

**Product Release Notes**  
**Oracle Banking Cash Management**

**Release 14.5.5.0.0**

**Part No. F58735-01**

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Oracle Banking Cash Management  
Product Release Note  
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# 1. Release Notes Overview

## 1.1 Background / Environment

Oracle Financial Services Software Limited has developed Oracle Banking Cash Management (OBCM) solution that enables a financial institution to manage the account receivables and account payables of their corporate customers. OBCM provides a technology platform capable of capturing account receivables and account payables of corporates across disparate accounts and locations. This in turn enables better management of working capital for the corporate.

## 1.2 Purpose

The purpose of this document is to highlight the functionality included in the Oracle Banking Cash Management 14.5.5.0.0 release.

## 1.3 Abbreviations

Abbreviation	Detailed Description
OBCM	Oracle Banking Cash Management
PO	Purchase Order
UI	User Interface

## 1.4 Product Summary

Oracle Banking Cash Management Release 14.5.5.0.0 is built to meet various challenges faced by financial institutions. It addresses each of the cash management processes from design through execution. Its unique value lies in its ability to provide the business with predefined processes and a world-class framework that takes care of business risk and compliance needs.

## 1.5 Release Highlights

The key highlight of the Oracle Banking Cash Management 14.5.5.0.0 release is to incorporate new functionality and enhancements required to provide cutting-edge technology to the cash management industry.

### Functional:

- Alert related enhancements:
  - New screen (Alert Contact Details) introduced to capture contact details of the party.
  - Alert Decisioning screen: Dynamic filter criteria based on selected category, pre-configured text template can be modified and contact details are fetched from the 'Alert Contact Details' screen.

## OBCM 14.5.5.0.0 | Release Notes Overview

- Instrument Collection:
  - Expected Clearing Date: Cheques sent for clearing are automatically realized at EOD on the expected clearing date.
- Cash Withdrawal/Deposit:
  - Updated maker workflow for reworking on the cash deposit entry records.
- Manual Allocation/De-allocation:
  - De-allocation action is provided in the 'Manual Allocation' screen.
- Cashflow Forecasting:
  - List of predictive transactions is created by the system for Unreconciled/Part Reconciled transactions.
- Maintenance Enhancements:
  - Location Cluster: The 'Clearing Days' field is added to auto-liquidate the local product cheque deposited at the branch that is linked to the cluster.
- In the 'Free Task' menu of the 'Collections', new column has been added as 'Operation' to display the operation under which the transaction is processing.
- Inquiries:
  - Charges inquiry provided for collections module.
  - New fields are added in the 'Reconciliation Amount' hyperlink details. It shows details sorted by latest reconciled records.
  - Payment Inquiry: The 'Payment Inquiry' screen has been enhanced to display the rule with which the auto-recon is processed.
  - Instrument Inquiry: Two new instrument statuses added as 'Sent for Clearing' and 'Awaiting Realization'.

### Non-Functional:

- Arrangement Decisioning search enhanced with search field for Corporate and Correspondent Bank.
- RSO V2 Adoption

### Integration:

- API Enhancements:
  - Fetching list of denominations based on selected branch sorted by currency, denomination type, and denomination value.

---

## 2. Release Enhancements

### 2.1 Functional Features

#### 2.1.1 Alert Enhancements

##### 2.1.1.1 Alert Contact Details

As part of this release, new screen has been developed to capture 'Alert Contact Details' specifically to maintain the contact details of the party to be used for sending alerts as and when required.

- Contact details such as Telephone Number and Email ID can be maintained per alert code for a selected party.
- Contact details maintained on this screen overrides the one maintained on the Alert Decisioning screen.

##### 2.1.1.2 Alert Decisioning

As a part of this release, the Alert Decisioning UI is enhanced as given below:

- Category is the first field in the screen.
- Based on selected category and application code, the 'Filter Criteria' is defined.
- Pre-configured text template can be updated by adding/removing placeholders.
- The email IDs are picked from the newly developed screen 'Alert Contact Details'

#### 2.1.2 Instrument Collections

##### 2.1.2.1 Expected Clearing Date

As a part of this release, for the products other than LCIN product, cheques which were sent for clearing are automatically realized at EOD on the expected clearing date. The 'Expected Clearing Date' field is added in the OBCM system. Additionally, system parameter is also defined to derive the expected clearing date on authorization of the instrument collection entry for a LCIN product. Below are enhancements to cater the new functionality:

- Expected clearing date field added in Instrument Collection APIs and instrument transaction table.
- Expected Clearing Day: Instrument collection authorization date + clearing days
- Expected Clearing Date field in the grid picklist of the Instrument Inquiry screen.

#### 2.1.3 Cash Withdrawal/Deposit

##### 2.1.3.1 Cash Deposit Entry: UI Enhancement

- The 'Create/Existing' switch in the 'Collections > Cash Transaction > Deposit Entry' is renamed as 'Create/Draft'.

- The maximum length of the 'Contact Number' in the 'Basic Info' tab has been increased to 15 digits.

### **2.1.3.2 Cash Deposit Entry: Free Task (Maker - Rework)**

As a part of this release, below is the updated maker workflow for reworking on the cash deposit entry records:

- On rejection from authorizer, the record reflects in the free task with the change in stage as 'Processing' from previous stage as 'Authorization'.
- Maker can edit and acquire the batch from the 'Free Task' to 'My Task'. User can edit all the details, remove, or delete the deposit slip number from the reference number. The validation are same as a maker screen.
- Clicking on 'Submit', the batch again reflects in the free task in 'Authorization' stage, pending for Checker Authorization.
- In case the maker rejects the task, it reflects in the 'Completed Tasks' and will not move again for authorization.

## **2.1.4 Manual Allocation/De-Allocation**

### **2.1.4.1 De-allocation**

De-allocation is required when an incorrect allocation for transaction is to be reversed. As a part of this release, the 'Manual Allocation' screen is enhanced with the option to select an action for de-allocation. This is applicable to the records from both the Manual Recon and Manual Allocation screens.

## **2.1.5 Cashflow Forecasting**

### **2.1.5.1 Predictive Cashflow Forecasting**

As a part of this release, list of predictive transactions is created by the system for Unreconciled/Part Reconciled transactions. This list is created based on the values received from the Machine Learning (ML) models. Whenever the actual cashflow transaction receives a modification or update such as payment received or change in expected date of payment etcetera, fresh set of predictions are created in the OBCM system.

## **2.1.6 Maintenance Enhancements**

### **2.1.6.1 Location Cluster: Clearing Days**

As a part of this release, the 'Clearing Days' field is added in the 'Location Cluster' screen to auto-liquidate the local product cheque deposited at the branch that is linked to the cluster and update the status as 'Realized'. Below enhancements are made to the 'Location Cluster' screen:

- The 'Clearing Days' field: This field represents the number of days in which the instrument will get cleared for the specific location cluster.
- The 'View Location Cluster' screen is also updated accordingly.

## **2.1.7 Operations column in Free Task**

In the 'Free Task' menu of the 'Collections', new column has been added as 'Operation' to display the operation under which the transaction is processing. For example, cash deposit, mark instrument status, mark return receipt and so on.

## **2.1.8 Inquiries**

### **2.1.8.1 Charge Inquiry**

As a part of this release, the 'Collections' module of the OBCM has been enhanced with 'Charges Inquiry'. This inquiry screen can be used to inquire about the various charges applied to a customer over the course of a transaction for cheque/cash deposit/withdrawal.

### **2.1.8.2 Cash Flow Inquiry: UI Enhancement**

As a part of this release, new fields are added in the 'Reconciliation Amount' hyperlink details. It shows details sorted by latest reconciled records.

### **2.1.8.3 Payment Inquiry**

As a part of this release, the 'Payment Inquiry' screen has been enhanced to display the rule with which the auto-recon is processed. Below fields are added in the Payment Inquiry screen to cater the functionality:

- Manual recon or Auto Recon
- Which rule is used for Recon

### **2.1.8.4 Instrument Inquiry**

As a part of this release, the 'Instrument Inquiry' is enhanced with below changes:

- Two new instrument statuses are added as 'Sent for Clearing' and 'Awaiting Realization'.

## **2.2 Non-Functional Features**

### **2.2.1 Arrangement Decisioning Search**

As a part of this release, the 'View Arrangement Decisioning' screen is enhanced to search records by below parameters:

- Corporate
- Correspondent Bank

### **2.2.2 RSO V2 Adoption**

All maintenance screens of OBCM are re-designed using new framework RSO V2.

- The new framework handles resource life cycle operations through data segments.



- One or more data segments have been defined as a resource wherever applicable and the framework is able to handle operations at a resource level rather than a data segment level.
- Data segments can support partial data saving.
- Resource extensions can be done by adding additional attribute of the resource either at a data segment level or by adding an additional data segment itself for the resource.

## **2.3 Integration**

### **2.3.1 API Enhancements**

#### **2.3.1.1 API for Cash Deposit**

- Denominations – Get list of denominations based on selected branch sorted by currency, denomination type, and denomination value.

## **2.4 Platform Changes**

- NA

### 3. Deprecated Functionality

Below list describes the fields/functionality/screens/features that are discontinued with the OBCM release 14.5.5.0.0.

- The 'External Account' is removed from the list of values for pooling account number in the 'Corporate Enrichment Pooling Details'.
- The 'Indicator' field is deprecated from the 'Payment File'.
- In the 'Cash Withdrawal' screen, for the 'Debit Account Number' field, Account Type (Real/Virtual) field has been deprecated.

## 4. Patches and Bugs

Bug Id	Bug Description	Fix Description

## 5. Security Fixes

NA

## 6. Limitations and Open issues

This chapter covers the known limitations and open issues of the OBCM.

Bug Id	Bug Description
34282215	IPR – issue: When multiple payments on multiple invoices are mapped to same finance and when multiple/bulk payment is uploaded in system for reconciliation, few finances remain unsettled.

## 7. Components of the Software

### 7.1 Documents accompanying the software

The various documents accompanying the software are as follows:

- Release Notes
- User Manuals and Installation manuals

### 7.2 Software Components

Software Components of OBCM 14.5.5.0.0 that form part of this release are as follows:

- Core
  - UI Components (Knockout, OJET, Lux)
  - The Swagger / YAML for the services supported
  - Configuration files for the services
  - Service Components
  - Tables, Sequences, Static Data
- Installation utilities
  - Installation documents for Database, UI, Web services

## 8. Annexure – A: Environment Details

Oracle Banking Cash Management			
Application Server	Oracle Enterprise Linux Server Release 8.3 (x86 64 Bit)	Java HotSpot (TM) JDK (with WebLogic Application Server)	Oracle JDK 8 Update 321 & JDK 11.0.14
		Oracle WebLogic Server	14.1.1.0.0 <b>**Patch 32077936</b>
Database Server	Oracle Enterprise Linux Server 8.3 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.14.0.0.0 (19c)
Client Machines#		Mozilla Firefox	87+
		Google Chrome	88+
		Microsoft Edge	89+
		Apple Safari	14+
Message Broker	Apache Kafka	ALL	2.13-2.8.1
	Apache Zookeeper	ALL	3.6.2
<b>Note:</b> <ul style="list-style-type: none"> <li>**Patch 32077936: JSF APPLICATION RESPONSE ISSUE FOR HTTPS PROTOCOL WHEN HTTP2 IS ENABLED.</li> <li>Browser Support is strictly tied to the Browser itself, and no longer based on the Operating System. Current release is certified on client workstations with Windows 10 and Mac.</li> </ul>			

## 9. Annexure – B: Third Party Software Details

Sr No	Copyright Holder	Licensed Item ID	Licensed Item Name	Licensed Item Version	BA ID
1	QOS.ch	59317	jul-to-slf4j	1.7.30	109608
2	Marco Ziccardi	35513	Node-TimSort	0.3.0	109785
3	Steven Sanderson	51996	Knockout.js	3.5.0	109793
4	Olli-Pekka Heinisuo	61297	opencv-python	4.3.0.36	84688
5	The Apache Software Foundation	61806	OpenNLP-tools	1.9.3	85908
6	Boxfuse GmbH	61597	flyway-core	6.5.5	86517
7	FasterXML, LLC	61527	jackson-jaxrs-json-provider	2.11.2	86519
8	Eclipse Foundation	59202	EclipseLink	2.7.7	86580
9	jsonwebtoken.io	60118	jjwt	0.11.2	86581
10	SmartBear Software	60156	swagger-annotations	1.6.2	86668
11	Jonathan Halterman	59507	modelmapper	2.3.8	86669
12	Zaxxer.com	59481	HikariCP	3.4.5	86719
13	Pivotal Software, Inc	61593	spring-cloud-stream-binder-kafka	3.0.8.RELEASE	86720
14	JSON.org	60616	JSON	20200518	86802
15	Pivotal, Inc.	61216	Spring Boot	2.3.3.RELEASE	86910
16	Pivotal Software, Inc	61592	spring-cloud-stream	3.0.8.RELEASE	86999
17	QOS.ch	61711	log4j-over-slf4j	1.7.30	87045
18	Apache Software Foundation	59221	Apache FOP	2.5	87059
19	Pivotal Software, Inc	62387	Spring Cloud Sleuth	2.2.5.RELEASE	87147
20	The Apache Software Foundation	62389	ZooKeeper	3.6.2	87164
21	Kalle Stenflo	59742	JsonPath	2.4.0-1ed1ea0	87401
22	JS Foundation and other contributors	58838	jQuery	3.5.1	87532
23	SmartBear Software	62548	swagger-parser	2.0.22	87550



Sr No	Copyright Holder	Licensed Item ID	Licensed Item Name	Licensed Item Version	BA ID
24	The Apache Software Foundation	62632	camel-core	3.5.0	87752
25	Alec Koumjian	62697	datefinder	0.7.1	87889
26	Pivotal Software, Inc	62702	spring-cloud-config-client	2.2.5.RELEASE	87897
27	Pivotal Software, Inc	62705	spring-cloud-config-server	2.2.5.RELEASE	87899
28	Pivotal Software, Inc	62706	spring-cloud-starter-config	2.2.5.RELEASE	87900
29	Pivotal Software	62708	spring-cloud-netflix-core	2.2.5.RELEASE	87901
30	The Apache Software Foundation	62730	spring-cloud-starter-netflix-zuul	2.2.5.RELEASE	87944
31	The Apache Software Foundation	62732	spring-cloud-netflix-eureka-client	2.2.5.RELEASE	87947
32	The Apache Software Foundation	62727	spring-cloud-starter-netflix-eureka-client	2.2.5.RELEASE	87948
33	NumPy Developers	78285	Numpy	1.22.2	119534
34	Alex Clark and contributors	78379	Pillow	9.0.1	119300
35	Jason R. Coombs, Barry Warsaw	80097	importlib-metadata	4.11.2	119622
36	The Apache Software Foundation	62793	camel-cxf	3.5.0	88107
37	The Apache Software Foundation	62794	camel-resilience4j	3.5.0	88108
38	The Apache Software Foundation	62141	Commons IO	2.8.0	88241
39	The Apache Software Foundation	62725	spring-cloud-starter-netflix-eureka-server	2.2.5.RELEASE	88488
40	The Apache Software Foundation	62973	spring-cloud-netflix-eureka-server	2.2.5.RELEASE	88509
41	Project Lombok	62966	Lombok	1.18.16	90843
42	SmartBear Software	64411	swagger-ui	3.39.0	91487
43	MapStruct Authors	67120	mapstruct	1.4.2.Final	95329
44	Google	64214	Tesseract	4.1.1	95479

Sr No	Copyright Holder	Licensed Item ID	Licensed Item Name	Licensed Item Version	BA ID
45	Vladimir Goncharov	67226	pyap	0.3.1	95480
46	Oracle	61232	JavaScript Extension Toolkit (JET)	9.1.0	96367
47	VMware	67360	micrometer-registry-prometheus	1.6.4	96451
48	OpenJS Foundation	67576	lodash	4.17.21	104985
49	Jason R. Coombs	79451	configparser	5.2.0	118362
50	The Apache Software Foundation	71860	PDFBox	2.0.24	103589
51	The Apache Software Foundation	62385	HttpComponents HttpClient	4.5.13	109610
52	Saxonica Limited	73656	Saxon-HE	10.5	106703
53	The Apache Software Foundation	53857	cglib	3.3.0	109776
54	josdejong	51995	math.js	5.9.0	109790
55	The Apache Software Foundation	49220	Commons FileUpload	1.4	109779
56	FasterXML, LLC	77722	jackson-dataformat-xml	2.13.1	115440
57	Chef	74474	Oracle Replacement Configurator (ORC)	16.13.16	117501
58	Schibsted Marketplaces Products & Technology As	80021	jslt	0.1.11	119440
59	Adam Hupp	80062	python-magic	0.4.25	119530
60	Python Software Foundation	74350	python-dateutil	2.8.2	119525
61	QR Capital Management, LLC, Lambda Foundry, Inc. and PyData Development Team	78736	Pandas	1.4.1	119623
62	Scrapinghub	80095	dateparser	1.1.0	119619
63	scikit-learn developers	78074	scikit-learn	1.0.2	119624
64	Edouard Belval	79856	pdf2image	1.16.0	119301
65	Pivotal Software	80416	spring-batch-integration	4.3.5	120055

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66	The Netty Project	77435	netty-transport-native-epoll	4.1.72.Final	115262
67	The Netty Project	77098	netty-codec-http	4.1.72.Final	116376
68	QOS.ch	79864	jcl-over-slf4j	1.7.36	119133
69	Matthias Lee	79679	pytesseract	0.3.9	118752
70	The Apache Software Foundation	77256	Avro for Java	1.11.0	118741
71	Pivotal, Inc.	72374	spring-security-oauth2	2.5.1	115904
72	Apache Software Foundation	79866	tika-core	1.28.1	119136
73	Benjamin Peterson	71336	six	1.16.0	119532
74	The Pallets Team	79419	Flask	2.0.3	118360
75	Pivotal Software, Inc	74057	spring-security-saml2-service-provider	5.5.1	107584
76	Netflix	80005	Conductor	3.5.2	119416
77	Apache 2.0	78091	shedlock-provider-jdbc-template	4.30.0	116182
78	Google	63149	Guava	30	109707
79	The Apache Software Foundation	78505	Commons CSV	1.9.0	119498
80	Stuart Knightley et. al	51994	JSZip	3.2.1	109787
81	The Apache Software Foundation	71044	velocity-engine-core	2.3	114542
82	jsoup.org	75717	jsoup	1.14.3	114382
83	Python Software Foundation	71112	Python	3.9.5	117355
84	Joe Walnes	73846	XStream	1.4.18	115267
85	Matthieu Darbois	79452	pybase64	1.2.1	118363
86	The Apache Software Foundation	77328	velocity-tools-generic	3.1	114544
87	Michael Mclaughlin	78430	bignumber.js	9.0.2	116696
88	Tim Wood, Iskren Chernev, Moment.js contributors	80691	Moment.js	2.29.2	120937
89	Pivotal, Inc.	72546	spring-security-config	5.5.1	120780
90	Google	79781	GSON	2.9.0	119139

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91	Zalando SE	79675	connexion	2.12.0	118749
92	Apache 2.0	78089	shedlock-spring	4.30.0	116185
93	Eclipse Foundation	58484	Eclipse Yasson	1.0.6	109709
94	The Apache Software Foundation	78236	POI	5.2.0	118139
95	The Apache Software Foundation	75480	Kafka	2.8.1	119497
96	Pivotal, Inc.	72544	spring-security-core	5.5.1	120783
97	The Apache Software Foundation	76333	Ant	1.10.12	116261
98	Pivotal, Inc.	72547	spring-security-web	5.5.1	120781
99	Eclipse Foundation	72504	Jakarta Mail	2.0.1	117187
100	The Apache Software Foundation	77662	XMLBeans	5.0.3	121106
101	The Apache Software Foundation	77682	ant-launcher	1.10.12	121181
102	Pivotal Software, Inc	80167	spring-security-ldap	5.5.1	120513
103	Pivotal Software, Inc	80168	spring-security-crypto	5.5.1	119717
104	FasterXML, LLC	77718	jackson-dataformat-cbor	2.13.1	115437
105	Quan Nguyen	68626	tess4j	4.5.4	98076