

## OsmoMGW - Feature #2517

### use libosmocore counters for packet/byte counting (statistics)

09/22/2017 07:37 AM - dexter

<b>Status:</b> Resolved	<b>Start date:</b> 09/22/2017
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b> dexter	<b>% Done:</b> 100%
<b>Category:</b>	
<b>Target version:</b>	
<b>Spec Reference:</b>	
<b>Description</b> use any of the libosmocore counters, rather than having hand-coded counters. A rate counter would have the benefit that it would come with free CTRL interface access to the counters.  (see also the SGSN/PDP-Context per direction packet and byte counting)	

#### History

**#1 - 10/06/2017 12:28 PM - laforge**

**#2 - 03/19/2018 05:19 PM - dexter**

- Status changed from New to In Progress

- % Done changed from 0 to 20

I have replaced state.in\_stream.err\_ts\_counter and state.out\_stream.err\_ts\_counter with libosmocore counters. There are still a couple more counters I think.

**#3 - 03/26/2018 08:54 AM - dexter**

We have an approach for libosmocore counters: <https://gerrit.osmocom.org/#/c/7396/> but we agreed not to merge it. We will go for rate counters instead that are much better alternative and also have better control interface support.

**#4 - 03/28/2018 02:27 PM - dexter**

- % Done changed from 20 to 30

There is now an alternate patch that uses libosmocore rate counters:  
<https://gerrit.osmocom.org/7555> stats: use libosmocore rate counter for in/out\_stream.err\_ts\_counter

**#5 - 04/23/2018 12:28 PM - dexter**

Unfortunately the patch got reverted.

<https://gerrit.osmocom.org/7891>  
[https://build.opensuse.org/package/live\\_build\\_log/network:osmocom:nightly/osmo-mgw/xUbuntu\\_17.04/i586](https://build.opensuse.org/package/live_build_log/network:osmocom:nightly/osmo-mgw/xUbuntu_17.04/i586)

When looking at the OBS log I can see that there is some unexpected output. We need to check whats behind this and resubmit the patch when the error has been found.

**#6 - 05/03/2018 01:11 PM - dexter**

- Status changed from In Progress to Feedback

- Assignee changed from dexter to lynxis

**lynxis:** How can I retrieve the log from the build failure, I only added the link to the top build to the ticket. In order to pinpoint the problem, I need the logtext from the failure situation.

**#7 - 05/04/2018 09:16 PM - lynxis**

[dexter](#): I've created a 32bit lxc container to test it.

**#8 - 05/09/2018 02:34 PM - dexter**

- Assignee changed from lynxis to dexter

The build problem under OBS was most likely a problem an integer size problem on the 32-bit build. I managed to reproduce the faulure under an 32 bit debian VM and fixed it. Here is the new version of the patch:

<https://gerrit.osmocom.org/8086> stats: use libosmocore rate counter for in/out\_stream.err\_ts\_counter

**#9 - 07/03/2018 12:29 PM - dexter**

- Status changed from Feedback to In Progress

- % Done changed from 30 to 90

I have now replaced the counters that relate to packet/byte counting. See also:

<https://gerrit.osmocom.org/#/c/osmo-mgw/+9837> stats: replace packet statistic counters with libosmocore rate counters

**#10 - 07/09/2018 08:32 AM - dexter**

- Status changed from In Progress to Resolved

- % Done changed from 90 to 100

As far as I can see we have now joined all relevant counters inside a rate counter group. Whats left is struct mgcp\_conn\_rtp.osmux.stats. I would suggest to fix this when osmux support is re-introduced. Until now this would only increase the confusion about osmux.