Oracle Hospitality Payment Interface OPERA V5 OPI Installation and Reference Guide



Release 20.4 F95681-01 June 2024



Oracle Hospitality Payment Interface OPERA V5 OPI Installation and Reference Guide Release 20.4

F95681-01

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# Preface

#### Purpose

This document describes how to configure the Oracle Payment Interface On Premise Token Exchange Service.

#### Audience

This document covers the installation of OPI, as well as the OPERA and IFC8 Configuration needed to support OPI.

#### **Customer Support**

To contact Oracle Customer Support, access the Customer Support Portal at the following URL:

#### https://iccp.custhelp.com

When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

#### Documentation

Oracle Hospitality product documentation is available on the Oracle Help Center at

http://docs.oracle.com/en/industries/hospitality/

#### **Table 1 Revision History**

Date	Description
June 2024	Initial publication.

# 1 Pre-Installation Steps

#### IF UPGRADING OPI, YOU MUST READ THE UPGRADING THE OPI SECTION FIRST.

- Minimum OPERA Property Management Systems (for V5 Hosted) releases you can integrate with OPI:
  - OPERA V5 Hosted 5.5.0.25.8 or higher
  - OPERA V5.6.6 or higher
  - OPERA V5 On Premise 5.5.0.24.4 or higher
- OPI 20.4 does not install a database. If you are doing a clean install of OPI, a database must be installed first.
- OPI upgrade functionality supports:
  - Upgrading OPI 19.1 (include patch releases) to OPI 20.4
  - Upgrading OPI 20.1 (include patch releases) to OPI 20.4
  - Upgrading OPI 20.2 (include patch releases) to OPI 20.4
  - Upgrading OPI 20.3 (include patch releases) to OPI 20.4
- OPI requires 64bit Operating System only.
- OPI requires at least 6 GB of free disk space and you must install OPI as a System Administrator.
- The Oracle Payment Interface Installer release 20.4 supports the following database connections:
  - MySQL Database 5.7 / 8.0
  - Oracle Database 11g / 12c / 19c

## **NOTE**:

Stay current by upgrading your Java version as Oracle CPUs/Alerts are announced.

- The Oracle Payment Interface release 20.4 is compatible with the following operating systems:
  - Microsoft Windows 10 Professional
  - Microsoft Windows 10 Enterprise
  - Microsoft Windows 11 Professional
  - Microsoft Windows 11 Enterprise
  - Microsoft Windows Server 2012 R2
  - Microsoft Windows Server 2016



- Microsoft Windows Server 2019
- Microsoft Windows Server 2022

During the installation you must confirm the following:

- Merchant IDs
- IP address of the OPI Server
- The machine running the OPI Service must have a static IP Address
- The machine name running the OPI Service and IFC8 must not contain any special characters
- If there is an existing MySQL database installed, then the SQL root password is required.
- If there is an existing database installed, the root password is required.
- Workstation IDs and IPs that integrate with the PIN pad.

# 2 Installing the OPI

- 1. Right-click OraclePaymentInterfaceInstaller\_20.4.0.0.exe file and select Run as Administrator to perform an installation.
- 2. Select your language from the drop-down list, and click **OK**.
- 3. Click Next twice.
- 4. Ensure all the prerequisites for the OPI installation are met.

Oracle Payment I	nterface - InstallShield Wizard 🛛 🗙
<b>Setup Type</b> Select the set	up type to install.
Please select -	a setup type.
⊙ Complete	All program features will be installed. (Requires the most disk space.)
⊖ Custom	Select which program features you want installed. Recommended for advanced users.
InstallShield	< Back Next > Cancel

- 5. Select either the **Complete** or **Custom** installation option:
  - a. Complete: All program features will be installed.
  - **b. Custom**: Select which program features you want to install. Recommended for advanced users only.
- 6. Make a selection (only for Custom install), and click **Next**. If you select Complete Install, it will go to the Step 8 directly.

Oracle Payment Interface - InstallShield Wizard	×
Select Features Select the features setup will install.	
Select the features you want to install, and desele	ect the features you do not want to install.  Description Sets up the Database components for the defined schema.
134.12 MB of space required on the C drive 24591.54 MB of space available on the C drive InstallShield	< Back Next > Cancel

If you selected the Custom install option, the Select Features screen appears with the following options:

- a. Database Schema
- b. OPI Services
- c. Configuration Tool

All these three features must be installed. Ensure whether they all are installed on the same computer or on separate computers.

- 7. Select the features to install on this computer, and click Next.
- 8. Click **Change** to amend the installation drive or path, if required and click **Next**.
- 9. Click Install to begin installation.

When the file transfer is finished, Setup prompts for the next set of configuration settings.

Oracle Payment Interface - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	Z
Click Install to begin the installation.	
If you want to review or change any of your installation se exit the wizard.	ettings, click Back. Click Cancel to
nstallShield	
< Back	Install Cancel

- **10.** Select your Database type:
- My SQL
- Oracle DB

Oracle Payment Interface - InstallShield Wizard		×
Setup Type Select the setup type that best suits your need:	s.	Z
Select Database being used.		
○ MySQL ④ Oracle DB	Options: SID Service Name	
InstallShield	< Back Next >	Cancel

**11.** Enter the relevant connection details for your database type. Details are provided by the individual who installed or configured the database software.

## NOTE:

OPI does not install any database, so the database must already be installed.

#### MySQL

- Name/IP: The Hostname or IP Address used for communication to the database. If you are using MySQL, then this can be left as localhost as the default value. If you cannot use localhost for the Name/IP field (because you have installed the database schema on another computer), then you should run some commands manually on the MySQL database before proceeding. See the **Granting Permission in MySQL** section in the OPI Installation and Reference guide for instructions. Setup will not be complete if this step is missed.
- Port #: The Port number used for communication to the database.

#### Oracle DB

#### SID

- Name/IP: The Hostname or IP Address used for communication to the database.
- **Port #**: The Port number used for communication to the database.
- **SID**: The unique name that uniquely identifies the Oracle database.

#### Service Name

- Name/IP: The Hostname or IP Address used for communication to the database.
- **Port #**: The Port number used for communication to the database.
- Service: The TNS alias used to connect to the Oracle database.
- 12. Confirm the database admin user used to connect to the database. The database admin user is used to create an OPI database user, which is used once the installation completes.
- **13.** Enter the username and password to create a new database user account. If the username already exists in the database, you are prompted to select a different username.
  - a. When creating the username for the database, the installer allows only alphanumeric characters and should start only with an alphabetic character, NOT a number.
  - b. Enter a password according to the requirements specified.

The installer attempts to connect to the database using the admin credentials provided and creates the OPI database user.

- 14. Enter the username and password to create a Super User System Admin level account that is used for configuring and maintaining the system.
- 15. Enter the Host and Port.

# NOTE: In the previous step you are not configuring the port the service will listen on. Instead, it is prompting for the details on how to connect. The IP will depend on where the OPI Config Service is installed. If you are performing a complete installation, this can be left as the localhost address. The default port is 8090.

16. Set and confirm the passphrase value.

If the details entered for the connection to the **OPI Config Service** are correct, then the OPI installer launches the configuration wizard.

📹 Oracle Payment Interface - Configuration Wizard	_		×
Oracle Payment Interface – Configuration Wizard			
Please select the OPI instance mode:			
OPERA/Suite8			
Cruise			
HOSPITALITY	Next	Clos	se

17. Select the OPI instance mode for Property Management System (PMS) merchants as **OPERA/Suite8**.

On the **OPI Interface** screen, the configuration screens displayed are same when the configuration wizard is launched manually. (:\**OraclePaymentInterface\v20.4\Config\LaunchWizard.bat**)

**18. OPERA Token Exchange**: This option is enabled by default for all OPERA token exchange services.

#### **OPI to PSP Communication Configuration**

• From the **OPI Mode** drop-down list, select the **Terminal** for the PED direct connection or select **Middleware** for middleware connection.

<b>NOTE</b> :								
For Te be use fail in (	erminal N ed in the OPI.	lode setup, spec CHAINCODE or	cial characters ind PROPERTYCO	cluding "_' DE. This v	' ," " will c	, ano aus	່ງ "=' e th	' cannot e EOD to
📹 Oracle Payment Interfac	e - Configuratio	n Wizard			_		×	
Orac	tle Paymei	nt Interface – Config	guration Wizard					
OPI Interfaces								
OPERA Token Excha	nge	ON						
OPI to PSP Commu	inication Config	juration:						
OPI Mode:		Terminal 👻	Enable Mutual Authe	entication				
Terminal Port Numb	er:	443	Enforce HTTPS					
OPI Token Server C	Certificate							
		Certificate	Certificate Exists?					
	OPI Token Ser	/er Certificate						
				Next		Close		

📹 Oracle Payment Interfac	e - Configuration Wizard		– 🗆 X
Orac	cle Payment Interface – Config	guration Wizard	
OPI Interfaces			
OPERA Token Excha	nge ON		
OPI to PSP Commu	inication Configuration:		
OPI Mode:	Middleware 👻	Enable Mutual Authe	entication
Primary Host:	https://pspshost:443	Proxy Host:	Enter HTTP Proxy Host
Failover Host:	https://pspsfailoverhost:4	Proxy Port:	Enter HTTP Proxy Port
OPI Token Server O	Certificate		
	Certificate	Certificate Exists?	
	OPI Token Server Certificate		▶
ORACLE			Next Close
HOSPITALITY			

- Enable Mutual Authentication: Enable this option only if the PSP requests two way authentication for financial transactions and has provided the certificates and passwords for it.
- Enter the third-party payment service provider middleware Host address if
   Middleware mode is selected. If the Terminal mode is selected, OPI configuration will populate another window in further steps to input Workstation ID and IP address.

19. Click the Add ( ) icon to add a new merchant configuration for OPERA.

📹 Oracle Payment Interface - Config	uration Wizard		_	
Oracle Pay	ment Interface – Co	nfiguration Wizard		
PMS Merchants				
Chain Carda	Dana anto Carda	News		+
Chain Code	Property Code	Name		
	No cor	ntent in table		
ORACLE			Main	Close
HOSPITALITY			man	0.036

20. To configure the OPERA merchant, enter the following information:

a. The **OPERA Vault Chain Code** and **Property Code**; will form the **SiteId** value in the Token request messages.

**Chain Code** and **Property Code** values need to be in upper case.

- b. Select Generate Key. Use to generate an IFC8 Communication key. The generated key will have the prefix FidCrypt0S| that is automatically added. Use this generated key when configuring the key in IFC8 software.
- c. Enter the IFC8 IP address and port number for the Hotel Property Interface (IFC8) server.
- d. Enter the Merchant Name, City, State/Province and Country/Region information.
- e. **Currency**: The currency selection by the merchant in which the transactions are to be processed. Merchants can override selected transaction currency irrespective of country/region selection. For example: If a merchant's selects country as 'United States of America', then they can select the currency from the list of all available currencies (AUD, AED, AFN and so on) and this currency is used for transaction currency. **Reset**: To reset the currency back to use country/region currency.
- f. Select the option **Only Do Refund** if you want to disable differentiating between void and refund from OPERA.

g. Click Next.

Although the other populated settings are not directly related to the Token Exchange Service configuration, Token Exchange is not possible if the IFC8 interface is not running, as OPI cannot progress past the IFC8 startup if the IFC8 connection is not possible.

🕤 Oracle Payment Interfa	ce - Configuration Wizard			-	
Ora	cle Payment Inter	face – Configura	ition Wizard		
PMS Merchant					
Chain Code:	FSDH				
Property Code:	HOTEL1	IFC8 Key:			Generate
Name:		IFC8 Host IP:			
City:	Houstan	IFC8 Host Port:	7009		
State/Province:	Texas		Only Do Refund		
Country/Region:	United States of America	•			
Currency:	AUD - Australian 👻	Reset			
				Next	Cancel

21. Enter the OPERA payment code for each card type, and click Next.

🕤 Oracle Payment Interface -	Configuration Wizard		- [	×
Oracl	e Payment Interfac	ce – Configuration Wizard		
Merchant Payment T	ype Configuration			
		Payment Types:		
Chain Code:	FSDH	Card Type	Payment Code	
Property Code:	HOTEL1	Gift Card	GC	^
	HOTEL	GiroCard	BC	
		JCB	JC	
		Maestro	ME	
		MasterCard	MC	U
		MasterCard Debit	MD	
		MIR	MI	
		Paypal	PC	
		Reserve-01	ZZ	
		Hint: Double slick to adit a call and then		$\sim$
		your change or, Escape to cancel it	press criter to submit	
HOSPITALITY		Back	Next	Cancel

Below is terminal mapping if you select Terminal mode.

Gracle Payment Interface - Configuration Wizard	-	- 🗆 X
Oracle Payment Interface - Confi	guration Wizard	
Merchant Terminal Configuration		
		+
Workstation ID	Terminal IP/Host Name	
		-
Unt Devide alleb to alleb and their more Feterite submitteens de		
HINT: DOUDIE-CIICK to eait a cell and then press Enter to submit your chan	ge of, Escape to cancer it	
ORACLE'	Back Next	Cancel
HOSPITALITY		

22. The next configuration relates to communication from OPI to the PSP host for Token Exchange, enter the PSP host name with port in the URL, and click **Next**.

🕤 Oracle Payment Interface - Configu	uration Wizard		_		×
Oracle Pay	ment Interface – Config	guration Wizard			
Payment Service Provider Co	nfiguration for Token Exchange				
Host URL:					
Failover URL:	https://pspfailoverhost.co				
Communication Timeout:	60				
Connect Timeout:	10				
		Back	Next	Cance	ł

23. Click **Finish** to restart.

# **Token Exchange Settings**

The Token Exchange Configuration settings allows you to configure the Authentication credentials used in communications from OPERA→OPI.

**OPERA to OPI Communication Configuration** 

- Run \OraclePaymentInterface\v20.4\Config\LaunchConfiguration.bat.
- Login with the Super user account created during OPI installation.
- Select Merchants tab, and click Token Exchange Settings subtab.

<b>A</b>	Configuration	Users Audit	Profile	Sign out
int			Cancel	Save
rmation IFC8 Settings Payment Types To	ken Exchange Settings T	erminals		
Authentication User:				
Authentication Password:				
Confirm Password:				
Certificates				
Certificate	Certificate	e exists?		
OPERA Token Certificate		)		
	Certificate OPERA Token Certificate	OPERA Token Certificate	Certificate Certificate exists?	Certificate Certificate exists? OPERA Token Certificate

- Authentication User: The username for OPERA Authentication.
- Authentication Password: The password for OPERA Authentication.
- Confirm Password: The password for OPERA Authentication.

The details provided here must match the details entered in the OPERA Interface Custom Data page (**OPERA PMS Configuration | Setup | Property Interfaces | Interface Configuration | edit EFT IFC OPI | Custom Data** tab).

	# 383														
IFC Type	EFT	+ Produ	ct Code	FID.		Menu type		± Men	u name			Lice	nse Code 12	3456	789
Name	FIAS EFT				1	Machine	SMITH	HGIN	-	Controller Po	ort 5001		Version 11	1.0	
nterface ID	Fiot	FC8 Produ	ct Code	FID	1	Program	c \fidela	nistcBifc8 exe		Vnc Po	ort 5800		Cashier ID		6972
	Active Y/N	□ Dis	play IFC	∏ Aut	o start	Path ID	1	Timeout 240		Msg Expires af	ler		Γu	se Da	ita Throus
ML Con	figuration			General	1	Class of Se	vice	Import Rooms	Work	station Setup	Translatio	an C	Custom Data	1	
			U	ser Defined				Value			•				
			H	TTP_USER	NAME			· ·	-						
			H	TTP_PASSI	WORD			1							
			VA	ULT_CER	T_CHA	IN_CODE		CHA			8				
			VA	ULT_ID	-			383							
			VA	ULT_MAX_	CC_P	ROCESSED		50			8				
			W	ALLET_PAS	SSWOF	CI CI									
			W	ALLET_PAS	SSWOF	RD									
			Wo	ALLET_PAS	SSWOF	RD									
			W	ALLET_PAS	SSWOP	80					•				
			W	ALLET_PAS	SSWOF	80					×				
			Roo	ALLET_PAS	sswor	n					•				
			Roo	ALLET_PAS	sswor	N N				Room	• Num  t	Jne Num	Type		Search
			Roo	ALLET_PAS	sswor	n	1	1		Room	• Num  1	Jine Num	Type	-	Searc
			Roo	ALLET_PAS	sswor	n	]			Room 1001 1002	• Num 1	Jine Num 1001 1002	Type R R	-	Searc
			Roc	earch	sswor	n -	]			Room 1901 1002 1003	v Num 1	Jine Num 1001 1002 1003	Type R R R		Searc
			Roo	earch	sswor	n 	]			Room 1001 1002 1003 1004	Num k	Jine Num 1001 1002 1003 1004	Type R R R R		Searc
			Roc	earch	siatio	n 	]			Room 1001 1002 1003 1004 1005	Ver I	Jine Num 1001 1002 1003 1004 1005	Type R R R R R		Search New East
			Roc	earch Trans	slatio	n 	]			Room 1001 1002 1003 1004 1005 1006	Num k	Jine Num 1001 1002 1003 1004 1005 1006	Type R R R R R R		Search New Edit

- Certificates are explained in the Certificates section.
- Click Save.

# Certificates



OPI on Premise Token Exchange requires the below sets of certificates:

- OPI > PSP (PSP Client Side Certificates)
- OPERA > OPI (OPI Server Side Certificates)

Refer to the below sections for further details.

## **PSP** - Client Side Certificates

The communication from OPI to the PSP for the token exchange uses HTTPS with a client certificate for client authentication. That is, while a server side certificate is expected to be deployed on PSP (server side) for HTTPS communication, the PSP is also expected to provide a client side certificate to be deployed on OPI side. OPI provides the client certificate during HTTPS communication with PSP, so that PSP can authenticate OPI properly.

In order to achieve this, PSP is required to provide two files:

- A client side certificate file, this is a PKCS#12 Certificate file that contains a public key and a private key and will be protected by a password.
- The root certificate file for the server side certificate that is deployed on PSP side. OPI needs to load this root certificate file into the Java Key store so that OPI can properly recognize and trust the server side certificate deployed on PSP side. The root certificate file provided by the PSP should be in the format of .cer or .crt.

To deploy the client certificate on the OPI side:

1. Run \OraclePaymentInterface\v20.4\Config\LaunchConfiguration.bat



2. Login with the Super user account created during OPI installation.

Handling the Root Certificate File by OPI Configuration Tool.

1. Select Token Exchange tab, click Certificates subtab and then edit the Server (Root) Certificate.

ORACLE	Payment Interface	Configuration Users Audit	Profile Sign ou
Merchants	Token Exchange Configuration		Savi
Core Configuration	Settings Certificates		
PSP Configuration	PSP Certificates		
Token Exchange	PSP Certificate	PSP Certificate Exists?	Status
-	Server (Root) Certificate		
Export Configuration	Client Certificate		3
Import Configuration			-1
	OPI Token Server Certificate		
	Certificate	Certificate Exists?	Status
	OPI Token Server Certificate		3

2. Enter the password for the keystore and browse to the location of the certificate you want to import from **add** () icon or you can also drag and drop the .cer or.crt.

Create PSP Root (	Certificate				
lease choose a p	assword for the keystore that wil	I store the payment service prov	vider root certificate.		
Password: Confirm Password	:				
Passwords are ca The password sh special character !#\$%()*+,-,/;;<=:	ase sensitive. Nould be at least eight characters from the following list only: >?@[]^_' ~	in length and must have at leas	t one upper case character, one	numerical dig	it, and one
Alias	Subject Name	Valid From	Valid To	Status	+ Actions
Alias CH:2105386102	Subject Name CN=CH, OU=Finance, O=OR	Valid From Fri Jun 12 07:49:19 EDT 2020	Valid To Thu Jun 12 07:49:19 EDT 2025	Status Good	+ Actions Delete
Alias CH:2105386102	Subject Name CN=CH, OU=Finance, O=OR	Valid From Fri Jun 12 07:49:19 EDT 2020	Valid To Thu Jun 12 07:49:19 EDT 2025	Status Good	Actions Delete
Alias CH:2105386102	Subject Name CN=CH, OU=Finance, O=OR	Valid From Fri Jun 12 07:49:19 EDT 2020	Valid To Thu Jun 12 07:49:19 EDT 2025	Status Good	+ Actions Delete

3. Click Save.

Create PSP Root (	Certificate						×
Please choose a p Password:	assword for th	ne keystore that	will store the payment	t service provider ro	ot certificate.		
Confirm Password	ł:						
Passwords are ca	ase sensitive.						
The password sh special character	nould be at lea r from the follo	ist eight charact owing list only:	ers in length and must	have at least one u	ipper case character,	one numerical digi	t, and one
!#\$%()*+,/:;<=>	>?@[]^_` ~	📧 Oracle Pay	ment Interface		×	]	
		(i) PSF	<sup>9</sup> root certificate keyste	ore has been update	ed.		+
Alias	Sut				ОК	Status	Actions
CH:2105386102	CN=CH, OU					25 Good	Delete
< [							>
						Can	cel Save

OPI\_PSP\_1Root is created under \OraclePaymentInterface\v20.4\Services\OPI\key

#### Handling the Client Side Certificate

1. Select Token Exchange tab, click Certificates subtab and then edit the Client Certificate.

ORACLE	Payment Interface	Configuration	Users	Audit	Profile	Sign out
Merchants	Token Exchange Configuration	30.00		- 31 1		Save
Core Configuration	Settings Certificates					
PSP Configuration	PSP Certificates					
Token Exchange	PSP Certificate	PS	P Certificate E	xists?	Sta	tus
Ĩ	Server (Root) Certificate					
Export Configuration	Client Certificate					3
Import Configuration						
	OPI Token Server Certificate					
	Certificate		Certificate Exi	sts?	Sta	tus
	OPI Token Server Certificate					

2. Enter the password for the keystore and browse to the location of the certificate you

want to import from **add** ( ) icon or you can also drag and drop the .pfx. You will need the password for this .pfx file to decrypt it. The passwords must meet the minimum complexity requirements mentioned below or it will not be possible to enter the details to the OPI configuration.

## NOTE:

The PSP Client Side Certificates expiration date depends on what the PSP is set during creation of the certificate. Check the expiration date in the properties of the certificate files. Be aware the PSP certificates must be updated prior to the expiration date to avoid downtime to the interface.

Create PSP Client Certificate			
Please choose a password for Password: Confirm Password:	he keystore that will store the payment se	rvice provider client certificate.	Proxy Configuratio
Passwords are case sensitive.			
The password should be at le special character from the fo	ast eight characters in length and must ha lowing list only:	ive at least one upper case chara	acter, one numerical digit, and one
$! \# ()^{+,-,/} :; < = > ? @ []^_`  ~$			
			+
CN=CH, OU=DEPT, O=OR	G, L=Houstan, ST=Texas, C=US		
Active Certificate Chain:	ch		
Certificate Start Date:	Tue Jun 16 08:29:53 EDT 2020	Certificate Expiry Date:	Mon Jun 16 08:29:53 EDT 2025
			Cancel Save

#### 3. Click Save.

Please choose a password for th	ne keystore that will store the payment	service provider client certificate.	
Password:			
			Proxy Configuratio
Passwords are case sensitive.			
The password should be at lea special character from the foll	ast eight characters in length and must l owing list only:	have at least one upper case characte	er, one numerical digit, and one
$!\# \()^{*}+,-,/:;<=>? @[]^_` ~$	Oracle Payment Interface	:	×
CN=CH, OU=DEPT, O=ORO	The TokenProxy service PS updated.	P client certificate PFX file has been	+
		ОК	
Active Certificate Chain:	ch		•



**OPI\_PSP\_1.pfx** is created under **\OraclePaymentInterface\v20.4\Services\OPI\key** folder.

## **OPI - Server Side Certificates**

The lower half of the page relates to generating server side certificate used in communication from OPERA to OPI.

1. Select Token Exchange tab, click Certificates subtab and then click Create OPI Token Server Certificate to proceed.

ORACLE	Payment Interface	Configuration Users Audit	Profile Sign out
Merchants	Token Exchange Configuration		Save
Core Configuration	Settings Certificates		
PSP Configuration	PSP Certificates		
Token Exchange	PSP Certificate	PSP Certificate Exists?	Status
	Server (Root) Certificate		
Export Configuration	Client Certificate		
Import Configuration			
	OPI Token Server Certificate		
	Certificate	Certificate Exists?	Status
	OPI Token Server Certificate		

2. Enter City, State/Province, Country/Region, Create based on IP or FQDN, OPI Server IP, Password and Confirm Password.

🔳 Create OPI Certificat	te	×
City:	Houstan	
State/Province:	Texas	
Country/Region:	US	
Create based on:	• IP	
	FQDN	
OPI Server IP:		
Password:		
Confirm Password	:	
	Cancel Generate	

3. Click Generate to continue.

This process will generate the MICROS\_OPERAToken.pfx and MICROSOPERAToken.cer files in the following folder: \OraclePaymentInterface\v20.4\Services\OPI\key\

l <mark>⊡</mark> ,∓lkey Nite Home Si	hare Vie	w			
· -> ->	This PC →	Local Disk (C:) > OraclePaymentInterfa	sce > v20.2 > Services > O	IPI ⇒ key	
🖈 Quick access		Name	Date modified	Туре	Size
Desktop	*	CHA.cer	10/07/2020 08:53	Security Certificate	1 KB
Downloads	*	浸 CHA.pfx	10/07/2020 08:53	Personal Informati	3 KB
Documents		MICROS_OperaToken.pfx	10/07/2020 08:53	Personal Informati	3 KB
Distant		MICROSOperaToken.cer	10/07/2020 08:53	Security Certificate	1 KB
Pictures	75	B OPI_PSP_1.pfx	28/01/2019 11:38	Personal Informati	3 KB
Gent IFC8 Iog Public		OPI_PSP_1Root	10/07/2020 09:25	File	2 KB
This PC					

## NOTE:

The OPI Server Side Certificates have a default expiration date of five years from the date of creation. Check the expiration date in the properties of the certificate files.

The OPI Server Side Certificates must be updated prior to the expiration date to avoid downtime to the interface.

Copy the **MICROSOPERAToken.cer** file to all the OPERA registered terminals that you want to run the Token Exchange process from and then Import to Trusted Root Certification Authorities, using **mmc.exe** (Refer to section Certificate Import using Microsoft Management Console for more details)

Close the Certificate generation screen. You should now see ☑ under Certificate created.

## **OPI - Client Side Certificates**

## NOTE:

For the following OPERA versions, the Mutual Authentication requirement was removed for OPI TPS communication.

- OPERA V5.5.0.24.4 and V5.6.6.
- OPERA Cloud 19.4.0.0 and 1.20.16.0.

# 3 OPERA Configuration

# Creating an EFT Interface

- 1. Log in to OPERA and go to **Configuration**.
- Select the menu option Setup | Property Interfaces | Interface Configuration. If there is no active EFT or CCW IFC Type, select New to add configuration for a new EFT interface.
- 3. Enter the following options, and then click OK:
- IFC Type: EFT
- Name: Oracle Payment Interface
- Product Code: OPI
- Machine: Select the machine
- License Code: License code for interface
- IFC8 Prod Cd: XML\_OPI

🔞 IFC Web Cor	nfiguration - New			
IFC Type	EFT 👱 Name	Oracle Payment Interface	Communication © TCP/IP © Serial	
Product Code	OPI Machine	SMIITHGIN 💌	IP	
License Code	987654 IFC8 Prod Cd	XML_OPI	Port	<u>ο</u> κ
	🗖 Generate XML			Close

- 4. Select the check box to enable the Handle night audit commands.
- 5. Select the check box to enable the CC Vault Function.
- 6. Define the **Timeout** value as 210.

🙀 IFC Web Configuration - Edit					
Interface # 151					
IFC Type EFT ± Product	Code MFG	Menu type	🛨 Menu name		License Code 8050817223
Name Oracle Payment Interface		Machine MN7-64BIT	•	Controller Port 5001	Version 13.2.0
Interface ID MF01 IFC8 Product	Code XML_OPI	Program c:\fidelio\fc8\f	c8.exe 💌	Vnc Port 5800	Cashier ID 16 ±
Active Y/N 🗌 Displ	ay IFC 🔲 Auto start	Path ID 1	neout <mark>210</mark>	Msg Expires after	🗖 Use Data Through
XML Configuration	General Cl	lass of Service   Imp	ort Rooms Worl	kstation Setup Translation	Custom Data
	Handle night audit CC Vault Function EFT Setup IF Regular Transac	t commands	Port ddress T Stored 1	/alue System	

- 7. Select the Translation tab, and click Merchant ID.
- 8. Select **New** to add the Merchant ID. This must be the same as previously configured in OPI (MPG) Configuration.



# Configuring CHIP AND PIN (EMV)

To configure the Functionality Setup:

1. Go to Setup | Application Settings | IFC Group > Parameters, and enable CHIP AND PIN.

Property FSDH		C Eunctions	e Eara	meters	C Settings
Group	X	Name			_
		ADVANCED AUTHOR	RIZATION RULES		
AR	x	ALLOW GIFT CARD	CASHOUT		
BLOCKS		CC NUMBER NOT M	ANDATORY FOR RE	SERVATIONS	
CASHIERING	x	CHIP AND PIN			
CATERING	X	DISPLAY HOUSE BO	OOTH CALLS		
COMMISSION		DISPLAY KEY SCRE	EN		
END OF DAY	×	DISPLAY KEY SCRE	EN UPON CHECKIN		
EXPORTS		DISPLAY VALUED PI	ROGRAM DURING C	HECKIN	 
FRONT DESK		GIFT CARDS			
GENERAL		IFC POST EXCLUSIN	/E TAX AS ITEMIZER		
GRC		MULTIPLE GUEST B	ROOM KEY		
IFC		RESTRICT KEYDAT	ACHANGE AT CHECK	an	
MEMBERSHIP		RESTRICT KEYS FO	R RESERVATIONS N	IOT CHECKED-IN	
NAVIGATOR		STORE CHECK DET	TAILS BY CHECK NUT	MBER ONLY	
PREVENTATIVE MAINT	v	SWAP REFERENCE	AND SUPPLEMENT	mbert offer	
PRIORITY	L_	Of the I chertoe			
PROFILES	Activat	to Chin and Pin Functio	onality		 
PTM	- uva	te omp and r in r uncu	orianiy.		
RATES					
RESERVATIONS					
ROOMS MANAGEMENT -					
SELLING SCREEN					 

### 2. Go to Setup | Property Interfaces | Credit Card Interface | Functionality Setup.

g ODH - Credit Cards Functionality Setup	
Global Rules	
☑ Online Settlement	Temporarily Store Offline Settlements
🗖 Batch Settlement	Manual Authorization Notification
🔲 Send Total Tax in Settlements	C Activate Installments
🗖 Credit Card Type Check/Usages	
Night Audit Remote Authorization	
🗖 Blacklist Card Check	
🗹 Force Auth. During Check In / Interactive	Auth. Window
Card Specific Rules	
Authorization at Check-In	Types VI,MC,AX,DS,VA
Authorization Reversal Allowed	Types VA,VI 👤
Authorization during Stay/Deposit	Types VI,MC,AX,DS,VA
Authorization Settlement at Check-Out	Types CPMC, 👤
E Deposit CW2 Check	Types 📃 👲
Deposit Address Verification	Types 📃
🗹 Chip and Pin	Types AX,CPMC,DS,MC,VA,VI,
	<u>O</u> K <u>C</u> lose

- **Online Settlement**: Select this check box to allow online settlement. OPI is an online settlement. This must be checked to activate the Chip and PIN Application Setting.
- Authorization at Check-In: Select the payment methods that will trigger an automatic credit card authorization at check-in.
- Authorization Reversal Allowed: Select the payment methods that can process authorization reversals. This provides a request transaction to the Payment Partner to remove the existing authorization on a guest credit card or debit card if the folio payment type is changed or at check-out a different payment method is used. For example, a guest checks in on a reservation for a 5-night stay using a Visa credit card for payment type. At the time of authorization, a hold is put on the Visa credit card for the total cost of the stay. If the payment type is changed to another type on the reservation or the guest checks out using cash or a different brand of credit card, OPERA will send a reversal request for the originally selected Visa credit card authorization. A partial reverse authorization is not supported.
- Authorization During Stay/Deposit: Select the payment methods that allow manual and automatic authorizations following check-in and prior to check-out and settlement. This option must be enabled in order to allow authorizations by the end-of-day routine.
- Authorization Settlement at Check-Out: Select the payment types that use credit card authorization and settlement in one transaction request. These are payment types that do not allow an authorization separate from the settlement/sale.
  - The payment types that are available in the multi-select list of values are only
    payment types configured as EFT payment types. Any one payment type can be
    selected for credit card specific rules of Authorization at check-in, Authorization
    Reversal, and Authorization during Stay/Deposit. If they are selected for these
    card specific rules, then the payment types will not be available for Authorization
    During Stay/Deposit.
- Chip and PIN Enabled Payment Types: When the IFC | Chip and PIN application parameter is set to Y, this option is visible and selected by default. You may not unselect the check box. Select the LOV to choose the credit card payment types that will trigger a Chip and PIN message with or without credit card data to the EMV Device. Payment types that are configured here will not require that a credit card number or expiration date to be entered when selected as a payment method on the Reservation screen or on the Payment screen. This data can be provided in the response message from the Payment Partner.

# Configuring the CC Vault

These settings can be per property. Goto **Configuration | Setup | Property Interfaces | Interface Configuration | edit EFT IFC OPI | Custom Data tab**.

Token URL is accessible from **Configuration | Setup | Property Interfaces | Interface Configuration | edit EFT IFC OPI | General**.

terface # 12845		
IFC Type EFT  Product Name OPLEFT Interface ID FI01 IFC8 Product V Active YIN Disc	t Code FID Menu type  Menu type Machine DEN000DA  t Code FID Program ct/fdeio/dc8/dc8.exe New FIC Auto start Path ID 1 Timeout 210	License Code 12345878 Controller Port 5001 Version 9.6.11 Vice Port 5800 Cashier ID 3 Mso Expires after Use Data The
ML Configuration	General     Class of Service     Import Rooms     Work       Image: Handle night audit commands     Port     COM       Image: CC Vault Function     IP Address     IP Address       Image: FT Setup     IP Address     Image: Stored V       Image: Courtesy Card Handling     Token URL     https://OPH	station Setup Translation Custom Data
	Room Translation	Room Num Line Num Type Sea
	From	

OPERA uses the CREDIT CARD VAULT CHAIN CODE for the certificate lookup and should be populated with what was entered during the OPI configuration for PMS.

The CREDIT CARD VAULT WEB SERVICE URL should be in the format:

Example: https://OPIHost or address:OPITokenPortNumber/TokenOPERA

TFC Web Configuration - Edit			<u> </u>
Interface # 12845			
IFC Type EFT ± Product	t Code FID Menu type	1 Menu name	License Code 12345678
Name OPI_EFT	Machine DEN00	QDA  Controller Port 5001	Version 9.6.11
Interface ID FI01 IFC8 Product	t Code FID Program c.\fide	io\ifc8\ifc8.exe  Vnc Port 5800	Cashier ID 34 ±
Active Y/N Disp	olay IFC 🗆 Auto start Path ID 1	Timeout 210 Msg Expires after	Use Data Through
XML Configuration	General Class of Service	Import Rooms Workstation Setup Translation	Custom Data
	User Defined	Value	
	HTTP_PASSWORD	******	
	HTTP_USERNAME	QATESTUSER2	
	VAULT_CERT_CHAIN_CODE	CHA	
	VAULT_ID	12845	
	VAULT_MAX_CC_PROCESSED	50	
	WALLET_PASSWORD		
		•	
	·		
	Room Translation		
		Room Num Lin	e Num Type 📥 Search
	Search		
	From		
			New
	To		Edit
		Generate XML	Save Close
1			

The CREDIT CARD VAULT ID is currently not used.

The CREDIT CARD MAX CC PROCESSED is set to what the Payment Partner can support for the number of rows sent in one Token (GetID/GetCC) request. This is used during the bulk tokenization process and when multiple folio windows exist on OPERA Reservations. 50 is the default used when nothing is set here (This is determined by Payment Partner/Vendor; please verify with Partner/Vendor, the number of credit cards that can be processed per batch).

The CREDIT CARD VAULT TIMEOUT is set to the timeframe to wait for a response from the Token Proxy Service. At least 240 is recommended.

# **OPERA Payment Widget Configuration**

## Activation / Inactivation Rules

• Credit Card Vault function and the Chip and Pin Parameter must be set active.

## **Application Settings**

To configure this Application Settings:

- 1. Go to Setup | Application Settings | General | Restrict Credit Card Manual Entry
- 2. When Active this will deactivate the OPERA Payment Widget across the OPERA Property.

		C Eunctions	@ Parameters	C Settings	
Group		Mame		-	
ACTIVITY	-	KEEP REP. CONT. M	ERGE FILES		
R		LOGIN LANGUAGE			
BLOCKS		LOGIN TIMEOUT			
CASHIERING		OBI CLIENT SETUP			
CATERING		OPERA WERLINKS			
END OF DAY		ORMS TRIAL ACTIVAT	TE .		
EXPORTS		POLICE INTERFACE			
FRONT DESK	x	RECENT USED REC	ORDS MENU		
SENERAL	x	REGISTRATION CAR	DS		
FC		REPORT WATERMAR	ĸ		
MEMBERSHIP		RESTRICT CREDIT C	ARD MANUAL ENTRY		
OEDS		SHOW LOCAL PRINT	FRS		
ows		STORE IP ADDRESS	IN LISER ACTIVITY LOG		
PROFILES		SUBSCRIPTION MAN	ACEMENT		MICROS Payment Application [3.17,2.3]
RATES		LISE EXTERNAL LOC	81		
RESERVATIONS		OSE EXTERNAL COS		<u> </u>	Con Micros Raument Application
ROOMS MANAGEMENT	Activi	ates restricting manual e	ntry of credit card numbers from a non-encrypted de	vice. 🔺	Credt Manual entry is not allowed.
					OK One

# **Cashiering Overview**

## **Credit Card Payment Transaction Codes**

1. In OPERA, go to **Configuration | Cashiering | Codes | Transaction Codes** to view the Credit Card Payments transaction codes setup.

015 - Transaction Codes - E	<b>jit</b>	
Code 9600 Description Visa Subgroup CREI Group Paym Trn. Type Adjustment Code	Card Card Credit Cards ients v ž	
Minimum Amount	C Cash C Check C Manual CC Code VA	C Others Visa Card
AR Account Revenue Group Paidout Cashier Payments (1-8) Include in Deposit/CXL1	Membership     Generates Inclusive     AR Payments Rule      Check No. Mandatory	CC Commission 0.00 %
Inactive	Display Code	

- 2. Information for credit card payment transaction codes:
- **EFT** selection is necessary to send credit card transactions out to the integrated payment partner for the specific Payment type.

- Manual selection will not send out any transactions to the integrated payment partner.
- **CC Code** will auto-populate once the transaction code is associated to a Payment Type.
- **Display Code** can be populated to display a button when payment screen is accessed in OPERA PMS.

# Overview of Credit Card Payment Types

The credit card payment types link with the transaction code:

- In OPERA, go to Configuration | Cashiering | Payment Types.
  - The IFC CC Type field has the credit card code used such as MC, VA, AX.
  - The **Trn Code** field has the credit card transaction code.

Payment Type VA	Description Visa Card		Credit Limit 1,000,0	000.00
IFC CC Type VA	* Trn. Code 9600	<u>*</u>	Extra Percent	0.00
			🗖 Cash Su	irchar
Merchant Number	No Post	Reserv	ation	
		🗆 Authoriz	zation Receipt	
		Dis	play Sequence	
Jgorithm Configuration	Range	From	Το	
Igorithm Configuration Card Length 13,16	Range	From 4000000000000	To 4905249999999	
Igorithm Configuration Card Length 13,16 Card Prefix 4	Range	From \$000000000000 \$0000000000000000000000	To 4905249999999 49052499999999999	-
Igorithm Configuration Card Length 13,16 Card Prefix 4 Validation Rule Mod 10	Range	From 4000000000000 40000000000000000000000	To 4905249999999 490524999999999 4910999999999	
Algorithm Configuration Card Length 13,16 Card Prefix 4 Validation Rule Mod 10	Range	From 4000000000000 40000000000000000000000	To 4905249999999 490524999999999 4910999999999	-
Algorithm Configuration Card Length 13,16 Card Prefix 4 Validation Rule Mod 10	Range	From 4000000000000 40000000000000000000000	To 4905249999999 490524999999999 4910999999999	

# Credit Card Type Payment Setup Information

To link the Card Types, the Credit Cards types mentioned below should be created and available in OPERA PMS.

# Sample List of Card Types

Payment Types - Customer Present (Chip and PIN)	Description	Capture Method
VA	Visa	CP can be used. Transaction will go to the EMV (Chip and PIN) device.
MC	Mastercard	CP can be used. Transaction will go to the EMV (Chip and PIN) device.
АХ	American Express	CP can be used. Transaction will go to the EMV (Chip and PIN) device.
DC	Diners Club	CP can be used. Transaction will go to the EMV (Chip and PIN) device.
JC	JCB	CP can be used. Transaction will go to the EMV (Chip and PIN) device.
CU	China Union Pay	CP can be used. Transaction will go to the EMV (Chip and PIN) device.
VD	Visa Debit	CP cannot be used, manual card type selection is required. If CP is used, OPERA will default to Visa. Transaction will go to the EMV (Chip and PIN) device.
MD	Mastercard Debit	CP cannot be used, manual card type selection is required. If CP is used, OPERA will default to Mastercard. Transaction will go to the EMV (Chip and PIN) device.
CD	China Union Pay Debit	CP cannot be used, manual card type selection is required. If CP is used, OPERA will default to China Union Pay. Transaction will go to the EMV (Chip and PIN) device.
MS	Maestro	CP can be used, but PayOnly recommended. Transaction will go to the EMV (Chip and PIN) device. Customer present ONLY!
VP	V-Pay	CP can be used, but PayOnly recommended. Transaction will go to the EMV (Chip and PIN) device. Customer present ONLY!
BC	GiroCard	CP can be used, but PayOnly recommended. Transaction will go to the EMV (Chip and PIN) device. Customer present ONLY!

Payment Types - Customer Present (Chip and PIN)	Description	Capture Method
АВ	AliPay	CP can be used, but PayOnly recommended. Transaction will go to the EMV (Chip and PIN) device. Customer present ONLY!
МІ	MIR (National Card for Russia)	CP can be used. Transaction will go to the EMV (Chip and PIN) device.

Payment Types – Customer NOT Present (Keyed)	Description	Capture Method
KVA	Visa Keyed	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
КМС	Mastercard Keyed	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
КАХ	American Express Keyed	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
KDC	Diners Club Keyed	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
KJC	JCB Keyed	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
KCU	China Union Pay Keyed	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
KVD	Visa Debit Keyed	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
KMD	Mastercard Debit	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
KCD	China Union Pay Debit	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)

Payment Types – <mark>One Shot</mark> Cards (Keyed) OPTIONAL!!!	Description	Capture Method
VVA	Visa Virtual	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
VMC	Mastercard Virtual	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)
VAX	American Express Virtual	Card not present transaction (CNP, MO/TO, Mail Order / Telephone Order, MOTOEC)

## **Individual Card Functions**

Payment Types - Customer Present (Chip and PIN)	Authorization at Check-in	Pay Only (no Authorization)	Deposit Y/N	Cashier Payment Y/N	A/R Payment Y/N
VA	Y	Ν	Ν	Y	Ν
MC	Y	Ν	Ν	Y	Ν
АХ	Y	Ν	Ν	Y	Ν
DC	Y	Ν	Ν	Y	Ν
JC	Υ	Ν	N	Y	Ν
CU	Υ	Ν	N	Y	Ν
VD	Ν	Y	Ν	Y	Ν
MD	Ν	Y	Ν	Y	Ν
CD	Ν	Y	Ν	Y	Ν
MS	Ν	Y	N	Y	Ν
VP	Ν	Y	Ν	Y	Ν
BC	Ν	Y	Ν	Y	Ν
AB	Ν	Y	Ν	Y	Ν
МІ	Υ	Ν	Y	Y	Y

Payment Types - Customer NOT Present (Keyed)	Authorization at Check-in	Pay Only (no Authorization)	Deposit Y/N	Cashier Payment Y/N	A/R Payment Y/N
KVA	Y	Ν	Y	Y	Y
КМС	Y	Ν	Y	Y	Y
КАХ	Y	Ν	Y	Y	Y
KDC	Υ	Ν	Y	Y	Y
KJC	Y	Ν	Y	Y	Y
КСИ	Y	Ν	Y	Y	Y
KVD	Ν	Y	Y	Y	Y
KMD	Ν	Y	Y	Y	Y
KCD	Ν	Y	Y	Y	Y
Deument	Authorization	Bay Only (no	Domosit	Cashian	A/D Doursent

Payment Types – One Shot Cards (Keyed) OPTIONAL!!!	Authorization at Check-in	Pay Only (no Authorization)	Deposit Y/N	Cashier Payment Y/N	A/R Payment Y/N
VVA	Ν	Y	Ν	Υ	Ν
VMC	Ν	Υ	Ν	Y	Ν
VAX	Ν	Y	Ν	Y	Ν

## **Important Considerations**

- Transaction codes for Chip and PIN, KEYED and VIRTUAL cannot be the same.
- SOLO cards does not exist anymore, and cannot be used.
- VISA ELECTRON and VISA DELTA should not be created as separate transaction / payments codes, these cards will fall under VISA.
- DISCOVER cards now fall under DINERS CLUB.
- VIRTUAL cards can only be VISA, MASTERCARD and AMERICAN EXPRESS.
- V-Pay, GiroCard and AliPay can only be Chip and PIN.

## Update OPI Configuration Payment Types

Oracl	e Payment Interfac	ce – Configuration Wizard		
Merchant Payment T	ype Configuration			
		Payment Types:		
Chain Code:	FSDH	Card Type	▲ Payment Code	
Property Code:	HOTEL 1	Gift Card	GC	^
	HOTEL	GiroCard	BC	
		JCB	JC	ſ
		Maestro	ME	
		MasterCard	MC	L
		MasterCard Debit	MD	
		MIR	MI	
		Paypal	PC	
		Reserve-01	ZZ	
		Hint: Double-click to edit a cell ar your change or, Escape to cancel	nd then press Enter to submit it	~
		DI-	Next	<b>C</b>

Enter the OPERA payment code for each card type, and click Next.

## Pay Only Transaction Codes

By default, OPERA will process a Pre-authorization following by a Sale Completion when processing a payment. At times, hotels will need to process transactions as a "Sale Transaction" – meaning a Sale Transaction only and no pre-authorization is processed. In OPERA we refer to this feature as "Pay Only" and this can be used to process payments for Debit Cards, Digital Wallets, or Virtual Credit Cards that do not support Pre-Authorizations.

To set up this type of transaction code, you will need to set up a new Transaction Code and Payment type for each of these Card types being processed at a property level.

1. Go to **OPERA Configuration | Cashiering | Codes | Transaction |New**. Configure the code as shown in the screen shot below:
| Description DS - DIF<br>Subgroup CREDIT  | RECT SETTLEMENT  | Irands  |        |
|--|--|---|--------|
| Trn. Type  |  |   |        |
| Minimum Amount   | Maximum An   | rount   |        |
|  |  |   |        |
| Credit Card C<br>C EFT C<br>AR Account CC1234567   | Cash C Check<br>Manual CC Code VA  | C Others  | 0.00 % |
| Credit Card C<br>C EFT C<br>AR Account CC1234567   | Cash Check<br>Manual CC Code VA<br>Credit Cards - ALL<br>Membership  | C Others<br>CC Commission [   | 0.00 % |
| Credit Card C<br>C EFT C<br>AR Account CC1234567<br>Revenue Group<br>Paidout   | Cash Check<br>Manual CC Code VA<br>Credit Cards - ALL<br>Membership<br>Generates Inclusive                                       | C Others<br>CC Commission [<br>Manual Posting<br>Ø Deposit Payments | 0.00 % |
| © Credit Card C<br>© EFT C<br>AR Account CC1234567<br>□ Bevenue Group<br>□ Paidout<br>☑ Cashier Payments (1-8)   | Cash C Check<br>Manual CC Code VA<br>Credit Cards - ALL<br>Membership<br>Generates Inclusive<br>AR Payments                      | CC Commission   | 0.00 % |
| <ul> <li>Credit Card</li> <li>C EFT</li> <li>AR Account</li> <li>CC1234567</li> <li>Revenue Group</li> <li>Paidout</li> <li>✓ Cashier Payments (1-8)</li> <li>Include in Deposit Rule</li> </ul>                                 | Cash Check<br>Manual CC Code VA<br>Credit Cards - ALL<br>Membership<br>Generates Inclusive<br>AR Payments<br>Check No. Mandatory | C Others<br>CC Commission   | 0.00 % |
| <ul> <li>Credit Card</li> <li>Image: Content of EFT</li> <li>AR Account</li> <li>CC1234567</li> <li>Revenue Group</li> <li>Paidout</li> <li>Cashier Payments (1-8)</li> <li>Include in Deposit Rule</li> <li>Inactive</li> </ul> | Cash Check<br>Manual CC Code VA<br>Credit Cards - ALL<br>Membership<br>Generates Inclusive<br>AR Payments<br>Check No. Mandatory | C Others<br>CC Commission [<br>Manual Posting<br>♥ Deposit Payments | 0.00 % |

2. Next go to OPERA **PMS Configuration | Cashiering | Payment Types**. Configure the payment types with the settings shown below:



Payment Type	Trn. Code	Description	Seq.		
CA	9000	Cash	1		
VA	9001	Visa	1		
MC	9002	Mastercard	2		
AX	9003	AMEX	3		
DC	9004	Diners	4		
JC	9005	JCB	5		Delete
MD	9102	MASTERCARD DEBIT	8	ſ	
WEB	85090	Paid Online	10		L Lew
CL	85055	City Ledger	11		Edit
CU	9006	CUP Credit	12	-1	Close

Fayment Type	DS	Description	DS - DIRE	ECT SETTLEM	ENT Credit Limi	t 0.00
IFC CC Type	ZZ 👱	Trn. Code	9999		Extra Percen	t0.00
Merchant Number			₩ No Pos	st	<ul> <li>Reservation</li> <li>Authorization Receipt</li> <li>Display Sequence</li> </ul>	Cash Surchar     Prompt at Cl     999
Algorithm Configurat	on	]	Range	From	То	4

3. Next go to OPERA PMS Configuration | Setup | Property Interface | Credit Card Interface | Functionality Setup.

Reservations Profile Rate Management Qashiering Rooms Management AR Se HGPS Us Reg	etup Property Exit		
HGPS U: AP Re	Jser Configuration	•	
ar Re			
	pplication Settings Report Setup	*	
Me	Ienu URL Setup	•	
Ita	rack It	•	
NG Lo Me Er Till	lote Types ocators lessage Eormats Definable Managers Report End of Day Seguence limezone Setup		
Pr.	Property Interfaces	Interface Configuration	
W Pr	Vorkstations rinters	Credit Card Interface	General Parameters
	ata Definition creen Design	•	Authorization Rules
Bu	Business Events	• • • • • • • • • • • • • • • • • • •	
	DAP Configuration icense Codes		
Confi	External Databases Delivery Status Codes	on	
B	eport Text Configuration		

- 4. Add the new payment types you created above to the following two settings:
  - a. Authorization Settlement at Check-out
  - b. Chip and Pin

Online Settlement	Temporarily Store Offline Settlemer	nts
Batch Settlement	Manual Authorization Notification	
Send Total Tax in Settlements	C Activate Installments	
Credit Card Type Check/Usages		
Night Audit Remote Authorization		
Blacklist Card Check		
Force Auth. During Check In / Interactive	Auth. Window	
Card Specific Rules		
Card Specific Rules  Authorization at Check-In	Types VA,MC,AX,DC,JC,CU	ŧ
Card Specific Rules Authorization at Check-In Authorization Reversal Allowed	Types VA,MC,AX,DC,JC,CU Types VA,MC,AX,DC,JC,CU	<u>*</u>
Card Specific Rules           Authorization at Check-In           Authorization Reversal Allowed           Authorization during Stay/Deposit	Types VA.MC.AX,DC.JC.CU Types VA.MC.AX,DC.JC.CU Types VA.MC.AX,DC.JC.CU	* * *
Card Specific Rules  Authorization at Check-In  Authorization Reversal Allowed  Authorization during Stay/Deposit  Authorization Settlement at Check-Out	Types VA,MC,AX,DC,JC,CU Types VA,MC,AX,DC,JC,CU Types VA,MC,AX,DC,JC,CU Types MD,WE,DT,VD,CD,AL	* * *
Card Specific Rules  Authorization at Check-In  Authorization Reversal Allowed  Authorization during Stay/Deposit  Authorization Settlement at Check-Out  Deposit CVV2 Check	Types VA,MC,AX,DC,JC,CU Types VA,MC,AX,DC,JC,CU Types VA,MC,AX,DC,JC,CU Types MD,WE,DT,VD,CD,AL Types	* * * *
Card Specific Rules  Authorization at Check-In  Authorization Reversal Allowed  Authorization during Stay/Deposit  Authorization Settlement at Check-Out  Deposit CVV2 Check  Deposit Address Verification	Types VA.MC.AX,DC.JC.CU Types VA.MC.AX,DC.JC.CU Types VA.MC.AX,DC.JC.CU Types MD.WE.DT.VD.CD.AL Types Types Types	• • •



P	ayment Methods			
	Payment Method			Search
	Description			All
	C Selected	C Non Selected C Both		None
ĸ	Payment Method	Description	1	
ĸ	AL	ALI PAY		
X	CD	CHINA UNIONPAY DEBIT		
	DS	DS - DIRECT SETTLEMENT		
K	DT	DEBIT CARD GENERIC		
ĸ	MD	MASTERCARD DEBIT		
x	VD	VISA DEBIT		
ĸ	WE	WE CHAT PAY		
		ß		
_			- 1	QΚ
-				Close

	ayment methods		_	-
	Payment Method			Search
	Description		7	All
	C Selected	C Non Selected C Both		None
х	Payment Method	Description	1	
X	AL	ALI PAY		
x	CD	CHINA UNIONPAY DEBIT		
х	DS	DS - DIRECT SETTLEMENT		
х	DT	DEBIT CARD GENERIC		
X	MD 63	MASTERCARD DEBIT		
х	VD	VISA DEBIT		
x	WE	WE CHAT PAY		
				OK
_				Close

Online Settlement	Temporarily Store Offline Settlem	ents
Batch Settlement	Manual Authorization Notification	
🗖 Send Total Tax in Settlements	C Activate Installments	
Credit Card Type Check/Usages		
Night Audit Remote Authorization		
Blacklist Card Check		
Force Auth. During Check In / Interactive	Auth. Window	
Card Specific Rules		
Authorization at Check-In	Types VA,MC,AX,DC,JC,CU	*
Authorization at Check-In     Authorization Reversal Allowed	Types VA,MC,AX,DC,JC,CU Types VA,MC,AX,DC,JC,CU	*
Authorization at Check-In     Authorization Reversal Allowed     Authorization during Stay/Deposit	Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU	*
<ul> <li>Authorization at Check-In</li> <li>Authorization Reversal Allowed</li> <li>Authorization during Stay/Deposit</li> <li>Authorization Settlement at Check-Out</li> </ul>	Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         AL,CD,DS,DT,MD,VD,WE,	* * *
Authorization at Check-In     Authorization Reversal Allowed     Authorization during Stay/Deposit     Authorization Settlement at Check-Out     Deposit CVV2 Check	Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         AL,CD,DS,DT,MD,VD,WE,           Types         AL,CD,DS,DT,MD,VD,WE,	*
Authorization at Check-In     Authorization Reversal Allowed     Authorization during Stay/Deposit     Authorization Settlement at Check-Out     Deposit CVV2 Check     Deposit Address Verification	Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         VA,MC,AX,DC,JC,CU           Types         AL,CD,DS,DT,MD,VD,WE,           Types         Types	

## Activating and Using the Payment Service Directive (PSD2) Control

A Payment Service Directive OPERA Control is added for properties with payment integration to meet the requirements of the P2D2 European directive for card not present transactions.

The support of the **Customer Initiated Transaction (CIT)**, **Mail Order / Telephone Order (MOTO)** and **Merchant Initiated Transaction (MIT)** flags need the **Payment Service Directive** application parameter in OPERA PMS to be activated. Currently, the supported functions for OPERA V5 are CIT, MOTO, and MIT.

Activating the Payment Service Directive is available only once the credit card interface has been installed in OPERA and the Credit Card Vault function and the Chip and Pin is turned on. If this is completed follow the below sections to know the functions of CIT, MOTO and MIT:

Property 17907 👲		C Eunctions	e Para	ameters		C <u>S</u>	ettings
Group	X	Name					4
AR 🔶	x	ADVANCED AUTH	ORIZATION RULES				
BLOCKS		ALLOW GIFT CAR	D CASHOUT				
CASHIERING		AUTO CHECK OU	T SHARES				
END OF DAY	X	CC NUMBER NOT	MANDATORY FOR RE	SERVATIONS	}		
EXPORTS		CHIP AND PIN					
FRONT DESK		DISABLE PAYMEN	T GATEWAY				
GENERAL		DISPLAY HOUSE	BOOTH CALLS				
IFC		DISPLAY KEY SCP	REEN				
MEMBERSHIP	X	DISPLAY KEY SCP	REEN UPON CHECKIN	1			
OBI		DISPLAY VALUED	PROGRAM DURING C	HECKIN			
OWNERSHIP		GIFT CARDS					
PROFILES		IFC POST EXCLUS	BIVE TAX AS ITEMIZER				
RATES	x	MULTIPLE GUEST	ROOM KEY				
RESERVATIONS		PAYMENT SERVIC	ES DIRECTIVE				
ROOMS MANAGEMENT		RESTRICT VEVDA	TACHANGE AT CHEC	1/IN			
SELLING SCREEN		REGITIOT RETUP	INCOMPOSE AT CITED				
	Enabl and s	les Payment Service ettlements when an	s Directive(PSD) speci EFT interface is config	fications for pr ured at the pro	rocessing of a operty	credit card pay	/ments
					1	1	1

Activating this parameter enables the Payment Services Directive (PSD2) specifications for the processing of credit card payments and settlements when an EFT interface is configured at the property.

## Customer Initiated Transaction (CIT) Flag

The following OPERA screens receive and send out the CIT ID:

- Deposits
- Payments
- Reservation Main
- Credit Cards Authorization
- Post It Payments
- Passer By Payments
- Accounts Receivable Payments

**OXI Incoming Messages for New or Update Reservation** 

When OXI sends a new reservation or an update reservation message to OPERA that contains credit card information with a CIT ID, OPERA stores the CIT ID along with the credit card payment information. The incoming OXI message to OPERA includes the CIT ID in the "PaymentMethod" attribute.

**OXI Outgoing Messages for Credit Card Transactions** 

When OXI sends outgoing messages for credit card authorizations and transactions to an IFC8 interface, OXI includes the CIT ID in the "PaymentMethod" attribute.

Viewing the CIT ID in OPERA

OPERA PMS users can view the CIT ID in the Reservation Changes Log in **NEW RESERVATION** and **UPDATE RESERVATION** Action type field by navigating to **Reservation > Options > Changes Log**. The CIT ID is read-only.

o User Activity	Log Details	
User		
Time	01:49 AM	
Date	12-25-20	
Station ID	NPLOXIS15	
Action Type	NEW RESERVATION	
IP Address		
-		
EXTERNAL P	EFERENCE -> 653079865	-
CIT ID -> c23	7846Sweta3	
ADULTS ->1 RATE CODE	POSTING RHYTHM DISCOUNT FLAG ->N	
CHILDREN -	>0	
CURRENCY	CODE ->EUR	-
		Close

## Mail Order / Telephone Order (MOTO) Flag

When **Payment Service Directive** is Active, the information sent from OPERA V5 to the interface will:

- Include a MOTO flag in the "PaymentMethod" tag indicating:
  - MOTO=0 indicates the Credit Card was NOT entered manually
  - MOTO=1 indicates that the Credit Card was entered manually

#### Sample:



- Display a new 'Card Present' checkbox.
  - Card Present checkbox selected indicates the Credit Card was not entered manually.
  - Card Present checkbox not selected indicates that the Credit Card was entered manually (Entering Credit card manually will also prompt a message saying "Credit card was entered manually").

Name       Phone       Agent       Agent         First Name       Member Type       Company       Agent         Language       VP       Member No.       Group         Source       Image: Source       Image: Source       Aduits         Arrival       0-18-05       Monday       Image: Source       Image: Source       Image: Source         Arrival       0-18-05       Monday       Image: Source	CASINO - Reservation			
First Name       Member Type       Company       #         Title       ChrtyrRgn US       Member No.       Group       #         Source       #       Member LM.       Contact       #         More Fields       Email       Adults (Tax Free)       Monday       Member LM.       Contact       #         More Fields       More Fields       Market CORF # Creporate       Source       Dock Amb       %       #         Adults 1       Child O       Day Use       Docking Method       #       Dock Amb       %       #         Parture 09-18-06       Monday       Market CORF # Creporate       Source IM       Individual       Dock Amb       %       #         Adults 1       Child O       Monday       Market CORF # Creporate       Source IM       Individual       Esc. Amb       %       #	Name	Phone Phone	Agent	<u>±</u>
Title Corup   Language E   VIP Email   More Fields   Arrival (9-18-06) Monday Adults 1 Ohldo Oblics Outor 10 Porter Outor 10 Porter Po	First Name	Member Type	🔮 Company	*
Language VIP * Member Lul. Contad Adults (Tax Free) Source Adults (Tax Free) More Fields Arrival (9-13-06 Monday Nights Day Use Departure (9-13-06 Monday Nights Day Use Departure (9-13-06 Monday Nights Day Use Departure (9-13-06 Monday Adults (Tax Free) Adults (Tax Free) Adults (Tax Free) More Fields Market CORF & Corporate Source IND & Individual Booking Method & Pagenate Common Type POKS & DNM IF Rate Code BORA & Fixed Rate F. Rate 3.87 Curr EUR & Block Code III Curr EUR & Block Code IIII Curr EUR & Block Code III Curr EUR & Block Code IIII Curr EUR & Block Code III Curr EUR & Block Code I	Title Cntry/Rgn US	Member No.	Group	±
Source <ul> <li>Email</li> <li>Aduits (Tax Free)</li> </ul> More Fields         Arrival 09-18-06       Monday <ul> <li>Res. Type</li> <li>CHEC I Corporate</li> <li>Source</li> <li>Departure 09-18-06</li> <li>Monday</li> <li>Aduits (Tax Free)</li> <li>Disc. Antl.</li> <li>96</li> <li>Booking Method</li> <li>Source</li> <li>ND. d (Rms. 1</li> <li>Quote ID</li> <li>Res. Type</li> <li>CHEC I Corporate</li> <li>Source</li> <li>ND. d (Rms. 1</li> <li>Quote ID</li> <li>Res. To Date 10</li> <li>Payment MC</li> <li>Source</li> <li>Proval Amt</li> <li>Operative Source</li> <li>Source</li> <li>Proval Amt</li> <li>Operative Source</li> <li>Source</li> <li>Monday</li> <li>Monday</li> <li>Source</li> <li>Source</li> <li>Source</li> <li>Soure</li> <li>Source</li> <li>Soure</li></ul>	Language E I VIP	🗶 Member Lvl.	Contact	±
More Fields         Artival (99-18-06       Monday         Nights 4       Day Use         Departure (99-18-06       Monday         Aduits 1       Child 0         Aduits 1       Child 0         Aduits 1       Child 0         Room Type       POKB #         Room 4090       DNM F         Rate Code BORA #       Fixed Rate F         Block Code #       ETA *10:39 PM         Suite Wth       Card Present F         Ourments       #         Book Code       #         Day Oronal Company       A         Market Code:       #         Day Oronal Company       #         Book Code       #         Day Oronal Company       #         Block Code       #         Day Oronal Company       #         Book Code       #         Day Oronal Company       #         Day Oronal Company       #         Day Oronal	Source ±	Email	Adul	is (Tax Free)
Arrival       09-18-06       Monday       Market       Corporate       000         Nights       4       Day Use       Market       Corporate       Disc. Amt.       %6         Departure       09-18-06       Monday       Aduits       Child 0       Reason       #         No. of Rms.       1       Quote ID       Parment MC       #       monday       Specials       #         Room 4090       #       DNM       Fixed Rate F       .       .       Guest Balance       000         Rate Code       BORA       #       Fixed Rate F       . <td>More Fields</td> <td></td> <td></td> <td></td>	More Fields			
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No. of Rms. 1 Quode ID Porter Arrester Management MC Subject From Management	Adults 1 Child 0	Booking Method	• Featur	res 📃 🐮
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Room       0000       ±       DNM       Exp. Date       08/21         Rate Code       BORA       ±       Fixed Rate       ✓       Guest Status       Eter. Inv.       Eter. Date       08/21         Rate Code       BORA       ±       Fixed Rate       ✓       Approval Code       Ø<		Credit Card No		
Rate Code BORA *       Fixed Rate 7         Rate Code BORA *       Fixed Rate 7         Rate 3.87       Curr. EUR *         Packages *       Approval Antt.         Block Code       *         ETA *10:39 PM         Suite With Confirmation       Card Present 7         Coupon       *         Coupon       *         Window         Coupon       *         Exp. Date (bit2ct)       *         Management       Card Present 7         Ownership       Reservations         Prot Desk       Cashering         Company       *         Management       *         Management       *         Management       *         Constanting       Company         Management       *         Constanting       Agent         Management       *         Management       *         Management       *         CostsNO - Payment Methods       *         Management       *         Management       *         Management       *         Management       *         Management       *		Credit Card No.	ttem	
Rate Code BURA       Image: Supersonal Code BURA       Image:		Exp. Date 08/2	Cuest Stat	
Rate       3.87       Curr. EUR Approval Code       Preterences       Image: Company Compan	Rate Code BORA ± Fixed Rat	e I™ . CRS No. 6530	0/9865 Breference	
Packages	Rate 3.87 Cur	r. EUR 🛓 Approval Code	Preference	±
Block Code   ETA *10:39 PM Suite With Confirmation Card Present Coupon C	Packages	Approval Amt.	0.00 C/O Tim	11:07 PM
Window         Image: Confirmation Figure 1         Image: Confirmation No	Block Code ETA *10	):39 PM Suite With	Coupe	on III
Window         Image: Determine				
Image: State       Image: State <td< td=""><td>Window</td><td></td><td></td><td></td></td<>	Window			
Image: Difference of the served on	6			and the second
Exit     Ownership     Reservations     Front Dask     Cashering     Comp Accounting     Rooms Management     AR     Commissions       Artwals     CASINO - Artivals - Confirmation No.     Imagement     Agent     Imagement     Imagement     Agent     Imagement     Imagement <td></td> <td></td> <td></td> <td></td>				
Artvals Artval	Exit Ownership Reservatio	ns Front Desk Coshiering	Comp Rooms	AR Commissions
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Vindow Pay Type     Credit Card     Explinit Ame     Member Type     Company     Heitory       Window Pay Type     Credit Card     Explinit Ame     Name     Member No.     Contact     Image: Company     Image: Company </td <td>CASINO - Reserv</td> <td>ation ! DUE IN</td> <td></td> <td></td>	CASINO - Reserv	ation ! DUE IN		
Window Pay Type     Credit Card     Exploy     Kitowa     R No.     Swind     Contact     #       Window Pay Type     Credit Card     Exploy     Adults (Tax Free)     Image: Credit Card Card     Image: Credit Card Card Card Card Card Card Card Card	Pre Register Name	N	Phone Ag	ent
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2         Credit card was entered manually         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1 AMEX 1	OPERA		+1 History
3         -	2	Credit card was entered	manually.	
4	3			
5         C         C           6         0	<b>2</b>	QK	0	
P         C         C           7         7         0	a 5			
	0 7	+ +		
Puis Description Armunit	8			
	Rule Description : Amount			QK

### Merchant Initiated Transaction (MIT) Flag

When **Payment Service Directive** is active, the information sent from OPERA V5 to the interface will include the MIT flag in the 'PaymentsMethod' tag when sending payments to the Payment Service Provider for approval.

MIT Flag options include an MIT flag in the "PaymentMethod" tag indicating:

- MIT1: NO SHOW used when processing credit card payment for NO SHOW fees.
- MIT2: PRE-PAYMENT used when processing credit card PRE-PAYMENT for deposits.
- MIT4: DELAYED CHARGE used when processing credit card payments for POST-STAY CHARGES.



## Configuring the Workstation

If the workstation is connected to a Chip and Pin terminal, the **Chip & Pin Device Available** check box must be enabled.

- 1. In OPERA | Setup | Workstations | edit your workstation.
- Select the Chip & Pin Device Available check box to enable the device for this workstation (this allows the generic CP Payment Type to display in the LOV for a reservation).

🤠 FSDH - Workst	ations	
Station	Re FSDH - Workstations - Edit	Search
Station NPLLOANER.F NPLTECHDB3 OPERADEMOS OPERAKENNE	Swipe Reader Attached . Chip & Pin Device Available . Reader No ±	
OPERALAB-3.F OPERASERVE PADMESH.FT.I	Attach Print Tasks from Default Key Encoder configured	Print Tasks
PC307225103 PDHAS.FT.MIC	QK Close	Edit
PK2.143741396 RAMNATH.FT.MI	pk2.143741396 CROS.COM.1115142 ramnath.ft.micros.com.111514275	

## Configuring the Hotel Property Interface (IFC8) Instance to the OPERA Hotel Property Interface (IFC)

To configure the link between the interfaces:

- 1. In the **Hotel Property Interface**, go to the **PMS1** tree and then select **OPERA** in the application layer.
- 2. Enter the **OPERA IFC** number in the parameter IfcNum value.

8 Ifc8 Setup for "OPERA"			×
🛄 XML Configuration	Parameter	Value	
IFC1	lfcNum	2 1	
Printer Configuration	IfcAuthKey	•	
Monitor Properties	CcDecSeparator	<b>e</b> .	
Application Layer	CoMerchantId	•	
	MaxTrack2Length	-1	
Protocol Layer	Enable_UTF8	🕑 N	
General Properties			

You can find the OPERA IFC number in OPERA on the IFC Configuration of the related Hotel Property Interface (IFC) (Row\_ID).

OPERA Configuration[Version 5.0, Service Pack 5.0.04.02]	EU - Opera Demo Hotel, Small	14.11.14
¥indow		
- 150 Mail Configure Edit		
nterface # 21		
IFC Type EFT Product Code MFG	Menu type 📃 土 Menu name	
Name EFT Chip&Pin	Machine SMIITHGIN	Controller Port 5501
Interface ID CC01 IFC8 Product Code XML_MFG	Program c:\fidelio\ifc8\ifc8.exe	Vnc Port 5800

ML Configuration	Parameter	Value
IFC1	IfcNum	❷ 21
Printer Configuration	IfcAuthKey	<b>e</b>
Monitor Properties	CcDecSeparator	<b>9</b> .

- 3. Go to the **PMS1** tree in the **Physical Layer**.
- 4. Enter the port number into Parameter value Port. This is the port IFC8 uses to communicate with the OPERA IFC controller.
- 5. Select Enter and Apply to re-initiate IFC8, and click Save.

🚯 Ifc8 Setup for "Physical Layer"			×
ML Configuration	Parameter	Value	
IFC1	Layer1	I TCP	
Printer Configuration	CheckState	🕑 Y	
	Port	🧕 <mark>5001</mark>	
Application Layer	Param	🞴 LOCAL	
Protocol Layer			
11			

## Configuring Authentication for the Hotel Property Interface (IFC8) with OPI

You must secure the connection between OPI and Hotel Property Interface (IFC8) by exchanging encryption keys at startup. This authentication key must be defined by OPI. The corresponding key must be entered in the Hotel Property Interface (IFC8) configuration.

1. In the Hotel Property Interface (IFC8) configuration, go to the **IFC1** tree, and then in the **Application Layer**, select the **XML\_OPI** option.

8 Ifc8 Setup for "XML_OPI"			×
XML Configuration	Parameter	Value	
IFC1	DoublePostingSize	<b>2</b> 0	
Monitor Properties	IfcAuthKey	<u>.</u>	
Application Layer	EFT_RequestTimeout	2 80%	
XML_OPI	DLS_RequestTimeout	280%	
Protocol Layer	DataResyncOption	🥑 O	
Physical Layer	SingleThread	🥑 N	

2. Copy the generated key from Configuring OPI - OPERA merchant step 3.

8 Ifc8 Setup for "XML_OPI"		×
XML Configuration	Parameter	Value
	DoublePostingSize	0
Monitor Properties	IfcAuthKey	
Application Layer	EFT_RequestTimeout	80%
Protocol Layer	DLS_RequestTimeout	80%
	DataResyncOption	<b>2</b> 0
Physical Layer	SingleThread	<b>2</b> N
General Properties		
IfcAuthKey		JziJBw4QTb4
Parameter	Value	
DoublePostingSize	0	
IfcAuthKey	FidCrypt0S/GB	ZbW5SNDQ0I1
EFT_RequestTimeout	2 80%	
DLS_RequestTimeout	2 80%	
DataResyncOption	0	

3. Copy this string into IFC8 Parameter **IfcAuthKey** value field.

- 4. Go to IFC1 tree and select the Physical Layer.
- 5. Enter the port number in port value. This is the same port that was configured in OPI.

8 Ifc8 Setup for "Physical Layer"			×
XML Configuration IFC1 Monitor Properties Application Layer Protocol Layer Physical Layer TCP PMS1	Parameter Layer1 CheckState Port Param	Value          Image: Constraint of the second sec	
🗌 🦾 🐤 General Properties			

- 6. Click **Apply**, IFC8 reinitiates.
- 7. The **IfcAuthKey** value now shows an encrypted key and the entered string is now encrypted by IFC8.
- 8. Click Save, and click OK to close the IFC8 Configuration form.

IFC8 now connects with OPI and OPERA IFC Controller. To verify IFC8 successful status, confirm that all 6 status indicators are green.

[IFC8 V13.3.1] -> XML	_OPI - Oracle Payment Interface	- 🗆 X
File Properties Info		
[IFC1] -> XML_OPI/TCP=	5005:LOCAL	
="5.6.10" DefRef3="8.13.3. [03.18/07:01:29]#1/0 <- <l ="5.6.10" DefRef3="8.13.3. Cryptogram="FidCryptRBJ9v kmqMV/MEwGolgkU8o4xAko Y0sXy2DA4+lz2QcGJc="/&gt; [03.18/07:01:32] <messlvl3 [03.18/07:01:32] <messlvl3 [03.18/07:01:32]#1/0 &lt;- <l [03.18/07:01:32]#1/0 &lt;- <l [03.18/07:01:32]#0/0 -&gt; <l< td=""><td>"/&gt; inkPmsConf Date="200318" Time="( " kBO/j6lijq27sxUgsxRvsfpDMWqVu: W5ic+ko/frSy3VoFOFp/aaagplbtdv  ChangeLinkState:Alive Monitor security: "Mask security r ikAlive Date="200318" Time="0701: inkAlive Date="200318" Time="0701; ikAlive Date="200318" Time="0701;</td><td>080130" Pathid="1" DefRef1="154" DefRef2 acJBdvD5CiDyO4d0juWwyA+q5RPZh5kLqv V+vtfj9tQuGnbzfxojfRqbbplRPAsNsMeWdX relevant fields for all schemas" 32"/&gt; 132"/&gt;I 132"&gt;I 32"&gt;I 32"&gt;</td></l<></l </l </messlvl3 </messlvl3 </l 	"/> inkPmsConf Date="200318" Time="( " kBO/j6lijq27sxUgsxRvsfpDMWqVu: W5ic+ko/frSy3VoFOFp/aaagplbtdv  ChangeLinkState:Alive Monitor security: "Mask security r ikAlive Date="200318" Time="0701: inkAlive Date="200318" Time="0701; ikAlive Date="200318" Time="0701;	080130" Pathid="1" DefRef1="154" DefRef2 acJBdvD5CiDyO4d0juWwyA+q5RPZh5kLqv V+vtfj9tQuGnbzfxojfRqbbplRPAsNsMeWdX relevant fields for all schemas" 32"/> 132"/>I 132">I 32">I 32">
Ref#:0/0	Link:Alive	Comm:Sync
[PMS1] -> OPERA/TCP=5	001:LOCAL	
<pre> ll [03.18/07:01:29]#1/0 =&gt; <lii [03.18/07:01:29]#1/0 &lt;- <l [03.18/07:01:29]#0/0 -&gt; <l DefRef1="192[192" DefRef2 [03.18/07:01:29]#0/1 &lt;= <lii DefRef1="192[192" DefRef2 ="8.13.3.1"/&gt; [03.18/07:01:32]#0/0 -&gt; <l [03.18/07:01:32]#0/1 &lt;= <lii [03.18/07:01:32] </lii </l </lii </l </l </lii </pre>	IKAlive Date="200318" Time="07012 inkAlive Date="200318" Time="0701 inkPmsConf Date="200318" Time="0 ="5.6.10" DefRef10="UKOPI" Crypt IkPmsConf Date="200318" Time="0 ="5.6.10" DefRef10="UKOPI" Crypt inkAlive Date="200318" Time="0701 IkAlive Date="200318" Time="0701 > ChangeLinkState:Alive	29"/> 129"/>II 080130" Pathid="1" RoomPayMethod="" ogram="FidCryptDI(0;94"/>II 80130" Pathid="1" RoomPayMethod="" ogram="FidCryptDI(0;94" DefRef3 131"/>II 31"/>
Ref#:0/0	Link:Alive	Comm:Sync
Busi V13.3.1 Action V13.3.1	ComEx V13.3.1 C:\Fide	lio\IFC8\Ifc8Config.Xml 7:02:09 AM

## Perform Bulk Tokenization

1. Test Connection. This is done from the **Utilities** Module.



2. From the Utilities module, select the Convert Vault CC Information option.



#### 3. Click Cfg/TestDB.

Credit Card Vaul	t Conversion Status				
Table Name	Total Records	# Processed	% Completed	Status	Cfg/TestDE
					Log
					Test Client
					Ere Auth
					C/I Auth
					Euture CC
					Convert CC
					Close

This **Cfg/TestDB** option will perform a background check of the settings needed for Oracle Wallets. The next screen displays the existing Vault settings from Application Settings or if it is blank user can add the settings and it will update the Application Settings.

Table Name	Total Records	# Processed	% Completed	Status	Cfg/Test
					Log
Setup Pa	arameters	÷.	121	8	t Clien
Credit	Credit Card Vault Time	out 90	_		e Auth I goth
					ure CC
					1000
		~ 1 ~	teres 1		Wet C

4. Click OK and the Certificate Location screen appears. The properties within the same chain that have an active Credit Card IFC will display. This is to indicate where the p12 is located and its password to be used in the Wallets. Enter a path where the p12 exists and the DB can access.

Default C	ertificate Password	<u>Apply</u>
lesort	Source Certificate Location	Certificate Password
RESDE3		
SANDEEP		
RESDE		
<b>ARRIOTT</b>		
CURRENT		

- a. Select Default Source Certificate Location.
- b. Click Apply and all the data is moved to the Resort column.
- c. Click **OK** and the process is initiated.
- If the DB cannot access where the p12 is located the log will indicate a message: Unable to copy file/prop46logs/ewallet.p12: Source file does not exist.
- d. Click Cfg/TestDB button to navigate back to the Credit Card Vault Conversion screen. The Test Client option is now available.
- e. Click **Test Client** (this will verify that the certificate is loaded on this machine where OPERA is accessed). A credit card number is needed to verify that the token can be retrieved successfully. Once successful, the Vault Conversion process can be run.

"Passed" test will activate the **Pre auth**, **C/I auth**, **Future CC** and **Convert CC** options. If the test fails, refer to HTTP \_TRANSACTIONS\_LOG to check the reason for the failure.

FSDH - Credit Card Va	ult Conversion				
Credit Card Vault	Conversion Status				
Table Name	Total Records	# Processed	% Completed	Status	Iest
					Passed
				-	Ere Auth
					Crit Auth
					Euture CC
					Convert CC
					Close

- Pre Auth
  - The Pre Auth option is used for instances where the hotel has reservations which contain authorizations on them but are not yet checked in. This option is available when the **Reservations>CC Pre Check in Authorization** application parameter is set to Y and a successful Test of the Credit Card Vault Web Service URL has passed.
  - Click Pre Auth option to run through memo authorizations for reservations that are authorized and are not yet checked in. At the end of the process, a message is displayed stating, "Authorization for Pre Checked In guests have been completed successfully.
  - Click OK.

ę	FSDH - Credit Card V	ault Conversion	
	Credit Card Vau	t Conversion Status	
	Table Name	Opera	uests have been
		completed successfully.	Ere Auth C/l Auth
			Euture CC
			Convert CC
			Çlose

• Convert In house guest (C/I Auth) Credit Cards

#### NOTE:

The Pre Auth and C/I auth functions utilizes the wallets on the DB server and not local client certificates.

This is the first conversion done. This will convert credit cards attached to reservations in house currently into tokens. This needs to take place first so that the hotel operations are not adversely affected by the conversion process. If in house guest is not converted, then there will be issues checking the guest out of the hotel.

FSDH - Credit Card Va	ault Conversion			
Credit Card Vault	Conversion Status	~		
Table Name	Total Records	# Processed % Complete	ad Status	Iest
				Passed
				Pre Auth
				C/I Auth
				Euture CC
				Convert CC
				Close

- Click C/I Auth to run through the checked in credit card authorizations for all properties. At the end of the process, a message is displayed stating, "C\I Auth transactions are done" to notify the user it has completed.
- Click OK.

🙀 FSDH - Credit Card Va	ault Conversion	
Credit Card Vault	Conversion Status	
Table Name	Total F Opera	Test
	Cil Auth transactions are done.	Passed
	V	Pre Auth
	QK	CllAuth
		Euture CC
		Convert CC
		Close

#### NOTE:

Inform Property(s) that they can now resume full PMS operations. However, OXI still needs to stay disabled.

Convert Future Guest Credit Cards. Click Future CC.

FSDH - Credit Card Va	ault Conversion				
Credit Card Vault	Conversion Status				
Table Name	Total Records	# Processed	% Completed	Status	Iest
					Passed
					Pre Auth
					C/LAuth
					Future CC
					Comunit CO
			-		Convent CC
L					Close

Populate the parameters as needed.

- Resort: This allows you to choose a specific resort to convert in a multi property environment. Leave blank if you are working on a single property or want to convert all resorts in the schema.
- Arrival To: This is the arrival date you want the system to convert out to. The next business date should suffice unless you are working in a multi property environment where the conversion might take several days.

FSDH - Credit Card V	ault Conversion		-	
Credit Card Vaul Table Name	t Conversion St	Convert Future Guest Credit Cards	Status	Test Passed
		Arrival To		Ere Auth C/I Auth
		QK Close		Euture CC Convert CC
	-	1 1		Close

- Once the parameters are populated, click OK.

		PM AT VE		
FSDH - Credit Card Va				
0	0			
Credit Card Vault	Conversion St	Convert Future Guest Credit Cards		Test
Table Name	Total		Status	Test
				Passed
	<u> </u>	Resort ±		
				Pre Auth
		Arrival To 09/27/11		<u></u>
				C/I Auth
				Future CC
		QK Close		Equare 00
				Convert CC
				Class
-				

 You are prompted with a question concerning whether you have converted all pre auth and in house guest. If you have completed this step click Yes, if not click No and go to the previous step.

ult Conversi	on
Conversion	Status
Opera	× s
_ \rm 🚹	Have you done the Pre Auth and C/I Auth transactions?
	Yes No

- You will receive one more prompt, if you are ready to continue click Yes.

Credit Card Va	ult Conversion Status	
Table Name	Opera This will start converting the Credit Card Data. Do y want to proceed? Yes No	you Is Passed Person Passed Critication Cr
		Euture CC Convert CC Qlose

- Once the conversion is complete, you will view the following message.



Credit Card Vault Conversion Status							
Table Name	Total Records	# Processed	% Completed	Status	Iest		
NAME\$_CREDIT_CARD	1	1	100	COMPLETED	Passed		
		Conversion is co	mplete.		Pre Auth Crl Auth Euture CC Convert C Close		

#### **Credit Card Vault Conversion Status**

- **Table Name**: Name of the table that is currently having the credit card information converted.
- **Total Records**: Total records to be converted in this table.
- **# Processed**: Number of records that have been processed for the table.
- % Completed: Displays the percentage complete for converting the credit card information in the listed table.
- **Status**: Displays the status of the conversion, Running, Complete, or Failed.
- Credit cards are converted to tokens at a rate of 50 cards per batch.
- Convert remaining CC #'s

#### NOTE:

This will convert all the remaining Credit Cards which are stored in OPERA.

#### • Click Convert CC.

<ul> <li>Credit Card Vault Conv</li> </ul>	ersion Status				1 mart
Table Name	Total Records	# Processed	% Completed	Status	lest
NAME\$_CREDIT_CARD	1	1	100	COMPLETED	Passed
					Ere Auth
					C/I Auth
					Euture Co
				-	Convert C
					Close

- You will receive a prompt requesting if you have completed the conversion of the pre auth and in house guest.
  - Yes Initiates the conversion for the rest of the database.
  - $\circ$  No Takes you back to the form to allow you to run the pre auth and C/I Auth process.

Credit Card Vault Co	onversion	Status	Test
Table Name	Opera	× 8	Iest
NAME\$_CREDIT_CARD		Have you done the Pre Auth and C/I Auth transactions?	Passed
	-		Ere Auth
	-	Yes No	C/I Auth
			Euture CC
			Convert CC
			Close

 You will receive another prompt requesting if you want to proceed. Click Yes if you want to proceed.

onversio	on				-		
wersion	Status						_
Opera						×IS	
	This will start want to proce	converting ed?	the Cre	dit Card D	ata. Do y	ou IPLE	ETI
	[	Yes	No	]			
							_

 The grid will start an update as the conversion proceeds. There will be a flashing "RUNNING" box as the process proceeds, and with each flash the grid will update the status.

Credit Card Vaut Conversion Status			Test		
Table Name	Credit Card Vault Conversion Utility (2.8,2.0)	Status	Teau		
NAME\$_CREDIT_CARD		COMPLETED	Passed		
	-6	-	Pre Auth		
	Retrieving Unique ID. Please wait		C/I Auth		
			Euture CC		
			Convert CO		
			Close		

#### **Credit Card Vault Conversion Status**

- Table Name: Name of the table that is currently having the credit card information converted.
- **Total Records**: Total records to be converted in this table.
- **# Processed**: Number of records that have been processed for the table.
- % Completed: Displays the percentage complete for converting the credit card information in the listed table.
- Status: Displays the status of the conversion, Running, Complete, or Failed.
- The conversion processes 50 cards per transaction. Click **OK**.

FSDH - Credit Card Vault Con	version			~		
Credit Card Vault Conve	rsion Status					Test
Table Name	Total Rec 🛛	Onera		pleted	Status	
NAME\$_CREDIT_CARD	6		Conversion is complete		COMPLETED	Passed
STAGES_PROFILE_CARDS	0	Ŷ			COMPLETED	Pre Auth C/I Auth
						Euture CC
						Convert Co
						Close

## Certificate Import using Microsoft Management Console

1. Find and open mmc.exe from Start menu.

Programs (1)
👼 mmc.exe
♀ See more results
Log off
A Start

2. Go to File | Add or Remove Snap-ins, add certificates to Selected snap-ins, and click OK.

na in	Vandar	ิส	Generale Reat	Edit Eutopoines
ActiveX Control	Microsoft Cor	7	Certificates - Current User	Edic Extensions
Authorization Manager	Microsoft Cor			Remove
Certificates	Microsoft Cor			
Component Services	Microsoft Cor			Move Lio
Computer Managem	Microsoft Cor			
Device Manager	Microsoft Cor	1		Move Down
Disk Management	Microsoft and	Add >		
Event Viewer	Microsoft Cor			
Folder	Microsoft Cor			
Group Policy Object	Microsoft Cor			
IP Security Monitor	Microsoft Cor			
IP Security Policy Ma	Microsoft Cor			
Link to Web Address	Microsoft Cor	-1		Advanced
Local Users and Gro	Microsoft Cor	1	1	
cription:				
- Carbification and in alla	we you to browce th	a contante of the	cartificate stores for yoursalf a carvin	a or a computer

3. Expand Certificates, expand Personal or Trusted Root as required, and select **Certificates**.



4. Right-click Certificates, select All Tasks, and then select Import.

🚡 Console1 -	[Console Root\Certificates - Current Us	er\Personal\Certificates]	
🚡 File 🛛 Acti	on View Favorites Window He	lp	
🗢 🔿 🖄	🖬 📋 🗟 😹 🔽 🖬		
Console R	oot	Issued To	Is
a 🙀 Certific a 🧮 Per	sates - Current User sonal	2 198.51.100.1 2 203.0.113.1	1
	All Tasks 🕨	Request New Certificate	Ν
	View  New Window from Here	Import Advanced Operations	•
	New Taskpad View		
۲ 🗖 L	Refresh		
	Export List		
	Help		
⊳ 🧮 Sm	art Card Trusted Roots		

- On the Certificate Import Wizard Welcome page, click Next.
- Browse to the location of the certificate file, and click Next.
- If required enter the password relevant to the certificate you are importing, and click **Next**.
- If the import is successful, then the certificates Common Name will be listed under the folder that was selected during import.

See the below matrix for information on what certificates are required to be imported and to which locations.

#### For OPERA V5.5.0.24 and lower

Applications	Certificate Name + Type	Import Location
OPERA Client – Imported onto every workstation that will key in CC details	MICROS_OperaToken.pfx	<ul> <li>Certificates – Current User – Personal</li> <li>Certificates – Current User – Trusted Root Certification Authorities</li> <li>Certificates (Local Computer) – Personal</li> <li>Certificates (Local Computer) - Trusted Root Certification Authorities</li> </ul>
OEDS – Imported for Tokenization	MICROSOperaToken.cer	<ul> <li>Certificates – Current User – Personal</li> </ul>
	CHAIN.pfx	

Applications	Certificate Name + Type	Import Location
	CHAIN.cer	<ul> <li>Certificates – Current User – Trusted Root Certification Authorities</li> </ul>
		Certificates – Current User – Intermediate Certification Authorities
		Certificates (Local Computer)     – Personal
		Certificates (Local Computer)     Trusted Root Certification     Authorities
		Certificates (Local Computer) Intermediate Certification Authorities
OXI - Imported for Tokenization	MICROS_OperaToken.pfx	Certificates – Current User –     Personal
	MICROSOperaToken.cer	Certificates – Current User –
	CHAIN.pfx	Trusted Root Certification Authorities
	CHAIN.cer	Certificates – Current User – Intermediate Certification Authorities
		Certificates (Local Computer)     – Personal
		Certificates (Local Computer) Trusted Root Certification Authorities
		Certificates (Local Computer)     Intermediate Certification     Authorities
		Certificates Service (Opera interface for XXX) on Local
		<ul> <li>Certificates Service (Opera interface for XXX) on Local Computer - Trusted Root</li> </ul>
		<ul> <li>Certification Authorities</li> <li>Certificates Service (Opera interface for XXX) on Local</li> </ul>
		Computer - Intermediate Certification Authorities

#### For OPERA V5.5.0.25 and higher

Applications	Certificate Name + Type	Import Location
OPERA Client – Imported onto every workstation that will key in CC details	MICROSOperaToken.cer	<ul> <li>Certificates (Local Computer) - Trusted Root Certification Authorities</li> </ul>
OEDS – Imported for Tokenization	MICROSOperaToken.cer	<ul> <li>Certificates (Local Computer) - Trusted Root Certification Authorities</li> </ul>
OXI - Imported for Tokeniszation	MICROSOperaToken.cer	<ul> <li>Certificates (Local Computer) - Trusted Root Certification Authorities</li> <li>Certificates Service (Opera interface for XXX) on Local Computer – Personal</li> <li>Certificates Service (Opera interface for XXX) on Local Computer - Trusted Root Certification Authorities</li> <li>Certificates Service (Opera interface for XXX) on Local Computer - Intermediate Certification Authorities</li> </ul>

# Configuring OPI for Hotel Mobile or OWS/Kiosk Setup in OPERA

1. Go to OPERA Configuration | Setup | Property Interfaces | Interface Configuration | edit OPI Interface.



UK - Interface Status			
Resort UK	▲ Interface Type .		ID Search
Interfaces Schema Err	ors Messages Fa	iled Messages Controller Re	gistry Reinit All
⊡-UK	Resort Interface N	lame IFC	TypStatus
LWFIVM04614	UK UK-OPI-E	FT EF	RUNNING Stop All
	UK UK-MICRO	DS-POS PO	S STOPPED Start
			Stop
			Сору
			<u>Upgrade</u>
			<u>M/C Se</u>
			<u>New</u>
			Edit
			Delete
			<u> </u>

2. Select New.

IFC Web Configuration - Edit				
Interface # 1				
IFC Type EFT 👱 roduct Code OPI	Menu type	. ∎ Menu nam	ne	icense Code 1
Name UK-OPI-EFT	Machine WFIVM	104614	Controller Port 5501	Version 13.8.0
Interface ID OP01 8 Product Code XML C	OPI Program c:\fideli	o\ifc8\ifc8.exe	Vnc Port 5800	Cashier 996 ±
🖾 Active 🗌 Display I 🗐	Auto s Path ID 1	Timeout 270	Isg Expires after	Use Data Thro
XML Configuration Gener	ral Class of Service	Import Rooms	Workstation Setup	Translation Custom Data
Termina	al	Encoder # L	ocation	Туре
WFIVM	04614	01 V	NFIVM04614	R
DEFAU	LT	01 C	DEFAULT	R
				New
				Edit
				↓ Delete

3. Select the OPERA Workstation and enter the Encoder # provided by PSP Vendor.

IFC Web Configuration - Edit						
Interface # 1						
IFC Type EFT I roduct Co	de OPI M	lenu type	▲Menu name		icense C	ode 1
Name UK-OPI-EFT	r	Machine WFIVM04614	4 <b>-</b> Cor	ntroller Port 550	1 Ver	sion 13.8.0
Interface ID OP01 8 Product Co	de XML OPI F	Program c:\fidelio\ifc8	Nifc8.exe 💌	Vnc Port 580	0 Cas	hier 996 🛓
🗹 Active 🗖 Displa	y I 🗆 Auto s	Path ID 1	eout 270 Isg	Expires after		Use Data Thro
XML Configuration	General	Class of Service	port Rooms Wo	orkstation Setup	Translation	Custom Data
	Terminal		Encoder # Locat	tion	-	Гуре
	WFIVM04614		01 WFIV	/M04614	1	R
	DEFAULT					२
			station Setup - New	V		
		Termina	al		•	_    _
		Encoder	#			
		Locatio	n			New
		Tur				Edit
		тур	e Regular Encoder		-	Delete
			OK	Cancel		
_						

- 4. Click OK to save.
- 5. Next go to OPERA Configuration | **Setup | Workstations** | to edit your workstation to allow for CP to be used from that workstations (Unless this was done prior).
- 6. Select the **Chip & Pin Device Available** check box to enable the device for this workstation (this allows the generic CP Payment Type to display in the LOV for a reservation).

Station _	15784839 - Workstations - Edit Searc
	Station ORACLE4474
Station	Description ORACLE4474
OHELIATC win	e Reader Attached C Chip & Pin Device Available 🗸 📶
IOHELIATC	Deader No.
NOMAD-FD	
PHYRI-SAI	
ZOMBET-FIPC	Scanner Attached 🗌 .
DAHU5.HHE ttac	h Print Tasks from Print T
OGTSAPP5	Key Encoder 1 configured
DEDAGTE	
JPERA91E -	
JPERA91E -	

## 4 Upgrading the OPI

VERY IMPORTANT: Read and follow the upgrade directions.

#### NOTE:

- OPI upgrade functionality supports:
  - Upgrading OPI 19.1 (include patch releases) to OPI 20.4
  - Upgrading OPI 20.1 (include patch releases) to OPI 20.4
  - Upgrading OPI 20.2 (include patch releases) to OPI 20.4
  - Upgrading OPI 20.3 (include patch releases) to OPI 20.4

## Upgrading OPI 19.1.0.0 to 20.4.0.0

- 1. Right-click OraclePaymentInterfaceInstaller\_20.4.0.0.exe file and select Run as Administrator to perform an upgrade.
- 2. Select your language from the drop-down list, and click **OK**.
- 3. Click Next.
- 4. Click OK.

Oracle Payment Interface	- InstallShield Wizard	×
く	Welcome to the InstallShield Wizard for Oracl Payment Interface	e
	The InstallShield Wizard will install Oracle Payment	
Oracle Payment Int	terface - InstallShield Wizard X	
i This ins 20.4.0.0	tall will perform a major upgrade from 19.1.0.0 to	
	ОК	
	< Back Next > Can	cel

5. Click Next.

Ensure all the prerequisites for the OPI installation are met.

Oracle Payment Interface - InstallShield Wizard	×
OPI Prerequisites	
Following is some information related to your system	n:
Current Date & Time 08-04-2024 13:08:33 Free space on drive C: 169515 MB Extended memory: 16776672 K The Schema feature has been previously installed The Services feature has been previously installed. Selected language: English/1033. Computer default language: English/1033. This is a 64 bit Operating System. OS version Windows Server 2022 Standard (No Se OS version 6.3 A version of OPI has been found. 19.1	rvice Pack)
<	>
InstallShield	
	< Back Next > Cancel

- 6. Choose a Destination Location. Accept the default installation location or click **Change**... to choose a different location.
- 7. Click Next.

The Ready to Install the Program screen appears.

- 8. Click **Install** to begin the installation.
- 9. Click OK.

Oracle Payment	Interface - InstallShield Wizard	×
Setup Status		
The InstallShi	eld Wizard is installing Oracle Payment Interface	
	Oracle Payment Interface - InstallShield Wizard × Database upgrade operation was successful.	
	ОК	
InstallShield ———	[	Cancel

- **10.** Enter the **Host** and **Port** that should be used to connect to the OPI Config Service for the Merchant Configuration.
- **11.** Once the installation is complete, the installer will prompt for a reboot of the host machine.



12. Click Finish.

## Upgrading OPI 20.1.0.0 to 20.4.0.0

1. Right-click OraclePaymentInterfaceInstaller\_20.4.0.0.exe file and select Run as Administrator to perform an upgrade.



#### 2. Click Yes.

📧 Oracle Payment Interface - In	istallShield Wizard	×
ی ا	Resuming the InstallShield Wizard for Oracle Payment Interface Wizard will complete the installation of Oracle Payment	
	Incerrace on your computer. To continue, dick ivext.	
set	up is searching for installed features	
	< Back Next > Cancel	

3. Click Next.

Setup is searching for installed features.



Oracle Payment Interface - InstallShield Wizard X
Setup Status
The InstallShield Wizard is updating (20.1.0.0) of Oracle Payment Interface to version 20.4.0.0
Generating script operations for action:
InstallShield

4. Click Next.

The Install wizard is updating from OPI 20.1 to version 20.4.



5. Click OK.

Oracle Payment Interface - InstallShield Wizard		
S.	Update Complete The InstallShield Wizard has updated Oracle Payment Interface to version 20.4.0.0.	
	< Back Finish Cancel	

6. Click Finish.

## Upgrading OPI 20.2.0.0 to 20.4.0.0

1. Right-click OraclePaymentInterfaceInstaller\_20.4.0.0.exe file and select Run as Administrator to perform an upgrade.



2. Click Yes.

💽 Oracle Payment Interface - I	InstallShield Wizard	×
خ	Resuming the InstallShield Wizard for Oracle Payment Interface	
	Wizard will complete the installation of Oracle Payment Interface on your computer. To continue, click Next.	
5	etup is searching for installed features	
	< Back Next > Cancel	

3. Click Next.

Setup is searching for installed features.

Oracle Payment Interface - InstallShield Wizard	$\times$
Setup Status	
The InstallShield Wizard is updating (20.02.000) of Oracle Payment Interface to version 20.4.0.0	
C:\OraclePaymentInterface\v20.2\Schema\iquibase.jar	
InstallShield	
Cancel	]

4. Click Next.

The Install wizard is updating from OPI 20.2 to version 20.4.



5. Click OK.

Oracle Payment Interface - InstallShield Wizard		
Rest of the second seco	Update Complete The InstallShield Wizard has updated Oracle Payment Interface to version 20.4.0.0.	
	< Back Finish Cancel	

6. Click Finish.



## Upgrading OPI 20.3.0.0 to 20.4.0.0

1. Right-click OraclePaymentInterfaceInstaller\_20.4.0.0.exe file and select Run as Administrator to perform an upgrade.



2. Click Yes.

📧 Oracle Payment Interface - Ins	stallShield Wizard	×
	Resuming the InstallShield Wizard for Oracle Payment Interface Wizard will complete the installation of Oracle Payment Interface on your computer. To continue, click Next.	
Setu	ip is searching for installed features	
	< Back Next > Cancel	

3. Click Next.

Setup is searching for installed features.

4. Click Next.

The Install wizard is updating from **OPI 20.3** to version **20.4**.



5. Click OK.



6. Click Finish.
# 5 OPERA Folio Print Receipt Setup for OPI

### Setup in OPERA PMS

As part of the standard OPERA OPI configuration, the installers can follow the below process for updating the customers folio and receipt templates to show the OPI transaction details.

### **OPERA Folio Print Receipt Setup for OPI**

Included in this pack are copies of the sample folio and deposit/payment receipts. On the Data Model within these templates, there is a query called 'merchant info' with two files promotional\_text1 and promotional\_text2.

To access the screen, open the Oracle Reports Builder.

Go to Start > Programs > Start Report Builder.



- Log into report builder.
- Open the file to be edited.

1		
File Edit View Insert Format Lavout	Pr	
M Open		
Look in: 🔒 Customizable_Reports	-	
Name	Date modified	
121143_sample_folio.rdf	8/21/2007 2:20 PM	
auto_room_assign.xml	3/13/2017 8:11 AM	
availability_comparison.xml	5/22/2017 10:11 AM	
Cf_exp_combined_mapping.xml	3/13/2017 8:11 AM	
i failed_report.xmi	5/15/2017 6:11 AM	
	>	
File name:	Open	
Files of All Reports(* html:* htm:* is	p:* xml: ▼ Cancel	
Web Source		
Er S Paper Layout		
B-Report Triggers		
Program Units Attached Libraries		
- Templates		
PL/SQL Libraries Debug Actions		
-Stack		
Built-in Packages Database Objects		
4		
-		
MODULE 🗗 🗖 🗙		
y 🛋 🖻 🐜 🖉		

• Open the Module page.



• Select the "promotional text" section.

Q_MERCHANT_INFO		
	G_MERCHANT_INFO A + promotional_text1 A + promotional_text2	

You need this query to copy over to the existing folio/receipt. For OPI, we need these fields as the database adds a 'picture' of the transactions into these fields.

- To copy the query:
  - Double-click the Q\_MERCHANT\_INFO to open the query statement field.
  - Select all the query and copy (ctrl+c).



In the existing customer folio, on the Data Model:

 Go to Insert > Query and follow the data wizard to add in the query. Name the query OPI\_MERCHANT\_INFO.

	A • EXPIRY_DATE_CHAP	LDETAIL 1009 CF_UK_FIX_VA77	
		To overwrite the default, type a new name for the query.	
		Query name:	
/N		Select the check box if the query is a matrix query.	
	Cancel Hel	p < Back Next >	Finish
1	A + credit card nur	nber G_CF_11	

• Click Next > select SQL Query > Next > paste the query > Next > Next > Finish. Then you can move the query to a blank space on the Data Model:





- On the Page Layout you can replace the old credit card fields with the Promotional Text fields.
- Delete the existing fields and frames, add a new frame and link it to the OPI\_MERCHANT\_INFO query, then add two fields linked to the promo\_text fields, as shown below:

		]	
11111	<b>*</b>	F_promotionaltext1 F_promotionaltext2	
			]

#### NOTE:

Ensure to set the frame and fields to expand on the Vertical axis.

- In the OPERA Standard Stationery folder on the DC there are two folio's already set up:
  - UK\_FOLIO\_OPI\_ORACLE standard VAT layout
  - UK\_FOLIO\_OPI\_VAT\_ORACLE modified VAT layout (compatible with long term VAT functionality)
- There is also a deposit receipt and a payment receipt in the same folder.

## Verifying Folio information in OPERA PMS

The PrintData information should be sent from the Payment Provider (Vendor) for ALL entry (Manual or via Chip & Pin).

In order to get the Print receipt data look organized, it is recommended to request the vendor to configure each fields separated by a pipe (|). Below example shows the before and after display of data in folio.

### Display of Data in Folio

Data sent without pipe separation:



• Data sent with a pipe separation:

Sample Data			
MERC ID:003020XXXX469   REF No: 001031XXXXM   CT			
No: ************3393			
EXP: XX/XX CARD: MASTERCARD CheckNo:136XXX7 End			
result			