



Presentation

PM File Format & Name Convention

using Huawei and Ericsson as examples

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Correct Format of PM files submitted- Name Convention, Format and Granularity(min, max)

Based on the vendor, PM files export format could be: ASN.1, CSV, TXT, or XML (3GPP TS 32.401)

For HUAWEI , PM files could be exported in XML or CSV format

XML

- Correct naming convention for **XML** PM file for compatibility **with RPM system** and in tandem with **3GPP TS 32.432**

AYYYYYMMDD.HHMM+UTC-HHMM+UTC_enodeBID.xml 4G (1H)

AYYYYYMMDD.HHMM+UTC-HHMM+UTC_RNCidRNC.xml 3G (30min)

AYYYYYMMDD.HHMM+UTC-HHMM+UTC_BSCIDBSC.xml 2G (1H)

Ex. A20181129.0000+0100-0100+0100_L0302CEDAR.xml 4G

A20190109.2000+0200-2030+0200_RCNA02RNC.xml 3G

A20181003.1000+0200-1100+0200_MPU01BSC.xml 2G

- **Maximum acceptable** Granularity for **2G** and **4G** should be **60min** where as **3G** should be **30min**.
- **Minimum acceptable** Granularity for **2G, 3G** and **4G** should be **15min**



Correct Format of PM files submitted- Naming

- For HUAWEI , PM files could be exported in XML or CSV format

CSV

- Correct naming convention for CSV PM file for compatibility with RPM system and in tandem with 3GPP TS 32.432

pmresult_<file_ID>_<granularity>_<start datetime(yyyymmddhhmm)>_<enddatetime(yyyymmddhhmm)>.csv

ex. pmresult_1275072528_60_201901140900_201901141000.csv 2G

pmresult_67109391_30_201901140930_201901141000.csv 3G

- pmresult_1526726657_60_201901140930_201901141000.csv 4G

Where File_ID (or Function set Id)	2G	127XXX
	3G	671XXX
	4G	152XXX

Granularity for 2G and 4G should be 60min (Max) where as 3G should be 30min (max)

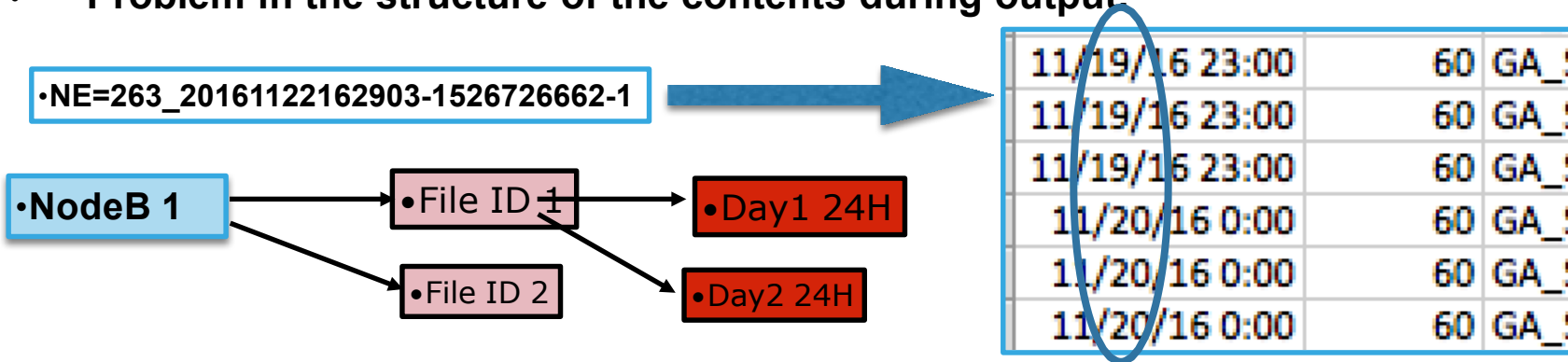


Common errors in PM files submitted - Structure

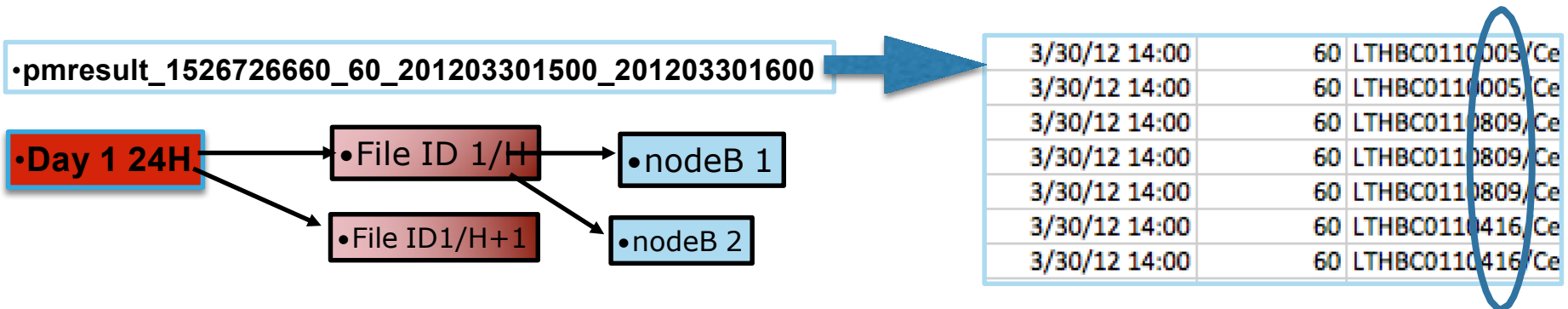
•PM File Review

•CSV Format PM files:

- Problem in the structure of the contents during output



- Not OK and no **<end date><end time>** in naming thus not respecting **3GPP TS 32.432** which clearly specifies that there should be a start time and end time in the naming of the PM file.





Common errors in PM files submitted- Naming

•CSV format PM Files:

- Problem in the regular expression of files linked to *wrong name convention* while outputting these PM files.

•NE=263_20161122162903-1526726662-1

•NE=263_20161122162903-1526726685-1

- Correct name convention for *CSV format PM file* for compatibility with RPM system and in tandem with *3GPP TS 32.432*

pmresult_<file_ID>_<granularity>_<start datetime(yyyymmddhhmm)>_<enddatetime(yyyymmddhhmm)>.csv

ex. pmresult_1526726685_60_201203302300_201203310000.csv



Common errors in PM files submitted - Transfer

For **ERICSSON** , PM files could be exported in **ASN.1** format for **2G** and **XML** for **3G** and **4G**

ERICSSON BSS (2G) :

- The following two files are the only two Ericsson BSS files in ASN.1 format beginning with the letter **C**:

C20161122.1400-20161122.1500_ACEVB03_1001 → C20161122.1400-20161122.1500_ACEVB03:1001
C20161119.1400-20161119.1500_ACMSS01_1000 → C20161119.1400-20161119.1500_ACMSS01:1000

- Problem in the regular expression of files linked to unzipping these PM files in windows OS.
- Solution is to replace the '_' with ':' at the end in a linux OS for compatibility with RPM system
- During transfer of Ericsson BSS PM files, files should be Tar compressed in linux OS transferred via VPN and unzipped in RPM system



Common errors in PM files submitted- Structure

ERICSSON UTRAN (3G) :

- UTRAN PM files are those files starting with the letter **A**

A20161029.1300+0000-1315+0000_SubNetwork=ONRM_ROOT_MO,SubNetwork=KSRNC02,MeContext=TUMU_statsfile.xml
A20161029.1315+0000-1330+0000_SubNetwork=ONRM_ROOT_MO,SubNetwork=KSRNC02,MeContext=TUMU_statsfile.xml
A20161119.1345+0000-20161119.1400+0000_Meas_bssgp_14B_ACSGSN03.140
A20161119.1345+0000-20161119.1400+0000_Meas_bssgp_all_14B_ACSGSN03.140
A20161119.1445-1500_ACMGW06_1.xml
A20161119.1445-1500_ACMGW11_1.xml
A20161119.1445+0000-1500+0000_ACEPG01_pgw.xml

- Only the following **two files** correspond to **RNC** files, others are core network files (SGSN, PGW) thus not compatible with RPM system.

A20161029.1300+0000-1315+0000_SubNetwork=ONRM_ROOT_MO,SubNetwork=KSRNC02,MeContext=TUMU_statsfile.xml
A20161029.1315+0000-1330+0000_SubNetwork=ONRM_ROOT_MO,SubNetwork=KSRNC02,MeContext=TUMU_statsfile.xml

- Operators should submit only **RNC UTRAN PM** files



Common errors in PM files submitted - Content

General:

On OMC server, 1 subdirectory correspond to one equipment (RNC) under

“/var/opt/ericsson/nms_ums_pms_seg/segment1/SubNetwork=RNC_NAME/MeContext=RNC_NAME”

Be sure that the last directory is named “MeContext=...”

SubNetwork=RNC_NAME/MeContext=RNC_NAME”

- Correct format but not required limited to cell level

```
A20161029.1300+0000-1315+0000_SubNetwork=ONRM_ROOT_MO,SubNetwork=KSRNC02,MeContext=TUMU_statsfile.xml
A20161029.1315+0000-1330+0000_SubNetwork=ONRM_ROOT_MO,SubNetwork=KSRNC02,MeContext=TUMU_statsfile.xml
```

- Correct required PM file would be for **3G**: (xxx,**MeContext=RNC_Id**)

•A20161029.1315+0000-13.30+0000_SubNetwork=ONRM_ROOT_MO,SubNetwork=KSRNC02,**MeContext=KSRNC02**_statsfile.xml

- Correct required PM file would be for **4G**: (xxx,**MeContext=Enodeb_Id**)

•A20131112.1745-0400-1800-0400_SubNetwork=ONRM_ROOT_MO,SubNetwork=Prod_LTE_NBA,**MeContext=NBA009L**_statsfile.xml

Thank You



Planet Network
International