

Oracle® Banking Virtual Account Management

Oracle Banking Digital Experience Integration Guide



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Preface

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Purpose

This guide describes the systematic instruction to integrate Oracle Banking Virtual Account Management with Oracle Banking Digital Experience and its specific maintenance.

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

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at [Critical Patches, Security Alerts and Bulletins](#). All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

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 user supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that user 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
JWT	JSON Web Token

1

Integration Guide

This topic provides the information on the integration of Oracle Banking Virtual Account Management with Oracle Banking Digital Experience.

- [Maintenance for Oracle Banking Virtual Account Management](#)
This topic describes the specific maintenance required for Oracle Banking Virtual Account Management to integrate with Oracle Banking Digital Experience.
- [OAuth Token Generation](#)
This topic provides the information to access service APIs by passing OAuth token (prior versions - JWT token) as one of the headers from Oracle Banking Virtual Account Management.

1.1 Maintenance for Oracle Banking Virtual Account Management

This topic describes the specific maintenance required for Oracle Banking Virtual Account Management to integrate with Oracle Banking Digital Experience.

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

User Maintenance

Create a user for Oracle Banking Digital Experience and assign a role for the user to perform service API operations in Oracle Banking Virtual Account Management.

Refer to **Oracle Banking Security Management System User Guide** for a detailed explanation.

1. On **Home** screen, click **Security Management**. Under **Security Management**, click **User**.
2. Under **User**, click **Create User**.

The **Create User** screen displays.

Figure 1-1 Create User

Create User

User Details

Name: Login ID: Home Branch:

Status

User Status: Status Changed On: Is Supervisor: ☒ Manager ID: Start Date: End Date: System User: ☐

Other Details

Access to PII: ☐ Staff Customer Restriction Required: ☐ Customer ID: Email ID: Telephone Number: Home Phone Number: Mobile Number: Fax: Language Code: Required

User Role Branches

<input type="checkbox"/>	Branch Code	Role Code	Role Description
<input type="checkbox"/>			

Page 1 of 1 (1 of 1 items) |< < 1 > >|

User Applications

<input type="checkbox"/>	Application Name	Application Description
<input type="checkbox"/>		

Page 1 of 1 (1 of 1 items) |< < 1 > >|

Customer Access Groups

<input type="checkbox"/>	Customer Access Group	Customer Access Description
No data to display.		

Page 1 (0 of 0 items) |< < 1 > >|

Cancel Save

Upload Source Code Maintenance

Maintain an entry for Oracle Banking Digital Experience in the **Upload Source** screen. Refer to **Oracle Banking Common Core User Guide** for a detailed explanation.

- On **Home** screen, click **Core Maintenance**. Under **Core Maintenance**, click **Upload Source**.
- Under **Upload Source**, click **Create Upload Source**.

The **Create Upload Source** screen displays.

Figure 1-2 Create Upload Source

1.2 OAuth Token Generation

This topic provides the information to access service APIs by passing OAuth token (prior versions - JWT token) as one of the headers from Oracle Banking Virtual Account Management.

Follow the below steps for OAuth token generation:

1. Generate JWT token by using the below endpoint and headers. (The port used in all the below API calls should be PLATO-APIGATEWAY-ROUTER port)

Make HTTP POST call to the below endpoint.

URL: `http://<hostname>:<port>/api-gateway/platojwtauth/`

Header: `appId: SECSR001`

Header: `content-Type: application/json`

In the POST body, mention the Base64 encoded username as username and Base64 password as password in the JSON format.

Sample POST body:

```
{
  "username": "T0JEWDax",
  "password": "d2VsY29tZQ=="
}
```

2. Registering clients for OAuth

Make HTTP POST call to the below endpoint.

End Point: `http://<hostname>:<port>/api-gateway/createOauthUsers`

Header: `appId: SECSR001`

Header: `content-Type: application/json`

Header: `userId: <USERID>`

Header: `Authorization: Bearer <JWT token created in step 1>`

In Request Body, `ClientId` should be Oracle Banking Virtual Account Management User Id created for Oracle Banking Digital Experience and `ClientSecret` should be the secret password for the OAuth client registration. In addition, the validity is mentioned in seconds till when the token is active.

Sample Request Body:

```
{
  "UserList":
  [
    {
      "clientId": "client1",
      "clientSecret": "secret1",
      "validity": "86400"
    },
    {
      "clientId": "client2",
      "clientSecret": "secret2",
      "validity": "86400"
    }
  ]
}
```

3. Generate OAuth Token

To get the OAuth token, make an HTTP POST call to the below endpoint with the `clientId` and `clientSecret` created in Step 2.

URL: http://<<hostname>>:<<port>>/api-gateway/platojwtauth/

Header: appId: SECSRV001

Header: content-Type: application/json

Header: sourceCode: <SOURCECODE>

Note

Source Code created for Oracle Banking Digital Experience in [Figure 1-2](#) screen.

In the POST body, mention the Base64 encoded clientId as username and Base64 clientSecret as password in the JSON format.

Sample Oauth Token Response:

```
{  
    "super_user_locale": null,  
    "scope": "resource-server-read, resource-server-write",  
    "super_user": "N",  
    "token_type": "bearer",  
    "entity_id": "DEFAULTENTITY",  
    "expires_in": "360000",  
    "token":  
        "eyJraWQoOiI5MmY4ZjA3YSIsMTBiLTQ4YjItYjVkbG9xMGltXzRgZWJlMzMtMiLCJhbGciOiJSUz  
        IiNiJ9.  
  
eyJzdWIiOiJESEFSQU5FVTEiLCJhdwQiOiJESEFSQU5FVTEiLCJuYmYiOjE2ODMxNmM5NDgsImI  
zcyciOi6  
  
Imh0dHBzOi8vb2Zscy1tdW0tNDM5Mi5zbmJvbmVjbG9yL2hhcmVkMi5nYnVjZHNpbnpqWmMjvbmS5vcml  
ybGV2
```

```
Y24uY29tOjcwMDgvYXBpLWdhZGV3YXkiLCJleHAiOjE2ODM1MzM5NDgsImhhdCI6MTY4MzE3Mzk  
0OH0.  
      XS8pFiYiu2VimP5-iM4R1lpXVNTATm76AKCRC7aWUpKE0Ua-  
f7ERBkoKJpP55ISu2QwzqUjwzobJskGB  
      4ElAc-F_2OgkGeY5At-IDtj_-  
S4947gEdbZ5gCC1NzpQHW7iYvBRr_axVJs3sV5H_bpsbYbJsUIMqbk_  
      4-  
o19WYwUOVk_2myjwx3umygzGMKm6mj9ZhVWggBkvyY8k0o4OMcQKyNh_yoqg_tpf6qPUgNRicjt  
f0s  
      JQs-ITPRzv8V9mSfoV_v_C0LX6wEXFWPLYzawtIMYV0kMaa9FCEmrvkZNCXmR-  
gz07stNdL51b9U_Bvr  
      pWRoC0o9lBB3hVkhYwDbQ"  
}
```

Use the OAuth token, `userId` and `sourceCode` as headers in Oracle Banking Digital Experience setup, to access Oracle Banking Virtual Account Management Service APIs.