

OsmocomBB - Feature #2913

Add a tool that decodes Cell Broadcasts (SMSCB)

02/07/2018 08:34 PM - roox

Status: New	Start date: 02/07/2018
Priority: Low	Due date:
Assignee:	% Done: 0%
Category:	
Target version:	
Resolution:	Spec Reference:

Description

Add tool to osmocom-bb that can decode SMS-CB and log data.

A good starting point is the work done by Alex Badea in 2010 and 2013:

- changes to libosmocore (even with unit tests)
<http://lists.osmocom.org/pipermail/baseband-devel/2013-January/003871.html>
- changes to cell_log
<http://lists.osmocom.org/pipermail/baseband-devel/2013-January/003887.html>
- changes to L1 (already merged in sylvain/testing)
<http://lists.osmocom.org/pipermail/baseband-devel/2013-January/003835.html>
<http://lists.osmocom.org/pipermail/baseband-devel/2013-January/003836.html>

There were reasons a that time to not to include these patches into master.

Time went by and now there's even initial support for SMSCB in OsmoBTS/OsmoBSC.
https://osmocom.org/projects/cellular-infrastructure/wiki/Cell_Broadcast

An interesting use-case for (at least for germans) could be the mapping of older BTS from VIAG-Interkom/O2 that still broadcast their locations in Gauss Krueger coordinates.
I've written a perl script that uses the logs from Alex Badeas patched cell_log to generate a KML file with the BTS's coordinates.

Related issues:

Related to OsmoGSMTester - Feature #3564: Investigate ofono and modems Cell B...	New	09/18/2018
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History

#1 - 09/29/2018 08:57 AM - laforge

- Tags set to SMSCB

#2 - 09/29/2018 08:58 AM - laforge

- Related to Feature #3564: Investigate ofono and modems Cell Broadcast support added

#3 - 09/29/2018 09:31 AM - laforge

See also https://www.one2many.eu/assets/files/19_displaying-cb-messages.pdf and [Cell_Broadcast](#)

Files

o2-osmocom-bb-smscb2kml.pl	4.71 KB	02/07/2018	roox
nice_logs.patch	898 Bytes	02/07/2018	roox