

Oracle BRM Training

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Oracle Billing & Revenue Management

AGENDA

1. Utilities

Pin_virtual_time

pin_virtual_time utility to adjust or display BRM's current time and date, without affecting the operating system time and date. This utility is useful for testing billing and other time-sensitive functions in BRM. Testnap can be used to do following

Syntax

pin_virtual_time [-i *interval*] [-m *mode* [*time_value*]

i *interval*

Print the current BRM time every *interval* seconds to *stdout* (until interrupted by CTRL C).

-m *mode* [*time_value*] [-y]

Set BRM according to *mode* and *time_value*:

0 = use operating system time (normal mode). BRM uses operating system time with no adjustments.

1 = use *time_value* as a constant time (freeze mode). Time is frozen at the specified time until the **pin_virtual_time** command is used again to change the time or mode.

Use only when absolutely necessary, because BRM expects time to be moving.

2 = use *time_value* as the new time, and keep the clock running (offset mode). Time is adjusted to the time specified, and then advances one second every second. This is the mode that should be used for testing.

testnap

Testnap utility allows us to manually interact with BRM service by manually establishing a PCM Connection with the Connection Manager (CM), and then executing PCM operations using that connection.

Testnap can be used to do following

- Create input flists
- Save input and output flists
- Send opcodes
- View return (output) flists
- Create, view, modify, and delete objects and their fields
- Open, commit, and abort transactions

Pre-Requisite :

Pin.conf file in the directory, from where this utility is executed.

Pin_bill_day

Run daily.

Runs the following billing utilities:

- pin_deferred_act
- pin_bill_accts
- pin_collect
- pin_refund
- pin_inv_accts
- pin_deposit
- pin_cycle_fees

Pin_deferred_act

- Utility used to execute deferred actions.

```
pin_deferred_act [-report|-purge|-retry] [-opcode opcode_name]  
                 [-status pending|done|error][-start mm/dd/yy]  
                 [-end mm/dd/yy] [-verbose] [-test] [-help]
```

- This works mainly on **/schedule** objects.

-report

Displays the progress and current state of **/schedule** objects.

-purge

Purges from the Oracle Communications Billing and Revenue Management (BRM) database all **/schedule** objects whose actions have been executed successfully. This helps reduce the size of database.

-retry

Retries all the **/schedule** objects whose schedule actions have failed to execute and whose status is marked as ERROR

Pin_bill_accts

pin_bill_accts [-active|-close|-inactive] → Specifies the [status](#) of the accounts to be billed.
[-pay_type *pay_type_code*] → Example, 10000, 10007, 10003, 10005
[-end *mm/dd/yy|number_of_days*] → Specifies the due date for accounts to be billed
[-cycle_charge_only] [-finalize_bill] [-retry]
[-from_file *file_name*]
[-file *billing_run_config_file_name*] → Specifies the name and location of a billing run configuration file.
The default file is **pin_bill_run_control.xml** in the *BRM_home/apps/pin_bill* directory.
[-test] [-verbose] [-help]

- The **pin_bill_accts** utility calculates the balance due for each account *bill unit*, including all usage and cycle fees, and creates a bill for the balance due.
- It creates bills for accounts whose billing date is any day before midnight of the day the **pin_bill_accts** utility is run.
- The **pin_bill_accts** utility also performs the accounting cycle activity, such as creating new *bill items*.
- Use the **pin_bill_day** script to run the **pin_bill_accts** utility daily.
- Subordinate accounts should be billed before parent accounts.
- Pin_bill_accts utility should be executed before pin_collect , pin_inv_accts.

Pin_collect and pin_refund

```
pin_collect -pay_type payment_method
            -vendor payment_processor_name
            [-active | -close | -inactive] [-test] [-verbose]
            [-report][-rebill]
            [-start [mm/dd/yy | number_of_days]]
            [-end [mm/dd/yy | number_of_days]]
            [-help]
```

- Used to collect the balance due for accounts that use credit card and direct debit payment methods.
- By default, this utility collects payments for bills whose payment collection date is on the day the utility is run, as well as on the day before the utility is run.
- Pin_refund utility finds accounts that have *refund items* and makes online refund transactions.

```
pin_refund -pay_type payment_type_indicator
            -vendor payment_processor_name
            [-active | close | inactive]
            [-verbose] [-test] [-help]
```


Pin_inv_accts

pin_inv_accts [-test] [-start date] [-end date] [-regen]
[-summary | -detail] [-pay_type id | -file filename]
[-verbose] [-help]

-test

Runs a test to find out how many accounts meet the criteria without performing the action. The test has no effect on the accounts. This is most useful when run with the **-verbose** option.

-start date , -end date

Generates invoices for accounts whose billing cycle ended during the time period defined by the start and end date, including the end date.

-file filename

Generates an invoice for each bill in the specified file.

```
0 PIN_FLD_RESULTS    ARRAY [0]
1 PIN_FLD_POID       POID [0] 0.0.0.1 /bill 26011 0
0 PIN_FLD_RESULTS    ARRAY [1]
1 PIN_FLD_POID       POID [0] 0.0.0.1 /bill 26091 0
```

Pin_deposit

```
pin_deposit -pay_type payment_method  
            -vendor payment_processor_name  
            [-start mm/dd/yy | number_of_days ]  
            [-end mm/dd/yy | number_of_days ]  
            [-test]  
            [-verbose]  
            [-help]
```

- Use this utility to deposit all pre-authorized credit card and direct debit transactions made within the past 30 days (from yesterday).

-pay_type *payment_method*

Specifies the payment method. There are two possible values:

10003 for credit card

10005 for direct debit

Payment methods are defined in *BRM_home/include/pin_pymt.h*.

Pin_cycle_fees

pin_cycle_fees -cycle_fees | -cancel | -purchase
[-start mm/dd/yy | number_of_days]
[-end mm/dd/yy | number_of_days]
[-verbose] [-test] [-help]

- Identify cycle forward fees that have reached the end of free billing periods. For example, if a customer signs up for one month of free service, the **pin_cycle_fees** utility finds when the free period is over and applies the cycle forward fee balance impact to the customer's account.
- Cancel products that have an expired pending cancellation date. For example, if a product is set to cancel at a future date, the **pin_cycle_fees** utility cancels the product.

Pin_trial_bill_accts

```
pin_trial_bill_accts [-start mm/dd/yy | +/- numberOfDays | 0]
                    [-end mm/dd/yy | +/- numberOfDays | 0]
                    [-f inputFile | -f_control inputFile]
                    [-active | -inactive | -closed]
                    [-bill_only]          [-verbose] [-help]
```

-start *mm/dd/yy* or *yyyy* | *+/- numberOfDays* | **0**

-end *mm/dd/yy* or *yyyy* | *+/- numberOfDays* | **0**

The **start** and **end** dates determine which accounts are selected for trial billing and which billing cycles for those accounts are trial billed.

Inputfile - Specifies the text file that contains the list of account POIDs for trial billing.

loadpricelist

```
loadpricelist [-v] [-d] [-f] -c PriceListFile |  
              [-v] [-d] [-f] -p |  
              [-v] [-d] [-f] -r PriceListFile [-P] [-D] [-s ServiceType] [-h]
```

- Used to prepare and commit price list information, such as *products*, *deals*, *plans*, and *plan lists*.
- **loadpricelist** maintains only one [*flist*](#). When you load the price list information from your database, **loadpricelist** removes the current flist and creates a new flist.

Load_pin_notify

load_pin_notify [-d] [-v] [-h] *pin_notify_file*

pin_notify_file

The name and location of the configuration file that contains the event notification list you want to load into your database. The default event notification configuration file, **pin_notify**, is in *BRM_home/sys/data/config*.

Already discussed utilities

- **Load_pin_glid**
- **Pin_ledger_report**
- **Load_config_item_tags**
- **Load_config_item_types**

“Thank You”

