Oracle® Banking Virtual Account Management Cloud Service EOD Configuration Guide



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Oracle Banking Virtual Account Management Cloud Service EOD Configuration Guide, Release 14.7.4.0.0

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Preface

- Purpose
- Audience
- Documentation Accessibility
- Diversity and Inclusion
- Related Resources
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- Acronyms and Abbreviations

Purpose

This guide provides the information on the required set up to run the End of Day process.

Audience

This guide is intended for WebLogic admin or ops-web team who are responsible for installing the OFSS banking products.

Documentation Accessibility

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Related Resources

The related documents are as follows:

- Oracle Banking Security Management System User Guide
- Oracle Banking Common Core User Guide
- Oracle Banking Getting Started User Guide

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents are dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

The list of acronyms and abbreviations that are used in this guide are as follows:

Table 1 Acronyms and Abbreviations

Abbreviation	Description
API	Application Programming Interface
EOD	End of Day



1 Introduction

This guide provides the background information on EOD process.

Oracle® Banking Virtual Account Management Cloud Service allows the user to execute several functions every day on a routine basis as part of the End of Day (EOD) process. These functions can be run at various stages of the EOD process.

The End of Day process is to tie up all the operations for a financial day and prepare the system for the next day. The EOD process should be defined for a branch and executed separately for each branch. When the process is running, you could choose to monitor it from Invoke EOD screen.

EOD uses Oracle Banking Microservice Architecture Orchestrator and Batch service for orchestrating all the jobs required to complete End of Day processing.



2 EOD Configuration

This topic describes the systematic instructions to configure EOD operations.

The following functional activities needs to be maintained in user's role to perform EOD operations:

CMC_FA_BRANCH_EOD_PROCESS

Note:

Refer the Create User topic in Oracle Banking Security Management System User Guide.

Specify User ID and Password, and login to Home screen.

Business Process Maintenance:

The standard batch process definitions for **endofdaywf** and **ResetSequenceSubWorkflow** are preloaded and available in **Business Process Maintenance** screen. The user can modify and create new batch definition based on the requirements.

Note:

Refer the **Business Process Maintenance** topic in **Tasks User Guide** for the detailed explanation.

Configure EOD:

1. On **Core Maintenance** menu, under **Branch EOD**, click **Configure EOD** to configure batch for a branch.

The Configure EOD screen displays.

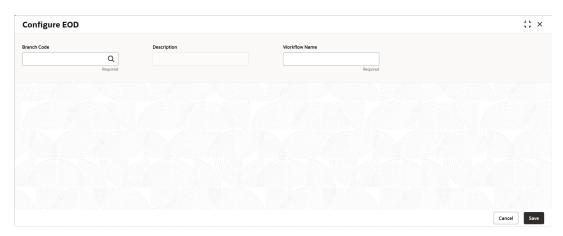


Figure 2-1 Configure EOD



Note:
 Refer the Branch EOD topic in Oracle Banking Common Core User Guide.
 Click the search icon and select the Branch Code to configure the batch.

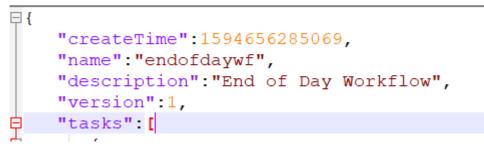
3. Specify the **Workflow Name** in the respective field.

Note:

2.

The value specified in **Workflow name** field must be exactly same as the **first name** attribute specified in batch process definition file.

Figure 2-2 Workflow Name



 Steps to run EOD for branch This topic describes the systematic instructions to run EOD for a branch.

2.1 Steps to run EOD for branch

This topic describes the systematic instructions to run EOD for a branch.

Specify User ID and Password, and login to Home screen.

- 1. On Home screen, click Core Maintenance. Under Core Maintenance menu, click Branch EOD.
- 2. Under Branch EOD, click Invoke EOD.

The Invoke EOD screen displays.



Figure 2-3 Invoke EOD

Invoke EOD			;; ×
Initiate End of Day Batch Operation			
Branch Code	Description	Current Branch Date	
018 Q	EODBRANCH	2018-04-09	
Start Retry Reset			
Start Redy Reset			
iew End of Cycle Processes			
Refresh	Auto Refresh(60s)		
	MCUT.PendingCheck		
	MCUT.MarkCutOff		
	MCUT.pauseVDTurnOver		
	MCUT.VamlcMaintQueueUpdate		
	MELIT turnOverBalancel Indate		

- Click the search icon and select the Branch Code to run EOD.
 Refer the Branch EOD in Oracle Banking Common Core User Guide.
- 4. Click **Refresh** to view the current status of branch.

3 Job Definition Naming Convention

This topic describes about the naming convention to be followed when a custom job is introduced as a task into EOD process.

Milestone task name and taskReferenceName must be same and prefixed with "MS-". Ex: MS- EOFIMilestone

Milestone

EOD run pause at each Milestone shall be resumed by clicking Proceed button manually.

Refer Section 2.5 Branch EOD in Oracle Banking Common Core User Guide.



Figure 3-1 Sample template for Milestone stage

Steps to integrate Custom Jobs



1. If the custom job uses Oracle Banking Microservices Architecture Batch service, then use the below template to include the job as a task in EOD Flow definition.

```
"type":"HTTP",
"name":"<MilestoneCode.JobName>",
"taskReferenceName":"<MilestoneCode.JobName>",
"inputParameters":
 {
 "http request":
  {
  "connectionTimeOut":"0",
  "readTimeOut":"0",
  "vipAddress":"PLATO-BATCH-SERVER",
  "uri":"/plato-batch-server/jobLauncher/launch/",
  "method":"POST",
  "headers":
   {
   "appId":"${workflow.input.appId}",
   "branchCode":"${workflow.input.branchCode}",
   "userId":"${workflow.input.userId}"
  },
  "body":
  {
  "jobName":"<JobName>",
  "jobParameters":
   Γ
    {
    "key":"appId",
    "value":"<Application ID of microservice>"
    },
    {
    "key": "microServiceName",
    "value":"<Microservice name>"
    },
    {
    "key":"contextRoot",
    "value":"<Context root of microservice>"
    },
    {
    "key": "workflowId",
    "value":"${workflow.workflowId}"
    },
    {
    "key":"referenceTaskName",
    "value":"<MilestoneCode.JobName>"
    },
    {
    "key":"userId",
    "value":"${workflow.input.userId}"
    },
    {
    "key":"branchCode",
    "value":"${workflow.input.branchCode}"
    },
    {
```

```
"key":"isCallback",
     "value":"Y"
     },
     {
     "key":"callbackType",
     "value":"PLATOORCH"
     }
    ]
   }
  },
  "asyncComplete":true
},
"startDelay":0,
"optional":false,
"asyncComplete":true
}
```

2. If the custom job doesn't uses Oracle Banking Microservices Architecture Batch service and the Batch API is implemented as a synchronous call, then use the below template to include the job as a task in EOD Flow definition.

```
"type":"HTTP",
"name":"<MilestoneCode.JobName>",
"taskReferenceName":"<MilestoneCode.JobName>",
 "inputParameters":
 {
 "http_request":
 {
  "connectionTimeOut":"0",
  "readTimeOut":"0",
  "vipAddress":"<Microservice name registered in eureka>",
  "uri":"<relative URL>",
   "method":"<HTTP Method>",
   "headers":
   {
   "appId":"${workflow.input.appId}",
   "branchCode":"${workflow.input.branchCode}",
    "userId":"${workflow.input.userId}"
  }
 },
 "asyncComplete":false
},
"startDelay":0,
"optional":false,
"asyncComplete":true
}
```

Note:

HTTP Method - One of the GET, PUT, POST, DELETE, OPTIONS, HEAD

3. If the custom job doesn't uses Oracle Banking Microservices Architecture Batch service and if the Batch API is implemented as an asynchronous call, then call back needs to be implemented in the respective API. Please use the below template to include the job as a task in EOD Flow Definition.

```
{
 "type":"HTTP",
"name":"<MilestoneCode.JobName>",
"taskReferenceName":"<MilestoneCode.JobName>",
 "inputParameters":
 {
  "http_request":
  {
  "connectionTimeOut":"0",
  "readTimeOut":"0",
  "vipAddress":"<Microservice name registered in eureka>",
  "uri":"<relative URL>",
   "method":"<HTTP Method>",
  "headers":
   {
   "appId":"${workflow.input.appId}",
   "branchCode":"${workflow.input.branchCode}",
   "userId":"${workflow.input.userId}"
  }
  },
 "asyncComplete":true
},
"startDelay":0,
"optional":false,
"asyncComplete":true
}
```

Table 3-1 Batch API

Serial Number	Milestone	Job Name
URL	http:// <hostname>:<port>/plato-orch- service/api/tasks</port></hostname>	-
Headers	userId : <logged id="" in="" user=""></logged>	userId – User who updates the task
	branchCode : <logged branch="" code="" in=""> appId : platoorch</logged>	branchCode – Branch where the update is performed
	Content-Type : application/json	
	Accept : application/json	
Body	{	EOD_Workflow_ID – A Workflow ID gets generated when EOD is invoked
	"workflowInstanceId": " <eod_workflow_id",< td=""><td>Task_ID – Unique task ID gets generated for each task once it starts</td></eod_workflow_id",<>	Task_ID – Unique task ID gets generated for each task once it starts
	"taskId": " <task_id>", "status": "<status>" }</status></task_id>	Status – COMPLETED / FAILED_WITH_TERMINAL_ERROR / FAILED / IN_PROGRESS

Note:

asyncComplete – field in EOD workflow definition should be set to true, if the Http task makes an asynchronous call. The task has to be updated explicitly by calling the above update APIs. Only after successful update, the next task will get executed.



Oracle® Banking Virtual Account Management Cloud Service Job

This topic describes about Oracle® Banking Virtual Account Management Cloud Service Job names and its description.

Serial Number	Milesto ne	Job Name	Description
1	MCUT	Pending Check	Task to check if any pending maintenance or transaction exist. This pending check task will fail if there is any unauthorized maintenance or transaction. If pending check task fails, you should check for unauthorized maintenance or transaction and take necessary action. This action could be authorizing/ deleting maintenance/ transaction.
2	MCUT	MarkCutOff	Job to mark cut off.
3	MCUT	pauseVDTurnOver	Job to pause Intraday VdBalance and Turnover job.
4	MCUT	VDBalanceUpdate	Job to calculate value dated balances for virtual accounts.
5	MCUT	entityPositionsUpdate	Job to calculate Inter Entity Positions for a customer.
6	MCUT	VamIcMaintQueueUpdate	Job to update IC maintenance queue for value dated balance changes.
7	EOD	ChargeCalculation	Job to run charge calculation.
8	EOD	ChargePosting	Job to run charge posting.
9	MCUT	turnOverBalanceUpdate	Job to calculate turnover balance for a virtual account which is used for charge calculations.
10	MCUT	ICMarkCutoff	Job to mark cutoff so that interest processing can start.
11	MCUT	ICBEOD	Job to process interest calculations.
12	EOFI	MarkEOFI	Job to mark EOFI.
13	EOFI	EodStatement	Job to generate EOD statement.
14	EOFI	InitiateAccountStatement	Initiate Account Statement Generation.
15	EOFI	ForgetEntity	Job to forget virtual entity.
16	EOFI	ForgetVirAccount	Job to forget virtual account.
17	EOFI	ForgetCoreCustomer	Job to forget core customer.
18	EOFI	ForgetCoreAccount	Job to forget core account.
19	BOD	ChangeDate	Job to change branch date.
20	BOD	UncollectedAmount	Job to release the uncollected amount.
21	BOD	ICFlipDate	Job to change branch date.
22	BOD	bodlepPositionsJob	Job to stamp the start of the day Inter Entity positions for the specific date

 Table 4-1
 Oracle® Banking Virtual Account Management Cloud Service Job



Serial Number	Milesto ne	Job Name	Description
23	BOD	ResetSequenceWorkflow	Job to reset the sequence used to generate processing reference number for transactions, amount block/eca, internal transfer and statements.
23a	BOD	ResetSequenceSubWorkflow	Job to reset the sequence used to generate processing reference number for transactions, amount block/eca, internal transfer and statements.
24	RCUT	ReleaseCutOff	Job to release cutoff after interest processing is done.
25	RCUT	ICReleaseCutoff	Job to release IC cutoff after interest processing is done.
26	RCUT	resumeVDTurnOver	Resume VD Balance Turnover.
27	RCUT	UntankBalance	Job to untank accounting entries.
28	RCUT	MarkAccountInactive	Job to mark virtual accounts inactive.
29	RCUT	AmountBlockExpiry	Job to mark amount block expired based on expiry date.
30	RCUT	CreditlimitUtil	Job to re- valuate credit limit utilization based on updated exchange rates.
31	RCUT	VATxnUTilization	Job to reset the virtual account level transaction limit restriction and move existing to history.

Table 4-1 (Cont.) Oracle® Banking Virtual Account Management Cloud Service Job

Note:

The **Charge Calculation** (ChargeCalculation) and **Charge Posting** (ChargePosting) jobs are allowed to be configured either before date flip (EOD) or after date flip (BOD). Based on the bank's requirement, this can be configured. By default, these jobs are shipped with EOD configuration.

5 Intraday Jobs

This topic provide information about the Intraday Jobs that runs during the day based on the configured frequency.

This topic contains the following subtopics:

- Create Task
 This topic describes the systematic instructions to create the task.
- Configure Tasks
 This topic describes the systematic instructions to configure the tasks.

5.1 Create Task

This topic describes the systematic instructions to create the task.

Oracle Banking Virtual Account Management Intraday jobs required the following tasks to be created:

1. On Home screen, under Task Management menu, click Create Task.

The Create Task screen displays.

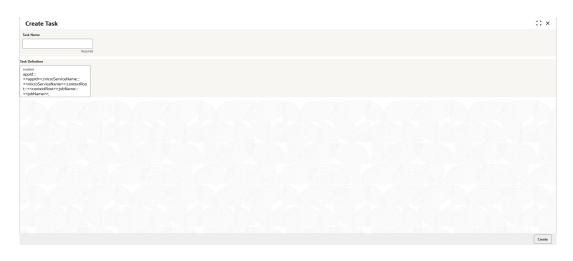
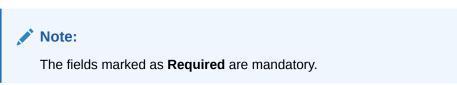


Figure 5-1 Create Task



2. Specify the values mentioned in the following table.

S No	Task Name	Decorinties	Task Definition
1 1	savetoChargeCalCollJobSch edule	Description Intra day job to process entries (customer/ structure/ decision/ preferential decision) enabled for charges and push the data to charge computation tables	appld:::VAMLMCHG;microServiceName:::v amlm-charge- services;contextRoot:::vamlm-charge- services;jobName:::savetoChargeCalCollJo b;appCode:::VAMCHG;type:::schedule;cron Expression:::0 0 */3 ? * *;
2	entityPositionsUpdateJobSc hedule	Intra day job to update the inter entity positions.	appId:::VIE;microServiceName:::obvam- iep-services;contextRoot:::obvam-iep- services;jobName:::entityPositionsUpdateJ ob;appCode:::VIE;type:::schedule;cronExpr ession:::0 */7 * ? * *;
3	valueDateUpdateJobSchedu le	Intra day job to process the transaction entries and updated the value dated balance of virtual account based on specific flag.	appId:::VAM;microServiceName:::obvam- account-services;contextRoot:::obvam- account- services;jobName:::valueDateUpdateJob;a ppCode:::VAM;vdBatchCount:::1;type:::sch edule;cronExpression:::0 */5 * ? * *;
4	virtualAccountCloseJobSch edule	Intra day job to process closure of virtual account that includes checks in other domain, balance transfer , interest liquidation and updating the status of account.	appld:::VAM;microServiceName:::obvam- account-services;contextRoot:::obvam- account- services;jobName:::virtualAccountCloseJob ;type:::schedule;cronExpression:::0 */3 * ? * *;

Table 5-1	Intraday Job -	Task Values
-----------	----------------	-------------

3. Click **Create** to create the task for each intraday job.

5.2 Configure Tasks

This topic describes the systematic instructions to configure the tasks.

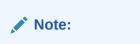
The Configured intra-day jobs will get triggered as per the specified Cron Expression, for the Create Task the scheduler needs to be configured as shown as follows.

1. On Home screen, under Task Management menu, click Configure Tasks.

The **Configure Tasks** screen displays.

Figure 5-2 Configure Tasks

Configure Tas	iks	::×
Task Name 0	Teok Definition 🗘	Actions 0
ipaOfferExpiryJob	appid::RPMBATCHtentityld::DEFAULTENTITY:microServiceName::obremo-rpm-batch-services.contextRoot::obremo-rpm-batch-services.type::schedule.jobName::jpaOfferExpiry.lob;cronExpression:::0 0 25 **?	Delete
offerExpiryJob	appld=RPMBATChtenthyld=DEFAULTENTITY/microServiceName=obremo-rpm-batch-services;contextRoot:=obremo-rpm-batch-services;type=:schedule;jobName=offerExpiryJob;cronExpression=0.023**?	Delete
Page 1 of 2 (1-	Zol 3 kems) K e (1 2) X	
O Event O Sched		
Task Name		
	Q	
	Projeted	
Task Trigger Name		
enabled		
Additional Trigger Parame	ters	
enabled		
		Save



The fields marked as **Required** are mandatory.

- 2. Select the Schedule option.
- 3. Click the Search icon and select the Task Name from the drop-down list.
- 4. Specify the trigger name in Task Trigger Name field.
- 5. Specify the required CRON expression in CRON Expression field.
- 6. Click Save to configure the task.



A Error Codes and Messages

This topic provides the error codes and messages found in the application.

Error Code	Messages
CMC-EOD-001	Invoked EOD successfully.
CMC-EOD-002	Failed while resolving current date.
CMC-EOD-003	EOD flow is not maintained for \$1 branch.
CMC-EOD-004	EOD already invoked for today.
CMC-EOD-005	Unable to invoke EOD.
CMC-EOD-006	Retried EOD successfully.
CMC-EOD-007	Failed to retry EOD.
CMC-EOD-008	Pending maintenances exist. Failed to start EOD.
CMC-EOD-009	Failed during pending maintenance check.
CMC-EOD-010	Pending transactions exist. Failed to start EOD.
CMC-EOD-011	Failed during pending transaction check.
CMC-EOD-012	Marked cutoff for the branch successfully.
CMC-EOD-013	Branch not in Transaction Input. Cannot mark cutoff.
CMC-EOD-014	Branch not in EOD stage. Cannot release cutoff.
CMC-EOD-015	Released cutoff for the branch successfully.
CMC-EOD-016	Branch cutoff not released. Cannot mark Transaction Input.
CMC-EOD-017	Branch cutoff not marked. Cannot mark End of Transaction Input.
CMC-BRN-EOD01	Branch Status not in TI, cannot initiate EOD.
CMC-BRN-EOD02	EOD invoked for the branch.
CMC-BRN-EOD03	Invalid Branch Code.
CMC-BRN-EOD04	EOD Requested on Date is not Branch Today.
CMC-BRN-EOD05	EOD cannot be invoked on a holiday.
CMC-BRN-EOD06	Date changed successfully.
CMC-BRN-EOD07	EOD not invoked, cannot initiate change date.
CMC-BRN-EOD08	EOFI job not completed, cannot initiate change date.
CMC-BRN-EOD09	EOD not invoked, cannot initiate mark TI.
CMC-BRN-EOD10	Date Change job not completed, cannot initiate TI for next day.
CMC-BRN-EOD11	Mark TI successful.
CMC-BRN-EOD12	Branch status not in TI, cannot initiate Mark EOFI.
CMC-BRN-EOD13	Branch status not in EOFI, cannot change Date.
CMC-BRN-EOD14	Branch status for next working date update to EOD.
CMC-BRN-EOD15	Branch status not in EOD, cannot mark TI.
CMC-BRN-EOD16	Branch status for next working date update to TI.
CMC-BRN-EOD17	Branch Status Changed to EOFI.
CMC-BRN-EOD18	Invoke Mark TI failed.
CMC-BRN-EOD19	Date change completed cannot retrigger.

Table A-1 Error Codes and Messages



Table A-1 (C	Cont.) Error C	odes and Messa	iges
--------------	----------------	----------------	------

Error Code	Messages	
CMC-BRN-EOD20	Mark TI completed cannot retrigger.	
CMC-BRN-EOD21	Date changed failed.	
CMC-BRN-EOD30	Invalid requested date, failed to parse.	
CMC-BRN-EOD31	Mark EOFI retry initiated.	
CMC-BRN-EOD32	Cannot retry Mark EOFI which has not failed.	
CMC-BRN-EOD33	Date Changed successfully. \$1	
CMC-BRN-EOD34	BOD Batches completed successfully.	
CMC-BRN-EOD35	BOD Batches retriggered successfully. \$1.	
CMC-BRN-EOD36	\$1. Hence EOFI Failed.	
CMC-BRN-EOD37	Failed in getting current date.	

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