSC like "when subscriber absent", etc. For more details on using this tool, please refer to RestComm SS7Stack User Guide. RestComm-jss7-simulator is pre-configured to integrate with SMSC run in simulator profile.

  - RestComm-smpp-load: smpp-load tool is a Command line simulator to generate SMPP load. You must have `ant` installed to be able to run this tool. The smpp-load tool can be started to run as a SMPP Server accepting in-coming connection (BIND) from Restcomm SMSC or run

as a SMPP Client to send BIND to Restcomm SMSC . You can confiugre this tool by editing the *build.xml* to define how many SMPP connections should be initiated, what kind of load should be generated, etc.

- RestComm-smpp-simulator: smpp-simulator is a GUI tool to generate SMPP load. It can only initiate BIND and act as a SMPP Client. You can also use it to test other functionalities like `UCS2`, breaking `SUBMIT_SM` into multiple SMS etc.

```
|- mobicents-smsc-<version>
       |- cassandra
       |- docs
              |+ container
              |+ jss7
              |+ management-hq
              |+ resources
              |+ slee
              |+ smsc
              |+ tools
       |- jboss-5.1.0.GA
              |+ bin    //contains start up and shutdown scripts for the Server.
              |+ client
              |+ common
              |+ docs
              |+ lib
              |- server
                 |+ default  //clean profile to set up from scratch
                 |+ simulator    //pre-configured profile to work with the jss7-
simulator
       |- resources
              |+ diameter-base
              |+ diameter-ro
              |+ map
              |+ sip11
       |- tools
              |+ eclipslee
              |+ jopr-plugin
              |+ remote-slee-connection
              |+ snmp
              |+ RestComm-hlr-simulator
              |+ RestComm-jss7-simulator
              |+ RestComm-smpp-load
              |+ RestComm-smpp-simulator
              |+ twiddle
```

Setup from Source

Restcomm SMSC is an open source project and you have the freedom to build from source. Building from source means you can stay on top with the latest features. Whilst aspects of Restcomm SMSC

are quite complicated, you may find ways to become contributors.

Restcomm SMSC works with JDK1.7 or above. In addition you must have the following tools installed.

- `Git Client` : Instructions for using GIT, including install, can be found at http://git-scm.com/book

- `Maven 3.2.X` : Instructions for using Maven, including install, can be found at http://maven.apache.org/

- `Ant 1.9.X` : Instructions for using Ant, including install, can be found at http://ant.apache.org

Release Source Code Building

1. Downloading the source code

   Use GIT to checkout a specific release source, the base URL is https://github.com/Restcomm/smscgateway, then add the specific release version.

   ```
   [usr]$ git clone https://userid@bitbucket.org/telestax/restcomm-smscgateway.git
   [usr]$ cd restcomm-smscgateway
   [usr]$ git checkout <version>
   ```

2. Building the source code

   Now that we have the source the next step is to build and install the source. Restcomm SMSC uses Maven 2 to build the system. You must ensure that `JAVA_HOME` environment variable is set properly prior to building the source.

   ```
   [usr]$ mvn clean install
   ```

Development Trunk Source Building

Similar process as for Release Source Code Building, the only change is don't switch to specific tag.