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Objet / Subject: RPM OMC 5.0 ZTE BSS – Technical description	

This document describes all technical points related to " RPM OMC 5.0 – ZTE BSS "

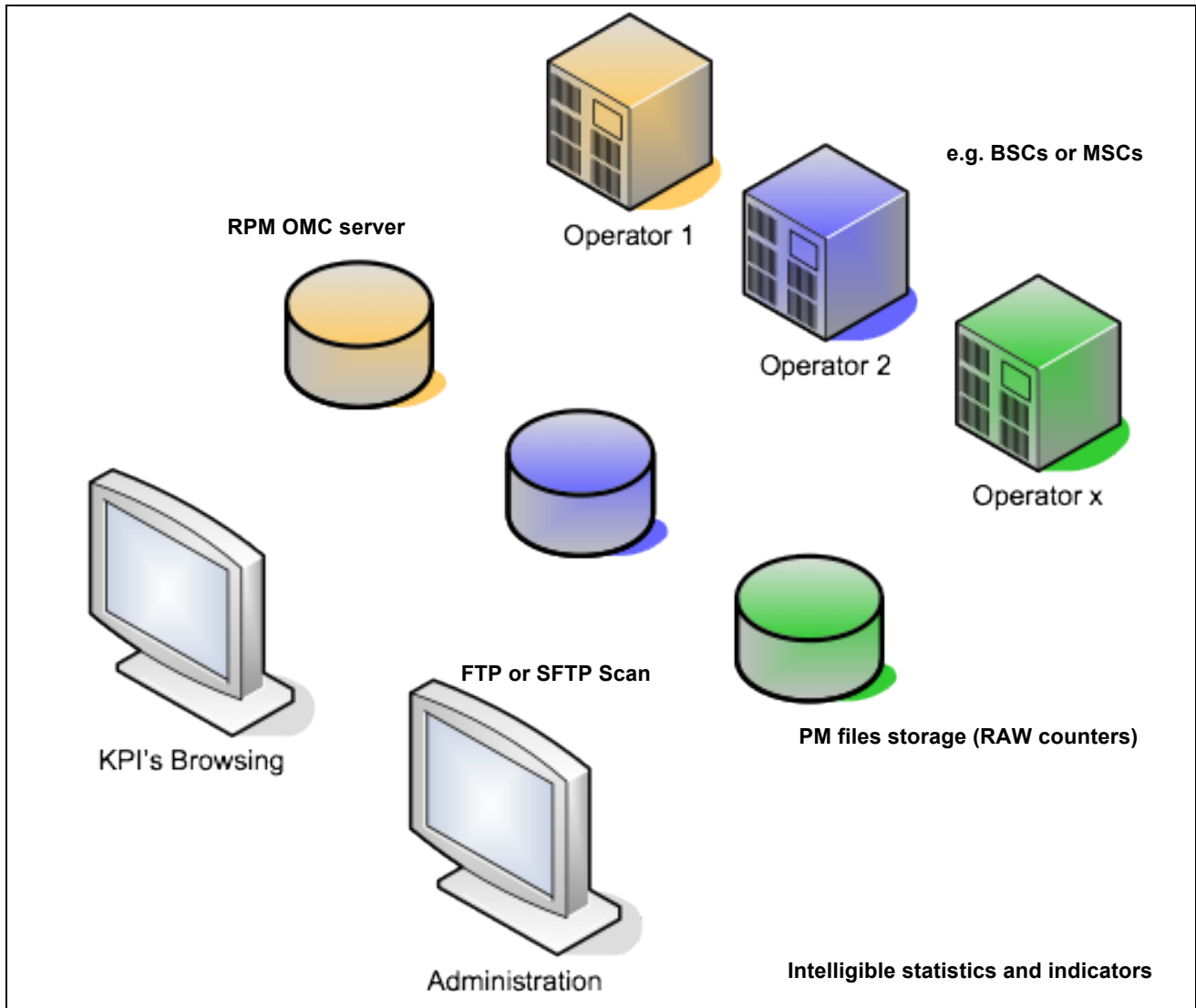
- General RPM OMC overview
- Customer Requirements
- PM File Collection
- RPM OMC description
- RPM OMC configuration (Connections & Process)

Revisions			
Revision	Date	Writer	Object
20150625	25/06/15	PNI	Update and clarification.
20130909	09/09/13	PNI	Update connection setting and Add an equipment
20100506	06/05/10	PNI	Update Expertise HTML link & Tasks Scheduler conf
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1. RPM OMC OVERVIEW	3
2. CUSTOMER REQUIREMENTS	5
2.1. OMC SERVER – IT REQUIREMENTS	5
2.2. SPECIFIC CONFIGURATION ON OMC SERVER	5
2.3. EQUIPMENT RELEASE COLLECTION	5
2.4. VENDOR DOCUMENTATION	5
3. PM FILES COLLECTION	5
3.1. PM FILES LOCATION	5
3.2. PM FILES FORMAT	6
3.3. PM FILES HISTORY	6
3.4. PM FILES SAMPLES	6
3.5. OBJECT TYPES	6
4. RPM OMC DESCRIPTION	8
4.1. FAMILIES & TOPOLOGIES	8
4.1.1. INT – GSM	8
4.1.2. INT – GPRS	8
4.2. ADDITIONAL INFORMATION	8
5. RPM OMC CONFIGURATION	9
5.1. SETUP CONNEXION	9
6. CONTACT	9

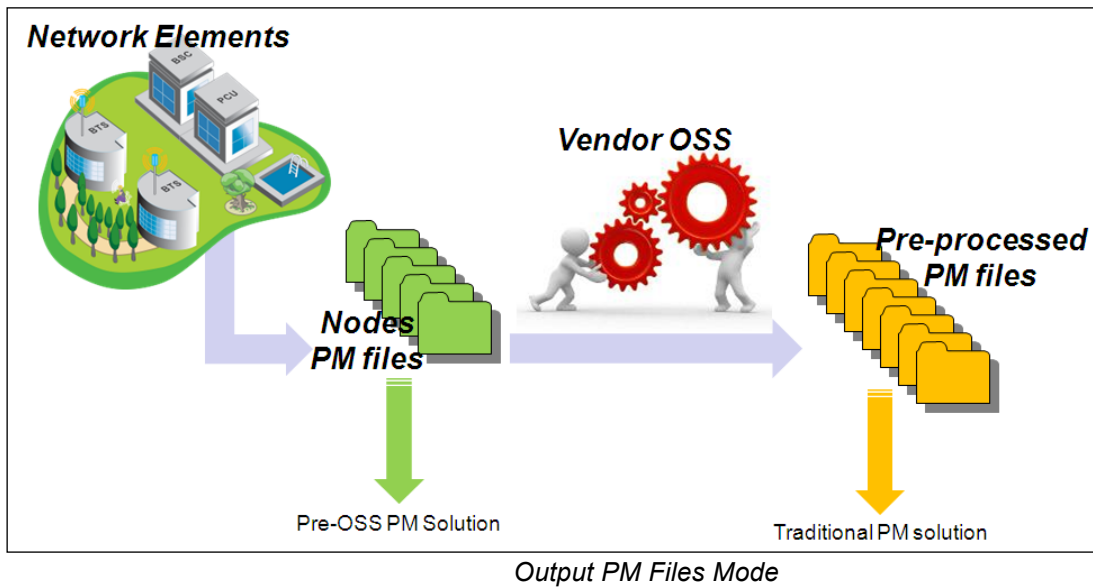
1. RPM OMC OVERVIEW

This chapter describes basically how RPM OMC ZTE BSS operates.



RPM OMC Architecture

The RPM OMC application integrates PM source files coming from network Nodes and centralized on OSS server. The connection on OSS Database could be different depending on the vendor and customer choice (FTP/SFTP/Direct Access)



Main Remarks about RPM OMC 5.0 – ZTE_BSS

Product Release	RPM OMC 5.1 – ZTE BSS
Stat Availability	PM files
Collect Mode	Default FTP (directory scan)
Connexion definition	One connexion per equipment
OSS system	ZXG10 OMCR (V2.0)
PM Files Location	Description available in chapter PM File Location
PM Files format	CSV files
Output PM File Mode	Post-OSS
OSS System	N/A
Data Base Type	N/A

2. CUSTOMER REQUIREMENTS

This chapter describes how all information you need before going on site.

2.1. OMC SERVER – IT REQUIREMENTS

Comment:

On ZTE OMC servers, PM files are usually generated under :

“/export/home/omc/netnumen/ems/ums-server/rundata/ppus/minos.ppu/minos-naf.pmu/db/GSMV3/PM” directory.

This should be confirmed by the Customer.

2.2. SPECIFIC CONFIGURATION ON OMC SERVER

Depending on each vendor, a specific configuration on OMC side can be needed in order to generate PM files in a known format by RPM application.

Source files are generated automatically by ZTE, nevertheless, if the files are not available on the specific directory on the OMC server, the customer may need to ask ZTE to start the generation of the PM files. A license may be necessary for it.

A check is mandatory in order to check the availability of the source files. The availability of the files under the proposed path is not under PNI responsibility.

2.3. EQUIPMENT RELEASE COLLECTION

In order to avoid any surprise on site, it is recommended to ask the customer to provide:

- A sample of PM files in order to check their format, name etc...
- Equipment releases (ZXG10 iBSC)

Equipment releases compatibility is described in RPM OMC release description.

2.4. VENDOR DOCUMENTATION

All RAW counters and PM files related documentation available (Counter and KPi definition, PDF documents, etc.) will be highly appreciated from Customer and will allow PNI to anticipate the vendor amendments.

The PNI responsible of this project must collect the available documentation. These documents can be delivered on PNI FTP server.

3. PM FILES COLLECTION

RPM OMC ZTE BSS manages post-OSS PM-files. Following sections will provide the related information.

3.1. PM FILES LOCATION

This chapter describes where PM files are generated on OMC server.

→ BSS stats are stored on the same ZTE OMC server under **“/export/home/omc/netnumen/ems/ums-server/rundata/ppus/minos.ppu/minos-naf.pmu/db/GSMV3/PM”** directory.

→ Under this directory all days data are stored.

3.2. PM FILES FORMAT

This chapter describes PM file format(s) RPM OMC is able to parse.

→ On ZTE OMC server, PM file format is fixed (CSV format). So there's no specific configuration to do on ZTE OMC server regarding PM file format.

→ PM files can be generated every ¼ H, ½ H, 1 H.

→ There is one file per statistic family containing all the data for the cells.

3.3. PM FILES HISTORY

It is mandatory for RPM OMC ZTE BSS correct running that PM files remain available on ZTE OMC server at least for 24 hours. Usually, pm-files remain available for about three days. The longer the files remain available on OMC server, the more flexible the solution will be in case of needed data re-integration

3.4. PM FILES SAMPLES

Find bellow an example of ZTE BSS PM files (Collection period: 21th July 2011 – 10h00 to 11h00 ; File name: 100001_CSBasicMeasurement_201107211000_201107211100.csv



ZTE_PMFFiles_Sample
s.zip

3.5. OBJECT TYPES

This chapter describes the list of OMC PM file type.

List of all PM file type defined and integrated into RPM OMC ZTE BSS: (1 file)

Statistics Function Type Measure Type	Family	Import per default	Release ZTE BSS documentation
ABISMessageCountMeas	BSS	YES	ZXG10 iBSC (V6.20)
BSSGPFlowStatistic	BSS	YES	ZXG10 iBSC (V6.20)
GeneralHandoverMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
HandoverCauseMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
MSTAMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
RadioAccessMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
RadioMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
RadioResourceAvailableMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
RMMAssignmentMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
RMMCallDropMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
SAPI3Measurement	BSS	YES	ZXG10 iBSC (V6.20)

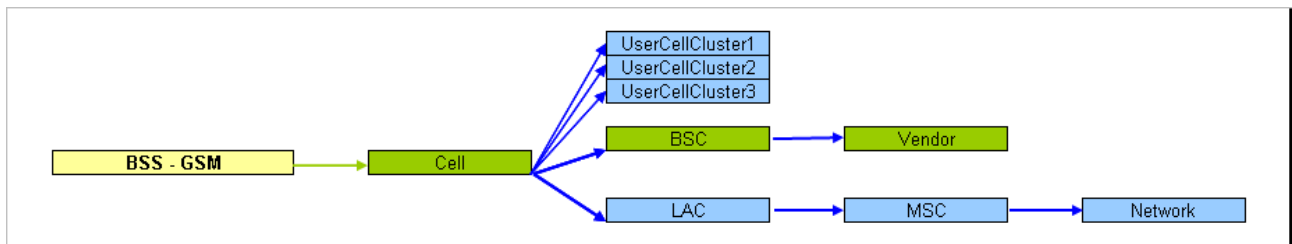
SDCCHMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
SubCellStatistic	BSS	YES	ZXG10 iBSC (V6.20)
TCHFMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
TCHHMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
CSBasicMeasurement	BSS	YES	ZXG10 iBSC (V6.20)
DataFlowMeasurement	GPRS	YES	ZXG10 iBSC (V6.20)
DownlinkDataTBFMeasurement	GPRS	YES	ZXG10 iBSC (V6.20)
DownlinkEGPRSDataTBFStatistic	GPRS	YES	ZXG10 iBSC (V6.20)
DownlinkGPRSDataTBFStatistic	GPRS	YES	ZXG10 iBSC (V6.20)
GBMessageStatisticBVC	GPRS	YES	ZXG10 iBSC (V6.20)
UpdownPACCHStatistic	GPRS	YES	ZXG10 iBSC (V6.20)
UpdownRLCStatistic	GPRS	YES	ZXG10 iBSC (V6.20)
UplinkDataTBFMeasurement	GPRS	YES	ZXG10 iBSC (V6.20)
UplinkEGPRSDataTBFStatistic	GPRS	YES	ZXG10 iBSC (V6.20)
UplinkGPRSDataTBFStatistic	GPRS	YES	ZXG10 iBSC (V6.20)
CellPSBasicMeasurement	GPRS	NO	ZXG10 iBSC (V6.20)
PSResourceUsedStatistic	BSS & GPRS	YES	ZXG10 iBSC (V6.20)
CPU_LoadMeasurement	BSS & GPRS	YES	ZXG10 iBSC (V6.20)
AdjacentCellHandoverMeasurement	Adjacencies	NO	ZXG10 iBSC (V6.20)
TRXMeasurement	TRX	NO	ZXG10 iBSC (V6.20)
TSMeasurement	TS	NO	ZXG10 iBSC (V6.20)
DataFlowMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
AccessControlDetailedCauseMeasuremen	OTHER	NO	ZXG10 iBSC (V6.20)
AMRRateStatistic	OTHER	NO	ZXG10 iBSC (V6.20)
BSSGPFlowStatistic	OTHER	NO	ZXG10 iBSC (V6.20)
BSCPSBasicMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
CMInfoBasicMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
HOSynchronizationModeMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
LAPDmMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
MRAdjacentCellMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
OtherProcessStatistic	OTHER	NO	ZXG10 iBSC (V6.20)
PowerControlMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
PPPChannelStatistic	OTHER	NO	ZXG10 iBSC (V6.20)
PSResourceUsedStatistic	OTHER	NO	ZXG10 iBSC (V6.20)
QueueMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
ReserveChannelMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
SDCCHGeneralHandoverMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)
TerminalAbilityStatistic	OTHER	NO	ZXG10 iBSC (V6.20)
PagingMessageMeasurement	OTHER	NO	ZXG10 iBSC (V6.20)

4. RPM OMC DESCRIPTION

4.1. FAMILIES & TOPOLOGIES

This chapter describes statistics families defined on RPM OMC.

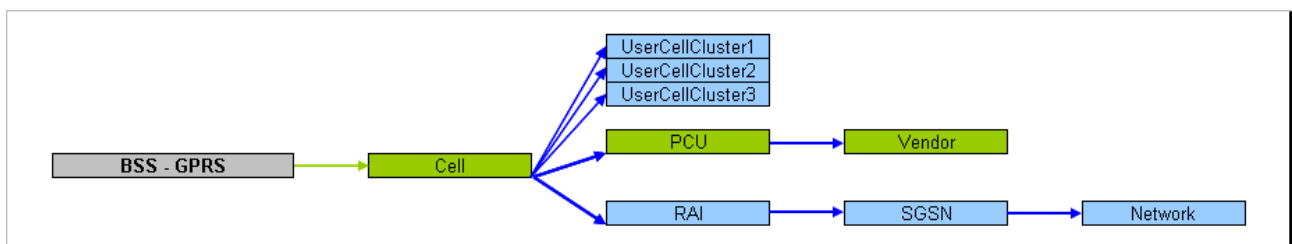
4.1.1. INT – GSM



→ Network levels description:

Extracted from PM files	Cell, BSC
Need to be updated manually	LAC, MSC, Network, Clusters
Automatically filled by RPM	Vendor
Cell ID format	<Cell ID>

4.1.2. INT – GPRS



→ Network levels description:

Extracted from PM files	Cell, PCU,
Need to be updated manually	RAI, SGSN, Network, Clusters
Automatically filled by RPM	Vendor
Cell ID format	<Cell ID>.

4.2. ADDITIONAL INFORMATION

- *Automatic PM file import activation:*

If the customer wants to use a counter from a deactivated file (see list in 4.2 chapter), activate the counter from “Mapping > Counters Activation” menu.

The file will be automatically imported during the next Retrieve.

5. RPM OMC CONFIGURATION**5.1. SETUP CONNEXION**

This chapter describes how to configure connections on RPM OMC.

General:

On OMC server, 1 subdirectory corresponds to one equipment () under
“**/export/home/omc/netnumen/ems/ums-server/rundata/ppus/minos.ppu/minos-
naf.pmu/db/GSMV3/PM**”

6. CONTACT

If you encountered any problem on RPM-OMC, follow the regular support process (support@planetnetworkint.com or Support Operation Engineer).

Contact Advanced Projects:

- Mail: gniang@planetnetworkint.com
- FTP server: [please contact Gorgui NIANG for access](#)