

## OsmoGSMTester - Feature #4543

### Emergency call support in osmo-gsm-tester

05/12/2020 12:51 PM - laforge

<b>Status:</b> Resolved	<b>Start date:</b> 05/12/2020
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b> dexter	<b>% Done:</b> 70%
<b>Category:</b>	
<b>Target version:</b>	
<b>Spec Reference:</b>	
<b>Description</b> Let's figure out how we can initiate an emergency call in osmo-gsm-tester, via ofono, using regular MS/UE.  Please pay extra attention to not leak any emergency calls to public networks: <ul style="list-style-type: none"><li>• the osmo-gsm-tester production setup should have better shielding than the R&amp;D setup</li><li>• make sure your network advertises support for emergency calls in SYSTEM INFORMATION. If it doesn't, a MS is mandated to switch to other networks before issuing the emergency call</li></ul>	
<b>Related issues:</b> Related to OsmoBSC - Feature #4549: Emergency Call Priority / Pre-Emption <span style="float: right;"><b>Feedback</b> 05/12/2020</span>	

#### History

##### #1 - 09/18/2020 01:03 PM - pespin

Some interesting ofono bits to verify/test emergency calls:

```
13:04:37.557224 tst /gobi_1: DBG: 'org.ofono.VoiceCallManager'.PropertyChanged() -> E
emergencyNumbers=['08', '000', '999', '110', '112', '911', '118', '119']
```

```
also, 'RemoteMultiparty': False, 'Multiparty': False, 'Name': '', 'LineIdentification': '1020', 'RemoteHeld':
False}"
```

```
12:58:49.482029 tst /gobi_2: DBG: 'org.ofono.VoiceCallManager'.CallAdded() -> /gobi_2
/voicecall01={'State': 'dialing', 'Emergency': False, 'RemoteMultiparty': False, 'Multiparty': False, 'Name':
'', 'LineIdentification': '1019', 'RemoteHeld': False}"
```

##### #2 - 10/14/2020 12:53 PM - pespin

##### #3 - 10/14/2020 06:40 PM - pespin

- Status changed from New to In Progress

- % Done changed from 0 to 30

I had to add support for emergency calls in our osmo-gsm-tester branch from our ofono.git fork. After doing so, I can see the Emergency setup being sent.

However, I currently see several issues when running the test (where MSC is configured to forward emergency calls to MT, and there's an MO\_MT call being placed):

- 1- For some reason, one of the 2 (I think MT) MS is being LU rejected all the time, I need to check why.
- 2- Despite being rejected, the MSC is trying to forward the emergency calls to that msisdn.
- 3- The MSC should be paging the MT before trying to send a CC setup for it?

##### #4 - 10/14/2020 06:52 PM - pespin

- File emergency\_call.pcapng added

##### #5 - 10/15/2020 03:10 PM - pespin

from IRC:

<pespin> I finally got the emergency call working. I had a bug in python code not setting the msisdn routing line in osmo-msc.cfg. But osmo-msc is definitely behaving really strange when that is not set, it should be saying something at startup or promptly reject the emergency call if the routing is not set. Instead it was trying to setup a call towards the same MS...  
<LaF0rge> pespin: well, I guess nobody ever tested that. Maybe we should simply route it to 112 by default, i.e. set that vty setting to 112 as a compile-default before parsing the config file

Patch adding test to verify emergency calls, passes fine:

<https://gerrit.osmocom.org/c/osmo-gsm-tester/+20669> sysmocom: Enable emergency call testing in default-suites.conf

I'm also adding the ofono patch introducing emergency call support to our osmo-gsm-tester ofono.git branch, so it gets upstreamed eventually.

**#6 - 10/15/2020 03:52 PM - pespin**

- Status changed from *In Progress* to *Feedback*

- % Done changed from 30 to 70

Assigning to [dexter](#) as we concluded he would be doing some manual tests to fix the strange behavior when no routing msisdn is set in the VTY.

Once that has been looked at, we can close the ticket.

**#7 - 10/15/2020 03:53 PM - pespin**

- Related to Feature #4549: *Emergency Call Priority / Pre-Emption added*

**#8 - 10/15/2020 04:12 PM - pespin**

- Assignee changed from *pespin* to *dexter*

**#9 - 11/23/2020 11:16 PM - dexter**

- Status changed from *Feedback* to *Resolved*

**Files**

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emergency_call.pcapng	205 KB	10/14/2020	pespin
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