

OsmoBSC - Bug #2899

channel attributes are sent to BTS even for NONE channels

01/30/2018 04:19 PM - stsp

Status:	New	Start date:	01/30/2018
Priority:	Low	Due date:	
Assignee:	osmith	% Done:	0%
Category:			
Target version:			
Spec Reference:			

Description

While trying to set up a network with very few channels, I disabled most channels for bts 0 in the OsmoBSC configuration file by setting them to NONE.

In this configuration, an osmo-bts-virtual BTS refuses channel attributes sent by OsmoBSC, resulting in a failure of the connection between BTS and BSC.

A pcap file showing the protocol exchange is attached (filter for gsm_abis_oml).

The BSC side log says this:

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<0024> input/ipa.c:263 accept()ed new link from 127.0.0.1 to port 3002
<0024> bts_ipaccess_nanobts.c:420 Identified BTS 6969/0/0
<0005> abis_nm.c:1644 Get Attr (bts=0)
<0005> abis_nm.c:1644 Get Attr (bts=0)
<0005> abis_nm.c:382 OC=SITE-MANAGER(00) INST=(ff,ff,ff) STATE CHG: OP_STATE=Enabled AVAIL=OK(ff)
<0005> abis_nm.c:1981 OC=SITE-MANAGER(00) INST=(ff,ff,ff) Sending OPSTART
<0005> abis_nm.c:382 OC=BTS(01) INST=(00,ff,ff) STATE CHG: OP_STATE=NULL AVAIL=Dependency(05)
<0005> abis_nm.c:1662 Set BTS Attr (bts=0)
<0005> abis_nm.c:1981 OC=BTS(01) INST=(00,ff,ff) Sending OPSTART
<0005> abis_nm.c:382 OC=GPRS-NSE(f0) INST=(00,ff,ff) STATE CHG: OP_STATE=NULL AVAIL=Dependency(05)
<0005> abis_nm.c:382 OC=GPRS-CELL(f1) INST=(00,ff,ff) STATE CHG: OP_STATE=NULL AVAIL=Dependency(05)
)
<0005> abis_nm.c:382 OC=GPRS-NSVC(f2) INST=(00,00,ff) STATE CHG: OP_STATE=NULL AVAIL=Dependency(05)
)
<0005> abis_nm.c:382 OC=GPRS-NSVC(f2) INST=(00,01,ff) STATE CHG: OP_STATE=Disabled AVAIL=Off line(03)
<0005> abis_nm.c:382 OC=RADIO-CARRIER(02) INST=(00,00,ff) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=BASEBAND-TRANSCEIVER(04) INST=(00,00,ff) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,00) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,01) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,02) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,03) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,04) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,05) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,06) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,07) STATE CHG: OP_STATE=NULL AVAIL=Power off(02)
<0005> abis_nm.c:552 OC=BTS(01) INST=(00,ff,ff) Get Attributes Response for BTS0
<0005> abis_nm.c:464 BTS0 Get Attributes Response Info: 65 bytes total with 0 unreported attributes
<0005> abis_nm.c:508 BTS0 feature 'GPRS' reported via OML does not match statically set feature: 0 != 1. Please fix.
<0005> abis_nm.c:508 BTS0 feature 'EGPRS' reported via OML does not match statically set feature: 0 != 1. Please fix.
<0005> abis_nm.c:575 BTS0: ARI reported sw[0/2]: sysmobts is 0.7.0.54-e5b6
<0005> abis_nm.c:447 BTS0 reported variant: unknown
<0005> abis_nm.c:552 OC=BTS(01) INST=(00,ff,ff) Get Attributes Response for BTS0
<0005> abis_nm.c:464 BTS0 Get Attributes Response Info: 32 bytes total with 1 unreported attributes
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<0005> abis_nm.c:469 BTS0 Attribute Manufacturer Dependent State is unreported
<0005> abis_nm.c:575 BTS0: ARI reported sw[0/1]: TRX_PHY_VERSION is Unknown
<0005> abis_nm.c:814 OC=SITE-MANAGER(00) INST=(ff,ff,ff) Opstart ACK
<0005> abis_nm.c:382 OC=RADIO-CARRIER(02) INST=(00,00,ff) STATE CHG: OP_STATE=Disabled AVAIL=OK(ff
)
<0005> abis_nm.c:1981 OC=RADIO-CARRIER(02) INST=(00,00,ff) Sending OPSTART
<0005> abis_nm.c:382 OC=BASEBAND-TRANSCEIVER(04) INST=(00,00,ff) STATE CHG: OP_STATE=NULL AVAIL=OK
(ff)
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,00) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=0)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,00) Sending OPSTART
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,01) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=1)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,01) Sending OPSTART
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,02) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=2)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,02) Sending OPSTART
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,03) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=3)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,03) Sending OPSTART
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,04) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=4)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,04) Sending OPSTART
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,05) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=5)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,05) Sending OPSTART
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,06) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=6)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,06) Sending OPSTART
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,07) STATE CHG: OP_STATE=Disabled AVAIL=Dependency(
05)
<0005> abis_nm.c:1874 Set Chan Attr (bts=0,trx=0,ts=7)
<0005> abis_nm.c:1981 OC=CHANNEL(03) INST=(00,00,07) Sending OPSTART
<0005> abis_nm.c:382 OC=RADIO-CARRIER(02) INST=(00,00,ff) Software Activated Report
<0005> abis_nm.c:1679 Set TRX Attr (bts=0,trx=0)
<0005> abis_nm.c:1981 OC=RADIO-CARRIER(02) INST=(00,00,ff) Sending OPSTART
<0005> abis_nm.c:382 OC=BASEBAND-TRANSCEIVER(04) INST=(00,00,ff) Software Activated Report
<0005> abis_nm.c:1981 OC=BASEBAND-TRANSCEIVER(04) INST=(00,00,ff) Sending OPSTART
<0005> abis_nm.c:2800 ip.access RSL CONNECT IP=0.0.0.0 PORT=3003 STREAM=0x00
<0005> abis_nm.c:382 OC=BTS(01) INST=(00,ff,ff) STATE CHG: OP_STATE=Enabled AVAIL=OK(ff)
<0005> abis_nm.c:814 OC=BTS(01) INST=(00,ff,ff) Opstart ACK
<0005> abis_nm.c:382 OC=RADIO-CARRIER(02) INST=(00,00,ff) STATE CHG: OP_STATE=Enabled AVAIL=OK(ff)
<0005> abis_nm.c:814 OC=RADIO-CARRIER(02) INST=(00,00,ff) Opstart ACK
<0005> abis_nm.c:818 OC=CHANNEL(03) INST=(00,00,00) Set Channel Attributes ACK
<0005> abis_nm.c:382 OC=CHANNEL(03) INST=(00,00,00) STATE CHG: OP_STATE=Enabled AVAIL=OK(ff)
<0005> abis_nm.c:814 OC=CHANNEL(03) INST=(00,00,00) Opstart ACK
<0005> abis_nm.c:768 OC=CHANNEL(03) INST=(00,00,01) SET CHANNEL ATTRIBUTE NACK CAUSE=Parameter val
ue outside permitted range
<0005> bsc_init.c:62 Got SET CHANNEL ATTRIBUTE NACK going to drop the OML links.
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History

#1 - 02/07/2018 08:53 AM - laforge

- Assignee set to sysmocom

#2 - 09/30/2018 10:42 AM - laforge

- Assignee changed from sysmocom to osmith

- Priority changed from Normal to Low

Files

none-channel-attributes.pcapng	6.97 KB	01/30/2018	stsp
osmo-bsc.cfg	664 Bytes	01/30/2018	stsp
osmo-bts-virtual.cfg	1.27 KB	01/30/2018	stsp