

SMG-SS7 Cheatsheet

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Important Configuration Files	Description
/etc/wanpipe/wanpipeX.conf	Physical Layer Port Configuration
/etc/wanpipe/wanrouter.rc	Wanrouter options
/etc/ss7box/ss7box.conf	SS7boxd Configuration file
/etc/ss7box/ss7boost.conf	SS7boost Configuration file
/etc/sangoma_mgd.conf	sangoma_mgd configuration file
/etc/dahdi/system.conf	Dahdi Configuration File
/etc/asterisk/chan_dahdi.conf	Chan_Dahdi Configuration file
/etc/asterisk/extensions.conf	Asterisk Dialplan
/etc/asterisk/woomera.conf	Chan_woomera Configuration File
/etc/asterisk/sip.conf	Chan_SIP configuration File
/etc/asterisk/iax.conf	Chan_lax configuration File
/etc/asterisk/logger.conf	Asterisk Logger Configuration File
Important Log Files	Description
/var/log/messages	System log file...SS7boxd and SS7boost log here
/var/log/sangoma_mgd.log	Sangoma_mgd log file
/usr/local/ss7box/msu.log	SS7boxd logs MSUs here
/var/log/asterisk/messages	Simple Asterisk log file
/var/log/asterisk/full	Advanced Asterisk log file
Starting the SMG-SS7 Suite	Description
/usr/local/ss7box/ss7boxd	Starts SS7boxd....also starts Wanpipes with Signaling Links
wanrouter start	Starts the voice only Wanpipes
smg_ctrl start	Starts SMG and ss7boost
asterisk	Starts Asterisk
asterisk -r	Connects to local Asterisk instance
Stopping the SMG-SS7 Suite	Description
smg_ctrl stop	Stops SMG and SS7boost
killall ss7boxd	Stops SS7boxd
wanrouter stop all	Stops all Wanpipes
Monitoring Commands	Description
tail -f /var/log/messages	display the last 10 lines of a file and append when newlines are added
tail -n 100 /var/log/messages	display only the last 100 lines of /var/log/messages
watch -n 1 ifconfig	display the output of ifconfig and update it every 1 second
grep -i "suerm" /var/log/messages	search for and display any lines contain "suerm" in an case in /var/log/messages
vmstat 1	display system load information and update every 1 second
Asterisk Commands	Description
exit	Exit out of Asterisk CLI
stop now	Stop the current instance of Asterisk
core set verbose 10	Set the Asterisk CLI verbosity to level 10 (default is 3)
core show channels	Show all current active channels
sip show peers	Show all configured SIP accounts
iax2 show peers	Show all configured IAX accounts

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General Debug	Description
lspci	Show the devices attached to the PCI/PCIe bus recognized by the BIOS
wanrouter hwprobe	Show the Sangoma Hardware recognized by the current Wanpipe driver

MTP1 Debug Commands	Description
wanrouter status	Shows the status of the Wanpipes
ifconfig	Shows the status of the network interfaces
wanpipemon -l w1g1 -c Ta	Shows the status of the T1/E1 line Alarms

MTP2 Debug Commands	Description
wanpipemon -l w1g1 -c tr	Raw trace of all data on w1g1
wanpipemon -l w1g1 -c trd	Hex trace of MSUs on w1g1
wanpipemon -l w1g1 -mtp2_all -c trd	Hex trace of all SS7 signaling units on w1g1
wanpipemon -l w1g1 -rx -c trd	Hex trace of incoming MSUs on w1g1
wanpipemon -l w1g1 -tx -c trd	Hex trace of outgoing MSUs on w1g1
wanpipemon -l w1g1 -diff -mtp2_all -c trd	Hex trace of all SS7 signaling units if last unit was different on w1g1
wanpipemon -l w1g1 -7bit-hdlc -c trd	Hex trace of MSUs on w1g1 using a 7bit HDLC Engine
wanpipemon -i w1g1 -pcap -pcap_file mtp2.pcap -mtp2-msu -prot MTP2 -full -systime -c trd	PCAP capture of all MSUs
wanpipemon -i w1g1 -pcap -pcap_file mtp2.pcap -prot MTP2 -full -systime -c trd	PCAP capture of all FISU, LSSU and MSU

MTP3 Debug Commands	Description
/usr/local/ss7box/ss7box_cli --showmsu on	Turns on MSU capture inside of ss7boxd to msu.log
/usr/local/ss7box/ss7box_cli --showmsu off	Turns off MSU capture inside of ss7boxd

ISUP Debug Commands	Description
/usr/local/ss7box/vb.sh on 1	Turns on verbose logging to call signaling in ss7boost to /var/log/messages
/usr/local/ss7box/vb.sh off 1	Turns off verbose logging to call signaling in ss7boost to /var/log/messages
/usr/local/cr.sh all	Reports the status of all CICs on all spans
/usr/local/cr.sh 0	Reports the status of all CICs on span 0
/usr/local/cr.sh 0 3	Reports the status of CIC 3 on span 0

Chan_Woomera Commands	Description
woomera status	Show general information about all Woomera Profiles
woomera default version	Display version of Woomera Client and Woomera Server
woomera default call_status	Display Call status information from Woomera Client since start
woomera default debug 5	Increase the Woomera debug to 5
woomera default smgdebug 3	Increase the SMG debug to 3

Wanrouter Commands	Description
wanrouter start	Start the wanpipes that are listed in /etc/wanpipe/wanrouter.rc
wanrouter start wanpipe1	Start only Wanpipe1
wanrouter stop	Stop the wanpipes that are listed in /etc/wanpipe/wanrouter.rc
wanrouter stop wanpipe2	Stop only Wanpipe2
wanrouter restart	Stop and Start the wanpipe listed in /etc/wanpipe/wanrouter.rc
wanrouter version	Show the version of Wanpipe currently installed
wanrouter hwprobe	Show the Sangoma hardware currently supported by the Wanpipe drivers
wanrouter status	Show the status of the current running Wanpipes