

## OsmoBSC - Feature #4536

### Multi BTS support within a single physical device

05/06/2020 10:35 AM - tnt

<b>Status:</b> New	<b>Start date:</b> 05/06/2020
<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**

So OpenBSC supports multiple BTSs (obviously). But sometime you want several "logical" BTS inside a single "physical" BTS.

That means that :

- You only get 1 physical link and possibly a single OML link to that physical BTS (so same/shared e1inp\_sign\_link \*oml\_link ...)
- Some OML objects needs only to be brought up once for all the "logical" BTS in the same physical one.
- In the 12.21 fields, the bts\_nr field will not match the gsm\_bts->bts\_nr field since it starts at 0 for each physical BTS.
- ... probably other things ...

We need a way to represent that in the code and in the config.

Some thoughts:

- We could introduce another hierarchy level (bts/trx/ts -> phys\_bts/virt\_bts/trx/ts) but that looks like extensive changes in the code and config format
- We could have a "parent" link in bts object and so if a bts has a parent then it's not in charge of the "shared" stuff ... and the config would just have way to specify which bts is a parent. And if we restrict to having contiguous bts\_nr for the child, then finding the OML 12.21 bts number for a bts is trivial (bts->nr - bts->parent->nr)
- ...

#### History

#1 - 05/06/2020 10:36 AM - tnt

- Tracker changed from Bug to Feature

#2 - 06/21/2020 01:10 PM - laforge

- Description updated