

# Forum: [Hack Forums](#)

Thread: [Ss7 Tools](#)

Clumsy - October 23, 2025, 7:21 am

SS7 Connectivity, Gateways, and Monitoring  
RestComm SS7 Components

Restcomm Connect: <https://github.com/RestComm/Restcomm-Connect>  
jss7 (SS7 Java Stack): <https://github.com/RestComm/jss7>  
fep (Front End Processor for SS7): <https://github.com/RestComm/fep>  
jain-slee.ss7 (JAIN SLEE SS7 Integration): <https://github.com/RestComm/jain-slee.ss7>  
load-balancer (SS7 Load Balancer): <https://github.com/RestComm/load-balancer>  
USSD Gateway (for interactive messaging over SS7): <https://github.com/RestComm/ussdgateway>

Osmocom Components (for SS7, SIGTRAN signaling, and gateways)

libosmocore (Osmocom Core Libraries): <https://git.osmocom.org/libosmocore>  
libosmo-sccp (SCCP over IP for routing SS7 messages): <https://git.osmocom.org/libosmo-sccp>  
libosmo-sigtran (SS7 over IP SIGTRAN): <https://git.osmocom.org/libosmo-sigtran>  
osmo-stp (Signal Transfer Point for SS7 routing): <https://git.osmocom.org/osmo-stp>  
osmo-msc (Mobile Switching Center): <https://git.osmocom.org/osmo-msc>  
osmo-hlr (Home Location Register for subscriber information): <https://git.osmocom.org/osmo-hlr>  
osmo-iuh (IuCS/IuPS interface for UMTS systems): <https://git.osmocom.org/osmo-iuh>  
osmo-mgw (Media Gateway): <https://git.osmocom.org/osmo-mgw>  
osmo-ggsn (Gateway GPRS Support Node): <https://git.osmocom.org/osmo-ggsn>  
osmo-sgsn (Serving GPRS Support Node): <https://git.osmocom.org/osmo-sgsn>  
osmo-bsc (Base Station Controller): <https://git.osmocom.org/osmo-bsc>

Additional SS7 Stacks and Libraries

OpenSS7 (Comprehensive open-source SS7, SIGTRAN, ISDN, and VoIP stack for Linux/UNIX):  
<https://github.com/openss7/openss7>  
corsac-jss7 (Asynchronous Java SS7 Stack with M3UA, SCCP, TCAP, CAMEL, INAP, MAP, ISUP):  
<https://github.com/mobius-software-ltd/corsac-jss7>  
Extended-jSS7 (Extended open-source Java SS7 stack for legacy network communication):  
<https://github.com/PAiC-team/Extended-jSS7>  
ulibgsmmap (SS7 GSM MAP library based on ulib for SS7 stack layer 6):  
<https://github.com/andreasfink/ulibgsmmap>  
osmo\_ss7 (Osmocom SS7 stack with Shadytel modifications):  
[https://github.com/Shadytel/osmo\\_ss7](https://github.com/Shadytel/osmo_ss7)  
pmink (Project MINK for mobile network operator interconnection with SS7/SIGTRAN support):  
<https://github.com/dfranusic/pmink>

SIGTRAN Protocol Implementations (M3UA, SCCP, TCAP, etc.)

m3ua (SIGTRAN M3UA Protocol Stack for SS7 MTP3-User over IP):  
<https://github.com/sigscale/m3ua>  
go-m3ua (Pure Go implementation of M3UA for SS7 over IP): <https://github.com/wmnsk/go-m3ua>  
go-sccp (Pure Go implementation of SCCP for SS7/SIGTRAN stack):

<https://github.com/wmnsk/go-sccp>

sccp (Signaling Connection Control Part implementation for SS7): <https://github.com/sigscale/sccp>  
sigtran (Java-based SIGTRAN stack implementation): <https://github.com/biddyweb/sigtran>  
libtcap (Library for extracting fields from SIGTRAN TCAP/INAP messages):  
<https://github.com/sipwise/libtcap>

## SS7 Security and Penetration Testing Tools

ss7MAPer (SS7 Attack and Penetration Testing Tool): <https://github.com/ernw/ss7MAPer>

SigPloit (SS7, GTP, and Diameter attack simulation framework):

<https://github.com/SigPloiter/SigPloit>

jss7-attack-simulator (SS7 attack simulator based on RestComm jss7):

<https://github.com/polarking/jss7-attack-simulator>

safeseven (SS7 Assessment Tool for vulnerability scanning):

<https://github.com/akibsayyed/safeseven>

ss7-arsenal (Collection of SS7 tools and scripts for testing and analysis):

<https://github.com/0x90/ss7-arsenal>

Ss7 (Setup scripts for SS7 and SIGTRAN adaptation environments):

<https://github.com/SleepTheGod/Ss7>

SS7-Vulnerability-Research-and-Tutorial (Research on SS7 vulnerabilities, attacks, and mitigation):

<https://github.com/simplerhacking/SS7-Vulnerability-Research-and-Tutorial>

pwnss7 (Toolset for detecting and demonstrating SIGTRAN vulnerabilities, including M3UA/SCCP/TCAP/MAP): <https://github.com/orangecertcc/pwnss7>

M3UAScan (Scanner for M3UA protocol to detect SIGTRAN-supporting nodes):

<https://github.com/SigPloiter/M3UAScan>

m3ua-testtool (M3UA test tool with conformance tests for RFC 4666 and ETSI specs):

<https://github.com/nplab/m3ua-testtool>

## SS7 Firewalls and Monitoring Rules

SigFW (Open-source SS7/Diameter firewall): <https://github.com/P1sec/SigFW>

ss7-firewall-rule-mining (Simulation code for anomaly detection and rule mining in SS7 networks):

<https://github.com/TimKam/ss7-firewall-rule-mining>

## SIP/VoIP Gateways and Monitoring

Kamailio SIP Server (SIP routing and handling): <https://github.com/kamailio/kamailio>

SIPp (SIP Traffic Generator and Analyzer): <https://github.com/SIPp/sipp>

Homer (SIP/VoIP Monitoring System): <https://github.com/sipcapture/homer>

sngrep (SIP Messages Analyzer for real-time monitoring): <https://github.com/irontec/sngrep>

## SMS Gateways and SMSC Connectivity

Kannel (Open-Source WAP and SMS Gateway): <https://github.com/kannel/kannel>

Jasmin (Open-source SMS Gateway for message routing): <https://github.com/jookies/jasmin>

SMSC Simulator (for testing SMSC connectivity): <https://github.com/rashmisahay/SMSC-Simulator>

## Telecom Traffic Monitoring and Analysis

Wireshark (Network Traffic Analyzer for SS7, SIP, SIGTRAN, and other protocols):

<https://github.com/wireshark/wireshark>

OpenGGSN (GPRS Gateway Support Node for GPRS/3G networks):

<https://github.com/osmocom/openggsn>

OsmoSGSN (Serving GPRS Support Node for GPRS/EDGE networks):

<https://github.com/osmocom/osmo-sgsn>

sng\_ss7mon (SS7 message monitoring application on Sangoma TDM API):

[https://github.com/moises-silva/sng\\_ss7mon](https://github.com/moises-silva/sng_ss7mon)

Asterisk and SCCP Integration (for Cisco Skinny Protocol Support)

chan-sccp (Replacement SCCP channel driver for Asterisk with extended features):

<https://github.com/chan-sccp/chan-sccp>

sccp\_manager (SCCP Manager for administering SCCP extensions and Cisco phones):

[https://github.com/chan-sccp/sccp\\_manager](https://github.com/chan-sccp/sccp_manager)

provision\_sccp (Provisioning tool for SCCP/Skinny phones with Cisco firmware):

[https://github.com/dkgroot/provision\\_sccp](https://github.com/dkgroot/provision_sccp)

Automation Scripts and Dashboards

Ansible Osmocom (Automation playbooks for setting up Osmocom GSM networks):

<https://github.com/danielwojt/ansible-osmocom>

Telecom Monitoring Dashboard (custom open-source dashboards to monitor SS7, SIP, and other telecom traffic): [Any custom dashboard, depending on the environment; integrate with tools like Homer or Wireshark plugins]