

Rest API Services User Guide
Oracle Banking Treasury Management
Release 14.4.0.2.0
[November] [2020]





Rest API Services User Guide
[November] [2020]
Version 14.4.0.2.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
<https://www.oracle.com/industries/financial-services/index.html>

Copyright © 2020, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are “commercial computer software” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.
The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.



Table of Contents

- 1. PREFACE 1-1
 - 1.1 INTRODUCTION 1-1
 - 1.2 AUDIENCE 1-1
 - 1.3 DOCUMENTATION ACCESSIBILITY 1-1
 - 1.4 ORGANIZATION 1-1
- 2. REST API SERVICES - OVERVIEW 2-1
 - 2.1 INTRODUCTION 2-1
 - 2.1.1 *Rest HTTP Headers* 2-2
 - 2.2 REST SERVICES CHANGES 2-2

1. Preface

1.1 Introduction

This User Guide is intended to familiarize you with the light-weight REST based services of Oracle Banking Treasury Management. The manual gives you an overview of the services developed, input/request parameters and the response of the each REST service.

1.2 Audience

The manual is intended for integrating external systems to Oracle Banking Treasury Management using RESTFUL framework.

1.3 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>.

1.4 Organization

The manual is organized into the following chapters

<u>Chapter</u>	<u>Description</u>
Chapter 1	<i>Preface</i> - Gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	<i>Rest API</i> - An Overview provides a snapshot of the features of the entire module.

2. Rest API Services - Overview

2.1 Introduction

Oracle Banking Treasury Management has adopted the industry standard of providing lightweight services through Representational State Transfer (popularly known as ReST) services. These lightweight services support the current trend of mobile/tablet based applications. These services help to improve the response time for tablet/mobile applications, as these applications are very chatty, involves numerous hits to the server and the expected response time is minimal for each of the requests.

The REST/Fine grain services using GET methods are listed below:

1. Derivatives
2. Exchange Traded Derivatives Portfolio Details
3. Foreign Exchange Details
4. Islamic Derivatives
5. Islamic Money Market Details
6. Money Market Details
7. OTC Options
8. Securities Market Details
9. Securities Portfolio Details
10. Securities Repo Details
11. Settlement Instructions

More information on the above listed services can be found in the respective sections of the User manual.

Each of the services listed above will be a URL. These URLs can be tested using any of the available browser plug-ins like Postman, RestEasy etc.. Also these services can be integrated with an API manager depending on its use. Below is the format of a Get account balance service example which will take the customer account number and branch code as the input

[http://\(IP\):\(Port\)/ForeignCurrencyExchangeRates/QueryFXCurrencyRate/brncd/{brncd}/ccy1/{ccy1}/ccy2/{ccy2}](http://(IP):(Port)/ForeignCurrencyExchangeRates/QueryFXCurrencyRate/brncd/{brncd}/ccy1/{ccy1}/ccy2/{ccy2})

The input for the GET services is passed as a part of the URL and if more than one input needs to be passed they should be separated by a forward slash (/). Apart from passing the customer number as a part of the URL, the services also expect a few header parameters to be passed to the service. The following are the header parameters passed:

1. `userId` : OBTR login user Id
2. `branch` : The bank branch to which the user belongs
3. `msgId` : A alphanumeric input from the consumer
4. `source` : Source of the request whether it is OBTR or an external system
5. `Content-Type`: This mentions the format of the input /output. Since we are using the JSON format we will give the content-type as application/json.

6. Entity : Entity ID

Userld, password and msgld are for authenticating the user accessing the service. More information on authentication can be found under Section 2.

The list of services will be discussed in detail in the following chapters.

2.1.1 **Rest HTTP Headers**

The following are the headers that are expected in all the requests that are sent to the Rest API application.

1. userld - Oracle Banking Treasury Management login user name.
2. password – Encrypted Oracle Banking Treasury Management login password.
3. msgld –This message id will be a unique id to identify the request.
4. branch – The branch code from where the request is sent.
5. source – The source code of the external system.

2.2 **Rest Services Changes**

Support for Rest Services are enhanced to all modules of Banking Treasury Management through ODT. In ODT the user can opt for selected Rest services, ODT shall generate rest artefacts for Function IDs opted which can be deployed into application.

Fine grained services are introduced as part of the new release which caters to niche requests

List of services enabled



Rest_services_v14.4.x
lsx

The document attached will have the services introduced newly along the existing services.

Rest Documentations



Rest Documentation.zip

Please refer the attachment panel for Rest_Services_v14.4.xlsx and Rest Documentaion.zip.