

Oracle® Banking Virtual Account Management Cloud Service EOD Configuration Guide



Release 14.7.1.0.0
F85399-01
September 2023

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Purpose

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

Audience

This guide is primarily intended for the following user/user roles:

Table 1 Audience

Role	Function
Implementation and IT Staff	Implementation and maintenance of the software

Documentation Accessibility

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Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

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.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
<code>monospace</code>	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 2 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 need 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*.

2. Click the search icon and select the **Branch Code** to configure the batch.
3. Specify the **Workflow Name** in the respective field.

 Note:

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

```
{
  "createTime":1594656285069,
  "name":"endofdaywf",
  "description":"End of Day Workflow",
  "version":1,
  "tasks":[]
}
```

- [Steps to run EOD for branch](#)
This topic describes the systemetic instructions to run EOD for a branch.

2.1 Steps to run EOD for branch

This topic describes the systemetic 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

The screenshot shows a web application titled "Invoke EOD". It has a header section with the title and a close button. Below the header, there is a section titled "Initiate End of Day Batch Operation". This section contains three input fields: "Branch Code" with the value "018", "Description" with the value "EODBRANCH", and "Current Branch Date" with the value "2018-04-09". There are three buttons: "Start", "Retry", and "Reset". Below this section, there is a section titled "View End of Cycle Processes". This section contains a "Refresh" button and an "Auto Refresh(00s)" toggle switch. Below the toggle switch, there is a list of processes, each represented by a green bar with a right-pointing arrow. The processes are: "MCUT.PendingCheck", "MCUT.MarkCutOff", "MCUT.pauseVDturnOver", "MCUT.VDBalanceUpdate", "MCUT.Viamic MaintQueueUpdate", and "MCUT.pauseVDturnOver Initiate".

3. 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



```
{
  "type": "HTTP",
  "name": "MS-EOFIMilestone",
  "taskReferenceName": "MS-EOFIMilestone",
  "inputParameters": {
    "http_request": {
      "connectionTimeout": "0",
      "readTimeout": "0",
      "vipAddress": "CMC-BRANCH-SERVICES",
      "uri": "/cmc-branch-services/brancheod/milestone",
      "method": "POST",
      "headers": {
        "appId": "CMNCORE",
        "branchCode": "${workflow.input.branchCode}",
        "userId": "${workflow.input.userId}"
      },
      "body": {
        "data": [
          {
            "workflowId": "${workflow.workflowId}",
            "taskId": "${CPEWF_TASK_ID}",
            "waitTime": "5000"
          }
        ]
      }
    }
  },
  "asyncComplete": true
},
"startDelay": 0,
"optional": false,
"asyncComplete": true
},
```

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": "${workflow.input.userId}"
      },
      "body": {
        "jobName": "<JobName>",
        "jobParameters": [
          {
            "key": "appId",
            "value": "<Application ID of microservice>"
          },
          {
            "key": "microServiceName",
            "value": "<Microservice name>"
          },
          {
            "key": "contextRoot",
            "value": "<Context root of microservice>"
          },
          {
            "key": "workflowId",
            "value": "${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 use 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 use 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	–
Headers	userId : <Logged in user id> branchCode : <Logged in branch code> appId : platoorch Content-Type : application/json Accept : application/json	userId – User who updates the task branchCode – Branch where the update is performed
Body	{ "workflowInstanceId": "<EOD_Workflow_ID", "taskId": "<Task_ID>", "status": "<Status>" }	EOD_Workflow_ID – A Workflow ID gets generated when EOD is invoked Task_ID – Unique task ID gets generated for each task once it starts 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.

4

Oracle® Banking Virtual Account Management Cloud Service Job

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

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

Serial Number	Milestone	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	VamIcMaintQueueUpdate	Job to update IC maintenance queue for value dated balance changes.
6	EOD	ChargeCalculation	Job to run charge calculation
7	EOD	ChargePosting	Job to run charge posting
8	MCUT	turnOverBalanceUpdate	Job to calculate turnover balance for a virtual account which is used for charge calculations.
9	MCUT	ICMarkCutoff	Job to mark cutoff so that interest processing can start.
10	MCUT	ICBEOD	Job to process interest calculations.
11	EOF	MarkEOF	Job to mark EOF.
12	EOF	EodStatement	Job to generate EOD statement.
13	EOF	InitiateAccountStatement	Initiate Account Statement Generation.
14	EOF	ForgetEntity	Job to forget virtual entity.
15	EOF	ForgetVirAccount	Job to forget virtual account.
16	EOF	ForgetCoreCustomer	Job to forget core customer.
17	EOF	ForgetCoreAccount	Job to forget core account.
18	BOD	ChangeDate	Job to change branch date.
19	BOD	UncollectedAmount	Job to release the uncollected amount.
20	BOD	ICFlipDate	Job to change branch date.

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

Serial Number	Milestone	Job Name	Description
21	BOD	ResetSequenceWorkflow	Job to reset the sequence used to generate processing reference number for transactions, amount block/eca, internal transfer and statements.
21a	BOD	ResetSequenceSubWorkflow	Job to reset the sequence used to generate processing reference number for transactions, amount block/eca, internal transfer and statements.
22	RCUT	ReleaseCutoff	Job to release cutoff after interest processing is done.
23	RCUT	ICReleaseCutoff	Job to release IC cutoff after interest processing is done.
24	RCUT	resumeVDTurnOver	Resume VD Balance Turnover.
25	RCUT	UntankBalance	Job to untank accounting entries.
26	RCUT	MarkAccountInactive	Job to mark virtual accounts inactive.
27	RCUT	AmountBlockExpiry	Job to mark amount block expired based on expiry date.
28	RCUT	CreditlimitUtil	Job to re- valuate credit limit utilization based on updated exchange rates.
29	RCUT	VATxnUtilization	Job to reset the virtual account level transaction limit restriction and move existing to history.

**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.

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