VoIP DSP Release Notes

Model Name: Gateway

Release Date: 2014-12-26

Hardware Compatibility: RT63368/MT7511/MT7510/MT7525

System Compatibility: Linux Multi-thread, Kernel Version: 2.6.36.0

VoIP Version Number:

      VDSP Version: VDSP V 2.0.12.x (Nov 19 2014 14:09:09)

      PCM Version: PCM V2.2 (Dec 20 2013 17:01:17)

      SLIC Version: Zarlink2.22.0/Silab7.0.2

      Adam Version: 0.1.8(Nov 27 2014 18:14:32)

Version base:

      VDSP Version: VDSP V 2.0.12.x (Nov 19 2014 14:09:09)

      PCM Version: PCM V2.2 (Dec 20 2013 17:01:17)

      SLIC Version: Zarlink2.22.0/Silab7.0.2

      Adam Version: 0.1.7(Nov 19 2014 14:09:09)

DSP Feature List

Module	Feature	Note

Update Voip SDK Guide

There is two directories in VoIP SDK:voip and voip-2.6.36

Replace the Directory "apps/private/voip" with Directory "voip" in VoIP SDK

Replace the Directory "modules/private/voip_2.6.36" with Directory "voip_2.6.36" in VoIP SDK

Add adamStrmStopAll, used for releasing all streams on receipt of signals which may cause process exit, adam API users should add signal handler in user space application.

SLIC Selection and Configuration

SLIC Selection setting is configured in /etc/init.d/rcS

For Zarlink SLIC(for example: load le89156 slic):

insmod slic3.ko

insmod fxs3.ko slic1="le89156"

For SiliconLab SLIC(now only support Si32260):

insmod slic3_silicon.ko

insmod fxs3_silicon.ko slic1="si32260" slic2="si32260"

Default setting

```
cd /tmp
insmod sys_mod.ko
insmod pcm.ko
insmod lec.ko
insmod slic3.ko
insmod fxs3.ko slic1="le89156"    slic2="le89156_2"
insmod ksocket.ko
insmod ortp.ko
insmod acodec_x.ko
insmod foip.ko
insmod ovdsp.ko
insmod pcmDump.ko
cd /dev
mknod vdsp c 245 0
mknod slic c 251 0
taskset -p 0x8 `pidof ORTP_TASK`
taskset -p 0x8 `pidof fxs_task`
taskset -p 0x8 `pidof DSPProc`
taskset -p 0x8 `pidof DspUlTask`
taskset -p 0x8 `pidof DspDlTask`
echo 8 > /proc/irq/12/smp_affinity
echo 4 > /proc/irq/23/smp_affinity
echo 4 > /proc/irq/25/smp_affinity
```

Bug fixed

Item	Issue Description	Solution	Note
1	CID display feature does not work on ALCATEL E100 DUO telephone	Add "visual indicator" parameter to CID data structure. "visual indicator" and other parameters will not be in the same message.	SIP layer need to be modified accordingly.
2	System was crash as changing country code	Mircosemi SLIC IC 88601/89156	N/A
3	dspProc gets into DW state if user space layer process abnormally exit	Add signal handler to release rtp streams before process exit.	Signals include: SIGHUP SIGABRT SIGHUP SIGINT SIGTERM SIGQUIT SIGSEGV SIGFPE

Enhancement

Item	Feature Description	Detail Information	Note
1	Mircosemi SLIC IC Driver's VP-API-II update from 2.20.1 to 2.21.0 version.	Mircosemi SLIC IC 88601/89156	N/A
2	Support Line Test function with Mircosemi SLIC IC.	Mircosemi SLIC IC 88601/89156	N/A
3	Add on Siliconlab SLIC drivers	Si32176/32260	N/A
4	Add on G.722 VAD/CNG function	N/A	N/A
5	Add on G.723 Codec	N/A	N/A
6	Add on	N/A	N/A

	DTMF(RFC2833/Inband) done Detection		
7	Support polarity reverse in sliclab chip.	N/A	N/A
8	Support rtp loopback, support dsp loopback	Mircosemi SLIC IC 88601	N/A
9	In toneSetting.txt, the Voice templates have changed.	N/A	If you use toneSetting.txt,please pay attention to the changes.