### libosmo-sccp + libosmo-sigtran - Feature #5679

**Unsupported SCCP user primitive N-PCSTATE.indication**

**09/12/2022 06:25 PM - pespin**

<table>
<thead>
<tr>
<th>Status:</th>
<th>Feedback</th>
<th>Start date:</th>
<th>09/12/2022</th>
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<td>Description:</td>
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As seen in osmo-hnbgw when receiving an M3UA NTFY:

```
20220912180716266 DLINP <0007> stream.c:445 [CONNECTED] osmo_stream_cli.fd_cb(): connected read
20220912180716266 DLINP <0007> stream.c:324 [CONNECTED] osmo_stream_cli_read(): message received
20220912180716267 DLS7 <0011> osmo_as7.c:1906 0: asp-clnt-msc-0: xua_cli_read_cb(): scrp_recvmsg() returned 24 (flags=0x80)
20220912180716267 DLM3UA <0014> m3ua.c:714 0: asp-clnt-msc-0: Received M3UA Message (SNM:DAVA)
20220912180716267 DLM3UA <0014> xua_smn.c:403 0: asp-clnt-msc-0: Rx DAVA() for 0.23.4/0,
20220912180716267 DLSCCP <0012> sccp_user.c:175 Delivering N-PCSTATE.indication to SCCP User 'SCCP Management'
20220912180716267 DLSCCP <0012> sccp_scmg.c:298 unsupported SCCP user primitive N-PCSTATE.indication
20220912180716267 DLSCCP <0012> sccp_user.c:175 Delivering N-PCSTATE.indication to SCCP User 'Osmo HNBGW' <== IT IS FURTHER DELIVERED UPWARDS DESPITE NOT BEING SUPPORTED?
20220912180716267 DMAIN <0000> hnbw_cn.c:473 scrp_user.c:175 Received unknown prim 2562 from SCCP USER SAP <==

laforge would you mind providing feedback on what you think would need to be done here?
```

### History

**#1 - 09/12/2022 06:27 PM - pespin**

- File HNBGW_Tests.TC_hnb_reregister_reuse_sctp_assoc.pcap.gz added

**#2 - 09/12/2022 06:39 PM - pespin**

That's actually coming from a DAVA according to logs, but I only see 1 DAVA in pcap while I 2 arriving in osmo-hnbgw. Maybe it's because osmo-stp is sending 2 of them and I don't see osmo-stp<->osmo-hnbgw traffic in there.

**#3 - 09/12/2022 06:48 PM - pespin**

Rx of DUNA also triggers similar path in libosmo-sccp and osmo-hnbgw, printing same error log messages.

**#4 - 09/12/2022 08:05 PM - laforge**

In general it makes sense to notify the user of point code availability / unavailability.

I just don't know exactly what the correct primitive for this would be at the SCCP user SAP. If the ITU specs for SCCP state that N-PCSTATE.ind is to be used for this, great.

The user (application) could use this information to trigger state transitions. Maybe we should simply silently discard it if we don't implement it.

The warnings about unsupported primitives were first, and later libosmo-sigtran got support for DUNA/DAVA processing, creating those warnings.

**#5 - 09/13/2022 11:58 AM - pespin**

IIUC according to ITU Q.714 5.3.6.4 - 5.3.6.6, N-PCSTATE Indication is used to "inform local allowed concerned SCCP subsystems".

ITU Q.711 6.3.2, 6.3.2.3.3 also mentions it.
Hi Pau,

On Tue, Sep 13, 2022 at 11:58:32AM +0000, pespin wrote:

IIUC according to ITU Q.714 5.3.6.4 - 5.3.6.6, N-PCSTATE Indication is used to "inform local allowed concerned SCCP subsystems".

ok. As those point codes are the point codes relevant to osmo-hnbgw, this is correct.

osmo-hnbgw should handle them or ignore them.

Files

<table>
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<tr>
<th>File Name</th>
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<th>Author</th>
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