

## How to check LTE/NR band passed from RF to Policyman

### 1. Issue summary:

LTE/NR band can be limited by both RF and Policyman. So it will help us to narrow down this kind of band issue quickly to know the band limit from RF

### 2. Solution:

PM hardware bands contains the bands given by RF and the restrictions from hardware\_band\_filtering.xml. We can know if band is limited by RF with below steps

1. Check PM hardware bands (plz follow 2.1 for this) and the restrictions at hardware\_band\_filtering.xml(plz refer to KBA-200130161223).
2. If the band is limited at PM hardware bands, but not limited by hardware\_band\_filtering.xml, then it's limited by RF.

#### 2.1. How to check the PM hardware bands:

a. Search keyword "Default RF bands" or "opr\_mode changed to SYS\_OPRT\_MODE\_ONLINE" in print and check next log 0x1CCA after it. Below is the sample log for this.

```
00:41:16.877062 PM/HighFreq/High/PM [ policyman_rf.c 673] Default RF bands:1
```

```
//log 0x1CCA after this print is PM hardware bands
```

```
00:41:16.877062 [0x1CCA] PM RF Band Info
```

```
09:38:26.992823 PM/HighFreq/Medium/PM [ policyman_state.c 591] opr_mode changed to
```

```
SYS_OPRT_MODE_ONLINE, print all configuration database
```

```
09:38:26.992832 QSH/POWERON/High/PM [ policyman_rf.c 677] RF bands: (from item
```

```
0x88d0f240, seqno 1)1
```

```
09:38:26.992831 [0x1CCA] PM RF Band Info
```

b. Check the RF band after executing device\_config.xml (after executing the line set band to "hardware")

```
//Policy 2017.2.7
```

```
<rf_bands base="hardware" />
```

```
//RF bands after this print is from RF
```

```
19:53:41.922407 MSF/MRE/High/PM [ mre_engine.c 797] client 0 ----- Started executing policy version 2017.2.7.0
(12215027) -----1
```

```
19:53:41.922761 PM/HighFreq/High/PM [ policyman_rf.c 510] {line 82} action <rf_bands> set:
```

```
19:53:41.922802 [0x1CCA] PM RF Band Info
```

```
Lte Bands {
```

```
Lte Bands 1_64 = 0x000001E2020F08DF
```

```
Lte Bands 65_128 = 0x0000000000000000
```

```
Lte Bands 129_192 = 0x0000000000000000
```

```
Lte Bands 193_256 = 0x0000000000000000
```

```
}
```

```
Nr5g Sa Bands {
```

```
Nr5g Sa Bands 1_64 = 0x0000010008000001
```

**Q&&A:**

**Q1. Why there's no log 0x1CCA in our QXDM log?**

Plz make sure below log packet enabled in log mask. All Policyman band print is moved to this log now. On HI.2.5/HI.4.3/DE.1.0 build, plz refer to KBA-220516220557 to enable more 0x1CCA log.

log->Common->PM->0x1CCA PM band info

**Q2 If RF band enabled in log 0xB826(NR5G RRC Supported CA Combos) and 0xB0CD(LTE RRC Supported CA Combos), does this mean RF also pass the correct band to Policyman?**

No, RF could pass different to AS and Policyman. We met such issue before

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