

Oracle® Banking Payments

India Unified Payment Interface (UPI) User Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Contents

1 Preface

1.1	Purpose	1-1
1.2	Audience	1-1
1.3	Documentation Accessibility	1-1
1.4	Critical Patches	1-2
1.5	Diversity and Inclusion	1-2
1.6	Conventions	1-2
1.7	Related Resources	1-2
1.8	Screenshot Disclaimer	1-2
1.9	Acronyms and Abbreviations	1-3
1.10	Basic Actions	1-3
1.11	Symbols, Definitions and Abbreviations	1-4

2 India Unified Payments Interface - UPI

2.1	Overview of UPI	2-1
2.1.1	Bank UPI Switch Financial APIs	2-1
2.1.2	Bank UPI Switch Non – Financial APIs	2-1
2.1.3	PSP UPI Switch Financial APIs	2-2
2.1.4	PSP UPI Switch Non – Financial APIs	2-2

1

Preface

- [Purpose](#)
- [Audience](#)
This manual is intended for the following User/User Roles:
- [Documentation Accessibility](#)
- [Critical Patches](#)
- [Diversity and Inclusion](#)
- [Conventions](#)
- [Related Resources](#)
- [Screenshot Disclaimer](#)
- [Acronyms and Abbreviations](#)
- [Basic Actions](#)
- [Symbols, Definitions and Abbreviations](#)
The following are some of the Symbols you are likely to find in the manual:

1.1 Purpose

This guide is designed to help acquaint you with the Oracle Banking Payments application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

1.2 Audience

This manual is intended for the following User/User Roles:

Table 1-1 User Roles

Role	Function
Implementation & IT Staff	Implementation & Maintenance of the Software

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>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1.4 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 make sure effective security, as strongly recommended by [Oracle Software Security Assurance](#).

1.5 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.

1.6 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.
<i>italic</i>	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.

1.7 Related Resources

For more information on any related features, refer to the following documents:

- *Getting Started User Guide*
- *Oracle Banking Security Management System User Guide*
- *Oracle Banking Microservices Platform Foundation User Guide*
- *Routing Hub Configuration User Guide*
- *Oracle Banking Common Core User Guide*
- *Interest and Charges User Guide*
- *Oracle Banking Liquidity Management Configuration Guide*
- *Oracle Banking Liquidity Management File Upload User Guide*

1.8 Screenshot Disclaimer

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

1.9 Acronyms and Abbreviations

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

Table 1-2 Acronyms and Abbreviations

Abbreviation	Description
DDA	Demand Deposit Accounts
ECA	External Credit Approval
EOD	End of Day
IBAN	International Bank Account Number

1.10 Basic Actions

The basic actions performed in the screens are as follows:

Table 1-3 Basic Actions

Actions	Description
New	Click New to add a new record. The system displays a new record to specify the required data. The fields marked with asterisk are mandatory. - This button is displayed only for the records that are already created.
Save	Click Save to save the details entered or selected in the screen.
Unlock	Click Unlock to update the details of an existing record. The system displays an existing record in editable mode. - This button is displayed only for the records that are already created.
Authorize	Click Authorize to authorize the record created. A maker of the screen is not allowed to authorize the same. Only a checker can authorize a record. - This button is displayed only for the already created records. For more information on the process, refer Authorization Process.
Approve	Click Approve to approve the initiated record. - This button is displayed once the user click Authorize .
Audit	Click Audit to view the maker details, checker details of the particular record. - This button is displayed only for the records that are already created.
Close	Click Close to close a record. This action is available only when a record is created.
Confirm	Click Confirm to confirm the action performed.
Cancel	Click Cancel to cancel the action performed.
Compare	Click Compare to view the comparison through the field values of old record and the current record. - This button is displayed in the widget once the user click Authorize .
View	Click View to view the details in a particular modification stage. - This button is displayed in the widget once the user click Authorize .

Table 1-3 (Cont.) Basic Actions

Actions	Description
View Difference only	Click View Difference only to view a comparison through the field element values of old record and the current record, which has undergone changes. - This button is displayed once the user click Compare .
Expand All	Click Expand All to expand and view all the details in the sections. - This button is displayed once the user click Compare .
Collapse All	Click Collapse All to hide the details in the sections. - This button is displayed once the user click Compare .
OK	Click OK to confirm the details in the screen.

1.11 Symbols, Definitions and Abbreviations

The following are some of the Symbols you are likely to find in the manual:

Table 1-4 Symbols

Icons	Function
	Exit
	Add row
	Delete row
	Option List

Table 1-5 Common Icons and its Definitions

Icon Names	Applicable Stages	Operation
Minimize	Initiation, Approval and Hand-off Retry	Users can minimize the transaction input screen. When the screen is minimized, it appears as to a separate tab within the same web page.
Maximize	Initiation, Approval and Hand-off Retry	User can maximize the transaction input screen.
Close	Initiation, Approval and Hand-off Retry	Users can close the transaction input screen. The system displays a warning message to the user that any unsaved data would be lost. User can either choose to ignore the message and close the screen or choose to 'save and close' the transaction.

2

India Unified Payments Interface - UPI

- [Overview of UPI](#)

2.1 Overview of UPI

- [Bank UPI Switch Financial APIs](#)
- [Bank UPI Switch Non – Financial APIs](#)
- [PSP UPI Switch Financial APIs](#)
- [PSP UPI Switch Non – Financial APIs](#)

2.1.1 Bank UPI Switch Financial APIs

Following are all supported APIs:

API	Description
ReqPay	NPCI sends this API to Remitter / Beneficiary bank to perform Debit / Credit transaction on the customer bank account for the UPI payment.
ReqBalEnq	NPCI sends this API to Bank for enquiring the account balance.
ReqChkTxn	NPCI sends this API to Bank for enquiring the transaction status.
ReqComplaint	NPCI sends this API to Bank for raising the complaint for a financial transaction.
ReqHbt	Both NPCI and Bank send this API to each other to check the connectivity.

2.1.2 Bank UPI Switch Non – Financial APIs

Following are all supported APIs:

API	Description
ReqListAccount	NPCI sends this API to Bank for retrieving the list of account numbers associated with the mobile number sent in the request
ReqOtp	NPCI sends this API to Bank for issuance of OTP (One Time Password) which would be sent to customer through SMS (Short Message Service).
ReqRegMob	NPCI sends this API to Bank to register the account number for the UPI services.
ReqSetCre	NPCI sends this API to Bank for maintenance of the UPI PIN.
ReqValAdd	NPCI sends this API to Bank for resolution of global address i.e., the combination of Account Number + IFSC code.
ReqMandate	NPCI sends this API to Remitter Bank for maintenance of the onetime / recurring mandate.
ReqMandateConfirmation	NPCI sends this API to Payee Bank for informing the mandate maintenance status.

API	Description
ReqValCust	NPCI sends this API to Remitter Bank to validate the PAN number maintained against the account.

2.1.3 PSP UPI Switch Financial APIs

Following are all supported APIs:

API	Description
ReqPay	This API is used to initiate a Pay/Collect transaction from the PSP UPI switch to the NPCI UPI switch. If the Payer PSP and Remitter Bank are the same entity, the request from the Payer PSP UPI switch to the NPCI UPI switch will be pre-approved, meaning the customer's account is debited before the request is sent to the NPCI UPI switch.
ReqBalEnq	PSP UPI switch sends this request to NPCI for enquiring the account balance.
ReqHbt	This API is a mechanism for monitoring the UPI system, including tracking connections with PSPs and sending End-of-Day (EOD) reports to PSPs).
ReqChkTxn	PSP UPI switch sends this API to NPCI for enquiring the transaction status
ReqTxnConfirmation	NPCI sends this API to the Payee PSP for Pay transaction / Payer PSP for collect transaction to update the transaction status.
ReqAuthDetails	The API is used to authorize a payment and convert PSP-specific payment addresses into common global addresses (such as Aadhaar number, mobile number, or account and provider ID) that NPCI can recognize. This API is called to translate the PSP address and obtain the necessary authorization details.
ReqComplaint	PSP UPI switch sends this API to NPCI for raising a complaint against a financial transaction.

2.1.4 PSP UPI Switch Non – Financial APIs

Following are all supported APIs:

API	Description
ReqListAccount	PSP UPI switch sends this request to NPCI for retrieving the list of account number associated against a mobile number.
ReqOtp	PSP UPI switch sends this API to NPCI for issuance of OTP (One Time Password) which would be sent to customer through SMS (Short Message Service).
ReqRegMob	PSP UPI switch sends this API to NPCI to register the account number for the UPI services.
ReqListPsp	NPCI maintains a list of all registered PSPs and their details. PSPs use this API to retrieve the list for local caching. Use this data to validate the payment address before initiating a transaction.

API	Description
ReqListAccPvd	NPCI maintains a list of all account providers connected through the Unified Interface. This list is made available to the PSP UPI switch and should be provided to the PSP app to verify registered account providers before registering a customer account. PSP UPI switch sends this API to NPCI for retrieving the list of account providers.
ReqListKeys	PSP UPI switch sends this API to NPCI for retrieving the list of public keys for account providers and other entities in the UPI ecosystem.
ReqManageVae	NPCI provides a mechanism to protect customers from spoofing attempts involving well-known merchants such as LIC, Indian Railways, e-commerce platforms, telecom providers, and bill payment entities. This mechanism is implemented through an API that enables PSPs to manage and access a shared collection of verified address entries. NPCI, in collaboration with PSPs, defines the process for managing these entries.
ReqValCust	This API is used to validate unique identifier [PAN] of customer maintained at the customer bank.
ReqAuthValCust	The NPCI UPI switch triggers this API to the payer PSP UPI switch when VPA address translation is required.
ReqValAdd	This API is used by PSPs when their customers want to add a beneficiary within the PSP application for sending and receiving money.
ReqListVae	PSP UPI switch sends this API to NPCI for retrieving the list of verified address entities.
ReqMandate	This API allows the corporate/customer to create a mandate request via UPI.
ReqAuthMandate	This API is used to authorize a payment and translate PSP-specific payment addresses into common global addresses (such as Aadhaar number, mobile number, or account number with IFSC) that NPCI can understand. This API translates the PSP address and provides the necessary authorization details.
ReqMandateConfirmation	NPCI sends this API to PSP UPI switch informing the status of mandate maintenance.