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Case: 03908134

Case Number	03908134 [View Hierarchy]	**Account Name**	Wingtech Mobile Communications Co., Ltd.
Parent Case		**Contact Name**	zk zk
Customer Tracking Number		**Contact Email**	zk_sw@wingtech.com
Status	Customer Updated Case	**Contact Phone**	
Priority	1 - Critical	**Date/Time Opened**	3/5/2019 12:45 AM
Important to me	☐	**Date/Time Closed**	
Customer Project	T89239-AndroidO-Upgrade		
Expected Resolution Date			
Any CR Related To This Case	No		
Related CRs			
Feature Request	☐		

Customer Project or Hardware Configuration

Customer Project	T89239-AndroidO-Upgrade		
Chipset	MSM8917		
PM	None, Other, PMI8937, PMI8952 / PM8937		
Other PM IC			
Transceiver	None, Other / WTR2965	Power Amplifier/Module	Third Party, QFE2340, QFE4320, QPA4340, QPA4360 / None
Antenna Tuner	Third Party, QAT2514, QAT3514, QAT3514 (x2), QAT3514 (x3) / None	PA Power Management IC	Third Party, QFE2101 / None
Antenna Switch/Module	QSW6310, QSW8573, QSW8574 / None	LNA/Module	Other, None
		DRX Module	Other, None
		Antenna Switch Diversity	Other, None, QAT2522
		60Ghz (WiGig) IC/Module	
Other RF IC		Bluetooth IC/Module	WCN3615
WLAN IC/Module	WCN3615		
Summit DC/DC Converter		NFC IC/Module	No NFC

AMSS/DMSS Software

AMSS/DMSS Software	AMSS8917		
AMSS/DMSS Build ID	MSM8917.LA.3.1.2-00340-STD.PROD-1		
OS Version			
Official SBA Delivered	☐	Official SBA Delivery Date	

Brew Software

Brew Version	
BREW PEK Version	

TAM Comments

External TAM Comments

Problem Description Information

Subject 【P】【VTS】VtsHalSensorsV1_0Target模块测试fail

Description 【Issue Description】: 1. 测试VTS的VtsHalSensorsV1_0Target模块出现fail
【Failure Rate in %】: 100%
【Reproduce Step】: 进行VTS测试

【Initial Analysis】: 通过log没有看出什么异常，请帮忙看看
【Contact Name/Email/Phone】: 18251987979

Operating System		**Air-Interface Technology**	
Type of Lab Used			
Lab Region	China		
Lab	Shanghai Tejet Communications		
Case Type	Bug/Issue		
Problem Area 1	BSP/HLOS		
Problem Area 2	Drivers - Peripheral		
Problem Area 3	Sensors - AP		
Is this a Security Vulnerability?	☐		
Interoperability device			
Software Tool Problem?	☐		

Feature Request

Feature Name		**Desired Delivery Date**	
Feature Description		**Future Product**	
Justification		**CR Info**	
OEM/Target Equipment	SmartPhone		

Resolution Information

Customer Closing Comments

Case Team List

Case Team | Add Team Member | Add PreDefined Case Team

No records to display

Service Task

Service Tasks

No record(s) to display

Contact Information

Name	zk zk		
Account Name	Wingtech Mobile Communications Co., Ltd.	**Customer Number**	163692
Company Name	Wingtech Mobile Communications Co., Ltd.	**Contact Number**	3507942
Division Name		**Email**	zk_sw@wingtech.com
Contact Office Country	China	**Created By**	tibco provision, 2/8/2018 7:19 PM
		Start Date	2/9/2018 3:16 AM
		End Date	
		Contact Export Flag	

System Information

Contact Owner	tibco provision	**Last Modified By**	tibco provision, 1/4/2019 12:42 AM

NEW Case Attachments

diag_log_20190319_1403101552975390308.isf

Description	**lsf**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/19/2019 1:23 AM**
File Size	**7.673 MB**
Created Date	**3/19/2019**
Visible to Customer	✓

new sensor log-0319.tar.gz

Description	**new log**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/18/2019 11:21 PM**
File Size	**1.772 MB**
Created Date	**3/18/2019**
Visible to Customer	✓

diag_log_20190226_0617091551161829130.isf

Description	**isf**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/14/2019 11:14 PM**
File Size	**8.631 MB**
Created Date	**3/14/2019**
Visible to Customer	✓

vts-sensor-0314.tar.gz

Description	**vts test qxdm & ap log**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/14/2019 2:05 AM**
File Size	**3.494 MB**
Created Date	**3/14/2019**
Visible to Customer	✓

lsm6ds3.tar.gz

Description	**driver&config**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/12/2019 8:01 PM**
File Size	**87.860 KB**
Created Date	**3/12/2019**
Visible to Customer	✓

8917-sns.tar.gz

Description	**lsm6ds3**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/12/2019 1:48 AM**
File Size	**5.380 KB**
Created Date	**3/12/2019**
Visible to Customer	✓

sns-reg.about-html.tar.gz

Description	**about & sns reg**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/12/2019 12:44 AM**
File Size	**3.035 KB**
Created Date	**3/12/2019**
Visible to Customer	✓

20190311.rar

Description	**20190311.rar**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/10/2019 7:44 PM**
File Size	**813.508 KB**
Created Date	**3/10/2019**
Visible to Customer	✓

sns_log-0307.isf

Description	**sns_log-0307.isf**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/7/2019 1:48 AM**
File Size	**11.554 MB**
Created Date	**3/7/2019**
Visible to Customer	✓

dumpsys_sensorservice.txt

Description	**dumpsys_sensorservice.txt**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/6/2019 6:09 PM**
File Size	**19.550 KB**
Created Date	**3/6/2019**
Visible to Customer	✓

2019.03.05_16.27.08.rar

Description	**log**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/5/2019 12:46 AM**
File Size	**232.436 KB**
Created Date	**3/5/2019**
Visible to Customer	✓

2019.03.05_16.27.08.zip

Description	**result**
Uploaded By	**Customer**
Owner Alias	**zk_sw**
Import Date	**3/5/2019 12:46 AM**
File Size	**13.635 KB**
Created Date	**3/5/2019**
Visible to Customer	✓

Case Comments

3/20/2019 2:08 AM

User **zk zk**

3/20/2019 1:29 AM

User **Jianyun Kang**

Comment 非常感谢！

BRs

3/20/2019 12:59 AM

User zk zk

Comment Dears:
移除ODR 13之后复测可以pass，请帮忙解释下原因？是从qxdm log里定位出问题吗？
BRs

3/19/2019 11:06 PM

User zk zk

Comment dears
目前看lsm6ds3的代码最小odr=13，你所说的移除odr=13具体是指将odr最小修改到多少？

3/19/2019 1:24 AM

User zk zk

Comment sorry,忘记转换了，已经上传

BRs

3/18/2019 11:22 PM

User zk zk

Comment Dears:
新的log已上传，请帮忙再对应check下！

3/18/2019 7:01 PM

User Jianyun Kang

Comment Dear Customer，
1.陀螺仪本身不依赖加速度，但是如果您有这个校准的想法，您可以给这些sensor校准以后进行复测。

2.现在分析问题，不能精准的定位到smgr的行为，行为上层device_logcat_test_346270835439244207，host_log_320568668251938037 4的时间戳一个是2月的，一个是3月的，是否可以将设备的时间戳调整到与ap的时间戳一致？这样我可以看到GyroscopeSamplingPeriodHotSwitchOperation测试的时候，adsp端的rate是多少，理论上是1，但是现在提供的qxdm log看不出来。

3.现在的问题就是测试频率为1.16hz左右，与申请频率有一点偏差，所以失败。

Thanks！

3/17/2019 8:47 PM

User Jianyun Kang

Comment Dear Customer，

请尝试以下修改再进行测试。
Sns_smgr_init.c (sensors\smgr\src)
-#define SNS_SMGR_ENFORCED_MAX_FREQ_GYRO 200
+#define SNS_SMGR_ENFORCED_MAX_FREQ_GYRO 250

Thanks！

3/15/2019 12:18 AM

User zk zk

Comment Dear sir:
isf文件已上传，从log里看有下不同的odr；
请协助check下

BRs

3/14/2019 8:25 PM

User zk zk

Comment .qmdl格式的，可以使用QXDM工具转换到isf~

BRs

3/14/2019 2:30 AM

User zk zk

Comment Dear sir：
ap setprop开启 sensor hal log,并抓取了对应测试的adsp log，请再帮忙确认下；

另外我看到代码里面，lsm6ds3最小odr = 13hz
如有发现，请帮忙更新或电话

13002572935
dihongwei

3/12/2019 10:52 PM

User Jianyun Kang

Comment Dear Customer，
请联系vendor获取最新驱动。为什么申请的ODR是13，返回的是26？

[0053/0001] MSG 07:16:19.729 SNS/Medium [sns_smgr_util.c 307] get_adj_odrs - lower=13 given=0xF0000/15 higher=26

Thanks！

3/12/2019 6:52 PM

User Jianyun Kang

Comment Dear Customer，
抱歉，给您修改是bmi160的，请上传您的陀螺仪驱动代码。
上传sensor_def_qcondev.conf

Comment Dear Customer，
需求是1hz，实际平均上报速率1.15hz，这其实也是满足功能.
要求，vts要求的实际测试速率范围为0.9hz~1.1hz，所以失败

一般的驱动是不支持1hz的，是smgr通过最小的odr去过滤，
对于该case来说，选择26hz，实际测试速率可以控制在0.9hz

如果是在测试maxRate时失败，也可以采取去掉208以上的od

Thanks！

3/19/2019 11:14 PM

User Jianyun Kang

Comment Dear Customer，
stm_lsm6dsm_gyr_odr lsm6dsm_gyr_odr_reg_values[ST
66 // STM_LSM6DSM_GYR_ODR13,
67 STM_LSM6DSM_GYR_ODR26,
68 STM_LSM6DSM_GYR_ODR52,
69 STM_LSM6DSM_GYR_ODR104,
70 STM_LSM6DSM_GYR_ODR208,
71 STM_LSM6DSM_GYR_ODR416,
72 STM_LSM6DSM_GYR_ODR833,
73 STM_LSM6DSM_GYR_ODR1660,
74 };
75

Thanks!

3/19/2019 10:37 PM

User Jianyun Kang

Comment Dear Customer，

please try to remove the ODR 13 in gyro sensor and test

Thanks！

3/19/2019 12:20 AM

User Jianyun Kang

Comment Dear Customer，
我这边正在下载安装qcat工具，但是由于网络原因，可能会稍
将qxdm log转化为isf格式或者txt格式上传？下次应该就不需

非常感谢您的协助。

3/18/2019 8:18 PM

User zk zk

Comment ok，了解，我稍后重新抓取一份时间戳同步的log

3/18/2019 6:40 PM

User zk zk

Comment Dears:
因为我们目前BP没有升级，所以check了O版本下的如下参数
#define SNS_SMGR_ENFORCED_MAX_FREQ_GYRO 250

另外，为了保证机器状态，我重新刷了O版本之后再升级到P的

hardware/interfaces/sensors/1.0/vts/functional/VtsHalSer
Expected: (std::abs(maxDelayAverageInterval - maxSamp
(maxSamplingPeriodInNs / 10), actual: 182700702 vs 100

另外想确认下，陀螺仪这块是否也需要依赖于gsensor数据，

BRs

3/15/2019 3:45 AM

User Jianyun Kang

Comment Dear Customer，
现在遇到的问题是device_logcat_test_34627083543924420
host_log_320568668251938037 4时间不一样，而hal层中的
候开始测试的，adsp的时间戳就找不到，我这边再看看，因为
的。

Thanks！

3/14/2019 10:34 PM

User Jianyun Kang

Comment Dear Customer，
1.抱歉，我这边不能转，请转换并上传。
2.lsm6ds3最小odr = 13hz ，代码里最小的odr确实是13，但
多少。

Thanks！

3/14/2019 6:52 PM

User Jianyun Kang

Comment Dear Customer，
哪个是您的qxdm log？是否可以转成isf格式或者txt格式上传

Thanks！

3/13/2019 11:29 PM

User Jianyun Kang

Comment SensorsContext.cpp

Thanks !

3/12/2019 1:42 AM

User Jianyun Kang

Comment
Dear Customer ,
1.设备上陀螺仪功能可以用吗？看着识别出来的参数都是0啊
item-registry-ID: name: value...
1918-1919: UUID: NULL 00000000-0000-0000-0000-000000000000
1920: off_to_idle: 0 1921: idle_to_ready: 0 1922: i2c_bus: 0x00
1923: reg_group_id: 0 1924: cal_grp_id: 0 1925: gpio1: 0x0000
1926: gpio2: 0x0000 1927: sensor_id: 0 1928: i2c_address: 0x00
1929: data_type1: 0 1930: data_type2: 0 1931: rel_sns_idx: 0
1932: sens_default: 0 1933: flags: 0x00
1983: device_select: 0
1983: vdd_rail: 0
1983: vddio_rail: 0
drv_cfg[2]
2.请上传sensor_def_qcondev.conf文件。
3.请修改adsp_proc/Sensors/dd/qcom/src/sns_dd_bmi160.h 进行测试。
-#define BMI160_CONFIG_GYR_LOWEST_ODR 25
+#define BMI160_CONFIG_GYR_LOWEST_ODR 13

Thanks !

3/12/2019 1:07 AM

User Jianyun Kang

Comment
Dear Customer ,
1.设备上陀螺仪功能可以用吗？看着识别出来的参数都是0啊
item-registry-ID: name: value...
1918-1919: UUID: NULL 00000000-0000-0000-0000-000000000000
1920: off_to_idle: 0 1921: idle_to_ready: 0 1922: i2c_bus: 0x00
1923: reg_group_id: 0 1924: cal_grp_id: 0 1925: gpio1: 0x0000
1926: gpio2: 0x0000 1927: sensor_id: 0 1928: i2c_address: 0x00
1929: data_type1: 0 1930: data_type2: 0 1931: rel_sns_idx: 0
1932: sens_default: 0 1933: flags: 0x00
1983: device_select: 0
1983: vdd_rail: 0
1983: vddio_rail: 0
drv_cfg[2]
2.请上传sensor_def_qcondev.conf文件。
3.请修改adsp_proc/Sensors/dd/qcom/src/sns_dd_bmi160.h 进行测试。
-#define BMI160_CONFIG_GYR_LOWEST_ODR 25
+#define BMI160_CONFIG_GYR_LOWEST_ODR 25

Thanks !

3/11/2019 7:34 PM

User Jianyun Kang

Comment
Dear customer,
请运行adb shell sns_regedit_ssi -r命令并反馈运行结果。

Thanks !

3/11/2019 2:13 AM

User zk zk

Comment
1. 这个我测试报错还是gyro的，而且基本log开关也都开了
2. SMGR_BUFFER_SIZE在adsp代码没找到

3/10/2019 7:45 PM

User zk zk

Comment 重新抓取了AP log：20190311.rar，请查收

3/7/2019 5:44 PM

User zk zk

Comment
03-08 09:40:37 I/ConsoleReporter: [14/36 arm64-v8a VtsHalSensorsV1_0Target J3AXGYN0171832C] VtsHalSensorsV1_0Target#SensorsHidlTest.GyroscopeSamplingPeriodHotSwitchOperation(default)_64bit fail: hardware/interfaces/sensors/1.0/vts/functional/VtsHalSensorsV1_0TargetTest.cpp:1183
Expected: (std::abs(maxDelayAverageInterval - maxSamplingPeriodInNs)) < (maxSamplingPeriodInNs / 10), actual: 144913164 vs 100000000

3/6/2019 11:46 PM

User Jianyun Kang

Comment
Dear customer,
现在gyro是工作在什么模式？polling，DRI 还是fifo？可以修改为fifo模式进行测试。

Thanks !

3/6/2019 6:23 PM

User zk zk

Comment LSM6DS3

3/6/2019 5:37 PM

User Jianyun Kang

Comment
Dear customer,
最好还是运行一下adb shell dumpsys sensorservice，这样可以看一下驱动现在支持的最小频率是多少。

不修改驱动，这项测试应该过不了。

Thanks !

3/6/2019 12:47 AM

User zk zk

Comment
03-06 16:14:47 I/ConsoleReporter: [14/36 arm64-v8a VtsHalSensorsV1_0Target J3AXGYN0171832C] VtsHalSensorsV1_0Target#SensorsHidlTest.GyroscopeSamplingPeriodHotSwitchOperation(default)_64bit

```
void SensorsContext::enableLogging()
{
int debug_prop_len;
char debug_prop[PROPERTY_VALUE_MAX];
...

}

+ g_hal_log_level = HAL_LOG_LEVEL_ALL;


}
```

3/12/2019 8:09 PM

User zk zk

Comment config & driver已上传

3/12/2019 1:49 AM

User zk zk

Comment
新的注册表信息已上传，
并且gyro功能正常，sns_cm_test -s 10 -d 10 -r 10 测试正常

BRs

3/12/2019 1:40 AM

User zk zk

Comment
sorry sir：
这次抓取的这个机器不支持gyro，稍后重新抓取提供下~

另外，需要将odr蚕食从25修改到多少？

BRs

3/12/2019 12:45 AM

User zk zk

Comment
Dears:
about html和sns_reg注册表信息已上传，请知悉

3/11/2019 6:54 PM

User Jianyun Kang

Comment
Dear customer,
是否可以上传about.html文件，我这边确认一下您的版本。

Thanks !

3/11/2019 2:09 AM

User Jianyun Kang

Comment
Dear customer,
现在的问题就是实际测试速率偏大。
1.上传的logcat没有gyro的log信息。
2.请确认您的adsp代码是否有SMGR_BUFFER_SIZE 的定义

Thanks !

3/8/2019 1:29 AM

User Jianyun Kang

Comment
Dear customer,
logcat中，看着没有打开sensor ap debug log，请参考KBA
AP sensor log 再次抓取测试log。

Thanks !

3/7/2019 1:16 AM

User zk zk

Comment
#gyro1 LSM6DS3
2103 0x0b25b8431bfd46bc 0x00010001 #UUID
2102 0xc14075963795c661 0x00010001 #UUID
2104 200000 0x00010001 #off_to_idle
2105 250000 0x00010001 #idle_to_ready
2106 41 0x00010001 #gpio1
2107 1010 0x00010001 #reg_group_id
2108 10 0x00010001 #cal_grp_id
2109 4 0x00010001 #i2c_bus
2110 0X6A 0x00010001 #i2c_address
2111 3 0x00010001 #sens_default
2112 0xD0 0x00010001 #flag
2168 0x8E 0x00010001 #vdd
2169 0x8E 0x00010001 #vddio

3/6/2019 11:38 PM

User Jianyun Kang

Comment
Dear customer,

hardware/interfaces/sensors/1.0/vts/functional/VtsHalSer
Expected: (std::abs(maxDelayAverageInterval - maxSamp
(maxSamplingPeriodInNs / 10), actual: 144850797 vs 100

maxSamplingPeriodInNs = 100000000 *10 = 1000000000 r
1hz (申请测试速率)
maxDelayAverageInterval = 1000000000 - 144850797 = 85
>test minrate ~1.16hz (实际测试速率)

看dumpsys sensorservice的结果看，minRate为1hz，理论
qxdm log，查看实际速率是多少。

Thanks !

fail: hardware/interfaces/sensors/1.0/vts/functional/VtsHalSensorsV1_0TargetTest.cpp:1183
Expected: (std::abs(maxDelayAverageInterval - maxSamplingPeriodInNs)) < (maxSamplingPeriodInNs / 10), actual: 144850797 vs 100000000

03-06 16:20:42 I/ConsoleReporter: [14/36 armeabi-v7a VtsHalSensorsV1_0Target J3AXGYN0171832C] VtsHalSensorsV1_0Target#SensorsHidlTest.GyroscopeSamplingPeriodHotSwitchOperation(default)_32bit
fail: hardware/interfaces/sensors/1.0/vts/functional/VtsHalSensorsV1_0TargetTest.cpp:1183
Expected: (std::abs(maxDelayAverageInterval - maxSamplingPeriodInNs)) < (maxSamplingPeriodInNs / 10), actual: 144856890 vs 100000000

3/6/2019 12:21 AM

User: zk zk

Comment:
Dear qcom，

1. 使用提供的修改解决了SensorListValid(default)_32bit,SensorListValid(default)_64bit问题
2. generic_arm64_ab:/ # dumpsys sensorservice
Can't find service: sensorservice
请帮忙看下

3/5/2019 5:39 PM

User: Jianyun Kang

Comment:
Dear customer
I'll look at it and give you feedback soon.

Thanks!
Tel:151 0150 5427

3/6/2019 6:12 PM

User: zk zk

Comment:
Dear qcom，

烧写dailybuild抓取了dumpsys_sensorservice.txt，昨天烧
帮忙看看有什么建议

3/6/2019 1:01 AM

User: zk zk

Comment:
1. 使用的GYRO为icm206xx，使用的是O版本配置，BP侧未
2. 根据说明现在最大速率为1HZ，而测试实际速率为1.17HZ是
3. 因为升级只做了AP，能否不动BP侧让此测试通过呢？
Tks

3/6/2019 12:25 AM

User: Jianyun Kang

Comment:
Dear customer,
如果gyro是bmi160，尝试以下修改：

gyro maxRate为250.00Hz.

但是实际测试速率为400hz

hardware/interfaces/sensors/1.0/vts/functional/VtsHalSer
Expected: (std::abs(minDelayAverageInterval - minSamp
(minSamplingPeriodInNs / 10), actual: 1532273 vs 400000

minSamplingPeriodInNs = 400000*10 = 4000000ns = 4 ms
请测试速率)
minDelayAverageInterval = 4000000 - 1532273 = 2467727
rate ~400hz (实际测试速率)

请参考以下修改adsp_proc/Sensors/dd/qcom/src/sns_dd_
-#define BMI160_CONFIG_ACC_FASTEST_ODR 1600
+#define BMI160_CONFIG_ACC_FASTEST_ODR 200

-#define BMI160_CONFIG_GYR_FASTEST_ODR 1600
+#define BMI160_CONFIG_GYR_FASTEST_ODR 200

Thanks!

3/5/2019 6:00 PM

User: Jianyun Kang

Comment:
Dear customer
1.SensorListValid(default)_32bit,SensorListValid(default)
请尝试以下修改：
diff --git a/dsps/libhalsensors/src/SensorsContext.cpp
b/dsps/libhalsensors/src/SensorsContext.cpp
index f9d890e..0377038 100644
--- a/dsps/libhalsensors/src/SensorsContext.cpp
+++ b/dsps/libhalsensors/src/SensorsContext.cpp
@@ -1639,6 +1639,11 @@ void
SensorsContext::processSingleSensorInfoResp(Sensor*
mSensors[handle]->setResBufferedSamples(0);
}

+ /* This is to avoid setting undefined value to non BMA s
+ if (strcmp(ACCEL_SENSOR_NAME,
+ mSensors[handle]->getName()) != 0) {
+ mSensors[handle]->setMaxFreqBkp(mSensors[handle]
+ }
(static_cast<SMGRSensor*>(mSensors[handle]))->setSe

HAL_LOG_INFO("%s: sensor1: name: %s, vendor: %s, m
@@ -1721,6 +1726,8 @@ void
SensorsContext::processSingleSensorInfoResp(Sensor*
mSensors[handle_wakeup]->setMaxBufferedSamples(sm
>num_buffered_reports[i]);
}

+ /* This is to avoid setting undefined value */
+ mSensors[handle_wakeup]->setMaxFreqBkp(mSensors
>getMaxFreq());
(static_cast<SMGRSensor*>(mSensors[handle_wakeup])
>setSensorInfo(sensor_datatype);

HAL_LOG_INFO("%s: sensor1: name: %s, vendor: %s, m

2.GyroscopeSamplingPeriodHotSwitchOperation错误，您
sensorservice结果。

Thanks !