

Rédacteur / Written by: PNI	Date de rédaction / Writing date: 25/06/2015
Diffusion / Recipients: PNI / Customers	
Objet / Subject: RPM OMC 5.1 Ericsson BSS – Technical Description	

This document describes all technical points related to “RPM OMC 5.1 – Ericsson BSS”

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

Revisions			
Revision	Date	Writer	Object
20150625	25/06/2015	PNI	Post-OSS compatibility removal.
20130423	23/04/2013	PNI	Pre-OSS equipment add integration.
20120223	23/02/2012	PNI	Update and clarification.
20120215	15/02/2012	PNI	Pre-OSS compatibility integration.
20100104	04/01/2010	PNI	Document Creation.

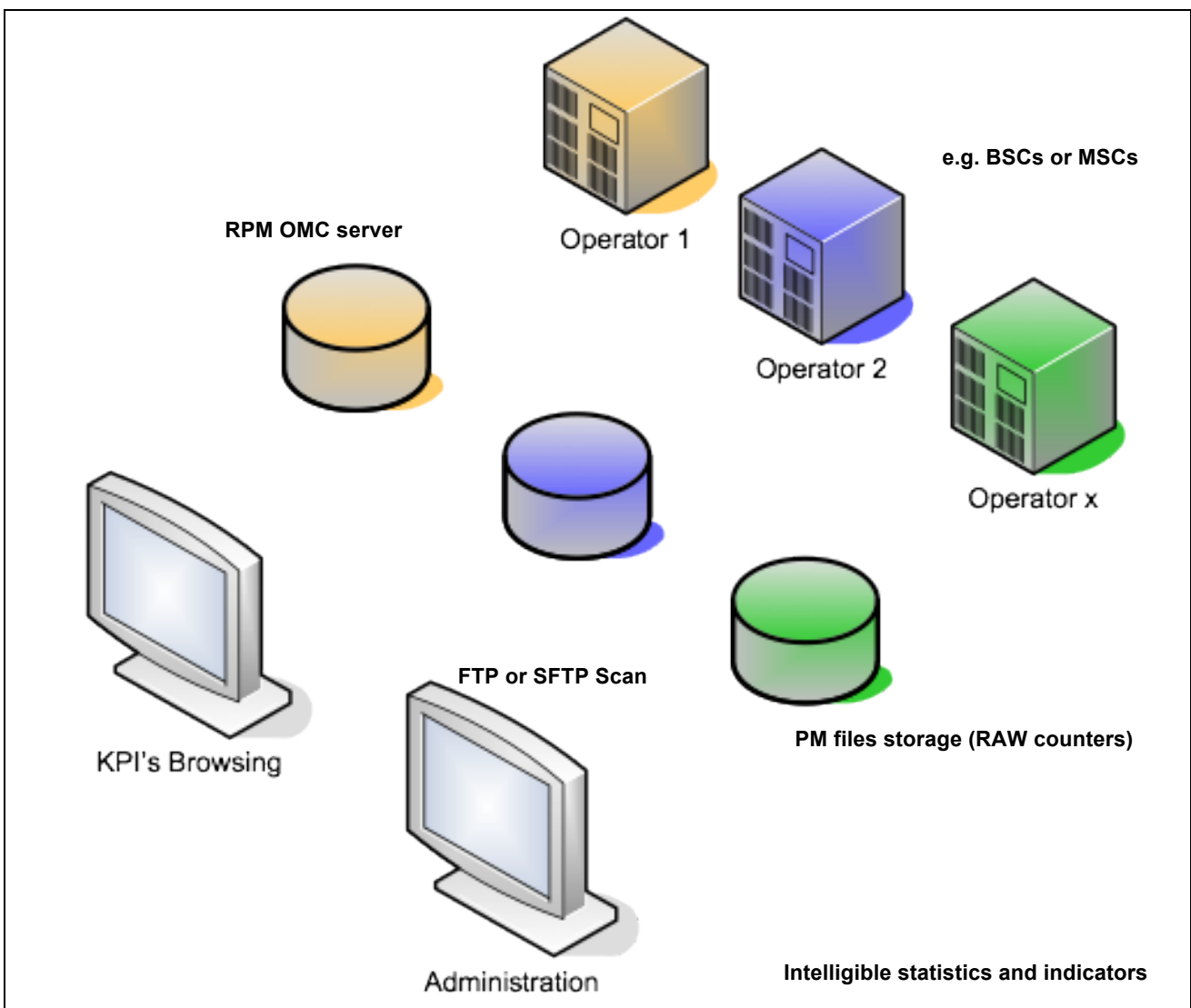
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1. RPM OMC OVERVIEW

Main Remarks about RPM OMC 5.1 – Ericsson BSS

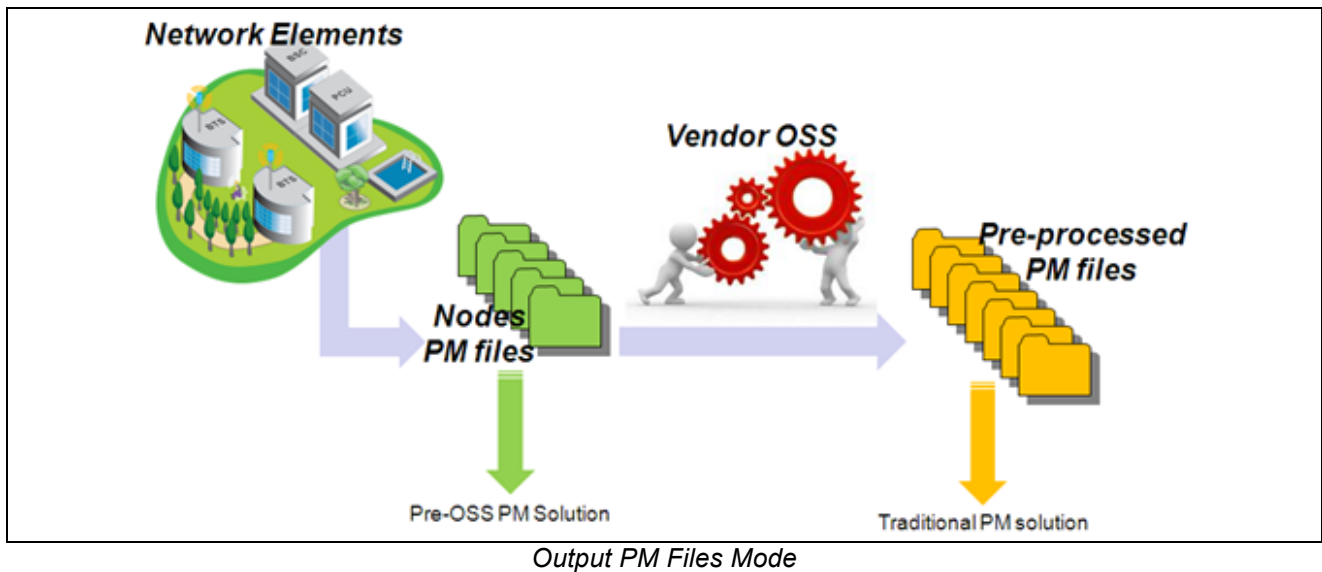
Product Release	RPM OMC 5.1 – Ericsson BSS
Stat Availability	PM files
Collect mode	Default FTP (directory scan)
Connexion definition	One connexion per equipment
PM Files format	ASN.1 files
PM Files Location	Description available in chapter PM File Location
Output PM File Mode	Pre-OSS
OSS system	Sun Solaris
Data base Type	N/A

This chapter describes basically how RPM OMC Ericsson 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).



Output PM Files Mode

2. CUSTOMER REQUIREMENTS

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

2.1. 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. Regarding Ericsson BSS, there's no specific configuration to do.

2.2. EQUIPMENT RELEASE COLLECTION

In order to avoid any issue 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 (BSC, PCU, RNC, MSC, MSS, HLR, MGW, SCP, SGSN, HLR)

Equipment releases compatibility is described in RPM OMC release description document.

3. PM FILES

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

3.1. LOCATION

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

All BSC statistics are stored on the same Ericsson OMC server under the following directory:

/var/opt/ericsson/sgw/outputfiles/apgfiles/sts/

Under this directory, one subdirectory corresponds to one equipment (ex: each BSC has its pm-files located under one specific directory).

NB: This directory can contain NSS statistics as well.

3.2. FORMAT

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

On Ericsson OMC server, PM file format is fixed. So there's no specific configuration to do on Ericsson OMC server regarding PM file format. BSS file are generated on hourly basis.

Perform anyway a quick check on the filenames with information available in the [Samples](#) section.

RPM OMC Ericsson BSS manage hourly PM files.

3.3. HISTORY

It is mandatory for RPM OMC Ericsson BSS correct running that PM files remain available on Ericsson OMC server at least for 24 hours. Usually, pre-OSS 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. SAMPLES

Find bellow an example of Ericsson BSS PM files (Collection period: 25th October 2011 – 12h00 to 13h00 ; File name: C20111025.1200-20111025.1300_ABCBSC1:1005):



C20111025.1200-20
111025.1300_ABCBS

3.5. OBJECT TYPES

This section describes the list of Ericsson Object types.

List of all Object types/PM files defined and integrated into RPM Ericsson BSS (60 files):

CCCHLOAD ; CELEVENTD ; CELEVENTH ; CELEVENTI ; CELEVENTS ; CELEVENTSC ;
CELLCCHHO ; CELLEIT ; CELLEIT2 ; CELLGPRS ; CELLGPRS2 ; CELLGPRS3 ; CELLGPRS4
; CELLGPRSO ; CELLQOSEG ; CELLQOSG ; CELLQOSS ; CELTCHF ; CELTCHFP ; CELTCHH ;
CHGRP0F ; CHGRP0H ; CLDTMQOS ; CLRATECHG ; CLSDCCH ; CLSDCCHO ; CLTCH ;
CLTCHDRAF ; CLTCHDRAH ; CLTCHDRF ; CLTCHDRH ; CLTCHEAS ; CLTCHFV1 ; CLTCHFV2 ;
CLTCHFV3 ; CLTCHFV3C ; CLTCHHV1 ; CLTCHHV3 ; CLTCHHV3C ; IDLEOTCHF ; IDLEOTCHH ;
IDLEUTCHF ; IDLEUTCHH ; NCELLREL ; NECELASS ; NECELHO ; NECELHOEX ; NCELLREL ;
NICELASS ; NICELHO ; NICELHOEX ; NUCELLREL ; PREEMP ; RANDOMACC ; RLINKBITR ;
RNDACCEXT ; TRAFDLGPRS ; TRAFGPRS2 ; TRAFGPRS3 ; TRAFULGPRS.

List of all Object types/PM files defined but not integrated by default into RPM Ericsson BSS (55 files):

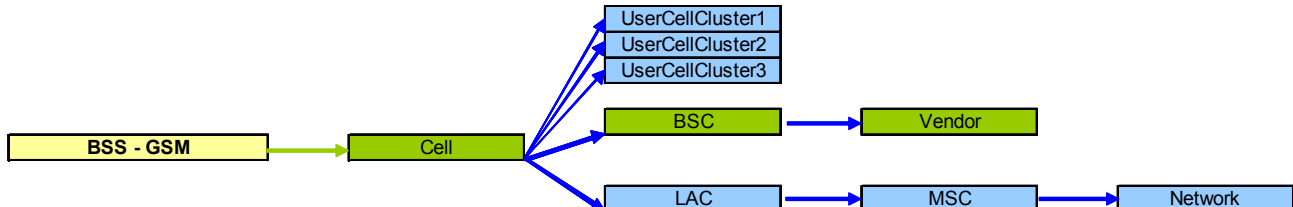
ABISIP ; ABISTG ; ATERTRANS ; BSC ; BSCGEN ; BSCGPRS ; BSCGPRS2 ; BSCMSLOT ;
BSCPOS ; BSCQOS ; CELLAFFER ; CELLAHFER ; CELLCCHDR ; CELLCONF ; CELLDUALT ;
CELLEFFER ; CELLFERF ; CELLFERH ; CELLFFER ; CELLFLXAB ; CELLGEN ; CELLHCS ;
CELLHFER ; CELLHSCSD ; CELLMSCAP ; CELLMSQ ; CELLPAG ; CELLPOS ; CELLSQI ;
CELLSQIDL ; CHGRP0SQI ; CLDTMEST ; CLDTMPER ; CLQOSSCON ; CLQOSSCON2 ; CLRQUAL
; CLSMS ; CLVGCSEST ; DELSTRBF ; DOWNTIME ; EMGPRS ; GPHLOADREG ; GRPSWITCH ;
LAPD ; LOADREG ; LOAS ; LOASMISC ; MOTG ; MOTS ; PGW ; PGWLDIST ; SUPERCH ;
TRALOST ; TRAPCOM ; TRH.

4. RPM OMC DESCRIPTION

4.1. FAMILIES & TOPOLOGIES

This chapter describes statistics families defined on RPM OMC.

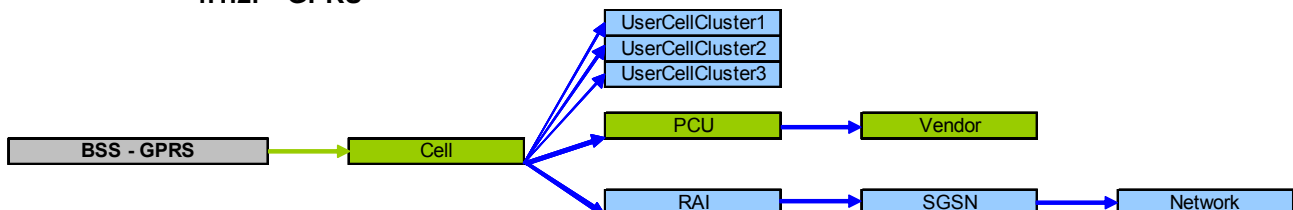
4.1.1. GSM



Network levels description:

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

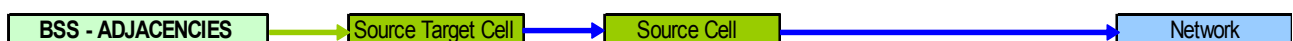
4.1.2. GPRS



Network levels description:

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

4.1.3. ADJACENCIES



Network levels description:

Extracted from PM files	Source Target Cell, Source Cell
Need to be updated manually	Network

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 following Retrieve process.

5. RPM OMC CONFIGURATIONGeneral:

On ERICSSON OMC server, All BSC statistics are stored on the same subdirectory :
“**/var/opt/ericsson/sgw/outputfiles/apgfiles/sts/**”
”

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](#)