

Oracle® Payment Interface

Oracle Hospitality Simphony Native Driver Installation Guide



Release 19.1
F14993-03
March 2022



Oracle Payment Interface Oracle Hospitality Simphony Native Driver Installation Guide, Release 19.1

F14993-03

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Preface

Purpose

This document describes how to install the Oracle Payment Interface (OPI) Release 19.1 with Oracle Hospitality Simphony Release 2.9 or higher and contains the configuration for both Simphony and the Oracle Payment Interface systems.

Audience

This document is intended for installers and system administrators of the Oracle Payment Interface and the Oracle Hospitality Simphony Point-of-Sale Release 2.9 or higher.

Customer Support

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

<https://support.oracle.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 and any associated log files
- Screenshots of each step you take

Documentation

Product documentation is available on the Oracle Help Center at
<http://docs.oracle.com/en/industries/hospitality/>

Revision History

Date	Description of Change
February 2019	Initial publication.
March 2019	<ul style="list-style-type: none">• Updated formatting and cover page with new template.• Updated payment module configuration screenshot.• Updated Tender/Media option bits for the OPI Default/Pre-authorization tender.• Updated screen shots in the <i>Configuring the Native Driver</i> section.
July 2019	Updated security bugs in few chapters
March 2022	<ul style="list-style-type: none">• Added Pre-Installation steps chapter• Added Preambles (28-42) in the table in Credit Card Preambles section

Pre-Installation Steps

Important Information

Consider the following guidelines before installing Oracle Payment Interface (OPI):

IF UPGRADING OPI, YOU MUST READ THE [UPGRADING THE OPI SECTION FIRST](#).

- Only RES 5.5 MR1 or later supports the native driver solution.
- You must install the CaOPI credit card driver.
- There is no Oracle Gateway Device Handler (OGDH) installation with the native driver solution.
- You can upgrade from OPI 6.1 (6.1.0.9) and higher to OPI 19.1.
- You cannot upgrade to OPI 19.1 from any previous MICROS Payment Gateway (MPG) version.
- You must uninstall previous versions of MPG before installing OPI 19.1.
- Batch and settle all credit transactions prior to installing or upgrading OPI.
- OPI 19.1 does not install a database. If a clean install, the database for OPI must be installed prior to installing OPI.
- If upgrading from OPI 6.1 or higher, the existing MySQL database will be migrated to 19.1.
- OPI supports JRE 8 and it is required to use JRE 8U152 or above JRE 8 build only to support all the currencies.

Uninstalling Prior OPI/MPG Versions

1. Run POSEOD and verify all previous transactions have been batched and approved in transaction.log.
2. Uninstall MPG/OPI through the Microsoft Windows Control Panel.
3. If no other applications use the database, uninstall MySQL through the Microsoft Windows Control Panel.
4. Uninstall MySQL community through the Microsoft Windows Control Panel.
5. Rename the C:\ProgramData\MySQL folder to MySQL_Old.
6. If you cannot see the ProgramData folder, you may need to configure the Windows Explorer folder options to show the hidden folders.
7. Restart the server.

 **NOTE:**

It is not recommended to leave a MySQL database from prior to OPI 6.1 in place. It should be un-installed and a newer MySQL database installed for OPI 19.1.

Simphony Native Driver

Installing the Native Driver

The Simphony native driver provides connectivity functionality between Simphony and OPI. Equivalent functionality was provided by the MGDH software (MICROS Gateway Device Handler) in older versions of Simphony. To use the native driver you must upgrade Simphony to release 2.9 or higher.

Selecting the Native Driver Refund Method

The native driver handles refunds in two ways, one method affects the sales figure in Simphony reports; the other method does not. Choose the appropriate method depending on how you want refund amounts to appear in their Simphony sales reporting.

When configuring OPI, you must also understand how the other credit card interfaces used by the enterprise or property are handling refunds. It may be necessary to match the native driver configuration in order to maintain consistent Simphony reporting to other properties across the enterprise.

Method 1

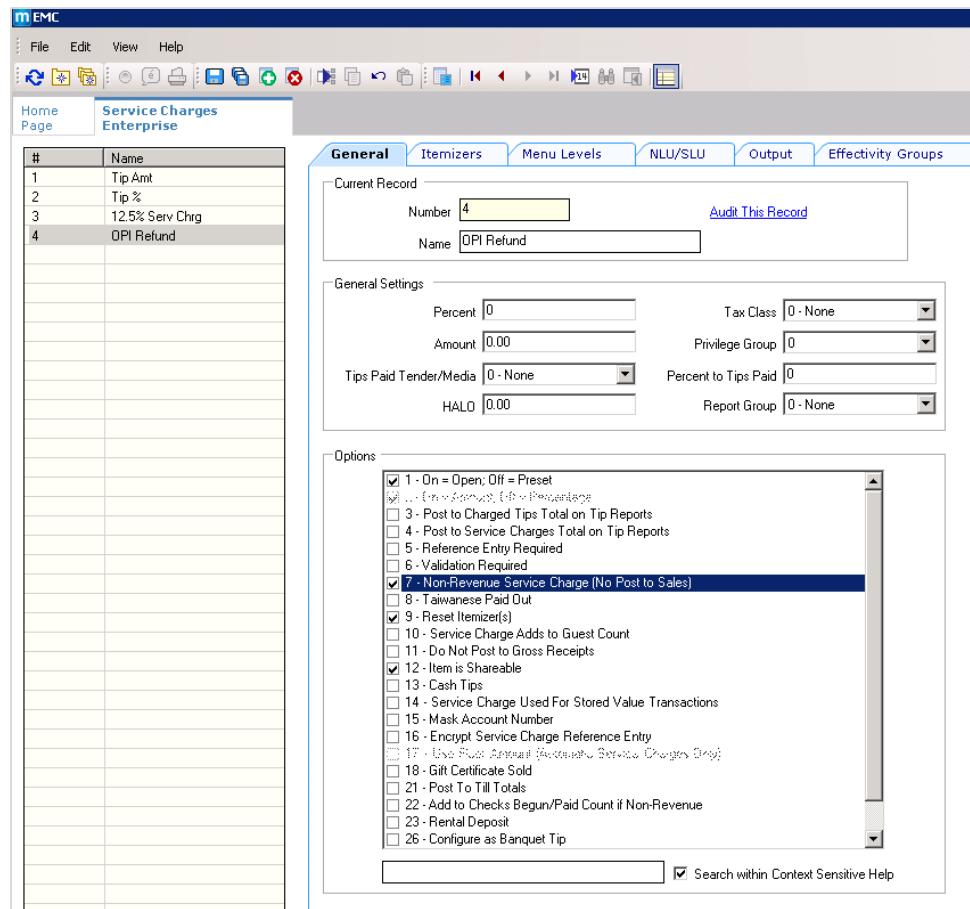
1. Create the refund check value by ringing in a non-revenue service charge.
2. Pay the check using the **Native Driver | CreditCardRefund** function.

Method 2

1. Start a negative check using the **Function | Transaction Void** key.
2. Enter the items to be refunded and raise the negative check value.
3. Pay the check using the **Native Driver | CreditAuthAndPay** function.

You cannot combine steps from the two different methods. For example, creating a negative check and trying to use the **Native Driver | CreditCardRefund** function does not work.

If the non-revenue service charge method is required, configure a non-revenue service charge similar to the following example:



Configuring the Native Driver

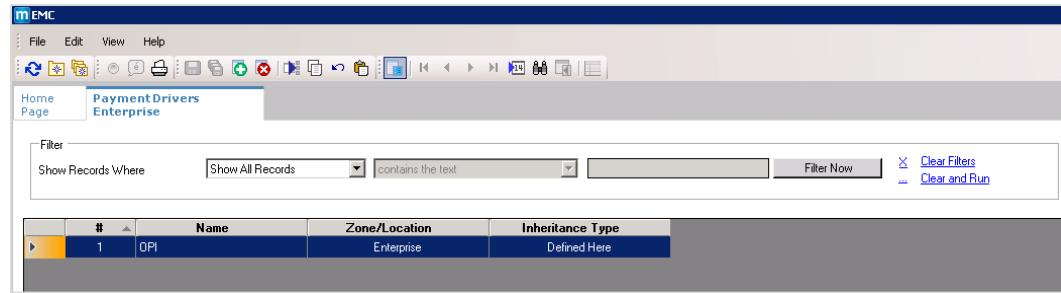
You can configure the native driver in the Enterprise Management Console (EMC). The screenshots and examples in this document refer to the configuration at an enterprise level.

Typically, the OPI host resides at property level. As a result, the host address may be different at each property or Revenue Center (RVC), so the native driver configuration may need to be completed at property or the RVC level. In either case, the configuration steps are the same.

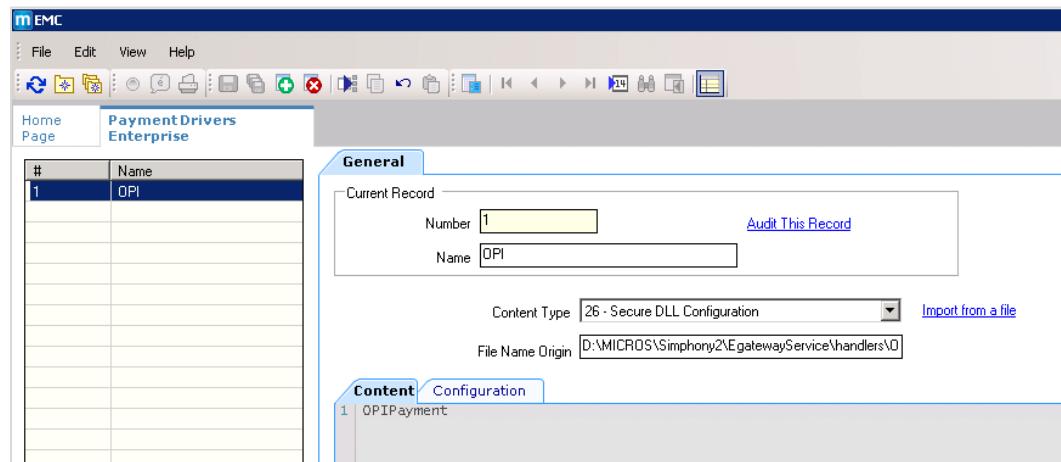
Adding the Payment Driver Configuration

To configure the OPI payment driver:

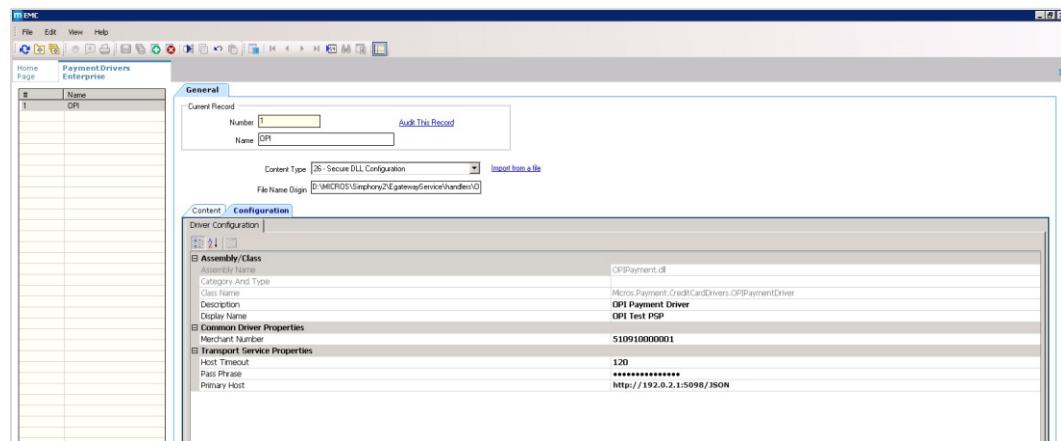
1. Depending if the payment drivers are configured at enterprise, property, or RVC level, select the required level in the locations hierarchy and then navigate to **Setup | Payment Drivers**.
2. If a record for the OPI payment driver does not exist, use the green **Insert Record** option.



3. For the initial setup, open the OPI record and select **Import from a file**.
4. Browse to:
:\MICROS\Simphony2\EgatewayService\handlers\OPIPayment.dll
5. Select the **Open** option.



6. Select the **Configuration** tab.



7. Configure the following options in each section.

Assembly/Class

- **Display Name (Mandatory):** This value appears in the driver display drop-down list later during the configuration.

Common Driver Properties

- Merchant Number (Mandatory): The value must match the Device Merchant ID that has been configured in the OPI.

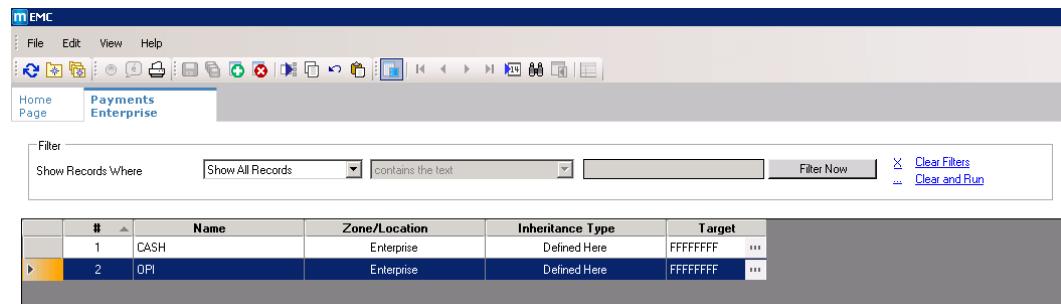
Transport Service Properties

- Host Timeout (Mandatory): The recommended value is 60 seconds. If the value configured is too low, the Ops client can timeout before a response is received from the payment service provider.
- Pass Phrase: Enter the pass phrase that is configured in OPI.
- Primary Host: Enter the address of the OPI host. The host address must be appended by the port number and the JSON interface.

Adding the Payment Module Configuration

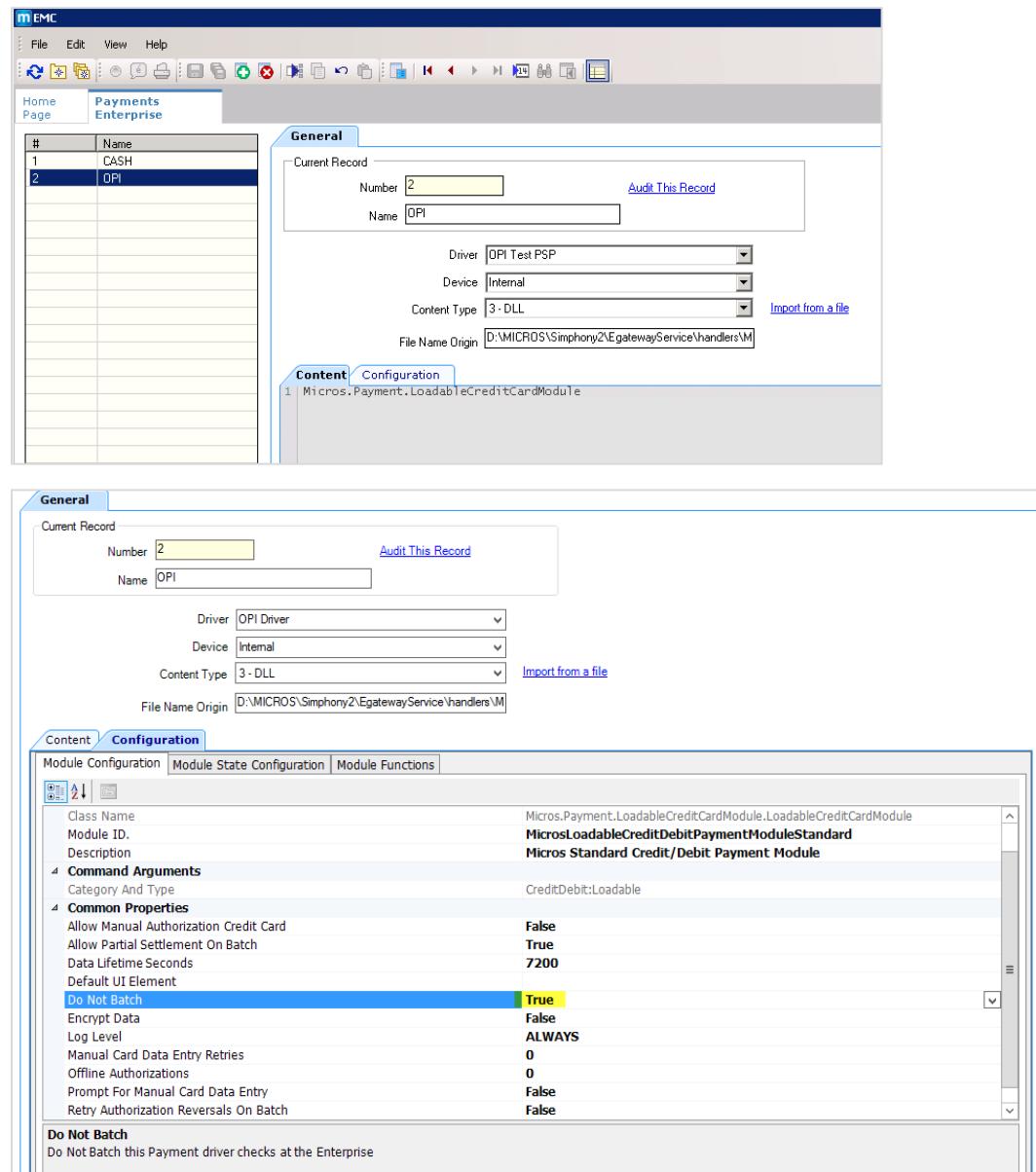
To configure the payment module:

- Depending if the payment drivers are configured at enterprise, property, or RVC level, select the required level in the locations hierarchy then navigate to **Setup | Payments**.
- If a record for the OPI payment driver does not exist, use the green **Insert Record** option.



#	Name	Zone/Location	Inheritance Type	Target
1	CASH	Enterprise	Defined Here	FFFFFF
2	OPI	Enterprise	Defined Here	FFFFFF

- For the initial setup, open the OPI record and select **Import from a file**.
- Browse to
:\MICROS\Simphony2\EgatetwayService\handlers\Micros.Payment.LoadableCreditCardModule.dll
- Select the **Open** option.
- Select the **Driver** from the drop-down list of the payment drivers and display name created previously.
- Use the default settings for the **Device** and **Content Type** drop-down list.
- Select the **Configuration** tab.



In the Common Driver Properties section, you must configure the following information. If the setting is not listed below, then you must retain the default value and the setting is not used with the OPI integration.

- **Allow Manual Authorization Credit Card:** This indicates if the manual authorization of credit cards is allowed. You must set this value to True unless the process guidelines state otherwise.
- **Do Not Batch:** You must define this value as True, preventing database tables from filling up with unnecessary data which may cause problems with other Simphony features for example, Clear Totals.

Configuring the Default Payment Card Tender (Pre-Authorization Tender)

With the OPI, the credit card type is not known until the transaction processes and returns to the Point-of-Sale (POS). As a result, you must configure a pre-Authorization Tender/Media record as a placeholder until the transaction is processed. If multiple loadable payment drivers are used in the organization, set the following settings in the properties or revenue centers use OPI.

Tender/Media

1. In the relevant locations hierarchy, navigate to **Configuration | Tender/Media**.
2. Add a new Tender/Media record using the green **Insert Record** option. (This becomes the default OPI Payment.)
3. Provide the **Record Name(s)** for example, Default OPI and select **Ok**.
4. Double-click the newly added Tender/Media row to open.
5. Select the **Options** tab.
6. Configure the following option bits for the OPI Default/Pre-authorization tender.

Tender Section	Area	Parameter	Notes	State
2 - Options	Interface Options	31 - ON=PMS and Credit Cards use 19 Digit Acct Number; OFF=16 Digits		Disable
2 - Options	Credit Card Options	Estimated Tip Percentage	Unsupported in F&B	Disable
2 - Options	Credit Card Options	Base Limit	Obsolete with OPI	Disable
2 - Options	Credit Card Options	Second Limit	Unsupported in F&B	Disable
2 - Options	Credit Card Options	Second Limit Percentage	Unsupported in F&B	Disable
2 - Options	Credit Card Options	Offline Est Tip Percentage	Unsupported in F&B	Disable
2 - Options	Credit Card Options	Unauthorized Authorization Threshold	Obsolete with OPI	Disable
2 - Options	Credit Card Options	CA Offline Limit	Obsolete with OPI	Disable
2 - Options	Credit Card Options	Preambles 1 - [n]	Leave blank for Pre-Authorization Tender	NULL

Tender Section	Area	Parameter	Notes	State
2 - Options	Credit Card Options	7 - Use with Credit Card Recall	Obsolete with OPI	Disable
2 - Options	Credit Card Options	17 - Check Credit Card Expiration Date	Obsolete with OPI	Disable
2 - Options	Credit Card Options	27 - Credit Card Validity Test	Obsolete with OPI	Disable
2 - Options	Credit Card Options	34 - Prompt for Debit or Credit Card	Obsolete with OPI	Disable
2 - Options	Credit Card Options	49 - Require Credit Card Start Date	This information will be collected at the Electronic Payment Device (EPD)	Disable
2 - Options	Credit Card Options	50 - Require Credit Card Issue Number	This information will be collected at the Electronic Payment Device (EPD)	Disable
2 - Options	Credit Card Options	51 - No Credit Card Length Check	Obsolete with OPI	Disable
2 - Options	Credit Card Options	60 - Do Not Retain Cardholder's Name	Obsolete with OPI	Disable
2 - Options	Credit Card Options	61 - Require AVS on Manual Entry	Processor Defined	Disable
2 - Options	Credit Card Options	62 - Require AVS on Auto Swipe	Processor Defined	Disable
2 - Options	Credit Card Options	63 - AVS Must be Full Address	Processor Defined	Disable
2 - Options	Credit Card Options	64 - Require CVV on Manual Entry	Processor Defined	Disable
2 - Options	Credit Card Options	65 - Require CVV on Auto Swipe	Processor Defined	Disable

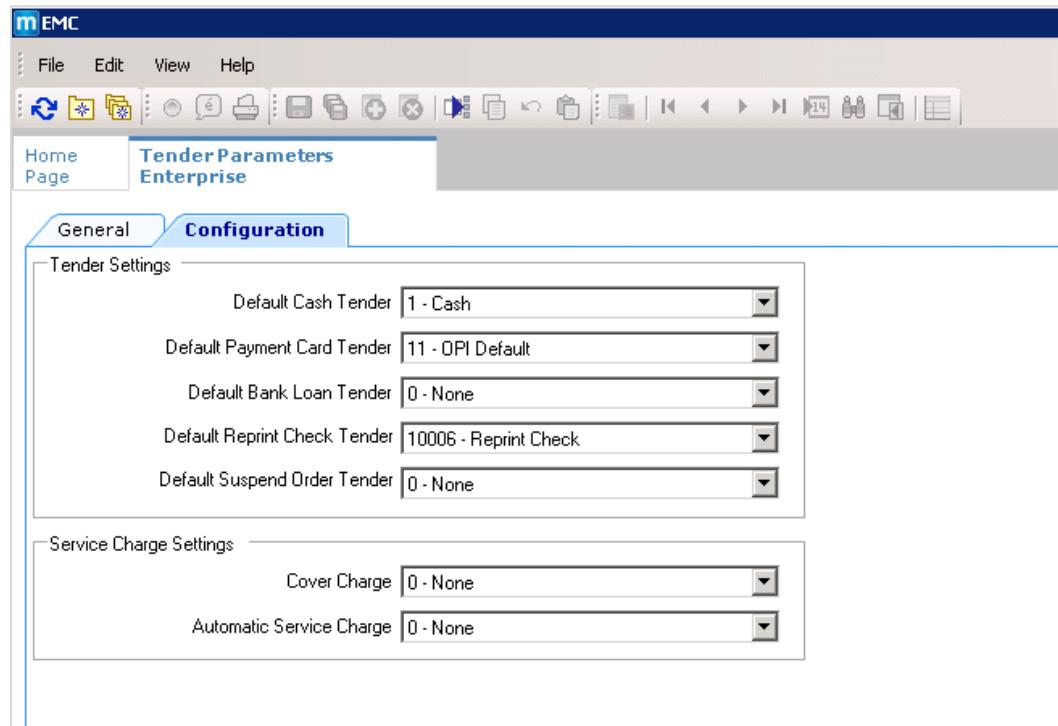
Tender Section	Area	Parameter	Notes	State
2 - Options	Credit Card Options	80 - Enable Partial Authorization	This information is not defined in the SSL configuration. Partial Auth is controlled on the PSP side.	Disable
2 - Options	Ops Behavior > Amount Options	2 - Amount Required		Recommended Disable
2 - Options	Ops Behavior > Amount Options	3 - Assume Paid in Full		Disable
2 - Options	Ops Behavior > Security Options	68 - Mask Account Number		Disable
2 - Options	Charge Tip Options	9 - Charged Tip Required		Disable
2 - Options	Charge Tip Options	36 - ON = Charged Tip Must Be Less Than Pmt; OFF = Any Amount	Option bit cannot be enforced when OPI is active.	Disable
2 - Options	Miscellaneous Options > Signature Capture Options	Default Tip %	Unsupported in F&B	Disable
2 - Options	Miscellaneous Options > Signature Capture Options	58 - Enable Signature Capture	Inclusion is provided by processor.	Disable

Configuring the Tender Parameters

To configure the Tender Parameters:

1. In the Locations hierarchy, navigate to the relevant **Setup | Tender Parameters**.
2. Select the **Default Payment Card Tender** from the drop-down list of Tender/Media records that are configured as payment types.
3. Select the OPI Default tender that was configured in previous steps.

4. If the customer uses the reprint functions, select an option for the **Default Reprint Check Tender**.



Configuring the Payment Tenders

This section assumes that the Credit Card Payment Tenders have already been configured and are defined at the Enterprise Level. Depending on the customer's specific setup the Tender Media overrides may be required if OPI native drivers are not used at every property or RVC.

To configure the credit card tenders:

1. Select the **Options** tab.
2. Configure the following option bits for the Credit Card Tenders to use with OPI.

Tender Section	Area	Parameter	Notes	State
2 - Options	Interface Options	31 - ON=PMS and Credit Cards use 19 Digit Acct Number; OFF=16 Digits		Disable Option Bit
2 - Options	Credit Card Options	Estimated Tip Percentage	Unsupported in F&B	Disable Option Bit
2 - Options	Credit Card Options	Base Limit	Obsolete with OPI	Disable Option Bit

Tender Section	Area	Parameter	Notes	State
2 - Options	Credit Card Options	Second Limit	Unsupported in F&B	Disable Option Bit
2 - Options	Credit Card Options	Second Limit Percentage	Unsupported in F&B	Disable Option Bit
2 - Options	Credit Card Options	Initial Authorization Amount	Part of default tender configuration only	Disable Option Bit
2 - Options	Credit Card Options	Offline Est Tip Percentage	Unsupported in F&B	Disable Option Bit
2 - Options	Credit Card Options	Unauthorized Authorization Threshold	Obsolete with OPI	Disable Option Bit
2 - Options	Credit Card Options	CA Offline Limit	Obsolete with OPI	Disable Option Bit
2 - Options	Credit Card Options	7 - Use with Credit Card Recall	Obsolete with OPI	Disable Option Bit
2 - Options	Credit Card Options	17 - Check Credit Card Expiration Date	Obsolete with OPI	Disable Option Bit
2 - Options	Credit Card Options	27 - Credit Card Validity Test	Obsolete with OPI	Disable Option Bit
2 - Options	Credit Card Options	33 – Require Credit Auth Before Service Total	Part of default tender only	Disable Option Bit
2 - Options	Credit Card Options	34 - Prompt for Debit or Credit Card	Obsolete with OPI	Disable Option Bit
2 - Options	Credit Card Options	49 - Require Credit Card Start Date	This information is collected at the device	Disable Option Bit
2 - Options	Credit Card Options	50 - Require Credit Card Issue Number	This information is collected at the device	Disable Option Bit
2 - Options	Credit Card Options	51 - No Credit Card Length Check	Obsolete with OPI	Disable Option Bit
2 - Options	Credit Card Options	60 - Do Not Retain Cardholder's Name	Obsolete with OPI	Disable Option Bit

Tender Section	Area	Parameter	Notes	State
2 - Options	Credit Card Options	61 - Require AVS on Manual Entry	Processor Defined	Disable Option Bit
2 - Options	Credit Card Options	62 - Require AVS on Auto Swipe	Processor Defined	Disable Option Bit
2 - Options	Credit Card Options	63 - AVS Must be Full Address	Processor Defined	Disable Option Bit
2 - Options	Credit Card Options	64 - Require CVV on Manual Entry	Processor Defined	Disable Option Bit
2 - Options	Credit Card Options	65 - Require CVV on Auto Swipe	Processor Defined	Disable Option Bit
2 - Options	Credit Card Options	80 - Enable Partial Authorization		Disable Option Bit
2 - Options	Ops Behavior > Security Options	68 - Mask Account Number		Disable Option Bit
2 - Options	Charge Tip Options	36 - ON = Charged Tip Must Be Less Than Pmt; OFF = Any Amount	This option bit cannot be enforced when OPI is active.	Disable Option Bit
2 - Options	Miscellaneous Options > HALO Options	HALO Code	Part of default tender only	Disable Option Bit
2 - Options	Miscellaneous Options > HALO Options	18 - Enable HALO	Part of default tender only	Disable Option Bit
2 - Options	Miscellaneous Options > HALO Options	19 - ON=Use HALO on Amount Entered; OFF=Amount Overtendered	Part of default tender only	Disable Option Bit
2 - Options	Miscellaneous Options > Signature Capture Options	Default Tip %	Unsupported in F&B	Disable Option Bit

Tender Section	Area	Parameter	Notes	State
2 - Options	Miscellaneous Options > Signature Capture Options	58 - Enable Signature Capture	Inclusion is provided by processor.	Disable Option Bit
2 - Options	Credit Card Options	Preambles 1 - [n]	Used to map the OPI payments to specific card types in Simphony	Refer to Table below

Credit Card Preambles

OPI uses the following preambles for the credit card payment types. These preambles are the internal POS Card Type numbers for OPI and are not the typical first six numbers of the Primary Account Number (PAN). Ensure the length of each preamble is also specified in the tender's configuration record.

Tender Media	Preamble	Preamble Length
Visa	0*	1
Visa PIN Credit	12*	2
Visa Electron	17*	2
Visa Debit	18*	2
VPay	20*	2
MasterCard	1*	1
MasterC Debit	24*	2
MasterCard PIN Credit	13*	2
American Express	2*	1
Discover	26*	2
Diners	3*	1
JCB	4*	1
Store Value Card (SVC)	7*	1
Maestro	19*	2
Gift Card	8*	1
Point	9*	1

Tender Media	Preamble	Preamble Length
CUP	10*	2
CUP Debit	14*	2
Debit	11*	2
Interac	15*	2
UKDM/Switch	16	1
VPAY	20*	2
Alliance	21*	2
ecChip	22*	2
GiroCard	23*	2
Bank Card	25*	2
Pay Pal	27*	2
RESERVE-1	28*	2
RESERVE-2	29*	2
RESERVE-3	30*	2
RESERVE-4	31*	2
RESERVE-5	32*	2
RESERVE-6	33*	2
RESERVE-7	34*	2
RESERVE-8	35*	2
RESERVE-9	36*	2
RESERVE-10	37*	2
RESERVE-11	38*	2
RESERVE-12	39*	2
RESERVE-13	40*	2

Tender Media	Preamble	Preamble Length
RESERVE-14	41*	2
RESERVE-15	42*	2

 **NOTE:**

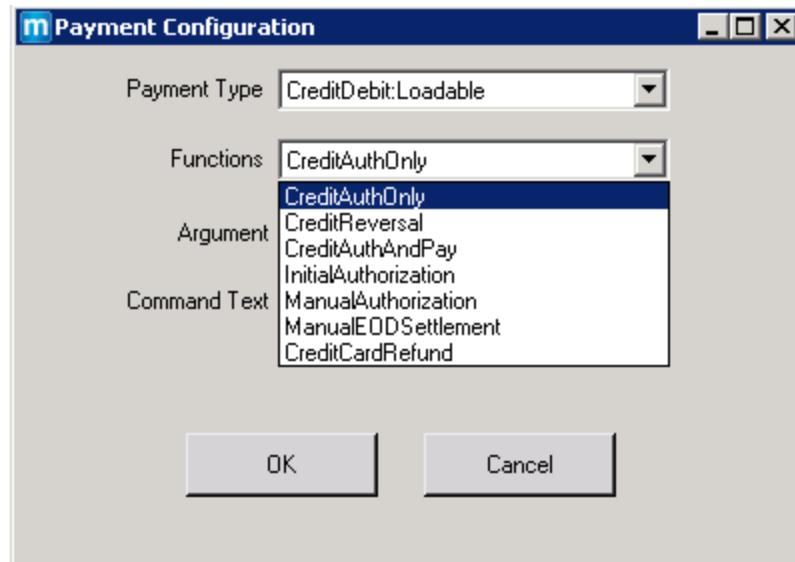
Preambles are no longer needed in Oracle payment interface. This is controlled by payment service provider.

Configuring the Page Design

The credit card functionality is a combination of functionality provided by the OPI native drivers and core Simphony functionality.

To set up the front of house pages and buttons to use with the OPI payment card driver:

1. Navigate to **Configuration | Page Design**.
2. To open the page, double-click the row.
3. Click the Insert (+) button to add a new credit card function button for the payment card driver.
4. In the General tab, select **Payment Tenders** from the type drop-down list.
5. Directly under the Payment Tenders drop-down, click the black arrow.
6. On the Select Tender/Media Payment window, select **None** or the desired payment tender, and then select **Ok**.
7. On the Payment Configuration window, select **CreditDebit: Loadable** for the Payment Type and your desired function in the functions drop-down list. Select the **Ok**.
8. Position and size the button wherever you want to place it on the page.
9. In the **Legend** field, type the name of the button.
10. Repeat the configuration steps for any additional supported functions.
11. Save the changes and close the **Page Design** tab.
12. Update the database on the Ops clients for the screen design changes to appear on the workstations.



The following functions are provided by the native drivers.

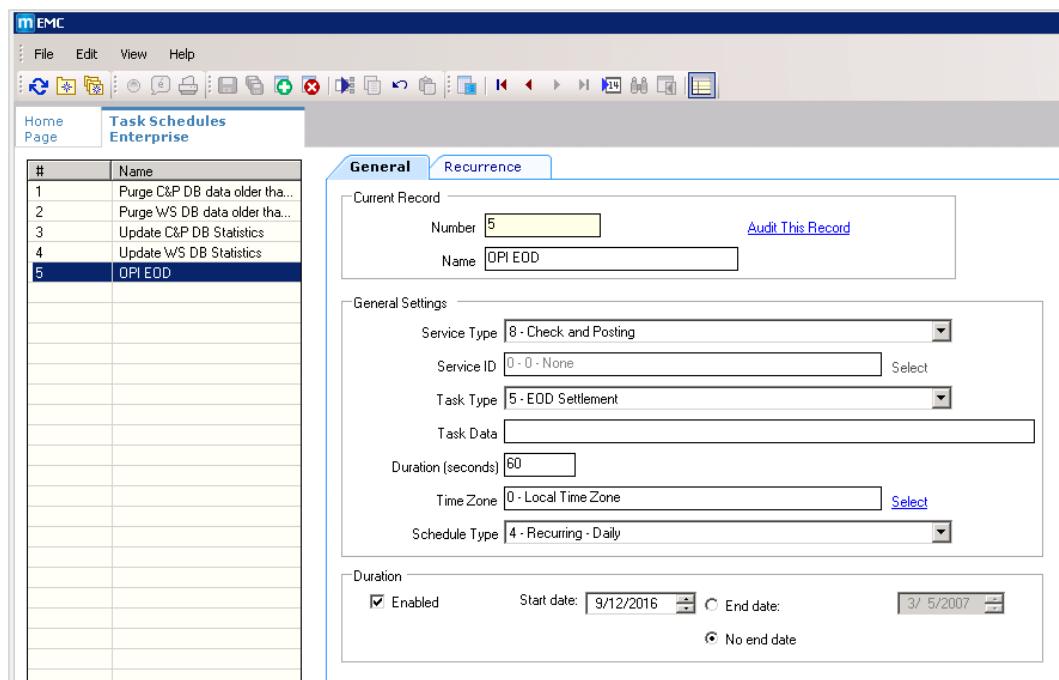
Function	Description
CreditAuthOnly	This function obtains an authorization for the check value when the guest is ready to pay the bill.
CreditReversal	Internal function used by the native driver to handle an authorization release and void functionality. This is not a function that can be called manually, this function should not be linked to a touchscreen button.
CreditAuthAndPay	This function obtains an authorization and final transaction in one transaction, also known as a Sale transaction. This function is intended for counter service where the guest is present at the workstation and completes the payment on the PED (PIN Entry Device).
InitialAuthorization	This function allows the user to try authorizing a specific amount and may not reflect the value of the check. These transactions can be settled at a later time and do not require the credit card to be present.
ManualAuthorization	Use this function in situations when a transaction was attempted and a voice referral is returned. The Manual Authorization function is used to send the transaction to the payment service provider and can include the manual Authorization Code that was provided over the phone. This enables the payment service provider to include the pre-approved authorization code in their authorization transaction.

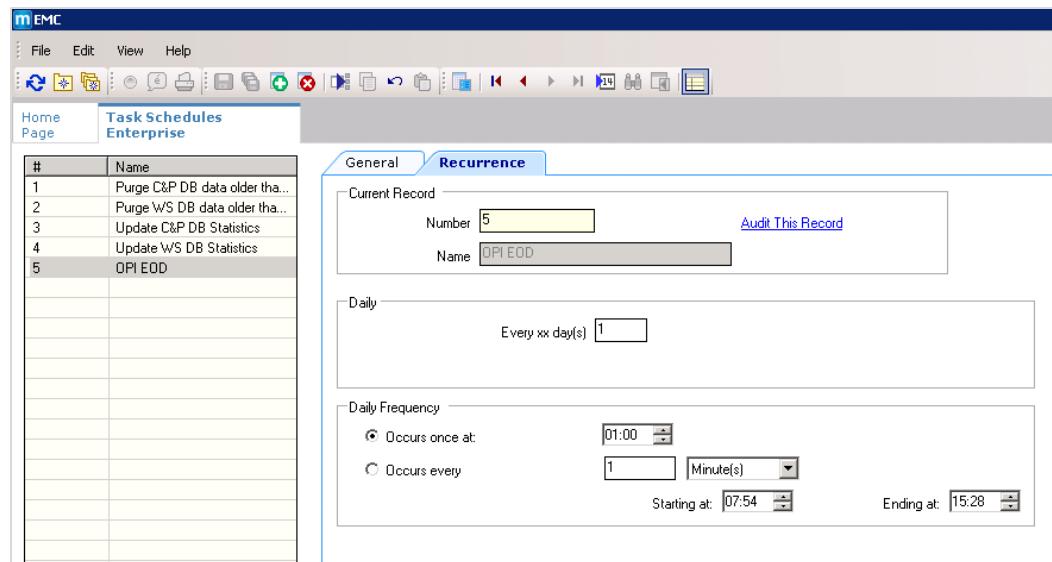
Function	Description
ManualEODSettlement	The Manual End-of-Day (EOD) Settlement function allows the user to send a message to the payment service provider indicating any unbatched transactions, up to the point when the button is pressed, should be marked as ready for settlement. This function can be used if the scheduled EOD did not run properly.
CreditCardRefund	Use this transaction to settle Non-Revenue Service Charge refund checks only. The Native Driver Refunds section contains more information. Depending on how the system is configured, you can also require some of the following buttons to use in conjunction with the native driver functions.
Function CCard Finalize	This key finalizes a credit card through the Simphony system. This function key posts the previously-authorized credit card to the check as a payment typically closing the check, unless an amount less than the check total was entered first.
Function Reprint Closed Check	Use this function to reprint the Guest Check of a closed transaction.
Function Reprint Previous Closed Check	Use this function to reprint the receipt for the last check that was closed on the workstation.
Function Popup Numeric Keyboard	This function causes the default numeric keypad screen to appear.
Function Credit Voucher Reprint	This key reprints a credit card voucher.
Function Adjust Closed Check	Use this key to adjust closed checks for the current business day. When a check is adjusted, the tenders and service charges on the check can be edited but the check itself is not reopened.
Function Void	Use this key to void items from the check such as Authorization or Final Tenders. Items can be voided by pressing this key twice (last item is removed), pressing Void and then entering a menu item, or selecting an item in the check detail and then pressing Void.
Function Transaction Void	This key is used to place the workstation into Void mode after pressing this key, every menu item purchased is a voided menu item.
Service Charge Non-Revenue Service Charge Record	May be required depending on Refund Method selected. Refer to NATIVE DRIVER REFUNDS .

Scheduling the End-of-Day

To schedule the End-of-Day task:

1. Navigate to Configuration | Task Schedules.
2. Use the green plus symbol to add a new record for the OPI EOD.
3. Open the record and define the General and Recurrence values for the following options:
 - From the **Service Type** drop-down list, select **Check and Posting**.
 - From the **Task Type** drop-down list, select the **EOD Settlement**.
 - From the **Schedule** type drop-down list, select **Daily**.
4. Select the **Enabled** checkbox, to enable the task.
5. Enter the date using the format MM/DD/YYYY.



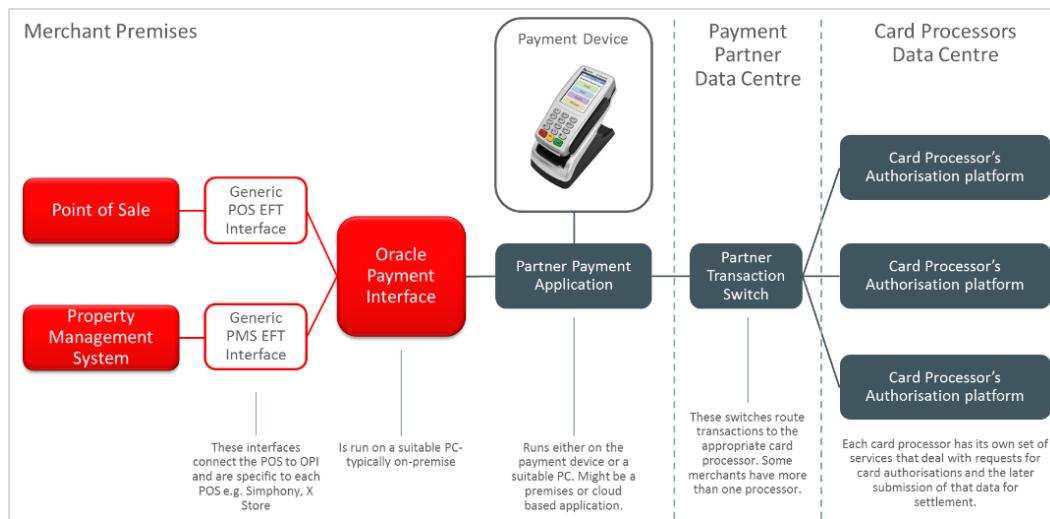


3

Oracle Payment Interface

Introduction

The Oracle Payment Interface installs on-premise and connects to third-party payment service providers (PSP) to process financial transactions from the Oracle Hospitality POS systems and the OPERA Property Management Systems.



Supported Currencies

OPI supports the following currencies.

AUD – Australian Dollars

CNY – China Yuan Renminbi

EUR – European Union

FJD – Fiji Dollars

IDR – Indonesia Rupiah

GBP – UK Pound Sterling

HKD – Hong Kong Dollars

INR – India Rupee

JPY – Japanese Yen

KRW – South Korea Won

LKR – Sri Lanka Rupee

NZD – New Zealand Dollar

MOP – Macau Pataca
MYR – Malaysia Ringgit
MVR – Maldives Rufiyaa
PHP – Philippines Peso
PLN – Poland
SGD – Singapore Dollars
SEK – Sweden
THB – Thailand Baht
TWD – Taiwan Dollar
USD – US Dollars
CAD – Canadian Dollar
FRF – French Franc
DEM – Deutsche Mark
MXN – Mexican Peso
QAR – Qatari Rial
CHF – Swiss Franc
DKK – Danish Krone
HUF – Hungary Forint
ISK – Iceland Krona
KWD – Kuwaiti Dinar
LYD – Libyan Dinar
NOK – Norwegian Krone
ZAR – South African Rand
AED – UAE Dirham

Installing the OPI

IF UPGRADING OPI, YOU MUST READ THE [UPGRADING THE OPI SECTION FIRST](#).

 **NOTE:**

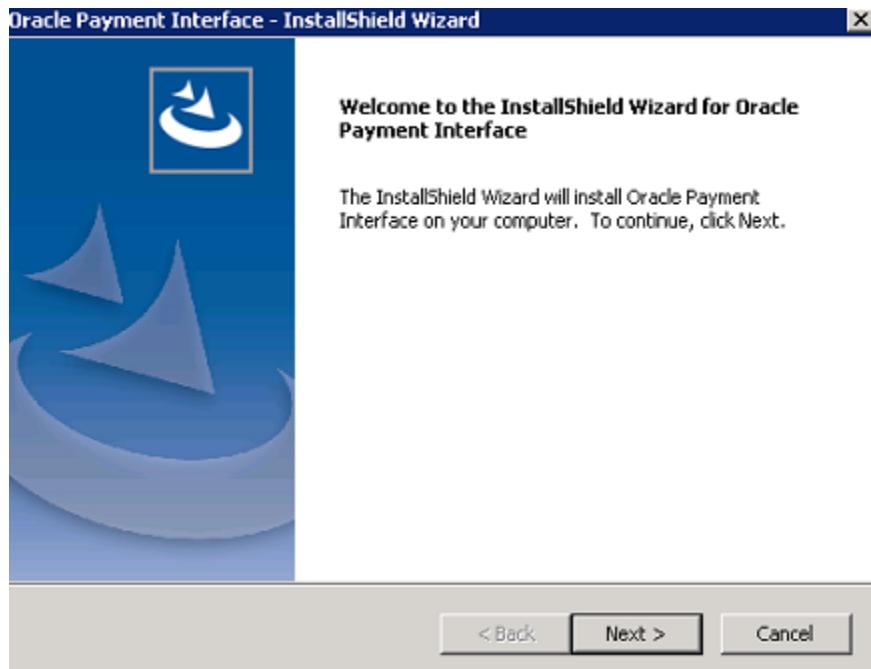
Oracle Payment Interface requires at least 6 GB of free disk space to complete the installation.

To install Oracle Payment Interface:

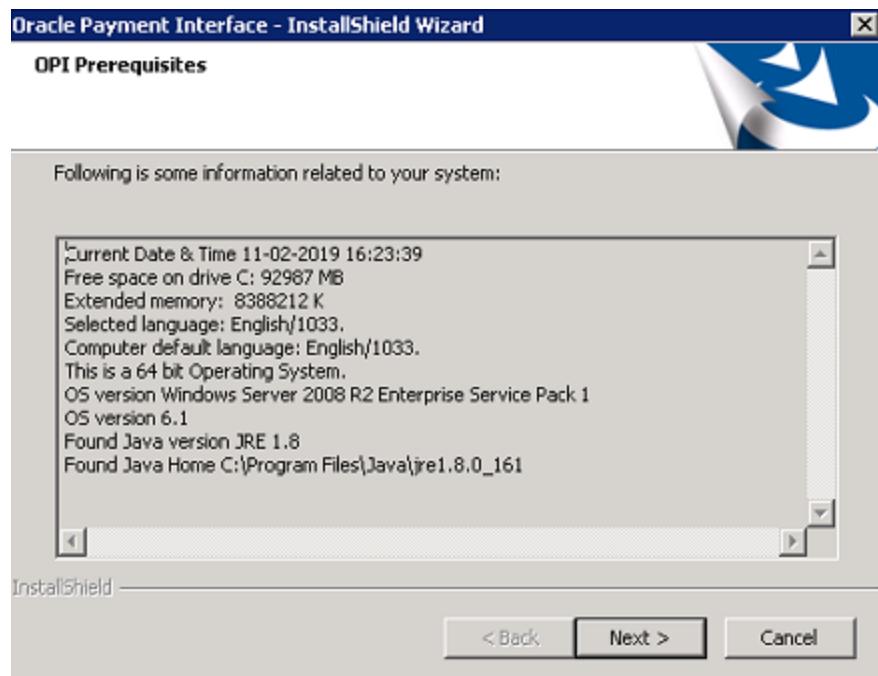
1. Run the `OraclePaymentInterfaceInstaller_19.1.0.0.exe` file and double-click it to launch the install.



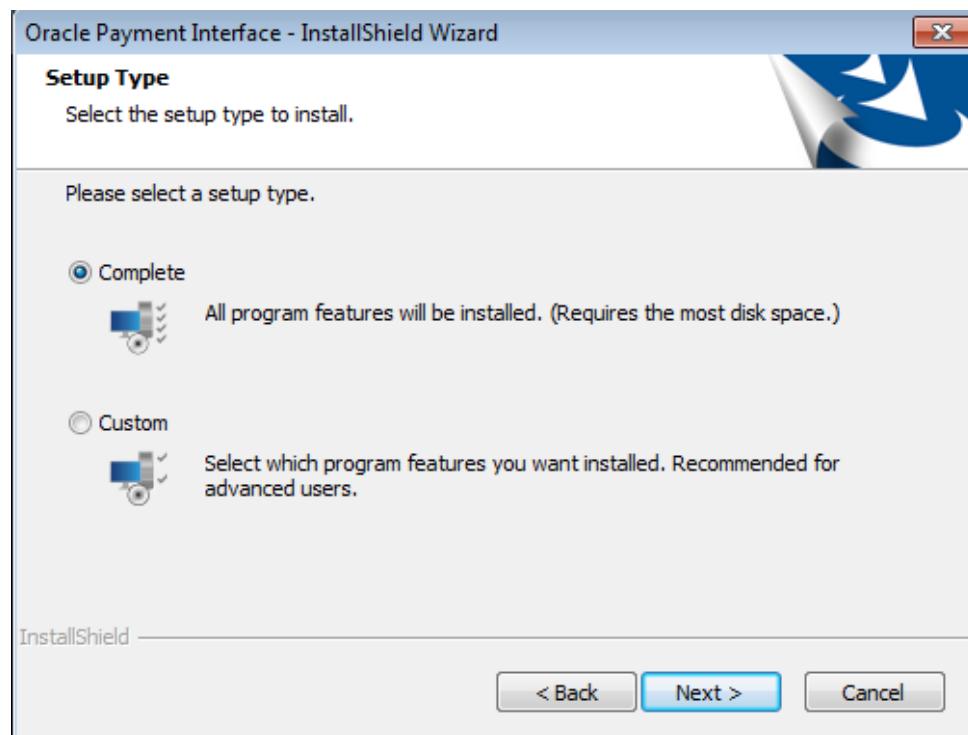
2. Select the language for the installation, and then click **OK**.



3. Click **Next** on the Welcome to the InstallShield Wizard for Oracle Payment Interface screen.



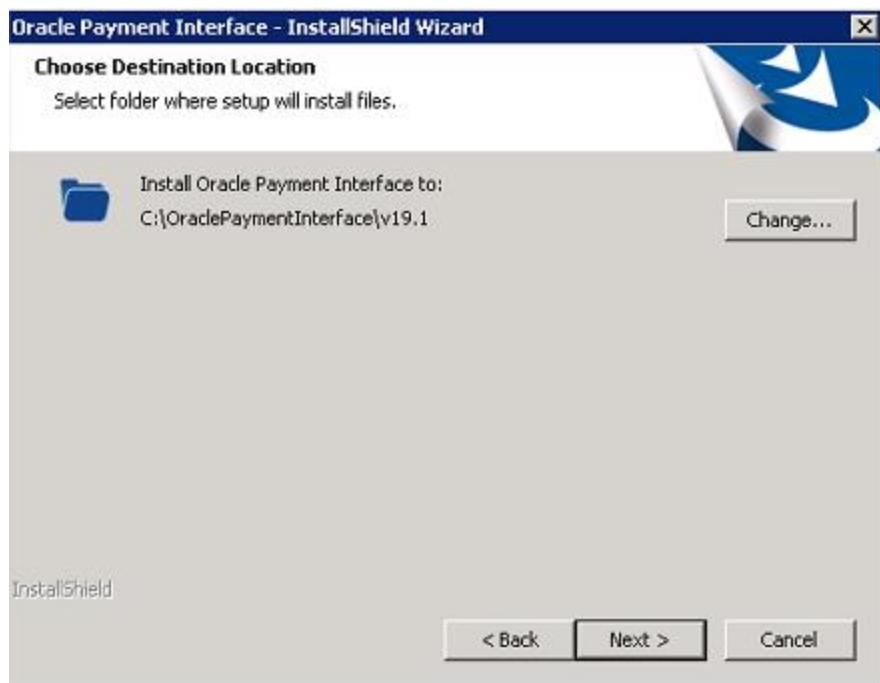
4. Click **Next** on the OPI Prerequisites screen.



The Setup Type screen appears.

- **Complete:** All program features will be installed.
- **Custom:** Select which program features you want installed. Recommended for advanced users only.

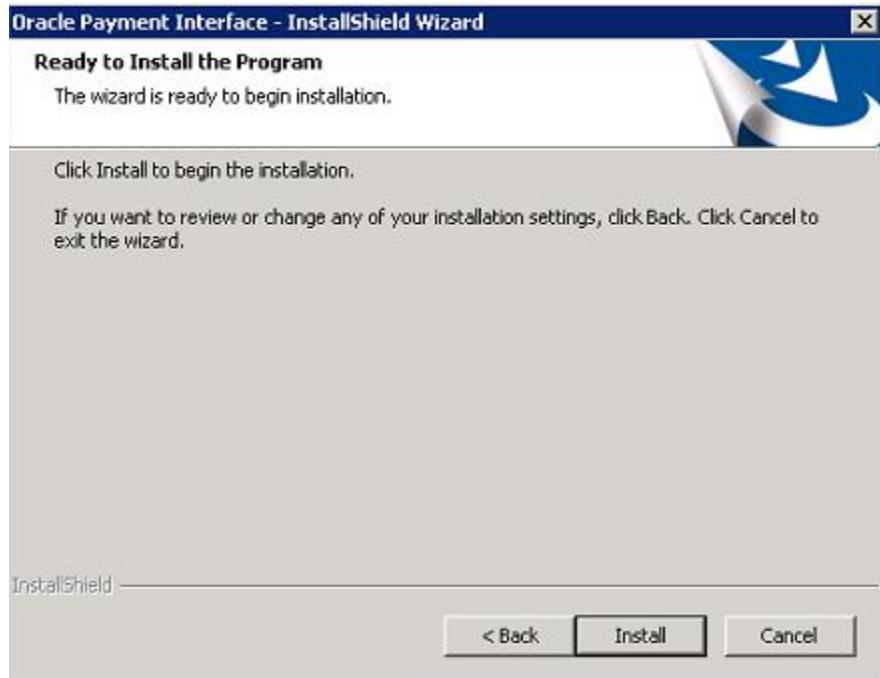
5. Select **Complete** setup type to install all the program features.



6. Click **Next.**

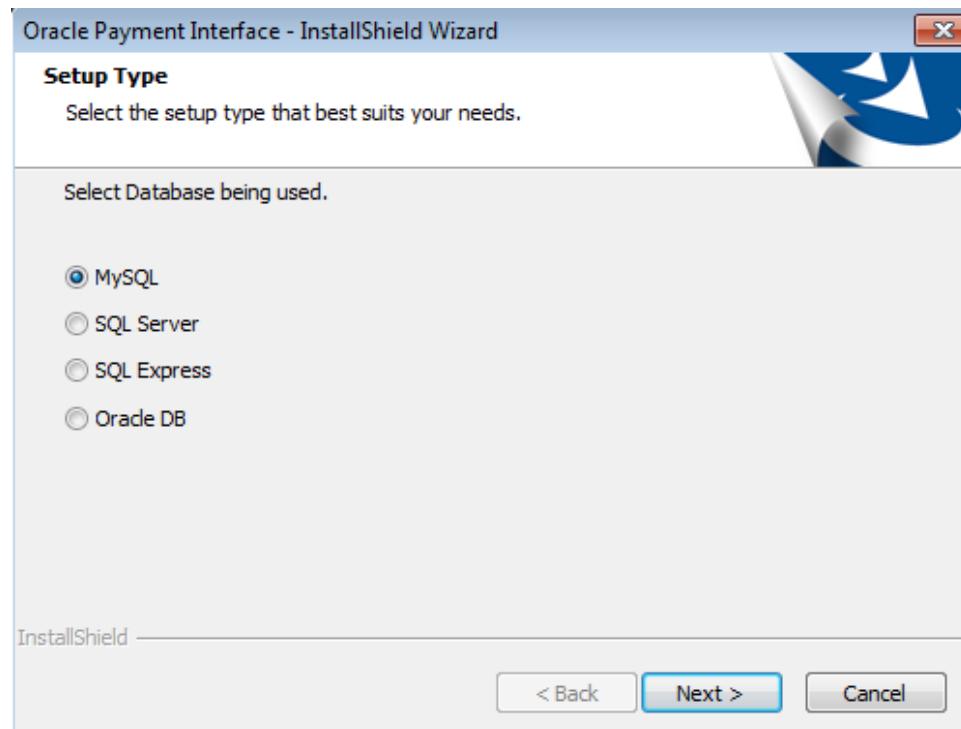
The Choose Destination Location screen appears.

7. Accept the default installation location or click **Change... to choose a different location, and then click **Next**.**

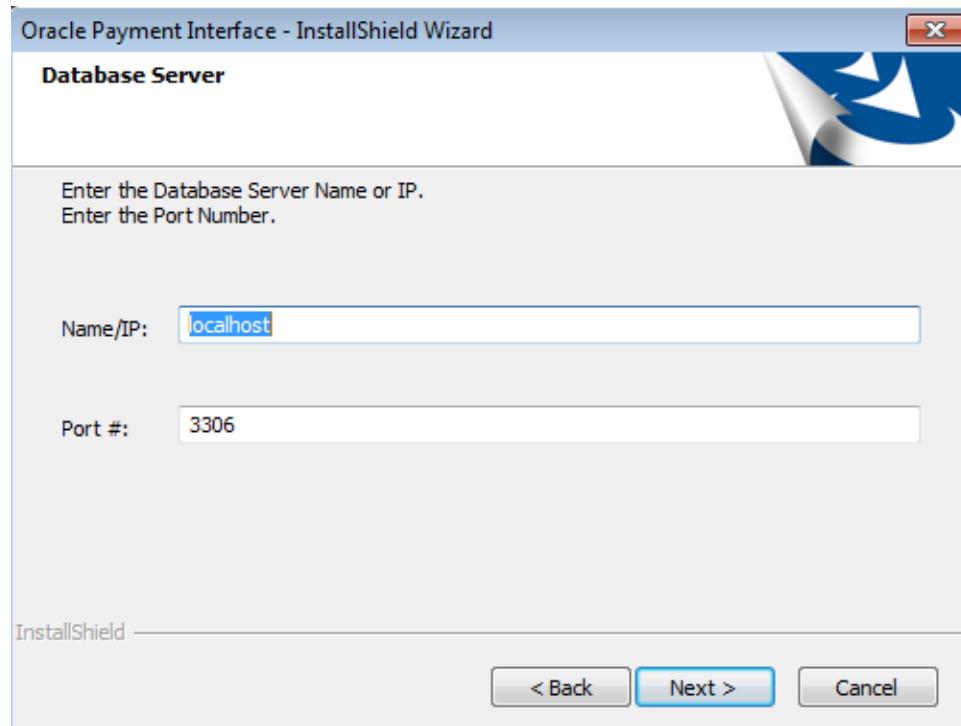


8. Click **Install on the Ready to Install the Program screen. The Setup Status screen displays for a few minutes.**

The Setup Type screen appears.



9. Select the database type that is currently used, and then click **Next**.

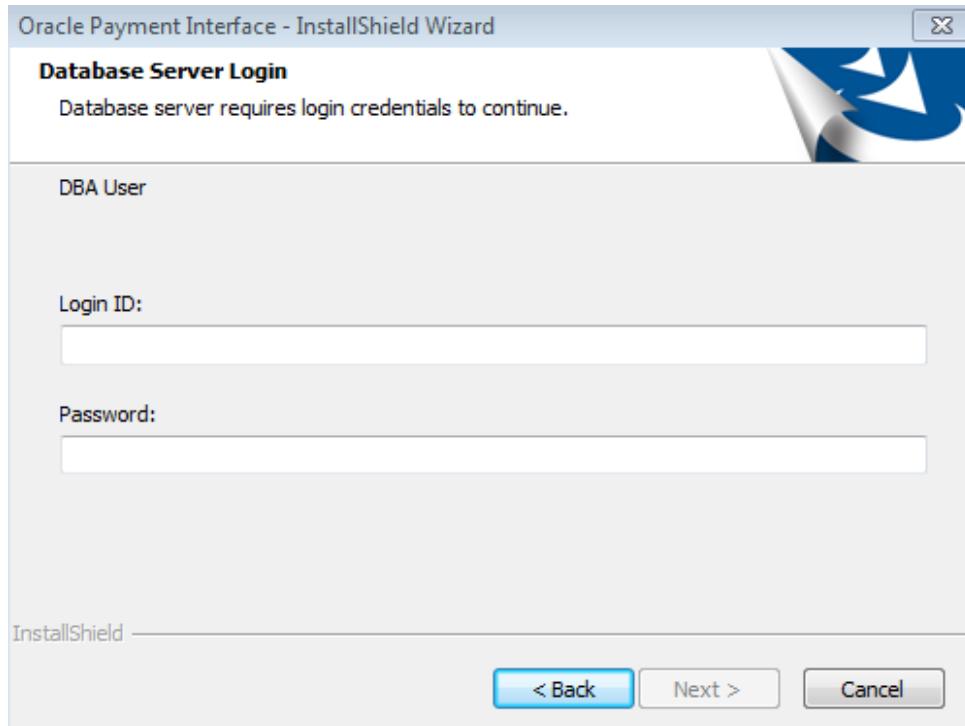


The Database Server screen appears.

10. **The Name/IP:** field defaults to localhost. This should be left as localhost if the OPI database is installed on the same computer. If the database is installed on another computer, the Name or IP address of that machine should be entered here.

11. Accept the default **Port #** of 3306 (for MySQL), and then click **Next**.

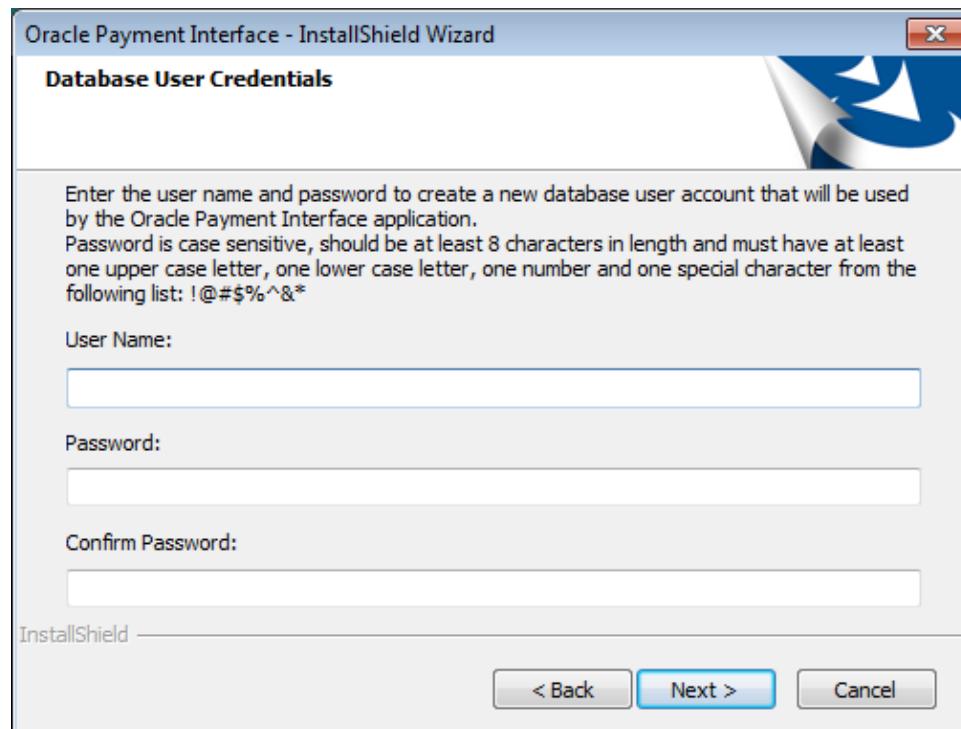
The Database Server Login screen appears.



12. Enter the server login credentials of DBA user for the database type selected, and then click **Next**.

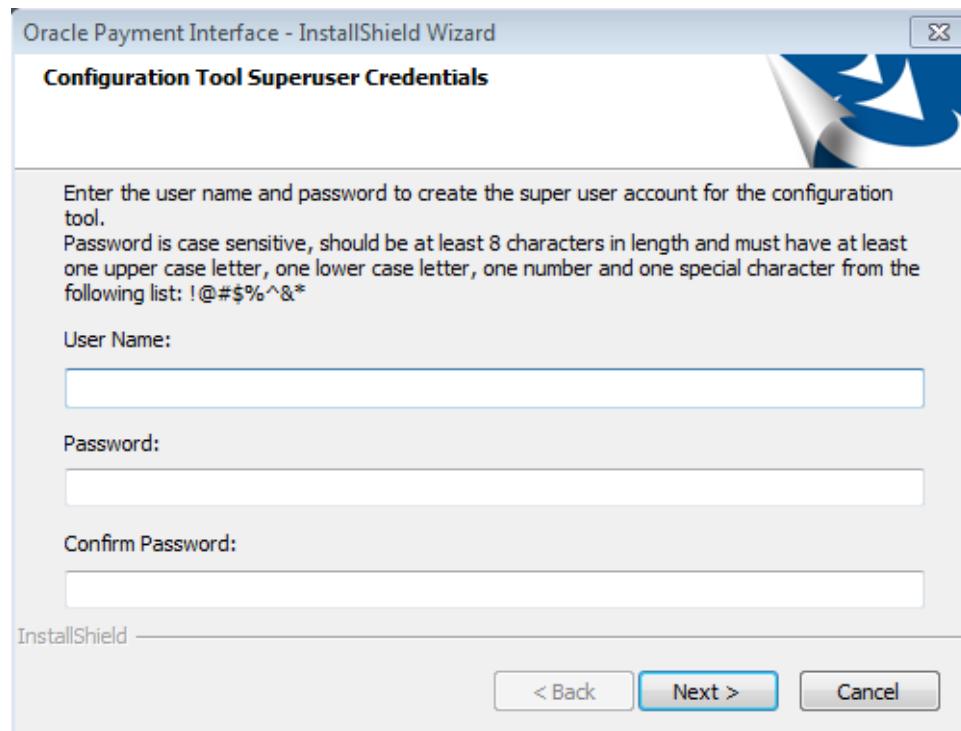
- For MySQL the Login ID: = root
- For other database types the DBA user name/Login ID may be different.
- Enter the correct password for the DBA user.

The Database User Credentials screen appears.



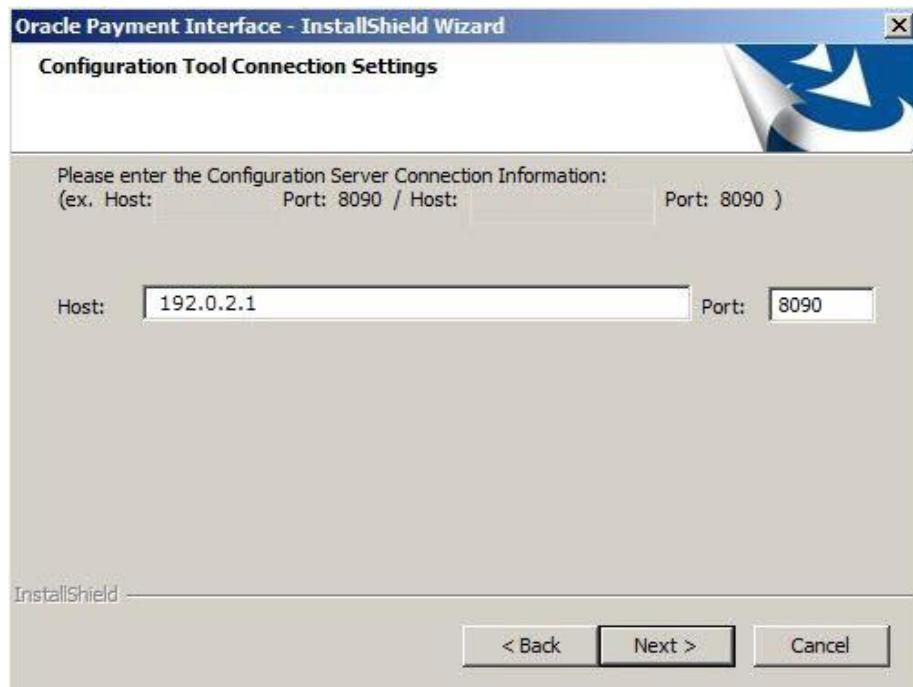
13. **User Name:** Enter the user name to create a new database user account.
14. **Password:** Create a password. Password is case sensitive, should be at least 8 characters in length and must have at least one upper case letter, one lower case letter, one number and one special character from the following list: !@#\$%^&*..
15. **Confirm Password:** Confirm the new password, and then click Next.
16. Click **OK** on the Database connection successful dialog.
17. Click **OK** on the Database Configuration operation successful dialog.

The Configuration Tool Superuser Credentials screen appears.



18. **User Name:** Enter the user name to create the Super user account. This can be any user name and does not have to be a Windows account user.
19. **Password:** Create a password. Password is case sensitive, should be at least 8 characters in length and must have at least one upper case letter, one lower case letter, one number and one special character from the following list: !@#\$%^&*.
20. **Confirm Password:** Confirm the new password, and then click Next.
21. Click **OK** on the Create SuperUser operation successful dialog.

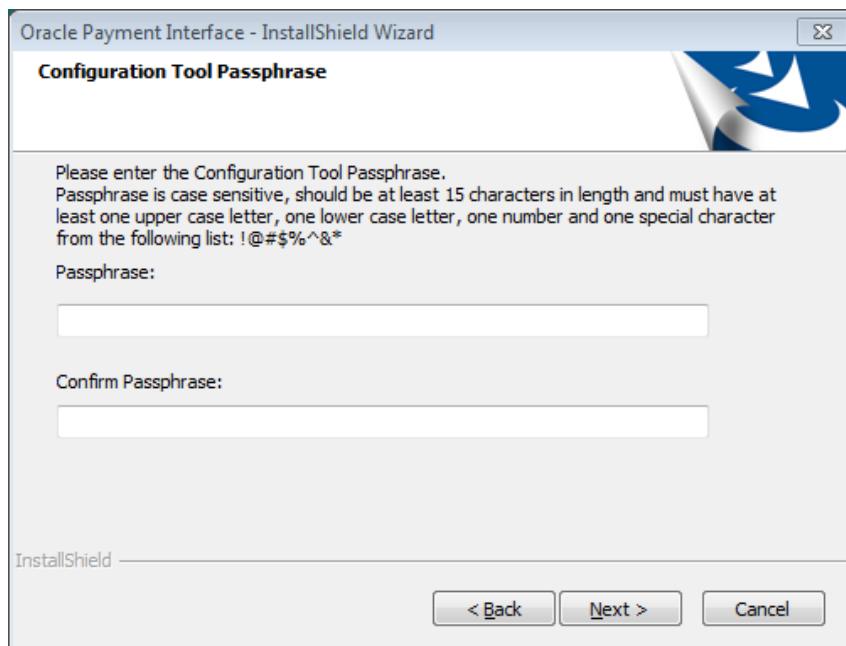
The Configuration Tool Connection Settings screen appears.



- **Host:** Enter the IP address or server name of the PC where the OPI Config Service is installed. This will be the PC where you selected “OPI Services” to be installed.
- Leave the default Port of 8090.

22. Click Next.

The Configuration Tool Passphrase screen appears.



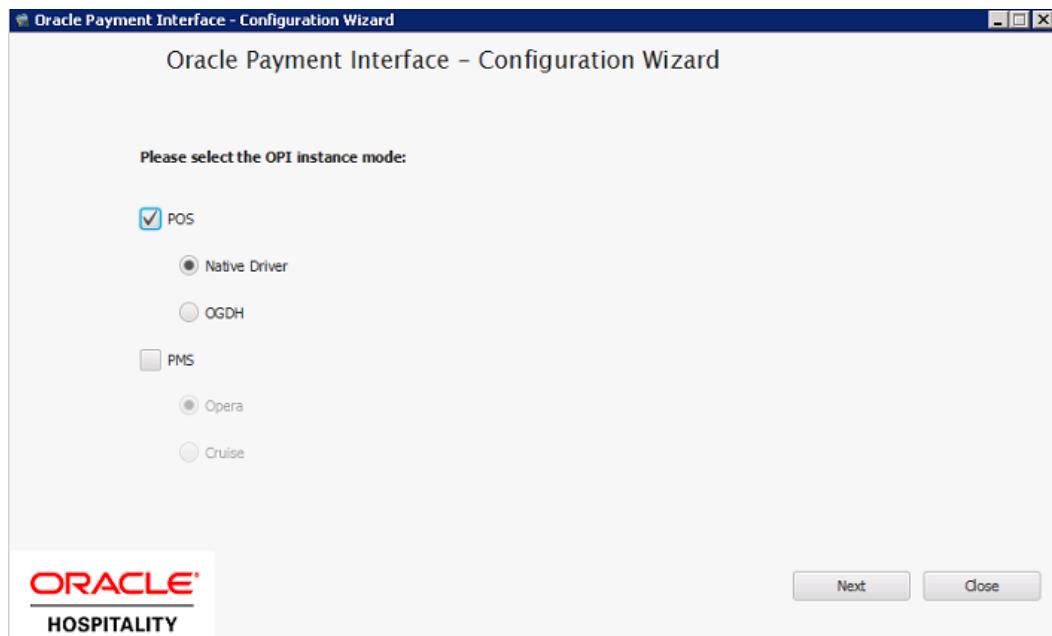
23. Passphrase: The passphrase is case sensitive, should be at least 15 characters in length and must have at least one upper case letter, one lower case letter, one number and one special character from the following list: !@#\$%^&*.

24. Enter a passphrase, confirm it, and then click **Next**.

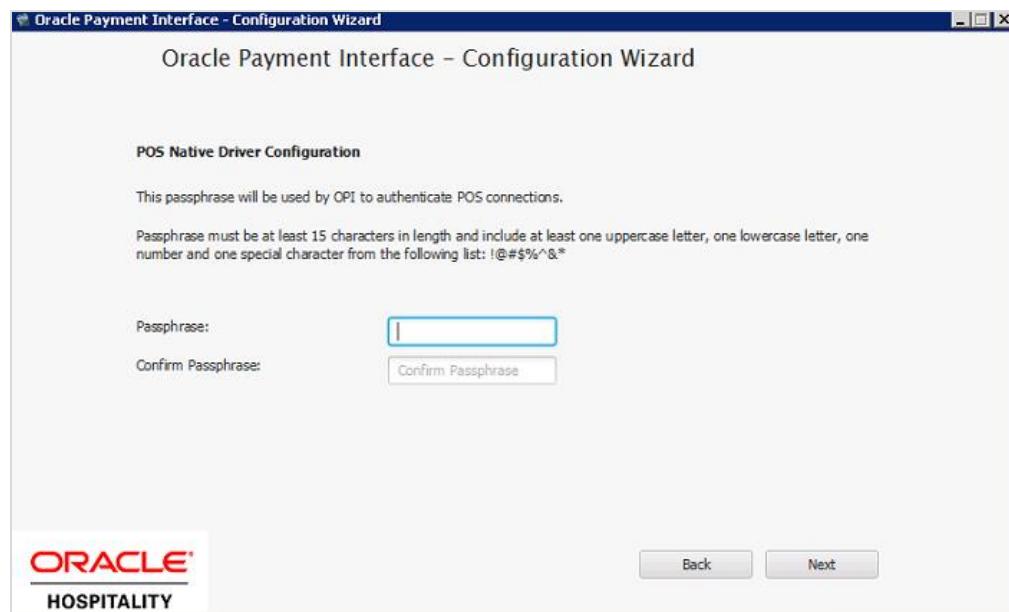
After a brief pause, the Configuration Wizard launches.

Configuring OPI

1. Select **POS** and **Native Driver**, and then click **Next**.

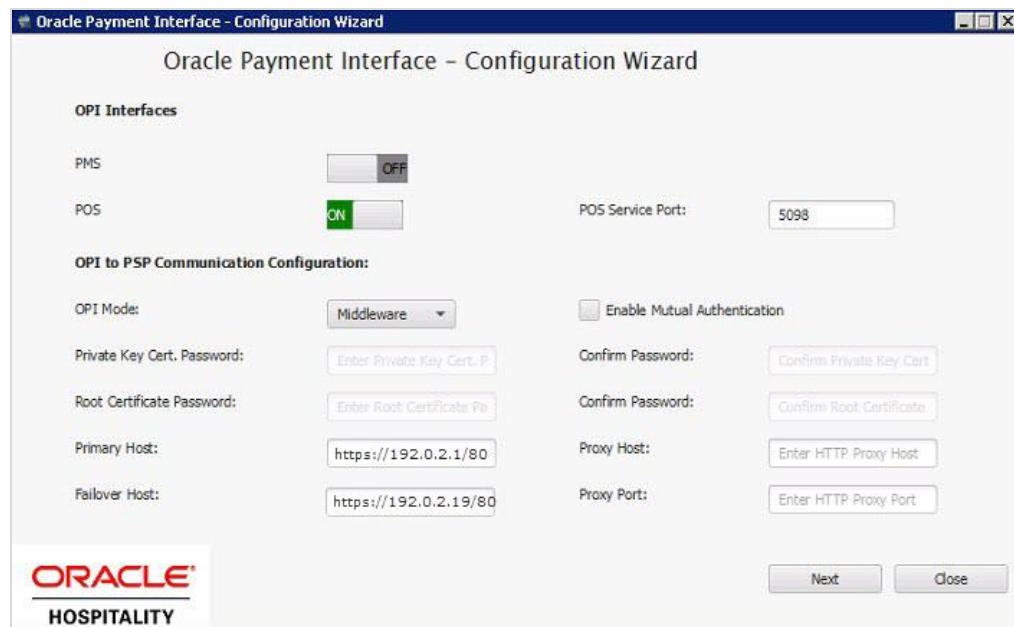


The POS OGDH Configuration screen appears.

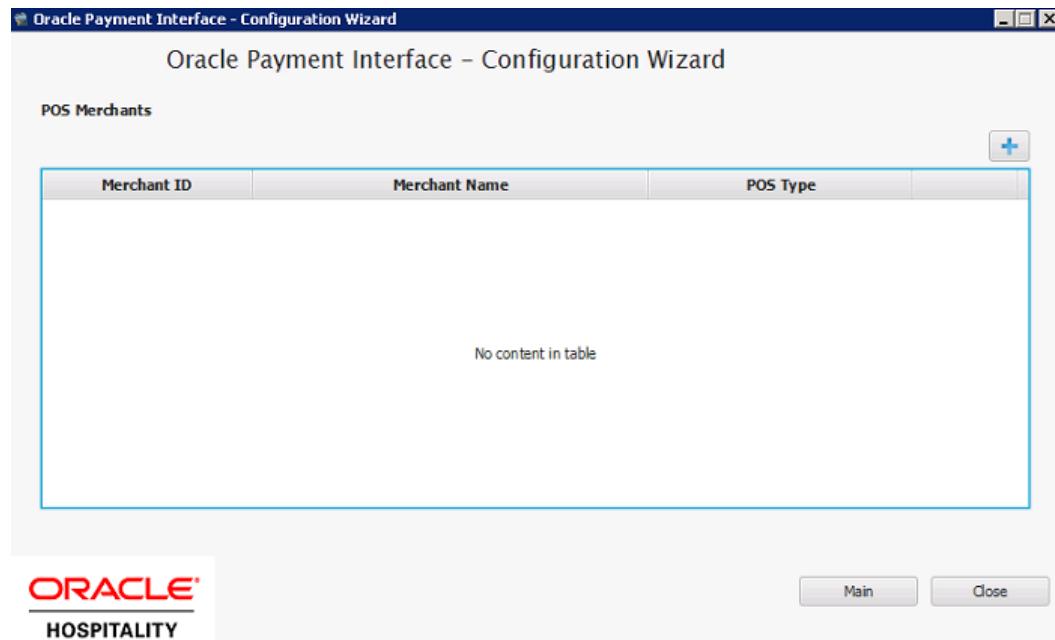


2. Enter and confirm the **Passphrase**, and then click **Next**. Passphrase must be at least 15 characters in length and include at least one uppercase letter, one lower case letter, one number and one special character from the following list: !@#\$%^&*.

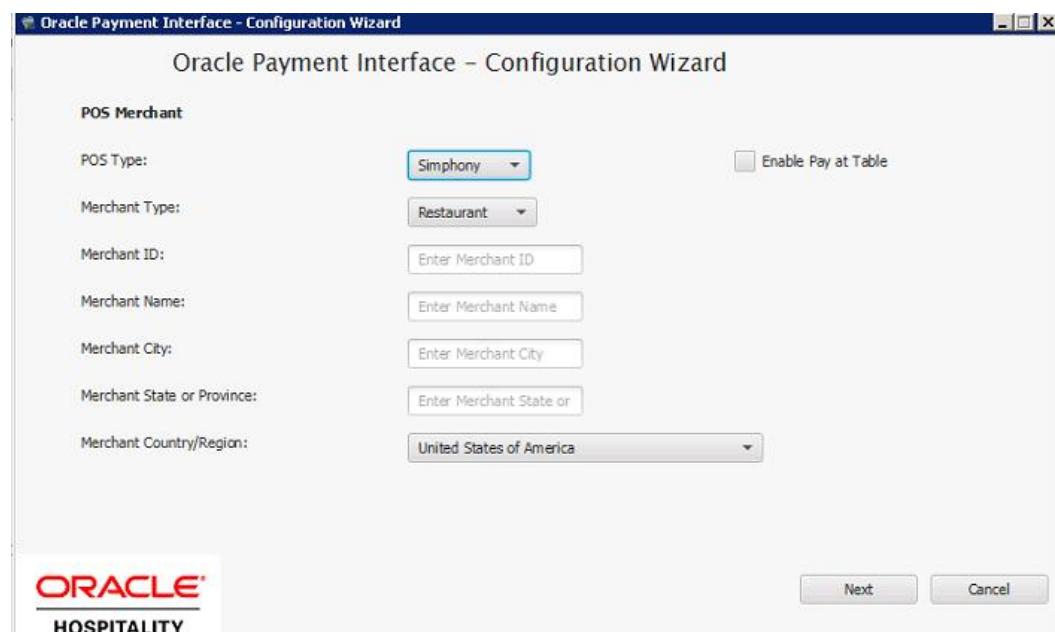
The **OPI Interface** screen appears.



3. **Enable Mutual Authentication:** Enable this option only if the PSP has provided the certificates and passwords for it.
4. **Private Key Cert. Password:** Enter the password and confirm it.
5. **Root Certificate Password:** Enter the password and confirm it.
6. Select the **OPI Mode** either as Middleware or Terminal.
 - **Middleware:** Fill in the primary host connection information and the failover Host information (if provided).
 - **Terminal:** Select correct Port. If using Mutual Authentication, see the Mutual Authentication section in the Oracle Payment Interface Installation and Reference Guide.
7. Click **Next**.



8. Click the blue + icon in top right corner to create new merchant record.



9. Select the **POS Type** as **Simphony**.
10. Select the **Merchant Type** as **Restaurant** or **Retail**.
11. Enter the Device **Merchant ID** for the merchant. The Merchant ID must match the value configured in **EMC | Payment Drivers | Configuration | Common Driver Properties| Merchant Number**.
12. Enter the **Merchant Name**, **Merchant City**, **Merchant State or Province**.
13. Select the **Merchant Country/Region** from the drop-down list.
14. Select the **Enable Pay at Table** check box if the merchant will use Pay at Table.

15. Click **Next**.
16. Add Merchant Terminal Configuration.
17. On the Terminal Configuration screen, enter the **Workstation ID** from the Enterprise Management Console and the PED Devices IP address, and then click **Next**.
18. Repeat the above steps for each required TCP/IP device.
19. After all terminals are mapped, click **Next**.
20. Click **Close** to complete the installation.



21. Click **Finish** to restart the computer. If a reboot cannot be done at the moment, you must stop and then start the OPI Service for current settings to take effect.

Upgrading the OPI

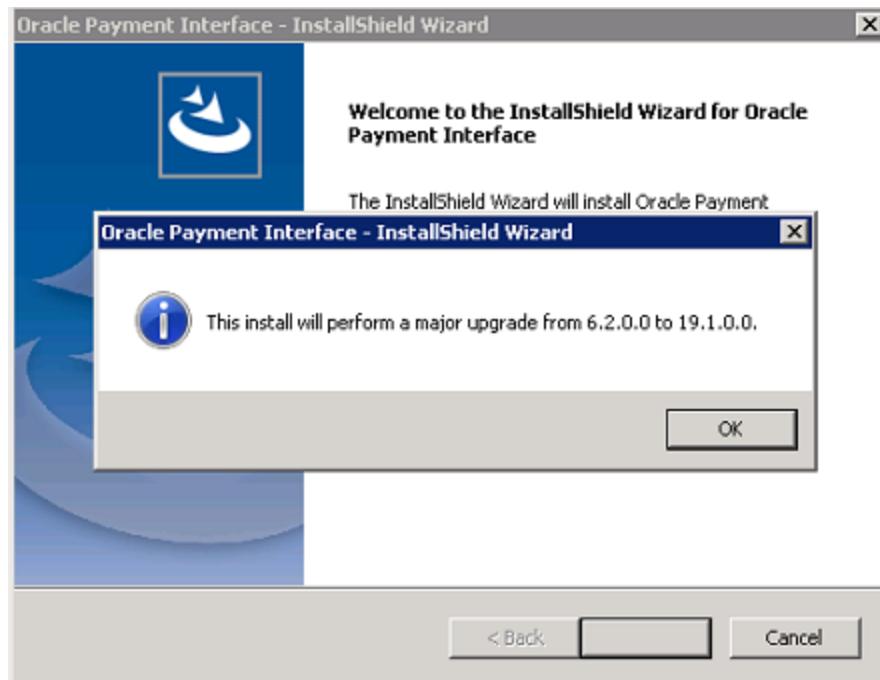
VERY IMPORTANT: Read and follow the upgrade directions.

 **NOTE:**

OPI 6.1 and higher can be upgraded to OPI 19.1.

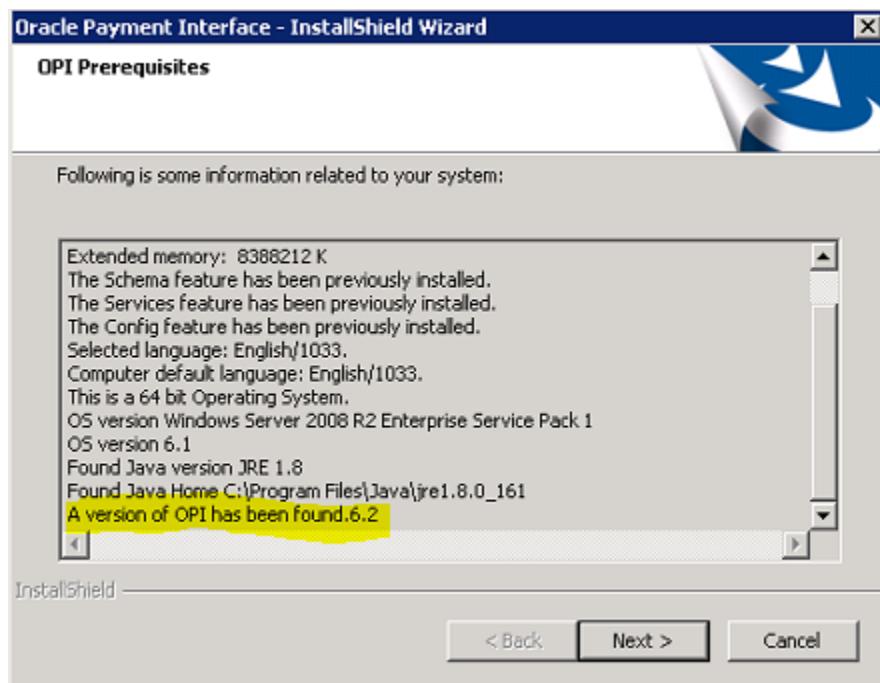
OPI Upgrade Steps

1. Right-click and Run as Administrator the `OraclePaymentInterfaceInstaller_19.1.0.0.exe` file to perform an upgrade.
2. Select a language from the drop-down list, and then click **OK**.

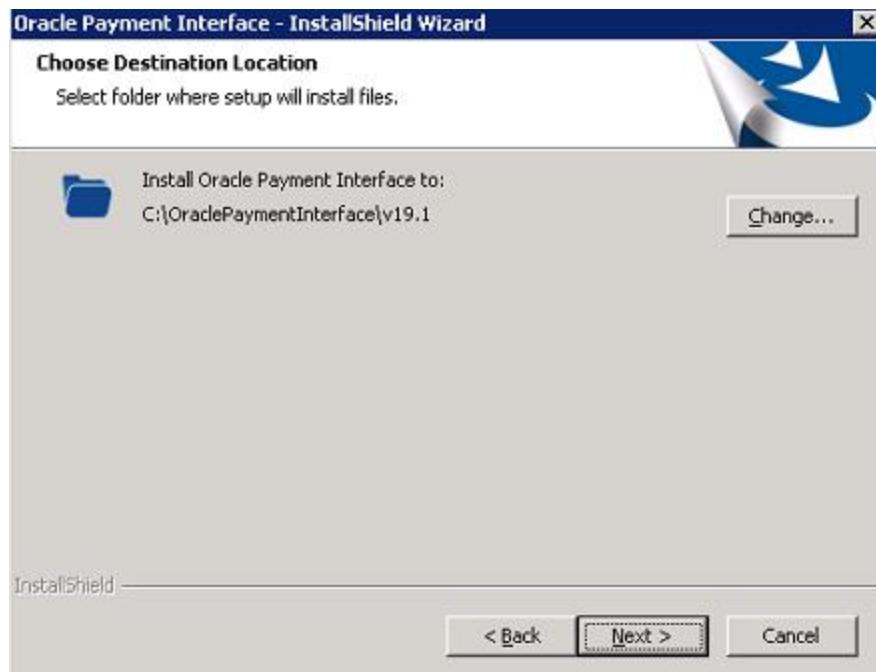


3. Click **Next** on the Welcome screen to proceed with the installation.

Prerequisites for the installation will be checked, including the required free drive space, details of the host environment, and the Java version that is present.



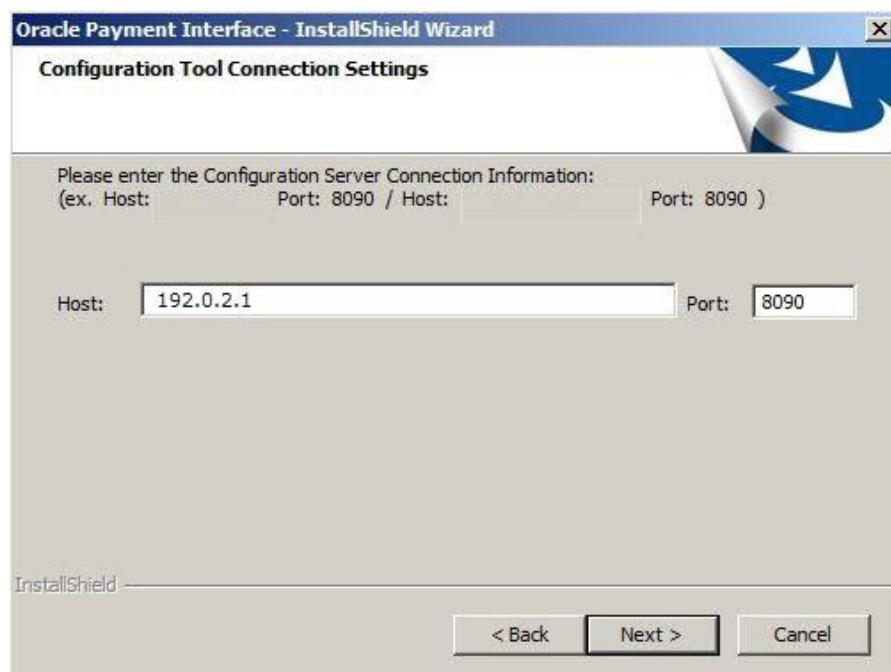
4. Click **Next** on the OPI Prerequisites screen.



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

The Ready to Install the Program screen displays.

7. Click **Install**.



8. Set the Configuration Tool Connection Settings.

Host: Enter the IP address or server name of the PC where the OPI Config Service is installed. This will be the PC where you selected "OPI Services" to be installed.

Port: Leave at 8090.

9. Click **Finish** to allow a reboot.

If you cannot immediately reboot, you must stop and then start the OPI Service for the current settings to take effect.

4

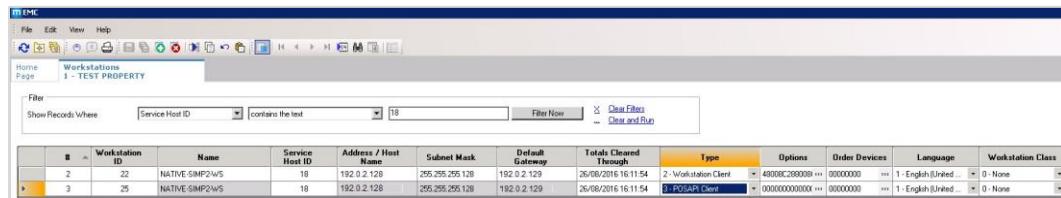
Pay at Table

Configuring Symphony for Pay@Table

Configuring the POSAPI

The Symphony 2.9 POSAPI Workstation runs as a second workstation instance on the same Service Host ID. You can no longer change the Workstation Type to POSAPI as you have done in previous versions of Symphony. The exception to this is if the POSAPI runs on a machine that does not require OPS.

In the Enterprise Management Console Workstation, add a record when prompted to select the Service Host ID of the Workstation where the POSAPI needs to run and set the Type to the POSAPI client. If the POSAPI machine is not available, Pay@Table will not work.



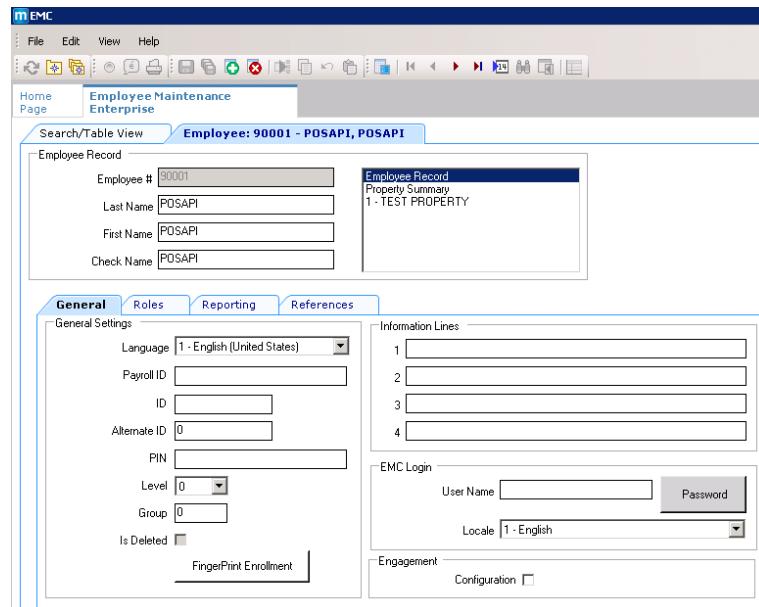
#	Workstation ID	Name	Service Host ID	Address / Host Name	Subnet Mask	Default Gateway	Total Cleaned Through	Type	Options	Order Devices	Language	Workstation Class
2	22	NATIVE.SIMP2/WS	18	192.0.2.128	255.255.255.128	192.0.2.129	26/08/2016 16:11:54	2 - Workstation Client	+ 48000C239009 + 00000000	*** 1 - English (United States)	+ 0 - None	
3	25	NATIVE.SIMP2/WS	18	192.0.2.128	255.255.255.128	192.0.2.129	26/08/2016 16:11:54	3 - POSAPI Client	+ 000000000000 + 00000000	*** 1 - English (United States)	+ 0 - None	

Check and Posting

Calls from OPI to the POSAPI retrieve the check information from the CAPS database. If your CAPS machine is not available, Pay@Table will not work.

Employee

OPI needs the object number of a Symphony employee to use to retrieve check values. It is not required for the employee to have an ID for signing into OPS.



Gratuities

If the Tip prompt is enabled on the Pay at Table devices, then a gratuity record must be linked to the Tender Medias in Simphony EMC. The charged tip configuration options on the Tender Media and the Tip records must be similar. For example, if the Option Post to Charged Tips Total on Tip Reports is enabled on the Tender/Media record, the option must also be enabled on the relevant Service Charge Tip record.

Service Charges Enterprise

General

Current Record

Number	1	Audit This Record
Name	Tip Amt	

General Settings

Percent	0	Tax Class	0 - None
Amount	0.00	Privilege Group	0
Tips Paid Tender/Media	0 - None	Percent to Tips Paid	0
HALO	0.00	Report Group	0 - None

Options

<input checked="" type="checkbox"/> 1 - On = Open; Off = Preset
<input checked="" type="checkbox"/> 2 - On = Amount; Off = Percentage
<input checked="" type="checkbox"/> 3 - Post to Charged Tips Total on Tip Reports
<input type="checkbox"/> 4 - Post to Average Charged Total on Tip Reports
<input type="checkbox"/> 5 - Reference Entry Required
<input type="checkbox"/> 6 - Validation Required
<input type="checkbox"/> 7 - Non-Revenue Service Charge (No Post to Sales)
<input type="checkbox"/> 8 - Taiwanese Paid Out
<input checked="" type="checkbox"/> 9 - Reset Itemizer(s)
<input type="checkbox"/> 10 - Service Charge Adds to Guest Count
<input type="checkbox"/> 11 - Do Not Post to Gross Receipt
<input checked="" type="checkbox"/> 12 - Item is Shareable
<input type="checkbox"/> 13 - Cash Tips
<input type="checkbox"/> 14 - Service Charge Used For Stored Value Transactions
<input type="checkbox"/> 15 - Mask Account Number
<input type="checkbox"/> 16 - Encrypt Service Charge Reference Entry
<input type="checkbox"/> 17 - Use Flexi Amount (Automatic Service Charge Only)
<input type="checkbox"/> 18 - Gift Certificate Sold
<input type="checkbox"/> 21 - Post To Till Totals
<input type="checkbox"/> 22 - Add To Checks Begun/Paid Count if Non-Revenue
<input type="checkbox"/> 23 - Rental Deposit
<input type="checkbox"/> 26 - Configure as Banquet Tip

Search within Context Sensitive Help

Tender/Media Enterprise

General

Current Record

Number	9101	Audit This Record
Name	01-Visa	

Charge Tip Options

Service Charge	1 - Tip Amt
----------------	-------------

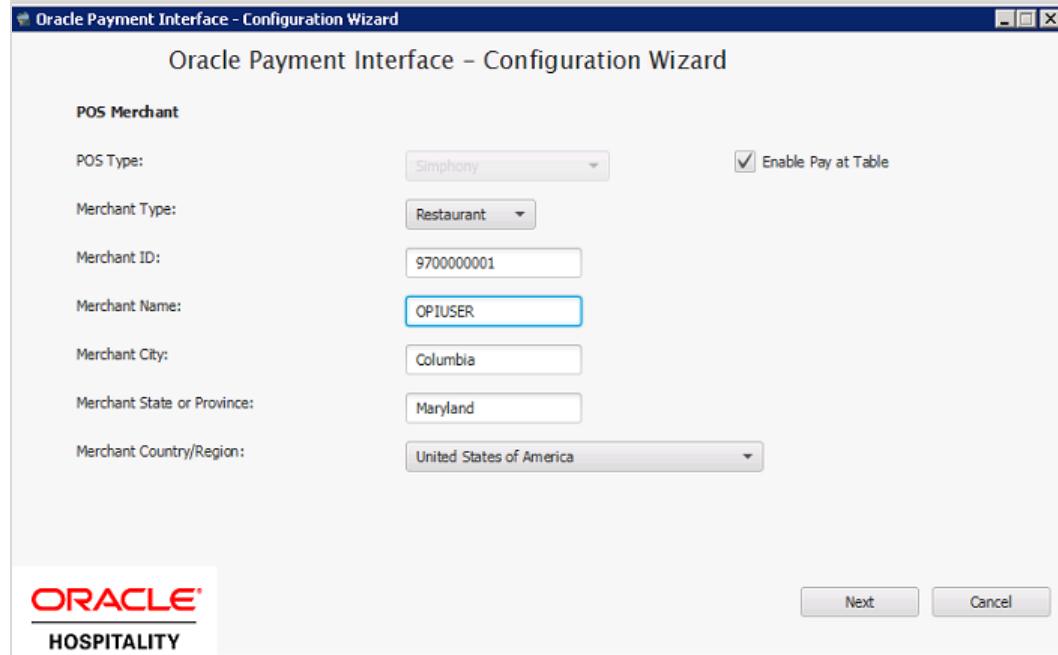
Charge Tip Options

<input checked="" type="checkbox"/> 9 - Charged Tip Required
<input type="checkbox"/> 10 - Post Amount to Gross Receipts on Tip Reports
<input checked="" type="checkbox"/> 11 - Post Amount to Charged Receipts on Tip Reports
<input type="checkbox"/> 36 - On = Charged Tip Must Be Less Than Pmt. Off = Any Amount

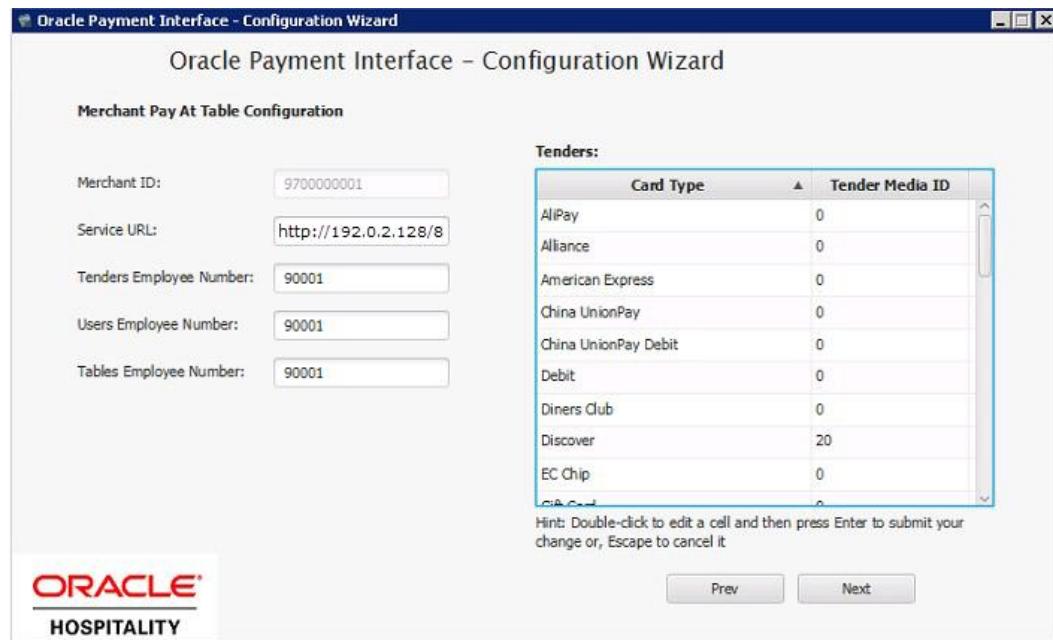
Configuring OPI Pay at Table

To configure the OPI Pay@Table:

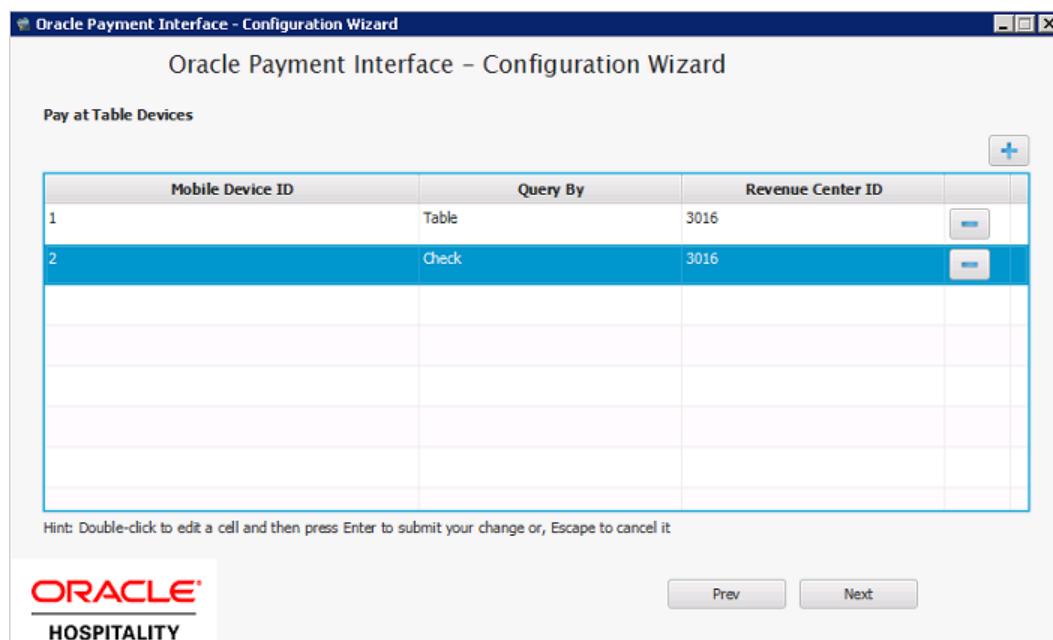
1. Enable the OPI Pay@Table functionality by following the steps in the OPI section above to [install and configure a Merchant](#).



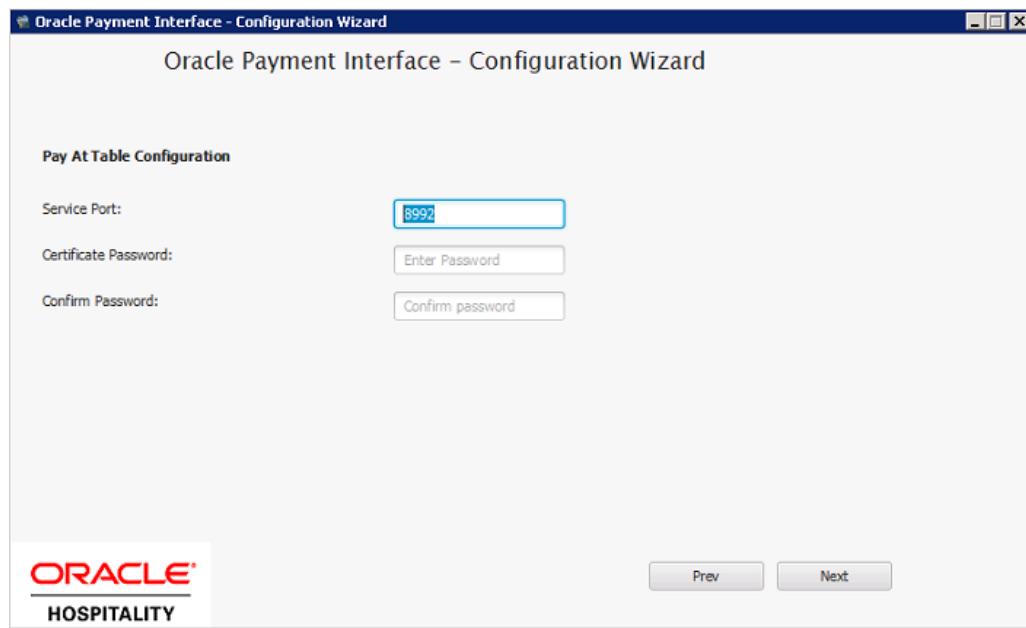
2. Click **Next**.
3. With Pay at Table enabled you must enter the following:
 - **Service URL** – Enter the Host Name or IP address of the Simphony POSAPI Client Workstation host.
 - **Employee Number** – Enter the Employee object number from Simphony EMC that OPI uses to pickup check values though the POSAPI.
 - Map the required payment types to the Tender Media object numbers from Simphony EMC.



4. Select the **Add Pay at Table Devices** option, add the mapping details for each Pay at Table device that connects to OPI.



5. Enter the **Mobile Device ID**.
6. Select a **Query By** Table or Check.
7. Enter the **RVC** object number from the Simphony EMC of the RVC where the device will be used.
8. Click **Next**.



9. Enter the **Service Port** and **Certificate Password**, and then click **Next**.
10. Click **Next** to continue.
11. Click **Close** to continue.
12. Click **Finish** to restart the computer.

For more information, refer to the *Oracle Payment Interface Installation and Reference Guide*.