

## libosmcore - Feature #1716

### enhance unit test coverage

05/17/2016 03:30 PM - laforge

|                        |        |                    |            |
|------------------------|--------|--------------------|------------|
| <b>Status:</b>         | New    | <b>Start date:</b> | 05/17/2016 |
| <b>Priority:</b>       | Normal | <b>Due date:</b>   |            |
| <b>Assignee:</b>       |        | <b>% Done:</b>     | 0%         |
| <b>Category:</b>       |        |                    |            |
| <b>Target version:</b> |        |                    |            |
| <b>Spec Reference:</b> |        |                    |            |

#### Description

We currently only have (some) unit test for the following parts:

#### libosmcore

```
./bits
./timer
./msgb
./logging
./conv
./stats
./utils
./loggingrb
./bitvec
./msgfile
./strrb
./ares
```

#### libosmogsm:

```
./fr
./auth
./a5
./gb
./comp128
./tlv
./gsup
./lapd
./gprs
./gsm0408
./sms
./ussd
./gsm0808
./smscb
./kasumi
```

#### libosmosim

```
./sim
```

#### libosmovty:

```
./vty
```

Please review the existing unit tests and determine which API functions exported by our libraries do not currently receive any unit test coverage.

- generate a list of API functions without test cases and update the ticket
- pick those API functions that are easy to test without a very complicated fixture and lots of state
- implement autotest cases for each of the affected functions

It's also worth to think about possible ways to automatize the detection of 'exported library functions without test cases', if that's possible in some way.

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**Related issues:**

|  |                 |                   |                   |
|--|-----------------|-------------------|-------------------|
| Related to libosmocore - Feature #1987: gcov code coverage test support          | <b>New</b>      | <b>03/17/2017</b> |                   |
| Precedes OpenBSC - Feature #1717: improve test coverage of libbsc/libmsc/... ... | <b>Rejected</b> | <b>05/18/2016</b> | <b>05/18/2016</b> |

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**History**

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**#1 - 05/17/2016 03:32 PM - laforge**

- *Precedes Feature #1717: improve test coverage of libbsc/libmsc/... inside OpenBSC git repo added*

**#2 - 08/17/2016 03:57 PM - laforge**

- *Assignee deleted (dlsitzer)*

**#3 - 09/25/2018 06:45 PM - fixeria**

- *Related to Feature #1987: gcov code coverage test support added*