

## FL16 2.0 Metadata fix for LNBTS maxGbrDL and maxGbrUL

Product Family: Base Stations  
Product: Flexi Multiradio BTS LTE  
Release: FL16 2.0

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**Contact:** Contact your local Nokia Networks support.

**Summary of changes:**

| Date        | Version | Summary of changes |
|-------------|---------|--------------------|
| 29-Apr-2016 | 1.0     | Approved version   |

## PURPOSE

This document contains information for the Nokia Solutions and Networks NetAct products.

## 1. KEYWORDS

FL16, FL15A, metadata, LNBTS, maxGbrDI, maxGbrUI

## 2. SUMMARY

FDD-LTE16 and FDD-LTE15A metadata in NetAct needs to be aligned with eNB.

## 3. CONFIGURATION INFORMATION

**This TSN requires Release / EP / MP / PP installed:** NetAct 16.2

**Changes to be merged in Release / EP / MP:** NetAct 16.5

**Related problem IDs:** NA05909460

**Configured servers:** WAS

**Is anything restarted during implementation?** Yes, Mercury cluster

**Other information:** None

## 4. INSTRUCTIONS

Start the NetAct TSN implementation by saving this TSN pdf file either to the **/opt/oss/install/conf/tsn** (NetAct 7) or to the **/var/builds/hosts/<system\_name>/tsn** (NetAct 8 Virtual Installation Server) directory. Create this directory if it does not exist yet. This way it is easy to check and follow later on what TSNs have been implemented in this system.

### 4.1 Implementation instructions

Take the following steps to remove "256" from the allowed values for IPSECC antiReplayWindowSize parameter.

1. Login to a WAS node as the `omc` user.
2. Change the directory to the metadata directory  
`omc% cd /etc/opt/nokia/oss/rac/conf/metadata/cmdlte/meta/`
3. Take backup copy of the original files:  
`omc% cp nsn_lnbts_fl15a.xml nsn_lnbts_fl15a.xml.org`  
`omc% cp nsn_lnbts_fl16.xml nsn_lnbts_fl16.xml.org`  
`omc% cp nsn_lnbts_fl16.xml nsn_lnbts_fl16.xml.org`
4. **Modify all the 3 XML files** (one by one similarly to the one example)
  - `omc% vi nsn_lnbts_fl16.xml`

Find the below rows describing `qciTab1.maxGbrDI` and `qciTab1.maxGbrUI` parameters:

```
<m:p name="qciTab1maxGbrDI" annotation="structParam=qciTab1.maxGbrDI">
  <m:alias usage="ui" name="QCI translation table QCI 1 - Maximum GBR downlink" />
  <m:shortDesc>This parameter specifies the maximum value of the GBR in the downlink
direction.</m:shortDesc>
  <m:editing creation="mandatory" update="optional" units="kb/s" />
  <m:simpleType base="unsignedShort">
    <m:range multiplicand="1" divisor="1" shift="0" minIncl="1" maxIncl="256" />
    <m:default value="31" />
  </m:simpleType>
</m:p>
<m:p name="qciTab1maxGbrUI" annotation="structParam=qciTab1.maxGbrUI">
  <m:alias usage="ui" name="QCI translation table QCI 1 - Maximum GBR uplink" />
  <m:shortDesc>This parameter specifies the maximum value of the GBR in the uplink
direction.</m:shortDesc>
  <m:editing creation="mandatory" update="optional" units="kb/s" />
  <m:simpleType base="unsignedShort">
    <m:range multiplicand="1" divisor="1" shift="0" minIncl="1" maxIncl="256" />
    <m:default value="31" />
  </m:simpleType>
</m:p>
```

Update the maxIncl range values from 256 as to 1024:

```
<m:p name="qciTab1maxGbrDI" annotation="structParam=qciTab1.maxGbrDI">
  <m:alias usage="ui" name="QCI translation table QCI 1 - Maximum GBR downlink" />
  <m:shortDesc>This parameter specifies the maximum value of the GBR in the downlink
direction.</m:shortDesc>
  <m:editing creation="mandatory" update="optional" units="kb/s" />
  <m:simpleType base="unsignedShort">
    <m:range multiplicand="1" divisor="1" shift="0" minIncl="1" maxIncl="1024" />
    <m:default value="31" />
  </m:simpleType>
</m:p>
<m:p name="qciTab1maxGbrUI" annotation="structParam=qciTab1.maxGbrUI">
  <m:alias usage="ui" name="QCI translation table QCI 1 - Maximum GBR uplink" />
  <m:shortDesc>This parameter specifies the maximum value of the GBR in the uplink
direction.</m:shortDesc>
  <m:editing creation="mandatory" update="optional" units="kb/s" />
  <m:simpleType base="unsignedShort">
    <m:range multiplicand="1" divisor="1" shift="0" minIncl="1" maxIncl="1024" />
    <m:default value="31" />
  </m:simpleType>
</m:p>
```

## 5. Restart CM enterprise applications:

All CM user interface applications must be closed. Also the restart of CM enterprise applications is needed as root user on WAS DMGR node:

```
/opt/oss/ncis/bin/ncis.sh restart-application CM_Platform
CM_Mediation CM_Apps
```

6. Align Object Information Browser with the changed metadata:

If it is needed to align the OIB tool, the following needs to be done.

Backup OIB files on VM5 as root.

```
# cd /etc/opt/nokia/oss/rac/conf/metadata/cmdlte/aib/releases
# cp -p releaseFL16/ind1_NOKLTE_FL16.xml .
# cp -p releaseFL15A/ind1_NOKLTE_FL15A.xml .
# cp -p releaseFL16/ind1_NOKLTE_FLF16.xml .
```

Edit each of the files above and change the range parameter in parameters qciTab1maxGbrDI and qciTab1maxGbrUI as follows.

```
<rangeandstep value="1..1024 step 1" />
```

OIB application will be updated automatically within an hour.

## 4.2 Implementation instructions for NetAct Plan Editor

1. Change to **config** directory at Plan Editor installation directory
2. Take backup copy of the original files:  
`C_PARAMETER_DECLARATIONS_LTE_FL15A.cf`  
`C_PARAMETER_DECLARATIONS_LTE_FL16.cf`  
`C_PARAMETER_DECLARATIONS_LTE_FLF16.cf`
3. Modify all the 3 text files (one by one similarly to the one example)

Find the below rows:

```
"LTE_LNBTS_QCITAB","qciTab1maxGbrDI","dbLong","1..256kb/s","1","31","BETWEEN 1
AND 256","QCI translation table QCI 1 - Maximum GBR downlink",,,,,,"0","1","0",691009
```

```
"LTE_LNBTS_QCITAB","qciTab1maxGbrUI","dbLong","1..256kb/s","1","31","BETWEEN 1
AND 256","QCI translation table QCI 1 - Maximum GBR uplink",,,,,,"0","1","0",691010
```

Update the range values from **256** as to **1024**:

```
"LTE_LNBTS_QCITAB","qciTab1maxGbrDI","dbLong","1..1024kb/s","1","31","BETWEEN
1 AND 1024","QCI translation table QCI 1 - Maximum GBR downlink",,,,,,"0","1","0",691009
```

```
"LTE_LNBTS_QCITAB","qciTab1maxGbrUI","dbLong","1..1024kb/s","1","31","BETWEEN
1 AND 1024","QCI translation table QCI 1 - Maximum GBR uplink",,,,,,"0","1","0",691010
```

4. Create new empty database for user data (at **Create New Database** dialog)

## 4.3 Reconfiguration instructions

Not needed.

## 4.4 Rollback instructions

1. Login to a WAS node as the `omc` user.
2. Change the directory to the metadata directory  
`omc% cd /etc/opt/nokia/oss/rac/conf/metadata/cmdlte/meta/`
3. Take a backup copy of the modified files:  
`omc% cp nsn_lnbts_fl115a.xml nsn_lnbts_fl115a.xml.modif`  
`omc% cp nsn_lnbts_fl116.xml nsn_lnbts_fl116.xml.modif`  
`omc% cp nsn_lnbts_flf16.xml nsn_lnbts_flf16.xml.modif`

4. Take the original files into use:  
`omc% mv nsn_lnbts_fl116.xml.org nsn_lnbts_fl116.xml`  
`omc% cp nsn_lnbts_fl115a.xml.org nsn_lnbts_fl115a.xml`  
`omc% cp nsn_lnbts_flf16.xml.org nsn_lnbts_flf16.xml`

5. Restart CM enterprise applications:

All CM user interface applications must be closed. Also the restart of CM enterprise applications is needed as root user on WAS DMGR node:

```
/opt/oss/ncis/bin/ncis.sh restart-application CM_Platform
CM_Mediation CM_Apps
```

6. Align Object Information Browser with the changed metadata:

If it is needed to align the OIB tool, the following needs to be done.

Restore the backup OIB files on VM5 as root.

```
# cd /etc/opt/nokia/oss/rac/conf/metadata/cmdlte/aib/releases
# cp ind1_NOKLTE_FL16.xml releaseFL16
# cp ind1_NOKLTE_FL15A.xml releaseFL15A
# cp ind1_NOKLTE_FLF16.xml releaseFLF16
```

OIB application will be updated automatically within an hour.

## 4.5 Rollback instructions for NetAct Plan Editor

1. Change to **config** directory at Plan Editor installation directory
2. Restore the original files from backups:  
`C_PARAMETER_DECLARATIONS_LTE_FL15A.cf`  
`C_PARAMETER_DECLARATIONS_LTE_FL16.cf`  
`C_PARAMETER_DECLARATIONS_LTE_FLF16.cf`

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