amdocsrating

Rating 6.0 Run Book



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Contents

1.	Introduction	1
	Scope of this Document	1
	Batch Job Information	1
	Language	2
	Input and Output Directories	
	General Troubleshooting	
	I/O Errors	
	Database Access Errors	
	Missing or Invalid Data Errors	
	Other Errors	
	General Environment Settings	3
	Changing Job Environment Variables	
	Terminology	
2.	PM1RUNRATER - Rater	
	Description	
	Normal Mode	
	Recovery Mode	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Job Activation	
	Job Shutdown	
	Log Files	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Concurrent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	11

3.	PM1STOPRATER - Stop Rater	13
	Description	13
	Job Type	
	Run Frequency	13
	Activation and Shutdown	13
	Log File	13
	Job Flow	13
	Run Level	13
	Preceding Processes	13
	Dependent Processes	13
	Input Files	14
	Flow	14
	Output Files	14
	Parameters	14
	Databases	14
	Distribution	14
	Console Messages	
	Troubleshooting	
	Recovery Instructions	
	•	
4.	PM1SUSPENDRTR/PM1RESUMERTR - Suspend/Resume Rater	
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Processes	
	Dependent Processes	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	16
	Distribution	16
	Console Messages	16
	Troubleshooting	17
	Recovery Instructions	17
5.	PM1CMGENEXT - Customer Management Extract	10
J.	Description	
	·	
	Job Type	
	Run Frequency	
	Log File	∠0

Run Level. Preceding Processes Dependent Processes. Input Files. Flow Output Files. Parameters Databases Distribution Console Messages. Troubleshooting Recovery Instructions. 5. PM1LOAD - Load Description Job Type. Run Frequency. Activation and Shutdown. Log File Job Flow Run Level. Preceding Processes Dependent Processes. Input Files. Flow Output Files. Parameters Databases Distribution Console Messages. Troubleshooting Recovery Instructions Parameters. Databases Distribution Console Messages. Troubleshooting Recovery Instructions. 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type. Run Frequency. Activation and Shutdown. Log File	20
Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type Run Frequency Activation and Shutdown. Log File. Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown. Log File.	
Input Files Flow Output Files Parameters Databases Distribution Console Messages. Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type Run Frequency. Activation and Shutdown. Log File. Job Flow. Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency. Activation and Shutdown. Log File.	21
Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 5. PM1LOAD - Load Description Job Type Run Frequency. Activation and Shutdown. Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency. Activation and Shutdown. Log File 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency. Activation and Shutdown. Log File	
Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type Run Frequency Activation and Shutdown Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	21
Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions. 6. PM1LOAD - Load Description Job Type Run Frequency Activation and Shutdown Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File Run Frequency Activation and Shutdown Log File	21
Databases Distribution Console Messages Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type Run Frequency Activation and Shutdown Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	21
Distribution Console Messages Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type Run Frequency Activation and Shutdown Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	22
Console Messages Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type Run Frequency Activation and Shutdown Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	22
Console Messages Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type Run Frequency Activation and Shutdown Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	22
Troubleshooting Recovery Instructions 6. PM1LOAD - Load Description Job Type. Run Frequency. Activation and Shutdown Log File. Job Flow. Run Level Preceding Processes Dependent Processes. Input Files. Flow. Output Files. Parameters. Databases Distribution Console Messages. Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type. Run Frequency. Activation and Shutdown Log File.	
Recovery Instructions 5. PM1LOAD - Load Description Job Type. Run Frequency. Activation and Shutdown Log File. Job Flow. Run Level Preceding Processes Dependent Processes. Input Files. Flow. Output Files. Parameters. Databases Distribution Console Messages. Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type. Run Frequency. Activation and Shutdown Log File.	
Description Job Type. Run Frequency. Activation and Shutdown. Log File. Job Flow. Run Level. Preceding Processes. Dependent Processes. Input Files. Flow. Output Files. Parameters. Databases. Distribution. Console Messages. Troubleshooting. Recovery Instructions. 7. PM1STOPCMGEXT - Stop Incremental Extract. Description. Job Type Run Frequency. Activation and Shutdown. Log File.	
Description Job Type. Run Frequency. Activation and Shutdown. Log File Job Flow. Run Level Preceding Processes Dependent Processes Input Files. Flow. Output Files. Parameters Databases Distribution Console Messages. Troubleshooting Recovery Instructions. 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type. Run Frequency. Activation and Shutdown. Log File.	22
Job Type	23
Run Frequency	23
Activation and Shutdown. Log File Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	23
Log File Job Flow Run Level	23
Job Flow Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	23
Run Level Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	23
Preceding Processes Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	24
Dependent Processes Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	24
Input Files Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	24
Flow Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions. 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	24
Output Files Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	24
Parameters Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	24
Databases Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File	24
Distribution Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File.	25
Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File.	25
Console Messages Troubleshooting Recovery Instructions 7. PM1STOPCMGEXT - Stop Incremental Extract Description Job Type Run Frequency Activation and Shutdown Log File.	25
Troubleshooting	
Recovery Instructions	
7. PM1STOPCMGEXT - Stop Incremental Extract	
Description Job Type Run Frequency Activation and Shutdown Log File	20
Job TypeRun FrequencyActivation and ShutdownLog File	27
Run FrequencyActivation and ShutdownLog File	27
Activation and ShutdownLog File	27
Log File	27
•	27
•	27
Job Flow	
Run Level	
Preceding Processes	
Dependent Processes	
Input Files	
Flow	28

	Output Files	28
	Parameters	28
	Databases	28
	Distribution	28
	Console Messages	
	Troubleshooting	
	Recovery Instructions	
8.	PM1STOPCMLD - Stop Incremental Load	29
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Processes	
	Dependent Processes	
	Input Files	30
	Flow	30
	Output Files	30
	Parameters	30
	Databases	30
	Distribution	30
	Console Messages	30
	Troubleshooting	
	Recovery Instructions	
	·	
9.	PM1UEXTEVENT - Event Extract	
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	
	Distribution	
	Console Messages	
	Troubleshooting	33

	Recovery Instructions	33
10.	PM1UEXTPI - PI Extract	35
	Description	35
	Job Type	35
	Run Frequency	35
	Activation and Shutdown	35
	Log File	35
	Job Flow	36
	Run Level	36
	Preceding Jobs	36
	Dependent Jobs	36
	Input Files	36
	Flow	36
	Output Files	36
	Parameters	37
	Databases	37
	Distribution	37
	Console Messages	37
	Troubleshooting	37
	Recovery Instructions	
11.	PM1EVEXT - Cycle Event Extract Request	39
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	39
	Job Flow	39
	Run Level	
	Preceding Jobs	40
	Dependent Jobs	40
	Input Files	40
	Flow	40
	Output Files	40
	Parameters	40
	Databases	41
	Distribution	41
	Console Messages	41
	Troubleshooting	41
	Recovery Instructions	
12.	PM1PIEXT - Cycle PI Extract Request	43
	Description	
	Job Type	
	Run Frequency	
	1 ,	

	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	44
	Databases	45
	Distribution	45
	Console Messages	45
	Troubleshooting	45
	Recovery Instructions	
40	DM4DCVCVCLEVT DVCvcnt Extract Decovery Cycle Mode	
13.	PM1RCVCYCLEXT - PI/Event Extract Recovery Cycle Mode Request	47
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Databases	
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	49
14.	PM1RCVCUSTEXT - PI/Event Extract Recovery Customer Mode	.51
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	-1	

	Input Files	52
	Flow	52
	Output Files	52
	Parameters	52
	Databases	52
	Distribution	52
	Console Messages	52
	Troubleshooting	
	Recovery Instructions	
15.	PM1POREREXT - Post Re-rate Extract Request	55
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	
	Distribution	
	Console Messages	
	Troubleshooting	
	•	
	Recovery Instructions	
16.		
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	60
	Distribution	60

	Console Messages	61
	Troubleshooting	61
	Recovery Instructions	61
17.	Stop Event/PI/Usage Query Extract	63
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	63
	Job Flow	64
	Run Level	64
	Preceding Jobs	64
	Dependent Jobs	64
	Input Files	64
	Flow	64
	Output Files	64
	Parameters	64
	Databases	64
	Distribution	64
	Console Messages	64
	Troubleshooting	
	Recovery Instructions	
18.	PM1GENMANMARK - Manual Marking	67
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	67
	Job Flow	68
	Run Level	68
	Preceding Jobs	68
	Dependent Jobs	
	Input Files	68
	Flow	68
	Output Files	68
	Parameters	68
	Databases	69
	Distribution	69
	Console Messages	69
	Troubleshooting	
	Recovery Instructions	
19.	PM1MANUALLOAD - Manual Marking Load	71
•	Description	
	•	

	Job Type	71
	Run Frequency	71
	Activation and Shutdown	71
	Log File	71
	Job Flow	72
	Run Level	72
	Preceding Jobs	72
	Dependent Jobs	72
	Input Files	72
	Flow	72
	Output Files	72
	Parameters	72
	Databases	72
	Distribution	
	Console Messages	
	Troubleshooting	
	•	
	Recovery Instructions	<i>1</i> 3
20.	PM1REREXTRACT - Rerate Extract	75
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	77
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	77
21.	PM1RERATE - Rerate	70
21.	Description	
	•	
	Job Type	
	Run Frequency Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	80

	Preceding Jobs	80
	Dependent Jobs	80
	Input Files	80
	Flow	80
	Output Files	80
	Parameters	81
	Databases	81
	Distribution	81
	Console Messages	81
	Troubleshooting	
	Recovery Instructions	
22.	PM1PREREP - Prepare and Report	83
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	85
23.	PM1POSTRER - Report And Finalize	87
	Description	87
	Job Type	87
	Run Frequency	87
	Activation and Shutdown	87
	Log File	87
	Job Flow	88
	Run Level	88
	Preceding Jobs	88
	Dependent Jobs	88
	Input Files	88
	Flow	88
	Output Files	88
	Parameters	88

	Databases	88
	Distribution	89
	Console Messages	89
	Troubleshooting	
	Recovery Instructions	
24.	PM1PIMAIN - PI Maintenance	91
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	93
	Output Files	93
	Parameters	94
	Databases	94
	Distribution	94
	Console Messages	94
	Troubleshooting	94
	Recovery Instructions	
25.	Update Cycle State Jobs	95
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	96
	Job Flow	96
	Run Level	96
	Preceding Jobs	96
	Dependent Jobs	96
	Input Files	96
	Flow	96
	Output Files	
	Parameters	
	Databases	97
	Distribution	97
	Console Messages	97
	Troubleshooting	97
	Recovery Instructions	97

26.	PM1TRUNCCYCLE - Truncate Cycle	99
	Description	99
	Job Type	99
	Run Frequency	99
	Activation and Shutdown	99
	Log File	99
	Job Flow	100
	Run Level	100
	Preceding Jobs	100
	Dependent Jobs	100
	Input Files	100
	Flow	100
	Output Files	100
	Parameters	100
	Databases	100
	Distribution	100
	Console Messages	100
	Troubleshooting	
	Recovery Instructions	
27.	PM1DISPATCHER - Dispatcher	103
21.	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	\$ABP_PM_ROOT/work. Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	105
28.	PM1STOPDISP - Stop Dispatcher	
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	107

	Job Flow	107
	Run Level	107
	Preceding Processes	
	Dependent Processes	108
	Input Files	108
	Flow	
	Output Files	
	Parameters	
	Databases	
	Distribution	
	Console Messages	
	-	
	Troubleshooting	
	Recovery Instructions	108
29.	PM1XLA2FILE - XLA to File	109
	Description	109
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	Dependent Jobs	
	Input Files	
	Flow	
	Output Files	
	Parameters	
	Databases	
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	111
30.	PM1SPXLA2FILE - Stop XLA	113
	Description	
	Job Type	
	Run Frequency	
	Participating in Generic Maps	
	Run Level	
	Activation and Shutdown	
	Log File	
	Job Flow	
	Run Level	
	Preceding Jobs	
	· · · · · · · · · · · · · · · · · · ·	
	Dependent Jobs	114

	Input Files	114
	Flow	114
	Output Files	114
	Parameters	114
	Connection Details	114
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	
	•	
31.	PM1MARKNEXT - Mark Next for Rerate	
	Description	
	Job Type	
	Run Frequency	
	Activation and Shutdown	
	Log File	
	Job Flow	116
	Run Level	116
	Preceding Jobs	116
	Dependent Jobs	116
	Input Files	116
	Flow	116
	Output Files	116
	Parameters	116
	Databases	116
	Distribution	
	Console Messages	
	Troubleshooting	
	Recovery Instructions	
	•	
32 .	PM1BCKEVNT - Backup Event DB	
	Description	
	Job Type	119
	Run Frequency	
	Activation and Shutdown	
	Log File	120
	Job Flow	120
	Run Level	
	Preceding Jobs	120
	Dependent Jobs	120
	Input Files	120
	Flow	120
	Output Files	120
	Parameters	121
	Databases	121
	Distribution	121

Console Messages	121
Troubleshooting	121
Recovery Instructions	

1. INTRODUCTION

Amdocs Rating processes and assigns prices to "events." An event is a usage of the services offered by a communications service provider. Rating applies price plans, allowances, discounts, and additional charges to events, resulting in a rated event that is sent to downstream systems such as Amdocs Billing.

Rating also maintains counters, called performance indicators that accumulate statistics about certain event attributes (for example, the total duration of voice calls during a billing cycle).

Scope of this Document

This document describes how to run the Amdocs Rating processes.

Batch Job Information

Each batch job is described in a separate chapter in this document. The following information is provided for each batch job:

Subject	Description		
Name	Both operational and full name of the job (It is also the name of the chapter).		
Description	A description of the job functionality, including the purpose of the job, what it does, and what the results of a successful run are. This includes both the <i>job type</i> (the job's relations with the database, for example, update, retrieve, independent, etc.) and the <i>run frequency</i> (the frequency of the job runs, for example, daily, monthly, by request, etc.)		
Activation and Shutdown	This information includes the command line, the script and executable used for activation and shutdown as well as whether the activation or shut down are through the AMC or Screen Composer.		
Log Files	This includes the <i>name</i> , <i>location</i> , and <i>contents</i> of the log files.		
Job Flow	This includes the <i>run level</i> (the running hierarchy as determined when running with other jobs as a map), the <i>preceding jobs</i> (on which the job depends), the <i>input files</i> (including their location and format), the <i>flow</i> (the flow of the job; and the activities it performs), the <i>output files</i> (including their location and format), and the <i>dependent jobs</i> (dependent on the successful completion of the job).		
Parameters	The parameters (variables) used by the job.		
Databases and images	The databases the job uses, for example, <i>Usage1</i> , <i>Usage2</i> , <i>Customer</i> , etc. Additionally this section provides information of the shadow database or the partition where the batch job is running.		

Subject	Description	
Required Resources and Services	Unique resources required for the job, such as disk space or tape devices and unique services, such as background daemons, system devices, etc.	
Distribution	The distribution for the job's results.	
Console Messages	Messages sent to the user about the status of the job.	
Troubleshooting	Common error messages with brief solutions.	
Recovery Instructions	Recovery instructions for job failure.	
Severity Level	The severity level of the job (When running as part of a map)	
Special Remarks	Special information, such as unique passwords, that are required to run the job.	

Language

The programming language in which the batch files are written is C++

Input and Output Directories

Rating input and output files are placed in these permanent directories:

- Interface input placed in: \$ABP_PM_ROOT/interfaces/input
- Interface output placed in: \$ABP PM ROOT/interfaces/output

General Troubleshooting

This section offers some general troubleshooting suggestions for problems that are not connected to any specific batch job.

I/O Errors

If a process is aborted because it failed to open, read, write, or close any file, analyze the returned status that appears in the error message, then correct the cause of the error and run the job again. For example, if the error message indicates that the disk quota has been exceeded, clear disk space and the run the job again.

If the problem cannot be solved, contact the software application representative.

Database Access Errors

Contact the DBA if the process aborted due to such errors as:

- Maximum number of processes exceeded
- Failed to connect to Oracle
- Table or view does not exist

Missing or Invalid Data Errors

Contact the software application representative if the process aborted due to such errors as:

- No relevant data
- Invalid data
- Key not found

Other Errors

Contact the software application representative concerning errors that cannot be classified as either database access errors or missing or invalid data errors (see preceding subsections).

General Environment Settings

The following environment variables must be defined in an account:

Name	Description	Example
GN1_ORA_USER	Oracle user	Acmapp2
GN1_ORA_PASS	Oracle password	Acmapp2
GN1_ORA_INST	Oracle instance	Ip8i
GN1_ORA_INST_NODE	Oracle instance node	Hobbit
ABP_PM_ROOT	The root directory for the Rating processes	Acmwrk2/var/acm/proj s/pm
ABP_MARKET	Market ID	M3G
ABP_VAR	The root account path (determined using the PWD command)	Acmwrk2/var
ABP_LOG	The directory where all operational log files are created after the process runs	Acmwrk2/var/acm/log
ABP_AC_VFS_PATH	For A&C use	
ABP_DEBUG_FLAG	Y/N; opens or closes the A&C interface debugging prints (for private tests, should be Y)	AC_DEBUG_FLAG= Y
ABP_PRIVATE_BIN	Points to the directory where private executables and shared libraries are located (usually ABP_home/AppBin)	ABP_home/AppBin

Changing Job Environment Variables

There are three ways to change a parameter for a job:

- If the variable is used by all Rating applications, the variable is defined in the op_pm_env_sh file (for example, ABP_PM_CONF, RTR_IMPLEMENTATION_FILE).
- A variable that is specific to a job is defined in the XML configuration file of the job (for example, the name or path of the log file).
- Configuration files.

Each process has a template configuration XML file. The template contains various variables that the job requires during run time (for example, where to write the log, to which data storage it needs to connect, etc.).

When the script is run, the script parameters are provided (for example, cycle code, DSN, etc.).

The script retrieves the parameters and performs the following steps:

1. The script calls an expand function that gets both the template configuration file and the "output" configuration file. (The name of the output configuration file comprises the template configuration file name and the parameters that the script received.)

For example, if the template file name is pm1RaterProcessConfig.xml (the Rater configuration file) and the script is run as follows:

```
pmlPostpaidRater sh 1 11 NRT
```

Then the new configuration file is called:

pmlRaterProcessConfig_1_11_NRT.autoXml.

2. The expand function changes all the variables in the new configuration file. For example:

3. The script calls the executable. The only argument that the executable gets is the configuration file. For example, if the Rater script is run twice, with different parameters each time, two configuration files will be created with:

First Run	Second Run
cycle = 1	cycle = 2
task ID = 11	task_ID = 21
mode = RT	mode = RT

The first run is named pm1RaterProcessConfig _1_11_RT.autoXml and the second run is named pm1RaterProcessConfig 2 21 RT.autoXml.

There are also differences between the contents of the two files. In the template, there are several parameters that do not have values. Instead they refer to variables, for example, \$RTR_CYCLE_CODE, RTR_TASK_ID.

For example, in the first run file above (PricingEngineConfigST_1_11_RT.autoXml), the number 1 replaces \$RTR CYCLE CODE wherever it appears in the template.

In the second run file above (PricingEngineConfigST_2_21_RT.autoXml), the number 2 replaces \$RTR CYCLE CODE wherever it appears in the template.

Terminology

The following specialized terms are used in this document.

Term	Definition
AMC	Application Monitoring and Control
Batch process	Same as batch job
Batch program	Same as batch job
DBA	Database administrator
DSN	Data store name
EOC	End of Cycle

2. PM1RUNRATER - RATER

Description

The Rater process can run in normal mode or in recovery mode. In recovery mode, the operational name of the Rater process is **PM1RECOVERY**.

Normal Mode

The Rating component handles events that represent all types of usage of telecommunication services, and creates rated events for use by other subsystems. The main Rating functions are:

- Identifying the services according to the customer profile and marketing information.
- Matching the event to the correct services.
- Rating and distributing the event.

Recovery Mode

Whenever Rating commits the results of its work to the database, the Recovery mechanism updates the table RPR1_POSTPAID_RECOVERY that maintains the last processed events in the transaction being rated.

After an abrupt termination for any reason (such as a power failure, hardware failure, or software failure), the Recovery process takes files in status 'IU' from A&C and creates a transaction for each file. In the Transaction Manager Algorithm that divides the file into buckets only the un-processed events will be taken from the file records (thus skipping previously processed events).

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type:

In its normal mode, this is a daemon

In its recovery mode, this job is a batch job

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency:

- In normal mode, it is a daemon that is constantly running.
- In recovery mode, it is run by request

Activation and Shutdown

Job Activation

Command Line

Normal mode

RunJobs PM1RUNRATER < JOB REQ>

Recovery mode

RunJobs PM1RECOVERY < JOB REQ>

AMC: Yes

Screen Composer: Yes

Script Name:

Normal mode

pm1PostpaidRater sh

Recovery mode

pm1PostpaidRaterRecovery sh

Executable: pm1EnvelopeMT

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log Files

Name

- Log File:POSTPAID<Partition ID>_<Sub Partition ID>_<thread ID> Log <date time>.log
- Trace File :POSTPAID<Partition ID>_<Sub Partition ID>_<thread ID>_Trace_<date_time>.log
- ART error file: apperror_file_POSTPAID<Partition ID>_<Sub Partition ID> <ART process number> <date time>.log
- ART events file: ART_Event_File_POSTPAID<Partition ID>_<Sub Partition ID>_<ART process number>_<date_time>.log
- ART standart output file: console_file_POSTPAID<Partition ID>_<Sub Partition ID> <ART process number> <date time>.log
- Pricing Engine Errors: pmPricingEngineError_POSTPAID<Partition ID>_<Sub Partition ID>.log
- Pricing Engine trace (debug mode only): Event<event_ID>.xml
 This file is created only if Tracing mode is enabled in the configuration file.

Location

The log files are stored in \$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (if relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

- A&F Main Driver
- Extract
- Load
- XLA Daemon (run before Rating to set the bookmarks in the XLA log file)

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this batch job.

- Dispatcher
- PI and Event extract

Concurrent Jobs

- XLA Daemon
- Dispatcher



These processes must run all the time, to ensure that TimesTen does not fill the disk while no process updates the persistent storage (Oracle) with the rated events, and no process cleans the records from TimesTen storage.

Input Files

Naming Convention

The input file name (created by the Main Driver process) is:

MF1MDTORT_<partition Id> <cycle code> <task Id>

Location

The location of the input file is taken from Audit and Control.

Contents

The input file contains event records.

Flow

Normal Mode

The Postpaid rater daemon is a multi-thread process built upon an ART server.

The process flow is divided among several components:

- 1. **Acceptor layer**: The Acceptor handles the input of the process. It pulls a block of files from A&C, creates a logical transaction and sends it to the Transaction manager layer.
- Transaction manager layer: The Transaction manager breaks the logical transaction into independent working units called Request and sends them to the Service layer. Additionally, it handles the logical transaction database connections (USAGE and CUSTOMER) and closes the A&C files.
- 3. **Service layer**: This is a multi-thread layer. The Requests are dispatched to the thread queue. Each thread takes a Request from the queue and processes it (calculating the rate). The processing algorithm is as follows:
 - Establishes connections with the USAGE and CUSTOMER databases using the Transaction manager connection pool.
 - Gets an event from the Request.
 - Qualifies the event (guiding to service).
 - Rates the event.
 - Inserts a row into the PI USAGE data storage.
 - Writes the rated event and other external records to the DISPATCHER file.

In the process flow, records containing recovery information are written to the RPR1_POSTPAID_RECOVERY table. After the transaction is processed successfully, the records are deleted. If the transaction is not processed successfully, the process updates the entry in the table with the number of records that were already processed.

Recovery Mode

The process flow is as that of the Normal mode except for the following changes:

- The Acceptor reads A&C files in recovery mode. This means that the Acceptor gets files in 'IU' mode. Each transaction contains only one file.
- Postpaid Transaction Recovery functionality: For each transaction item, the process gets recovery information from the RPR1_FILE_RECOVERY_DATA table and divides the files into buckets using the recovery number_of_buckets data (not the configuration partition key). It uses the recovery NUMBER_SUCCESS+NUMBER_ERROR data to remove all events that were handled by the previous process from the buckets.

Output Files

Naming Convention

Events file (for the dispatcher):

DISPATCH_FILE_ POSTPAID<Partition ID>_<Sub Partition ID>_<date time>_<serial number>.dat

Location

- Pricing Engine trace (debug mode only): The file is stored in \$ABP PM ROOT/work
- Events file (for the dispatcher): \$ABP PM ROOT/data

Parameters

Parameter	Description
Partition	Partition code
Sub Partition	Unique ID to differentiate between raters working on the same partition

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage
- Customer data storage (TimesTen or Oracle) customer

Distribution

N/A

Console Messages

N/A

Troubleshooting

N/A

Recovery Instructions



For details see Recovery Specs Document

3. PM1STOPRATER - STOP RATER

Description

The Stop Rater process stops the Rater process.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: N/A

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pmlStopRaterShell_sh 1 1

AMC: Yes

Screen Composer: Yes

Script Name: pm1StopRater sh

Executable: None

Job Shutdown

AMC: No

Screen Composer: No

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Processes

None

Dependent Processes

None

Input Files

None

Flow

- 1. Finds the Rater PID (Process ID) that is running by the specified partition code and sub-partition code.
 - If the process gets only the partition code as an input parameter, all the Rater processes of the partition will be stopped.
- 2. Stops the Rater process by sending a SIGTERM signal to the server. The server receives the signal and shuts down.

Output Files

None.

Parameters

Parameter	Description
Partition	Partition code
Sub Partition	Unique ID to differentiate between raters working on the same partition

Databases

This paragraph specifies the databases the job uses, for example, *Usage1*, *Usage2*, *Customer*, etc.

N/A

Distribution

NA

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

This paragraph contains a list of suggestions of how to recover the job.

N/A

4. PM1SUSPENDRTR/PM1RESU MERTR - Suspend/Resume RATER

Description

The Suspend/Resume Rater process suspends or resumes the operation of specific Acceptors inside the Rerate Map.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line:

- pm1SuspendRaterShell sh 1 1
- pm1ResumeRaterShell sh 1 1

AMC: Yes

Screen Composer: No

Script Name:

- pm1SuspendRater_sh
- pm1ResumeRater sh

Executable: None

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Processes

None

Dependent Processes

None

Input Files

None

Flow

- 1. Gets all cycles that should be suspended/resumed by the Map Key.
- 2. Sends a request to the Rater Process Administrator to suspend/resume all relevant acceptors.

Output Files

None

Parameters

Parameter	Description
Map Key	Rerate map key
Partition ID	Unique ID to differentiate between raters working on the same partition.

Databases

This paragraph specifies the databases the job uses, for example, *Usage1*, *Usage2*, *Customer*, etc.

N/A

Distribution

NA

Console Messages

NA

Troubleshooting

NA.

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job. N/A

5. PM1CMGENEXT - CUSTOMER MANAGEMENT EXTRACT

Description

The Customer Management (CM) Extract process synchronizes Rating data with CM data by extracting CM data to Rating tables.

The extract can run in the following modes/sub-mode:

Mode	Sub Mode	Туре	Purpose
CONFIGURATION	FULL	Batch	Extracts all customers' information from the Customer database according to the transactions in the configuration file
CONFIGURATION	FULLFILL	Batch	Extracts all customers' information from the Customer database according to the transactions in the configuration file. This sub mode requires as a pre-condition, empty Customer tables, because a process with SUB MODE=FULLFILL works only in insert mode (not update), which greatly improves performance. Amdocs recommends running Load in FULLFILL mode from the beginning or remember to clean the tables manually before the run.
CONFIGURATION	PROVIDER	Batch	Extracts provider's information from the Customer database according to the transactions in the configuration file
CONFIGURATION	MANUAL	Batch	Manually marks subscribers for re-rate
INCREMENTAL	DAEMON	Daemon	Extracts offers/parameters for a specific customer/subscriber according to the CM TRB transaction Creates Activity for specific CM TRB transactions Updates entries in the CUG table according to the CM TRB transaction Inserts entries into the pm1_change_cycle table according to the CM TRB transaction Insert entries into the PM1_CYCLE_STATE table according to the Billing TRB transaction
INCREMENTAL	HISTORY	Batch	Processes TRB transactions from the TRB History table according to the TRB_START and TRB_END parameters

Job Type

Batch or Daemon depending on the Run Mode/Sub-mode

Run Frequency

On request

Activation and Shutdown

Job Activation

Command Line: Pm1CMGenericExtractShell sh CONFIGURATION FULL

AMC: Yes

Screen Composer: Yes

Script Name: Pm1CMGenericExtract_sh Executable: Pm1CMGenericExtractMT

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

Name

- Error File: pm.pm1CMGenericExtractMT_<Run Mode>_<Sub Run Mode>.<Date Time> Error.log
- Trace File: pm.pm1CMGenericExtractMT_<Run Mode>_<Sub Run Mode>.<Date Time> Trace.log<Thread ID>
- ART error file: apperror_file_ RPRGEXT1_<ART process number>_<date_time>.log
- ART events file: ART_Event_File_RPRGEXT1_<ART process number> <date time>.log
- ART standard output file: console_file_RPRGEXT1_<ART process number>_<date_time>.log

Location

The log file is stored in \$ABP PM ROOT/work.

The log file should be checked after each run to verify that the process ran successfully.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: On request

Preceding Processes

None

Dependent Processes

These processes can only be run after the successful completion of this batch job:

Load

Input Files

None

Flow

The process flow is as follows:

- Extracts data from Customer Management tables/Creates
 Activities/Creates entries for generic tables (PM1_CHANGE_CYCLE, PM1_CYCLE_STATE)
- 2. Formats the data as XML
- 3. Saves the data in XML files, ready for the Loader process

Output Files

This job has the following output file types:

- Subscriber Offers The Loader inserts them into CUSTOMER OFFERS
- Subscriber Parameters The Loader inserts them into CUSTOMER PARAMETERS
- Activities The Loader processes each Activity
- Generic The Loader inserts/deletes them into/from tables according to the information in the file

File Name Convention

<File Type>-<DistributionCode >-<Serial number>-<Loader Run Mode>-<DateTime>.xml

Where:

- File Type SubscriberOffers/SubscriberParameters/Activities/Generic
- DistributionCode The Rating Partition code
- Serial number
- Loader Run Mode F (full) or I (incremental)
- DateTime The date and time when the file is created
- .xml XML file extension

For example: SubscriberOffers-1-5-F-20040714173029.xml

Location

\$ABP PM ROOT/interfaces/input

Parameters

The batch job uses the following parameters:

Parameter	Description
Run mode	CONFIGURATION/INCREMENTAL
Sub-Run mode	FULL/PROVIDER/MANUAL/DAEMON/HISTORY
TRB start	Optional (only on INCREMENTAL/HISTORY)
TRB end	Optional (only on INCREMENTAL/HISTORY)

Databases

Audit and Control and CM tables(Oracle) – History

Distribution

To each of the rater partitions, using AC

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

N/A

6. PM1LOAD - LOAD

Description

The Customer Load process receives input customer XML files from Audit & Control.

The XML files contain subscriber offers/parameters/activities/generic data. They are read and analyzed, and the relevant subscriber objects are created and loaded into the customer entities in memory.

The Load process can run in either of the following two modes:

- Full Load The full load runs after the full extract. The full load is a by-request job.
- Incremental Load The incremental load is a daemon.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: The incremental Load is a daemon.

Run Frequency

The full-mode Load is run by request.

The incremental Load is a daemon which runs constantly

Activation and Shutdown

Job Activation

Command Line: pm1CM2RaterLoadShell sh FULL 1

AMC: Yes

Screen Composer: Yes

Script Name: pm1CM2RaterLoad_sh Executable: pm1CM2RaterLoad

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

Name

- Error file: pm.pm1CM2RaterLoad_<mode>_<Partition ID>_<Process Instance> <date time> Error.log
- Trace file: pm.pm1CM2RaterLoad_<mode>_<Partition ID>_<Process Instance>_<date_time>_Trace.log

Location

The log file is stored in \$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: NA

Preceding Processes

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: Extract

Dependent Processes

This paragraph contains a list of the jobs that can only be run after the successful completion of this batch job.

Dependent jobs: Rating

Input Files

See extract output files

The input files are located in \$ABP_PM_ROOT/interfaces/input

Flow

- 1. Retrieves the input files from A&C tables
- 2. Initializes the Pricing Engine
- 3. Parses each file:
 - a. Offers Creates a subscriber offers entity
 - b. Parameters Creates a subscriber parameters entity
 - c. Offers' parameters Creates a customer offers parameters entity
 - d. Generic Prepares an SQL command to insert/delete data from tables
 - e. Activity Prepares an event entity.
- 3. Loads offers/parameters/offers' parameters entities to tables using PE APIs
- 4. Processes the activity event
- 5. Performs an SQL query for the generic table

Output Files

None

Parameters

Parameter	Description	
Partition ID	The code of the rating partition	
Mode	Full or Incremental	

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage
- Customer data storage (TimesTen or Oracle) Customer

Distribution

NA

Console Messages

N/A

Troubleshooting

N/A

Recovery Instructions

The process automatically handles IU entries in AC

7. PM1STOPCMGEXT - STOP INCREMENTAL EXTRACT

Description

The Stop Incremental Extract batch job stops the Customer Management Extract process in incremental mode.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This job runs by-request

Activation and Shutdown

Job Activation

Command Line: pm1StopCMGextShell sh

AMC: Yes

Screen Composer: Yes

Script Name: pm1StopCMGext sh

Executable: None

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Processes

None

Dependent Processes

None

Input Files

None.

Flow

The process includes the following steps:

- 1. Finds the PID of the Extract process that is running in incremental mode.
- 2. Kills the process by sending a USR1 signal.

Output Files

None

Parameters

None

Databases

This paragraph specifies the databases the job uses, for example, *Usage1*, *Usage2*, *Customer*, etc.

N/A

Distribution

NA

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

8. PM1STOPCMLD - STOP INCREMENTAL LOAD

Description

The Stop Incremental Load process stops the Load process when running in incremental mode.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This is a By-Request job.

Activation and Shutdown

Job Activation

Command Line: pm1StopCM2RaterLoadShell sh INCREMENTAL 1

AMC: Yes

Screen Composer: Yes

Script Name: pm1StopCM2RaterLoad sh

Executable: N/A

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Processes

None

Dependent Processes

None

Input Files

None.

Flow

The process does the following:

- 1. Finds the PID of the Load process that is running in incremental mode.
- 2. Kills the process by sending a USR1 signal.

Output Files

None

Parameters

The batch job uses the following parameters:

Parameter	Description
Run Mode	FULL/INCREMENTAL
Partition ID	Rating Partition ID

Databases

This paragraph specifies the databases the job uses, for example, *Usage1*, *Usage2*, *Customer*, etc.

NA

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

9. PM1UEXTEVENT - EVENT EXTRACT

Description

This job extracts rated records from the Rated Events table. The same server handles the cycle mode and the customer mode.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: Daemon

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: This job is a daemon and it runs constantly.

Activation and Shutdown

Job Activation

Command Line: pm1RunEventExtractShell sh 1

AMC: Yes

Screen Composer: Yes

Script Name: pm1RunEventExtract sh

Executable: pm1EnvelopeMT

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

Name

- Pricing Engine Errors: pmPricingEngineError_UEXT_E_CY_<Partition ID>.log
- Log File: UEXT_E_CY_<Partition ID>_<thread
 ID> Log <date time>.log
- Trace File: UEXT_E_CY_<Partition ID>_<thread ID>_Trace_<date_time>.log
- ART error file: apperror_file_UEXT_E_CY_<Partition ID>_<ART process number> <date time>.log

- ART events file: ART_Event_File_UEXT_E_CY_<Partition ID>_<ART process number>_<date_time>.log
- ART standard output file: console_file_UEXT_E_CY_<Partition ID>_ART process number>_<date_time>.log

Location

\$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: Dispatcher

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

bl.<cycle code><cycle year><cycle month><flow id>_<route><group id><data element>.YYYYMMDD HHMMSS.temp.txt

Flow

The job performs the following steps:

- 1. Connects to the Oracle database
- 2. Extracts the records from the Rated Events table
- 3. Writes the records to a file

Output Files

Naming Convention

Cycle:

Data_Event_File_<cycleCode>_<cycleIns>_<cycleYear>_<datetime>_<thre adID>_<fileIndex>

Customer:

Data_Event_File_<datetime>_<threadID>
Error_Event_File_<datetime>_<threadID>

Location

\$ABP PM ROOT/interfaces/output

Parameters

Parameter	Description
Partition ID	Rating partition ID

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage

Distribution

In customer mode the files are distributed to billing machine using AC.

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

10. PM1UEXTPI - PI EXTRACT

Description

This job extracts Performance indicators' records from the Performance Indicators table. The same server handles the cycle mode and the customer mode.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: Daemon

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: This job is constantly running.

Activation and Shutdown

Job Activation

Command Line: pm1RunPIExtractShell sh 1

AMC: Yes

Screen Composer: Yes

Script Name: pm1RunPIExtract_sh Executable: pm1EnvelopeMT

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

Name

- Pricing Engine Errors: pmPricingEngineError_UEXT_P_CY_<Partition ID>.log
- Log File: UEXT_P_CY_<Partition ID>_<thread ID>_Log_<date_time>.log
- Trace File: UEXT_P_CY_<Partition ID>_<thread
 ID> Trace <date time>.log
- ART error file: apperror_file_UEXT_P_CY_<Partition ID>_<ART process number> <date time>.log
- ART events file: ART_Event_File_UEXT_P_CY_<Partition ID>_<ART process number> <date time>.log

- ART standard output file: console_file_UEXT_P_CY_<Partition ID>_ART process number>_<date_time>.log
- Process stdout file: pm1EnvelopeMT_UEXT_P_CY_<Partition ID>__process ID>.log

Location

\$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

bl.<cycle code><cycle year><cycle month><flow id>_<route><group id><data element>.YYYYMMDD HHMMSS.temp.txt

Flow

The process does the following:

- 1. Connects to the Oracle or TT database
- 2. Extracts the records from the Performance Indicators table
- 3. Writes the records to a file

Output Files

Naming Convention

Cycle:

Data_PI_File_<cycleCode>_<cycleIns>_<cycleYear>_<datetime>_<threadI D>_<fileIndex>

Customer:

Data_PI_File_<datetime>_<threadID>
Error_PI_File_<datetime>_<threadID>

Location

\$ABP PM ROOT/interfaces/output

Parameters

Parameter	Description
Partition ID	The partition ID

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

11. PM1EVEXT - CYCLE EVENT EXTRACT REQUEST

Description

The Cycle Event Extract Request job sends a message to the event extract server to perform an extract for a given cycle code, instance, year and an additional Where clause.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: extract

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1EventExtractShell sh 1 1 2 2004

pm1EventExtractShell_sh 1 3 5 2005 none none none

none MyAlias none none MyDataGroup

AMC: No

Screen Composer: Yes

Script Name: pm1EventExtract_sh Executable: ARTServerAdmin

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: Event Extract

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

The job sends a message to the server.

Output Files

None

Parameters

Parameter	Description	
Partition ID	Rating Partition	
Cycle code	The cycle code	
Cycle instance	The cycle instance	
Cycle year	The cycle year	
*From Date Time	The From date of the required events	
*To Date Time	The To date of the required events	
*Additional where clause	The customization Where clause	
*Routing Criteria	The output routing criteria	
*Output File Alias	The output file alias	
*Output File Name	The output file name	
*Output File Path	The output file path	
*Output File Data Group	The output file data group	

- * These parameters are not mandatory. If none of them have a value, they can be left empty. If at least one is set to a value, they all become mandatory and must be set according to the following criteria:
 - If any of these parameters is set to "none", the default values of these parameters are taken from the GN1 ART SECTION PARAM table.
 - If at least one of these parameters is populated with a value, the remaining parameters must be set to "none".

Databases

None

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

12. PM1PIEXT - CYCLE PI EXTRACT REQUEST

Description

The PI Extract job sends a message to the server to perform an extract for a given cycle code, instance, year and an additional Where clause.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: extract

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By Request

Activation and Shutdown

Job Activation

Command Line: pm1PIExtractShell sh 5 1 2 2004 10

AMC: No

Screen Composer: Yes

Script Name: pm1PIExtract_sh Executable: ARTServerAdmin

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: PI Extract

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

The job sends a message to the server.

Output Files

None

Parameters

Parameter	Description
Partition ID	The partition
Cycle code	The cycle code
Cycle instance	The cycle instance
Cycle year	The cycle year
Number in Parallel	Number in parallel threads to handle the request. Each thread creates its own output.
*From Date Time	The From date of the required events
*To Date Time	The To date of the required events
*Additional where clause	The customization Where clause
*Routing Criteria	The output routing criteria
*Output File Alias	The output file alias
*Output File Name	The output file name
*Output File Path	The output file path
*Output File Data Group	The output file data group

- * These parameters are not mandatory. If none of them have a value, they can be left empty. If at least one is set to a value, they all become mandatory and must be set according to the following criteria:
 - If any of these parameters is set to "none", the default values of these parameters are taken from the GN1 ART SECTION PARAM table.
 - If at least one of these parameters is populated with a value, the remaining parameters must be set to "none".

Databases

None

Distribution

NA

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

13. PM1RCVCYCLEXT - PI/EVENT EXTRACT RECOVERY CYCLE MODE REQUEST

Description

This job sends a recovery message to the PI or Event extract daemon server. The cycle recovery is on the partition level.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1CycleRecoveryExtractShell sh PI 5 1 2 2004 10

AMC: No

Screen Composer: Yes

Script Name: pm1CycleRecoveryExtract sh

Executable: ARTServerAdmin

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: PI/Event extract server

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

The job sends a message to the server.

Output Files

None

Parameters

Parameter	Description
Extract Mode	PI or Event
Partition ID	The partition
Cycle code	The cycle code
Cycle instance	The cycle instance
Cycle year	The cycle year
Number in Parallel	Number in parallel threads to handle the request. Each tread create is one output.
*From Date Time	The from date of the required events
*To Date Time	The to date of the required events
*Additional where clause	The customization Where clause
*Routing Criteria	The output routing criteria
*Output File Alias	The output file alias
*Output File Name	The output file name
*Output File Path	The output file path

Chapter 13. PM1RCVCYCLEXT - PI/Event Extract Recovery Cycle Mode Request

Parameter	Description
*Output File Data Group	The output file data group

- * These parameters are not mandatory. If none of them have a value, they can be left empty. If at least one is set to a value, they all become mandatory and must be set according to the following criteria:
 - If any of these parameters is set to "none", the default values of these parameters are taken from the GN1 ART SECTION PARAM table.
 - If at least one of these parameters is populated with a value, the remaining parameters must be set to "none".

Databases

None

Distribution

NA

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

14. PM1RCVCUSTEXT - PI/EVENT EXTRACT RECOVERY CUSTOMER MODE

Description

This job runs the PI or Event server in customer recovery mode. The server goes down when the recovery is done.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1CustomerRecoveryExtractShell sh PI 5

AMC: No

Screen Composer: Yes

Script Name: pm1CustomerRecoveryExtract sh

Executable: pm1EnvelopeMT

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

Same as for PI/Event Extract servers

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

The flow is the same as PI Extract and Event Extract in recovery mode.

Output Files

Naming Convention

PI:

```
Data_PI_File_<datetime>_<threadID>
Error PI File <datetime> <threadID>
```

Event:

```
Data_Event_File_<datetime>_<threadID>
Error_Event_File_<datetime>_<threadID>
```

Location

\$ABP PM ROOT/interfaces/output

Parameters

The batch job uses the following parameters:

Parameter	Description
Partition ID	The partition ID
Extract Mode	PI or Event

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage
- Customer data storage (TT or Oracle) Customer

Distribution

NA

Console Messages

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

15. PM1POREREXT - POST RE-RATE EXTRACT REQUEST

Description

This job sends a message to the PI and Event extract daemon server. The server adds a new acceptor, which processes the files of the customer that have already been re-rated.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request. This process is part of the re-rate map.

Activation and Shutdown

Job Activation

Command Line: pm1PostReRateExtractShell sh 1 1 1

AMC: Yes as part of the re-rate map.

Screen Composer: No

Script Name: pm1PostReRateExtractShell sh 1 1 1

Executable: ARTServerAdmin

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: NA

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: PI/Event Extract Server

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

The job sends a message to the server.

Output Files

None

Parameters

Parameter	Description
Partition ID	Rating partition code
Map key	Rerate Map Key - The data group prefix for the input files

Databases

None

Distribution

Billing machine

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

When running a request in customer mode, if the server falls with an error in Parsing, check that the input to the server is in the new format as seen in the pm1CustomerUsageExtarctInputFileFormat.xml. For example,

```
and SYSDATE=SYSDATE;myrouting;;MYNAME;/dmhuser1.p712/dmh/users/d mhwrk12/var/m3g/projs/pm/interfaces/;DATAGROOP;Event Format;1;4;2004;0;0;0; ;;;;;Event Format;1;5;2004;0;0;0; ;;;;;;1;5;2004;3;1;3;
```

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job. NA

16. PM1USAGEQUERY - USAGE QUERY

Description

The server performs queries on rated event and the Performance Indicators table. The result is placed into an xml file and passed to WebLogic.

Job Type

Daemon

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: Runs constantly

Activation and Shutdown

Job Activation

Command Line: pm1RunUsageQueryExtractShell sh 1

AMC: Yes

Screen Composer: Yes

Script Name: pm1RunUsageQueryExtract sh

Executable: pm1EnvelopeMT

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

Name

- Pricing Engine Errors: pmPricingEngineError_UEXT_UQ_<Partition ID>.log
- Log File: UEXT_UQ_<Partition ID>_<thread ID>_Log <date time>.log
- Trace File: UEXT_UQ_<Partition ID>_<thread ID> Trace <date time>.log
- ART error file: apperror_file_UEXT_UQ_<Partition ID>_<ART process number>_<date_time>.log
- ART events file: ART_Event_File_UEXT_UQ_<Partition ID>_<ART process number> <date time>.log

- ART standard output file: console_file_UEXT_UQ_<Partition ID>_ART process number> <date time>.log
- Process stdout file: pm1EnvelopeMT_UEXT_UQ_<Partition ID> ID>.log

Location

\$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

- 1. Connects to the Oracle/TT database
- 6. Extracts the records from the Rated Events or PerformanceInd table
- 7. Sends the result to WebLogic

Output Files

None

Parameters

Parameter	Description
Partition ID	The partition ID

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage

Distribution

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

17. STOP EVENT/PI/USAGE QUERY EXTRACT

Description

This job stops the PI/event/usage query extract process.

The process is defined in the operational system according to the entity it stops:

For event stopping-PM1STOPEVUXT

For PI stopping - PM1STOPPIUXT

For Usage Query stopping - PM1STOPUQUXT

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1StopPIExtractShell sh 1

AMC: Yes

Screen Composer: Yes

Script Name:

- Event pm1StopEventExtract sh
- PI pm1StopPIExtract sh
- Usage Query pm1StopUsageQuery sh

Executable: None

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

None

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

The process sends a signal to the server.

Output Files

None

Parameters

Parameter	Description
Partition ID	The partition ID

Databases

This paragraph specifies the databases the job uses, for example, *Usage1*, *Usage2*, *Customer*, etc.

NA

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job. NA

18. PM1GENMANMARK - MANUAL MARKING

Description

This job manually marks subscribers for re-rating.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: extract

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1CMGenericExtractManualMarkingShell sh '2'

'19619,19620' '2002-01-01' '2005-12-31'

AMC: No

Screen Composer: Yes

Script Name: pm1CMGenericExtractManualMarking sh

Executable: gext1GenericExtractMT

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

Name

Same as for CM Extract process

Location

The log file is stored in \$ABP PM ROOT/work.

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: None

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: Manual Marking Load

Input Files

None

Flow

The process does the following:

- Activates the CM generic extract process in mode CONFIGURATION/MANUAL
- 2. Creates Activities for all customers that own one of the offers in the parameters list.

Output Files

Naming Convention

Same as for CM Extract process

Location

\$ABP_PM_ROOT/interfaces/output

Parameters

Parameter	Description
Cycle code	The code of the cycle
Offer list	Offer ID 1, Offer ID 2, etc.
From date	Start of the date range
To date	End of the date range

Databases

Audit and Control and CM tables(Oracle) – History

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

19. PM1MANUALLOAD - MANUAL MARKING LOAD

Description

The Manual Marking Load process loads the XML output of the manual marking process to the Subscriber Rerate table.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1ManualMarkingLoadShell sh 1 12 2002

AMC: No

Screen Composer: Yes

Script Name: pm1ManualMarkingLoad sh

Executable: pm1CM2RaterLoad

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

Name

Same as for the Load process

Location

The log file is stored in \$ABP PM ROOT/work.

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: Manual Marking Extract

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

Naming Convention

Same as for the load process

Location

\$ABP_PM_ROOT/interfaces/output

Flow

Same flow as for the Load process (the only type of files in this case is Activities files)

Output Files

None

Parameters

Parameter	Description
Partition ID	Rating partition ID
Cycle code	The code of the cycle
Cycle month	The month of the cycle
Cycle year	The year of the cycle

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage
- Customer data storage (TimesTen or Oracle) Customer

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

20. PM1REREXTRACT - RERATE EXTRACT

Description

This job extracts records from the Performance Indicator and Rated Event tables.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: Extract

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1RerateExtractShell sh 1 1 5

AMC: Yes as part of the Rerate map.

Screen Composer: No

Script Name: Script: pm1RerateExtract sh

Executable: pm1RerateExtract

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

Name

 $Error: Pm.pm1RerateExtract_<\!Map\ Key>_<\!Partition\ ID>_<\!Process$

Instance>.<date time> Error.log

Trace: Pm.pm1RerateExtract_<Map Key>_<Partition ID>_<Process

Instance>.<date_time>_Trace.log

Location

The log file is stored in \$ABP PM ROOT/work.

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: NA

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: None

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: Rerating

Input Files

None

Flow

- 1. Fetches the relevant run ID from the RPR1 REREXT DETAILS table
- 2. Gets all relevant subscribers from the RPR1_SUBS_RERATE table
- 3. Extracts all the rated events and PIs into files
- 4. Directs the PI and event files to Rerate in case of rerate
- 5. Directs the event file to Guiding in case of guiding.

Output Files

Naming Convention

Event-<date>-<sequence number>

PI-<date>-<sequence number>

Location

\$ABP PM ROOT/work

Parameters

Parameter	Description
Map Key	Rerate Map Key
Partiton ID	Rating Partition ID
Number in Parallel	Number of Rerate Extract processes to be executed in parallel

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage
- Customer data storage (TimesTen or Oracle) Customer

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions



For details see Rating Recovery Specs document

21. PM1RERATE - RERATE

Description

The Rerate process re-rates events for a group of marked subscribers.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1ReraterShell sh 1 1 8

AMC: Yes, as part of the rerate map

Screen Composer: No

Script Name: pm1Rerater_sh

Executable: pm1Rerater

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

Name

```
Error: Pm.pm1Rerate_<Map Key>_<Partition ID>_<Process
```

Instance>.<date time> Error.log

Trace: Pm.pm1Rerate_<Map Key>_<Partition ID>_<Process

Instance>.<date time> Trace.log

Location

\$ABP_PM_ROOT/work.

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs:

- Rating extract
- Reguiding

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

- For all pairs (PI & Event files):
 - Fetches pairs of PI and Events files.
 - Re-initializes the PI and rate the events
- If Re-guiding finishes processing all events files
 - Fetches single PI files if any and re-initializes the PIs.

Output Files

Naming Convention

Event-<date>-<sequence number>

PI-<date>-<sequence number>

Location

\$ABP_PM_ROOT/work

Parameters

Parameter	Description
Map Key	Rerate Map Key
Partition ID	Rating Partition ID
Number in Parallel	Number of Rerate processes to be executed in parallel

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage
- Customer data storage (TimesTen or Oracle) Customer

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions



For details see Rating Recovery Specs Document

22. PM1PREREP - PREPARE AND REPORT

Description

This is the first job in the rerate map. It prepares entries for the rerate extract processes and sends a report to Billing that includes all customers that are about to be rerated.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1PreRerShell sh 1 2 2002

AMC: Yes, as part of the rerate map

Screen Composer: No

Script Name: pm1PreRer sh

Executable: pm1PrepareAndReport

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

Name

- Pm.pm1PrepareAndReport_PRERER_<Map key>_<Partition ID> <Process Instance>.<Date Time> Error.log
- Pm.pm1PrepareAndReport_PRERER_<Map key>_<Partition ID> <Process Instance>.<Date Time> Trace.log

Location

\$ABP PM ROOT/work.

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs:

- Rerating extract
- Reguiding

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

- 1. Gets a cycle list XML file from A&C by the map key (data group)
- 2. Splits the population by cycle codes and sub-partition, allocates a run ID to each group and copies all groups from the usage database to the history database.
- 3. Generates an xml output file with all the customers' IDs.
- 4. Directs the file to the Billing application via A&C.

Output Files

Naming Convention

BillingReport_<DateTime>_<partition id>_<cycle code>.txt

Location

\$ABP PM ROOT/work

Parameters

Parameter	Description	
Map Key	Rerate Map key	
Partition ID	Partition ID	
Run Mode	Customer/Cycle	
Map Mode	END/MID	

Databases

Audit and Control and Product Catalog tables (Oracle) – History

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

23. PM1POSTRER - REPORT AND FINALIZE

Description

This is the last job in the rerate map. It reports to Billing about subscribers that still exist in the SUBSCRIBER RERATE table.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: NA

Activation and Shutdown

Job Activation

 $\textbf{Command Line}: pm1PostRerShell_sh$

AMC: Yes, as part of rerate map.

Screen Composer: No

Script Name: pm1PostRer sh

Executable: Pm1ReportAndFinalaize

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

Name

- Pm.pm1PrepareAndReport_POSTRER_<Map key>_<Partition ID>_<Process Instance>.<Date Time>_Error.log
- Pm.pm1PrepareAndReport_POSTER_<Map key>_<Partition ID> <Process Instance>.<Date Time> Trace.log

Location

\$ABP PM ROOT/work.

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: Rerate

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

- 1. Fetches the cycle list from the history database using the map key.
- 2. From the usage database, fetches customers for rerate for all the relevant cycles. Sends those customers to Billing using an XML file.

Output Files

Naming Convention

BillingFinReport <date time> <partition ID>.log

Location

\$ABP PM ROOT/interfaces/output

Parameters

Parameter	Description
Map Key	Rerate Map key
Partition ID	Partition ID
Map Mode	END/MID

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage

Distribution

Billing machine

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

24. PM1PIMAIN - PI MAINTENANCE

Description

This job archives, reconstructs, and purges performance indicators.

The process performs the following subtasks regarding the Performance Indicator table in TimesTen, according to a flag defined in the configuration file:

- Archive Reads PI information (including static columns and dynamic data as is) from the TimesTen Performance Indicator table into an output file, from which it is loaded to the PI History database and the Oracle Performance Indicator table.
- Purge Cleans unneeded memory by removing records or setting columns holding dynamic data to "null." Note that the presence of the "reconstruct" verb enables the processing of cross-cycle PIs in memory.
- Reconstruct Copies the values of cross-cycle PIs from the previous cycle to the new cycle and invokes initialization handlers.
- Re-archive Deletes the relevant PIs from PI History database and then archives them in the same way as in Archive mode.

This process is subject to the following restrictions:

- Archive and Re-archive mode A month should not be archived unless
 the preceding month already has been archived. The Archive mode of the
 Maintenance process should only be run once on the same cycle. To
 rerun the archive process on the same cycle, use the Re-archive mode.
- Archive and Purge These tasks are mutually exclusive. While the cycle month is being archived, the Cycle State archived indicator directs Customer Management queries to TimesTen. Since the archiving process might fail before completion, purging while archiving could result in part of the cycle data being sent to TimesTen and part to Oracle. The two operations therefore are not performed concurrently.
- Reconstruct A month should not be reconstructed unless the preceding month already has been archived, because reconstruction can delete or overwrite the preceding month's data.
- Purge A month should not be purged unless that month already has been archived.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1PIMaintenanceShell sh true false false false 1 2 2002 1

AMC: No

Screen Composer: No

Script Name: pm1PIMaintenance_sh Executable: pm1PIMaintenance

Job Shutdown

AMC: No

Screen Composer: No

Log File

Name

```
Pm. pm1PIMaintenance.<partition ID>_<cycle instance>_<cycle year>.<date_time>_Error.log
Pm. pm1PIMaintenance.<partition ID>_<cycle instance>_<cycle year>.<date_time>_Trace.log
```

Location

\$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

The process does the following:

- 1. Performs initialization
- 2. Reads PI maintenance configuration data and performs validity checks according to the process restrictions
- 3. Initializes the Pricing Engine
- 4. Prepares three contexts:
 - CurrentEventPI
 - HistoryEventPI
 - Customer
- 5. Prepares a "spare" context for CurrentEventPI for purge, reconstruct, and commit purposes
- 6. Creates query parameters (PI, cycle code, cycle month, cycle year, etc.).
- 7. Uses the Query API to retrieve the PI records for the given parameters
- 8. Opens a cursor
- 9. While fetching the PI entity:
 - Writes the entity to a file. On reaching a predefined Number of Records per File, changes the file name so that the Replicator reads the file.
 - Calls the Rater API to purge or reconstruct (with the "spare" context)
 - If the predefined Number of Transactions to Commit is reached, closes the file and renames it for the Replicator to read and commit (with the "spare" context) to the database
- 10. Closes the cursor

Output Files

Naming Convention

None

Location

None

Parameters

The batch job uses the following parameters.

Parameter	Description
Cycle code	The code of the cycle
Cycle instance	The instance of the cycle
Cycle year	The year of the cycle
Partition ID	Rating partition ID
Archived	True or false
Reconstruct	True or false
Purge	True or false
Rearchived	True or false

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

25. UPDATE CYCLE STATE JOBS

Description

The Update Cycle State process performs several actions to update the Cycle State table.

The process consists of 3 separate jobs:

- PM1CYCLESTATE
- PM1LOCKBILL
- PM1CYCREOPEN

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line:

- pm1UpdateCycleStateShell sh 1 1 LOCK RERATE
- pm11OpenCycleShell sh 1 1 REOPEN NEW

AMC: Yes, as part of rerate map

Screen Composer: No

Script Name: pm1UpdateCycleState sh/pm1OpenCycle sh

Executable: pm1CycleEnvelop

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

Name

```
PM1CYCLESTATE / PM1LOCKBILL - Pm.
pm1CycleEnvelop.UpdateCycle_<Map
Key>_<PartitionID>_<ProcessInstance>_<DateTime>.log
PM1CYCREOPEN - Pm. pm1CycleEnvelop.OpenCycle_<Partition
ID>_>_<ProcessInstance>_<DateTime>.log
```

Location

\$ABP_PM_ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

The process does the following:

- 1. Connects to the Oracle database
- 2. Brings the map key, partition ID, run mode from the configuration file (either LOCK_RERATE, LOCK_BILL, REOPEN_NEW)
- 3. Updates the Cycle State table according to all cycles that are handled in the appropriate rerate map

Output Files

None

Parameters

Parameter	Description
Map Key	Rerate Map Key
Partition ID	Rating Partition ID
Run mode	LOCK_RERATE/LOCK_BILL/REOPEN_NEW

Databases

Audit and Control and Product Catalog tables (Oracle) – History

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

26. PM1TRUNCCYCLE - TRUNCATE CYCLE

Description

This process gets the partition ID, cycle code, cycle month, and cycle year as parameters. It truncates the relevant partitions from the RATED_EVENT, RPR1 SUBS RERATE and PERFORMANCE IND tables.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1TruncateCycleShell sh 1 1 2 2002

AMC: No

Screen Composer: Yes

Script Name: pm1TruncateCycle_sh Executable: pm1CycleEnvelop

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

Name

Pm. pm1CycleEnvelop.UpdateCycle_<Map
Key>_<PartitionID>_<ProcessInstance>_<DateTime>.log

Location

\$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

- 1. Connects to the Oracle database
- 2. Checks the Maintenance Indicator field in the PM1_CYCLE_STATE table and proceeds only if the Maintenance Indicator is set to "B" (backed up)
- 3. Truncates the Rated Event, Rejected Event, and Performance Indicator tables according to the cycle code, cycle month, and cycle year

Output Files

None

Parameters

Parameter	Description
Cycle code	The code of the cycle
Cycle month	The month of the cycle
Cycle year	The year of the cycle
Partition ID	Rating partition ID

Databases

This job requires access to the Rated Events database (Oracle).

Distribution

NA

Console Messages

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

27. PM1DISPATCHER - DISPATCHER

Description

This process dispatches events to specified destinations, such as the Rated Events table or output files.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: Daemon

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: Runs constantly

Activation and Shutdown

Job Activation

Command Line: pm1DispatcherShell sh DSN1 0

AMC: Yes

Screen Composer: Yes

Script Name: pm1Dispatcher_sh Executable: pm1Dispatcher

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

Name

- pm.pm1Dispatcher_<DSN>_<Dispatcher ID>_process Instance>.<date
 time>_Error.log
- pm.pm1Dispatcher_<DSN>_<Dispatcher ID>_<process Instance>.<date time>_Trace.log

Location

\$ABP PM ROOT/work. Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: PM1XLA2FILE or Postpaid Rater

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

Naming Convention

RD <unique ID> dispatching file <date>.dat

Location

\$ABP_PM_ROOT/data

Flow

The process does the following:

- 1. Connects to Audit & Control
- 2. Gets the input file
- 3. Reads the input record
- 4. Formats the record according to the destination's requirements, defined in RPR1 DISP TARGET
- 5. Distributes the record according to the target ID on the record

Output Files

Naming Convention

prefix> time

The prefix is taken from the rpr1 disp target table.

Location

rpr1 disp target.file path

Parameters

Parameter	Description
DSN	Data store name, run time
Dispatcher ID	ID of the Dispatcher run time

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

28. PM1STOPDISP - STOP DISPATCHER

Description

This process stops the Dispatcher process.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pmlStopDispatcher_sh DSN1 0

AMC: Yes

Screen Composer: Yes

Script Name: pm1StopDispatcher

Executable: None

Job Shutdown

AMC: No

Screen Composer: No

Log File

None

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: NA

Preceding Processes

None

Dependent Processes

None

Input Files

None

Flow

- Finds the Dispatcher PID (Process ID) that runs by the specified partition code and sub-partition code.
- Stops the Dispatcher process by sending a SIGTERM signal to the server. The server receives the signal and shuts down.

Output Files

None.

Parameters

Parameter	Description
DSN	Partition code
Dispatcher ID	Unique ID to differentiate between dispatchers working on the same partition

Databases

This paragraph specifies the databases the job uses, for example, *Usage1*, *Usage2*, *Customer*, etc.

NA

Distribution

NA

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

This paragraph contains a list of suggestions of how to recover the job.

29. PM1XLA2FILE - XLA TO FILE

Description

This job is a daemon process responsible for creating files containing the records stored in TimesTen. This process selects a portion of the records in the Rated Event and Rejected Event usage tables from the TimesTen logs, removes the Rater engine task ID from the records, and inserts them into a file.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: Daemon

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: Runs constantly

Activation and Shutdown

Job Activation

Command Line: pm1XLAReplicatorShell sh DSN1

AMC: Yes

Screen Composer: Yes

Script Name: pm1XLAReplicator sh

Executable: xladaemon

Job Shutdown

AMC: Yes

Screen Composer: Yes

Log File

Name

- event file XLA <date>.log
- console file XLA <date>.log prepaid daemon loading log
- error dispatch file XLA <date>.dat application errors
- pm1XLA2File_process ID>.log

Location

\$ABP PM_ROOT/work

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

This process does the following:

- Connects to TimesTen
- Reads the records from the XLA log (the TimesTen log)
- Writes the records into files

Output Files

Naming Convention

RD <unique ID> dispatching file <date>.dat

Location

\$ABP PM ROOT/data

Parameters

Parameter	Description
DSN	Data store name, run time

Databases

This job requires access to TimesTen.

Distribution

NA

Console Messages

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

30. PM1SPXLA2FILE – STOP XLA

Description

This job stops the XLA2File daemon.

Job Type

NA

Run Frequency

By request

Participating in Generic Maps

N/A

Run Level

N/A

Activation and Shutdown

Job Activation

Command Line:

RunJobs PM1SPXLA2FILE < JOB_REQ>

AMC: Yes

Screen Composer: Yes

Script Name: pm1StopXLAReplicator sh

Executable: None

Job Shutdown

AMC: NA

Screen Composer: NA

Log File

None

Job Flow

Run Level

N/A

Preceding Jobs

XLA2File must be active

Dependent Jobs

None

Input Files

None

Flow

The process sends a signal to the server that stops it gracefully.

Output Files

None

Parameters

Parameter	Description
DSN	Data store name, run time

Connection Details

NA

Distribution

NA

Console Messages

NA

Troubleshooting

NA

Recovery Instructions

31. PM1MARKNEXT - MARK NEXT FOR RERATE

Description

The Mark Next for Rerate process runs as part of the end-of-cycle rerate map. It ensures that rerate subscribers whose performance indicators (PIs) were constructed incorrectly for the next cycle are marked.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: NA

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1MarkNextShell sh 1 1

AMC: Yes, as part of the Rerate map

Screen Composer: No

Script Name: pm1MarkNext_sh

Executable: pm1MarkNext

Job Shutdown

AMC: Yes

Screen Composer: No

Log File

Name

- pm.pm1MarkNext_<DSN>_<Partition ID>.< date time>_Error.log
- pm.pm1MarkNext <DSN> <Partition ID>.< date time> Trace.log

Location

\$ABP PM ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: N/A

Preceding Jobs

This paragraph contains a list of the jobs that must be successfully performed **before** the job is run.

Preceding jobs: Rerate

Dependent Jobs

This paragraph contains a list of the jobs that can only be run after the successful completion of this job.

Dependent jobs: None

Input Files

None

Flow

- 1. Connects to TimesTen
- 2. Reads the records from PI table
- 3. Checks if the PI was constructed incorrectly
- 4. Marks the records of subscribers whose PIs are incorrect

Output Files

None

Parameters

Parameter	Description
Map Key	Rerate Map Key
Partition ID	Rating partition ID

Databases

- Audit and Control and Product Catalog tables (Oracle) History
- Rated Event data storage (TimesTen or Oracle) Usage

Distribution

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

32. PM1BCKEVNT - BACKUP EVENT DB

Description

The Event tables are very large, so it is impossible to store all their data in the production database. Therefore, there is a need to reuse the space of these tables. All four tables are created using the Oracle partition mechanism, which enables different cycles and months to reside on different partitions. (The Rated Event table also uses a sub-partition as a part of the partition key, so a cycle and month can reside on multiple partitions.)

The Backup Event DB job backs up a database partition, so it can later be truncated, and its space reused for a different cycle and month.

Job Type

This paragraph contains the type of job (extract, read, write, etc.).

Job Type: backup

Run Frequency

This paragraph defines how often the job runs; for example, daily, monthly, by request, etc.

Run Frequency: By request

Activation and Shutdown

Job Activation

Command Line: pm1bckevnt_sh 1 2 2003 amtwrkl amtwrkl. EXP ammh9i 1 or (interactive script)

pm1bckevnt pid sh

AMTI9i

AMC: No

Screen Composer: Yes

Script Name: pm1bckevnt pid sh

pm1bckevnt opr sh (runs from operational)

Executable: None

Job Shutdown

AMC: No

Screen Composer: Yes

Log File

Name

The log file name is M_<date>.log.

Location

\$ABP_PM_ROOT/work.

Job Flow

Run Level

This paragraph defines the level at which the job runs in the End of Day map (If relevant)

Run Level: NA

Preceding Jobs

None

Dependent Jobs

None

Input Files

None

Flow

The process does the following:

- 1. Connects to the database.
- 2. Performs a backup.

Output Files

None

Parameters

The batch job uses the following parameters.

Parameter	Description	
Table owner	The user name of the owner of the RATED_EVENT, PERFORMANCE_IND, REJECTED_EVENT, and RPR1_SUBS_RERATE tables Given manually when running shell script or by GN1_TASK_CONNECT for operational run	
Table owner	Password of the table owner	
password	Given manually when running shell script or by GN1_TASK_CONNECT for operational run	
Instance	The name of the instance	
	Given manually when running shell script or by GN1_TASK_CONNECT for operational run	
PARTITION_ID	Partition to backup	
CYCLE_CODE	The code of the cycle to backup	
CYCLE_MONTH	The month of the cycle to backup	
CYCLE_YEAR	The year of the cycle to backup	
ABP_PM_WORK	Directory for backup	
BCK_TYPE	EXP for Export and FUO for Fast Unload	
ALL_PARTITIONS	Y or N	

Databases

This job requires access to TimesTen.

Distribution

NA

Console Messages

NA

Troubleshooting

This paragraph contains a list of suggestions that can explain why the job did not run successfully or to prevent it from failing.

NA

Recovery Instructions

This paragraph contains a list of suggestions how to recover the job.

Document Release Information

Case No.	Service Pack No.	Description of Change
300073-	SP7	Rearchive mode was added to the PI
032606		Maintenance process in chapter 24.