

Forum:[Hack Forums](#)

Thread: [Common Ss7 tools use at your own risk](#)

Clumsy - October 19, 2025, 10:57 pm

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>

Osmocom Components (for SS7, SIGTRAN signaling, and gateway):

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>

SS7MAPer (SS7 Attack and Penetration Testing):

ss7MAPer: <https://github.com/ernw/ss7MAPer>

SIPNODE Gateway and SIP/VoIP Monitoring

Kamailio SIP Server (SIPNODE handling and routing):

Kamailio SIP Server: <https://github.com/kamailio/kamailio>

SIPp (SIP Traffic Generator and Analyzer for testing SIP):

SIPp: <https://github.com/SIPp/sipp>

Homer (SIP/VoIP Monitoring System):

Homer: <https://github.com/sipcapture/homer>

SMS Gateways and SMSC Connectivity

Kannel (Open-Source WAP and SMS Gateway):

Kannel: <https://github.com/kannel/kannel>

Jasmin (Open-source SMS Gateway for message routing):

Jasmin SMS Gateway: <https://github.com/jookies/jasmin>

SMSC Simulator (for testing SMSC connectivity):

SMSC Simulator: <https://github.com/rashmisahay/SMSC-Simulator>

Telecom Traffic Monitoring and Analysis

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

Wireshark: <https://github.com/wireshark/wireshark>
sngrep (SIP Messages Analyzer):

sngrep: <https://github.com/irontec/sngrep>
OpenGGSN (GPRS Gateway Support Node for GPRS/3G networks):

OpenGGSN: <https://github.com/osmocom/opensgsn>
OsmoSGSN (Serving GPRS Support Node for GPRS/EDGE networks):

OsmoSGSN: <https://github.com/osmocom/osmo-sgsn>
Automation Scripts
Ansible Osmocom (Automation playbooks for setting up Osmocom GSM networks):

Ansible Osmocom: <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]
Tools for Traffic Monitoring and SS7 Security
ss7MAPer (Security testing and monitoring):

ss7MAPer: <https://github.com/ernw/ss7MAPer>
SigPloit (SS7, GTP, and Diameter attacks simulation):

SigPloit: <https://github.com/SigPloiter/SigPloit>
This list includes all essential GitHub repositories and packages to cover SS7, SIGTRAN, SIP, and SMSC network connectivity, mobile communications, and traffic monitoring across gateways, front-end, back-end, and security layers.