

OsmoGSMTester - Bug #2621

Gobi2000: might stopped working because all CID got assigned

11/07/2017 04:40 PM - lynxis

Status:	New	Start date:	11/07/2017
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:			
Target version:			
Spec Reference:			

Description

When heavily using the Gobi2000 ofono runs out of CID (client ids) which means it can not communicate anymore with the modem. The reason for running out of CID seems to be ofono is leaking those. (Random guess: when doing the state transition "Online/Powered true -> Powered false" this happen)

In more recent modems/firmwares the firmware support the **Sync** QMI command, which releases all previous CIDs. There is also another "Sync" command via the USB serial protocol, but that one isn't implemented by Linux. It's also unclear if it's supported by Gobi2000 or only more recent firmwares.

```
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb()
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() CTL 1.3 - 0
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() WDS 1.2 - 1
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() DMS 1.1 - 2
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() NAS 1.0 - 3
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() WMS 1.0 - 5
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() PDS 1.0 - 6
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() AUTH 1.0 - 7
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() CAT 1.0 - 224
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: plugins/gobi.c:discover_cb() RMS 1.0 - 225
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: src/modem.c:get_modem_property() modem 0x55eb2b5582d0 property SupportQMISync
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: drivers/qmimodem/qmibridge.c:ask_qmi() _REQ: QMI QMUX:
QMI length = 15
QMI flags = 0x00
QMI service = "ctl"
QMI client = 0
QMI QMI:
QMI flags = "none"
QMI transaction = 2
QMI tlv_length = 4
QMI message = "Allocate CID" (0x0022)
QMI TLV:
QMI type = "Service" (0x01)
QMI length = 1
QMI value = 02
QMI translated = dms
Nov 07 17:27:23 osmo-gsm-tester-rnd ofonod[17608]: drivers/qmimodem/qmibridge.c:ask_qmi() READ: QMI QMUX:
QMI length = 18
QMI flags = 0x80
QMI service = "ctl"
QMI client = 0
QMI QMI:
QMI flags = "response"
QMI transaction = 2
QMI tlv_length = 7
QMI message = "Allocate CID" (0x0022)
QMI TLV:
QMI type = "Result" (0x02)
QMI length = 4
QMI value = 01:00:05:00
```

History

#1 - 11/07/2017 04:42 PM - pespin

- Assignee set to lynxis

#2 - 11/07/2017 04:42 PM - lynxis

- Assignee changed from lynxis to pespin

#3 - 11/07/2017 05:04 PM - pespin

- Assignee changed from pespin to lynxis

This one is pretty important, as it means we cannot use the gobi2000 modem in automated tests in osmo-gsm-tester if we get this quite often (as I do after running a few tests manually using osmo-gsm-tester).

We should decide whether we fix this issue or we drop gobi2000 support altogether.

#4 - 11/07/2017 09:10 PM - laforge

Hi!

On Tue, Nov 07, 2017 at 05:04:49PM +0000, pespin [REDMINE] wrote:

We should decide whether we fix this issue or we drop gobi2000 support altogether.

Isn't the CID handling generic to all QMI modems? If ofono is leaking CID, why are we encountering this only on Gobi2000? Maybe the problem is generic but only is visible sooner on Gobi due to less CID? Just random guesses here.

#5 - 11/15/2017 11:07 AM - lynxis

The leaking of CID aren't much a problem for EC20/Sierra, because the EC20 can reset the CIDs by the Sync command. Gobi doesn't support this.

#6 - 01/08/2020 10:40 PM - laforge

- Assignee deleted (lynxis)