

Oracle® Payment Interface

Oracle Hospitality Cruise Shipboard Property Management System Installation Guide



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Preface

Purpose

This guide explains the setup required to configure and use Oracle Payment Interface (OPI) with Shipboard Property Management System (SPMS).

Audience

This document is intended to cover the steps required to setup OPI to handle the integration with Shipboard Property Management System.

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
- 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 1-1 Revision History

Date	Description
June 2020	<ul style="list-style-type: none">• Initial Publication

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Pre-Installation

Consider the following guidelines before installing OPI with SPMS:

- SPMS Release 8.0.8 is the minimum release you can use to integrate with OPI. OPI 20.1 does not install a database. If you are doing a clean install of OPI, a database must be installed first.
- OPI requires jre1.8.0_191 to be installed before OPI installation.
- OPI requires at least 6 GB of free disk space, 4GB Memory and you must install OPI using a System Administrator account.
- A database is still required to hold the OPI configuration and audit event data but must be installed separately before installing OPI.
- Root access to the database is required during the OPI installation, only to create a dedicated OPI database user, which can have a lower level of privilege than the Root user, and is used for OPI tasks once the installation is complete.

Supported Database Types

The Oracle Payment Interface Installer release 20.1 supports the following database connections:

- MySQL Database 5.7
- Oracle Database 12c

Downloading the OPI 20.1.0.1 Installer and Patch set

The OPI 20.1 Installer is available for download from Oracle Software Delivery Cloud, search by:

- **Release:** Oracle Payment Interface.
- **Select:** REL: Oracle Payment Interface 20.1
- Download the **OraclePaymentInterfaceInstaller_20.1.0.1.exe** and **InterimPatch_20.1.0.1.exe** from My Oracle Support.

During the installation of OPI, you must confirm the following:

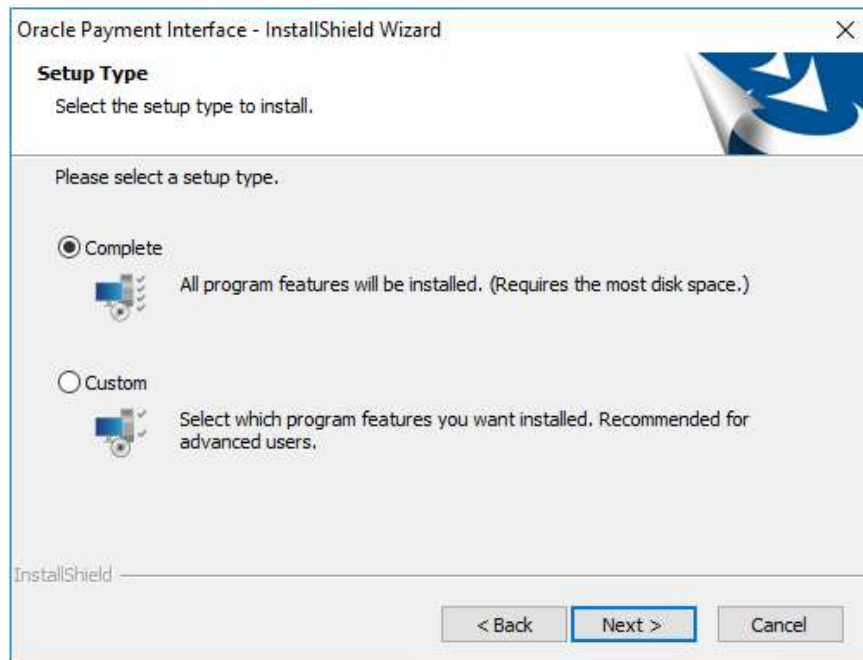
- Chain Code and Property Code.
- IP address of the OPI Server.
- Ensure you have the SQL root/Oracle user password for OPI database.

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Installing OPI 20.1.0.1

1. Copy the downloaded OraclePaymentInterfaceInstaller_20.1.0.1, to C:\temp folder.
2. Double-click to launch the InstallShield.
3. Select your language preference, and then click **OK**.
4. Click **Next** on the Welcome to the InstallShield Wizard for Oracle Payment Interface window.
5. Click **Next** on the OPI Prerequisites window.

Figure 2-1 - OPI InstallShield Wizard

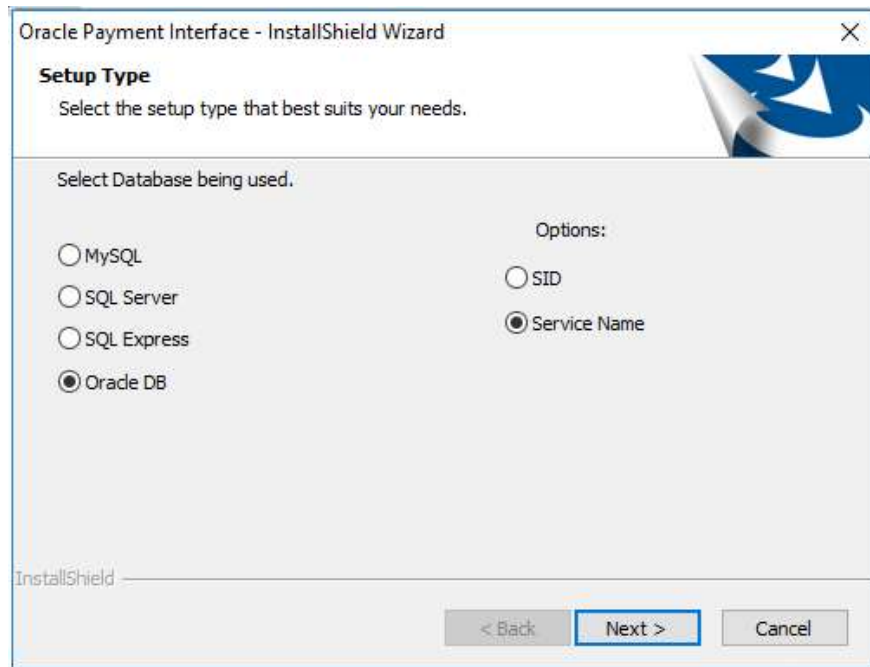


6. At the Setup Type window, select the **Complete** option to install all program features, and then click **Next**.
7. At the Choose a Destination Location window, accept the default installation location, and then click **Next**.
8. Click **Install** on the Ready to Install the Program window.
9. At the Setup Type window, select the database type used and click **Next**.

 **NOTE:**

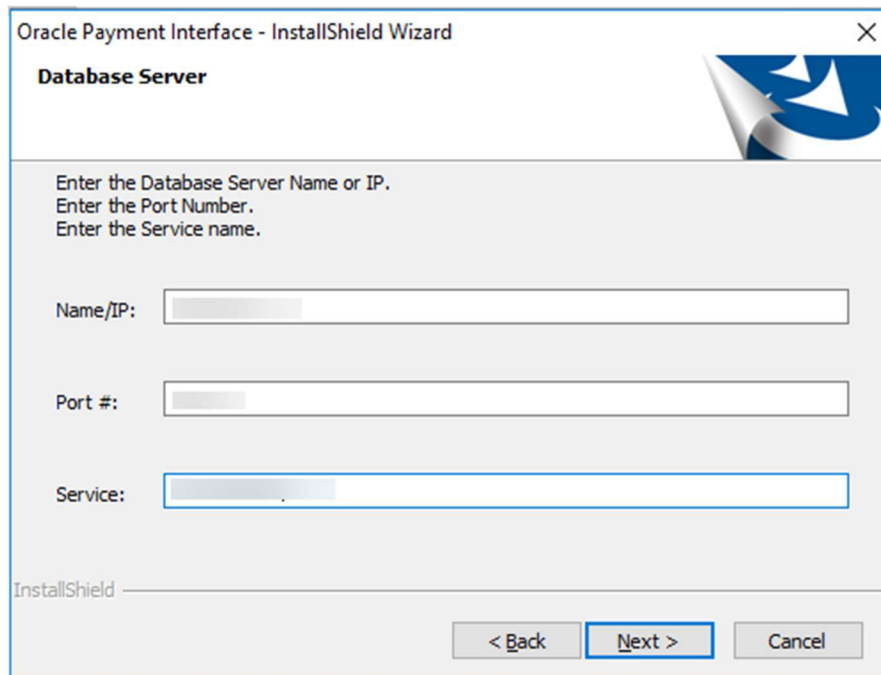
OPI does not install any database, so the database must already be installed.

Figure 2-2 - OPI InstallShield Database Selection



10. Select **Oracle DB** and **Service Name** option, and then click **Next**.

Figure 2-3 - OPI InstallShield Database Server



11. At the Server Login window, enter the DBA User credentials and then click **Next**.

Figure 2-4 - OPI InstallShield Database Server Login

The screenshot shows a dialog box titled "Oracle Payment Interface - InstallShield Wizard" with a close button (X) in the top right corner. The main heading is "Database Server Login". Below the heading, it says "Database server requires login credentials to continue." There is a section labeled "DBA User" which contains two input fields: "Login ID:" and "Password:". At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a blue border.

12. At the Database User Credentials window, input the following and click **Next**.

- **User Name:** Create a new user.
- **Password:** Create a password.
- Confirm password

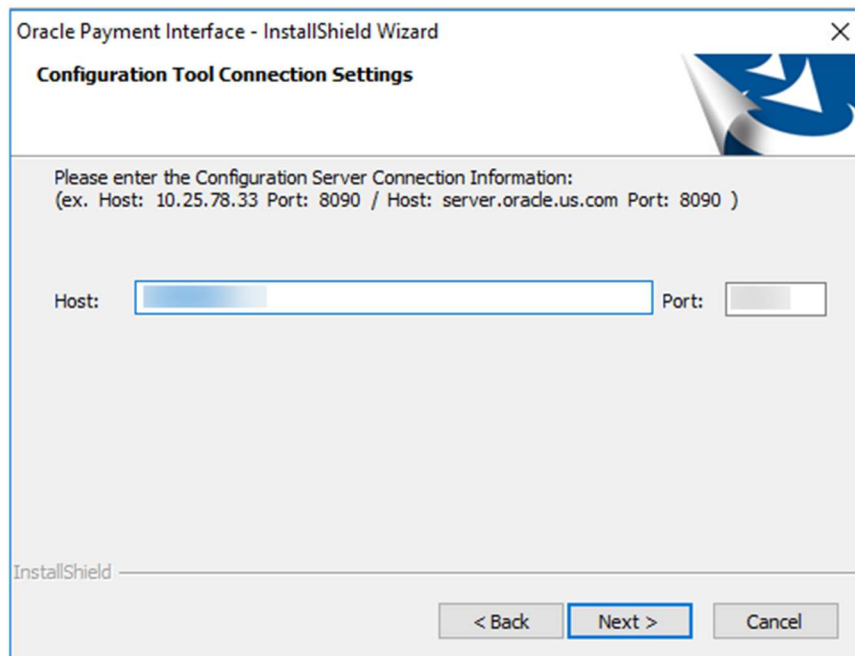
Figure 2-5 - OPI InstallShield Database User Credentials

The screenshot shows a dialog box titled "Oracle Payment Interface - InstallShield Wizard" with a close button (X) in the top right corner. The main heading is "Database User Credentials". Below the heading, there is a paragraph of instructions: "Enter the user name and password to create a new database user account that will be used by the Oracle Payment Interface application. 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: !@#\$\$%^&*". There are three input fields: "User Name:", "Password:", and "Confirm Password:". At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a blue border.

13. Click **OK** on the Database connection successful dialog.

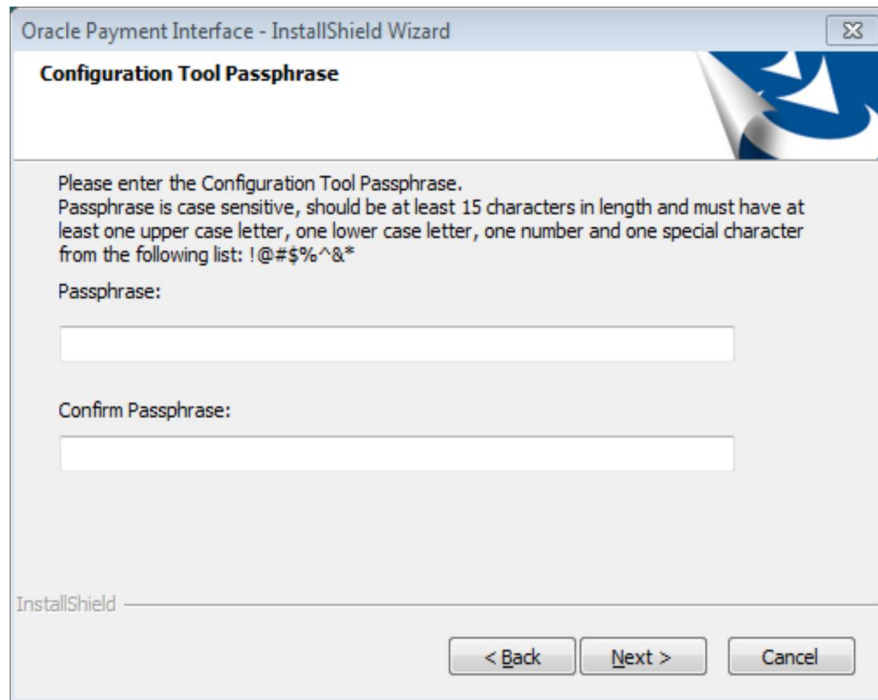
14. Click **OK** on the Database Configuration operation successful dialog.
15. At the Configuration Tool Superuser Credentials window, enter the following and click **Next**
 - **User Name:** To Create the super user account to access OPI configuration tools
 - **Password:** Create a password.
 - Confirm the password
16. Click **OK** on the 'Create SuperUser operation successful' dialog.
17. At the Configuration Tool Connection Settings window, enter the Host IP and click **Next**.
 - **Host:** You may leave this as 127.0.0.1 if the OPI configuration server is installed on this PC. Otherwise, specify the name or IP address of the PC where the OPI configuration server will be installed.
 - Leave the default Port as 8090.

Figure 2-6 - OPI InstallShield Configuration Tool Connection Settings



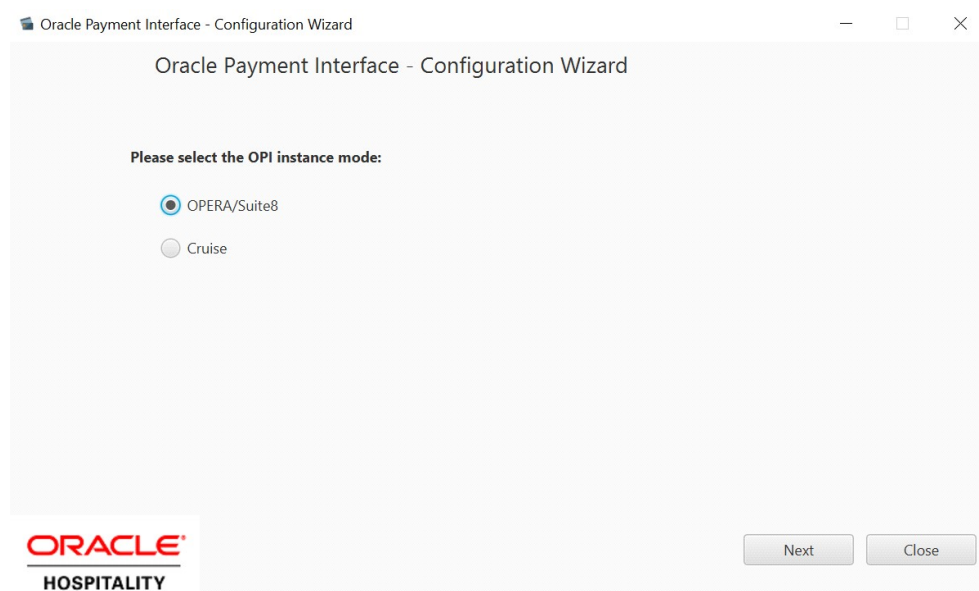
18. At the Configuration Tool Passphrase window, enter the Passphrase and click **Next**.

Figure 2-7 - OPI InstallShield Configuration Tool Passphrase



19. At the OPI Configuration Wizard page, select **Cruise** and click **Next**.

Figure 2-8 - OPI Instance Mode

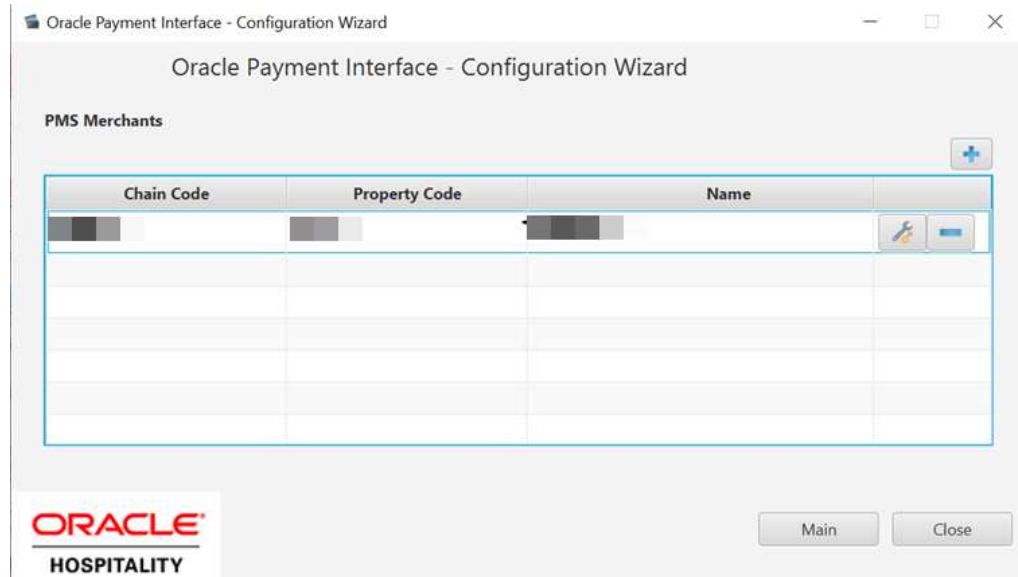


20. Enter the Configuration setting per below:

- **OPI Mode:** Middleware
- **Set Primary Host:** <https://127.0.0.1:8991>
- **Set failover Host:** <https://127.0.0.1:8991>

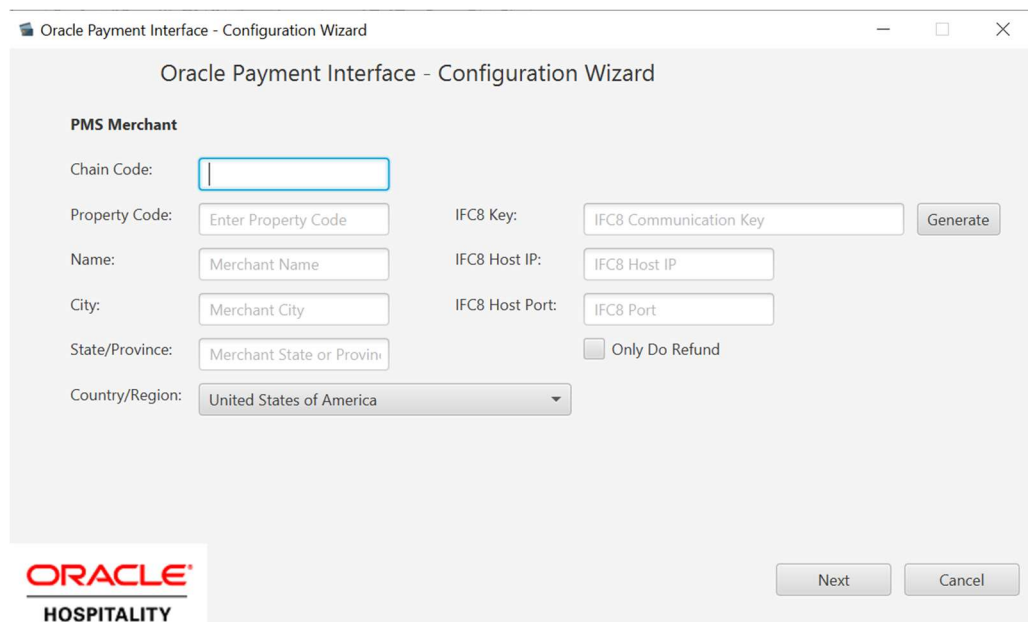
21. Add the PMS Merchants by clicking the plus (+) sign.

Figure 2-9 - OPI PMS Merchant Configuration Window



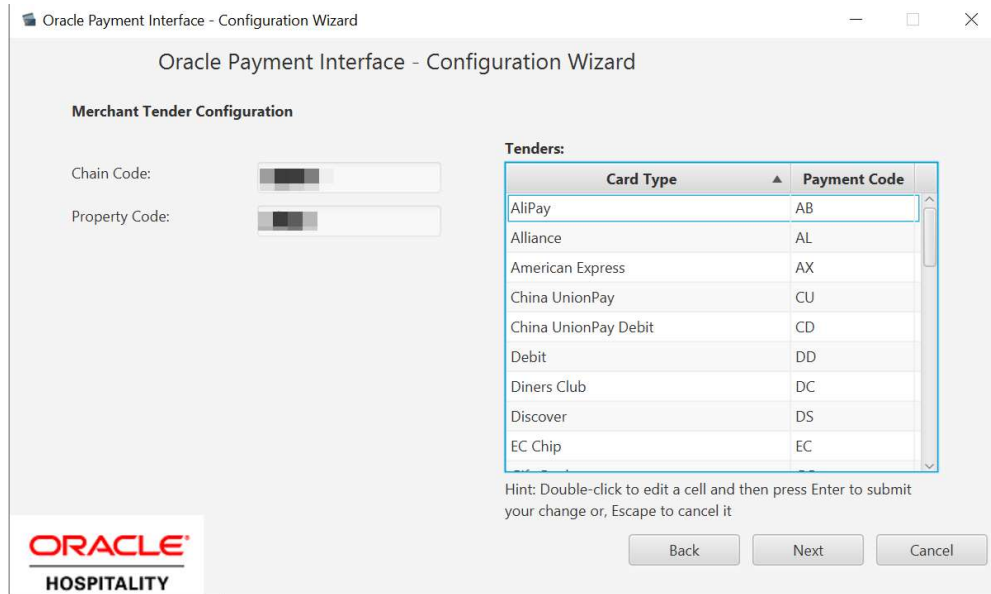
22. Fill in Merchant Details and click **Next**.

Figure 2-10 - OPI PMS Merchant Details



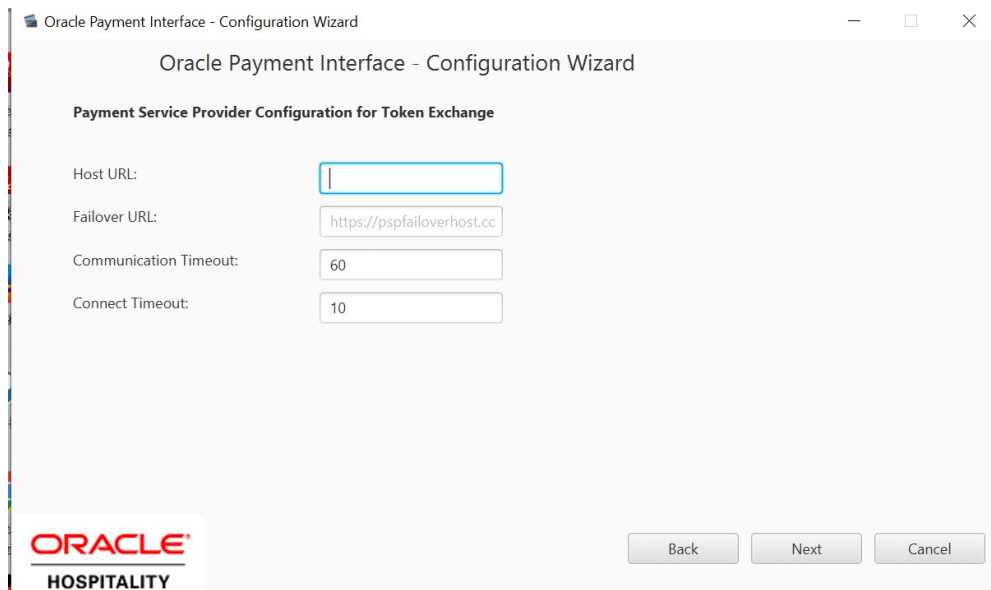
23. Select the Tender Media and click **Next**.

Figure 2-11 - Merchant Tender Media Configuration



24. At the Payment Service Provider Configuration for Token Exchange, enter the URL and click **Next**.

Figure 2-12 - OPI Host URL Setup



25. Click **Close** to exit.
26. Select "Yes, I want to restart my computer now" and click **Finish**.

Applying OPI Patchset

1. Right-click the **OraclePaymentInterfaceInstaller_InterimPatch_20.1.0.1**.
2. Select **Run as Administrator** to begin installing OPI 20.1.0.1 patch.
3. Click **Next** to continue.
4. Click **OK** on the Patch Update operation successful dialog box.

 **NOTE:**

The OPI installer saves detailed upgrade logs in the OraclePaymentInterface_TempLogs folder on the OPI drive. You can delete this folder if it is not needed.

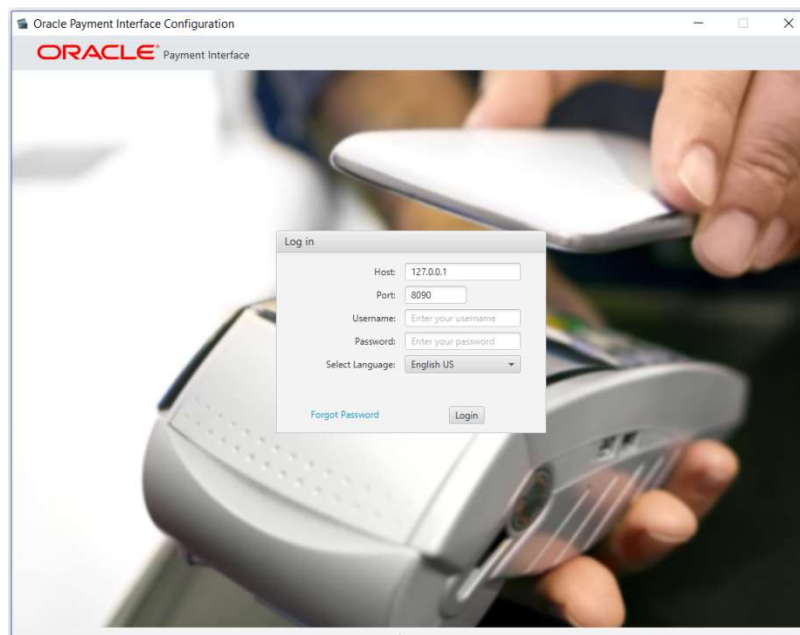
3

Configuring OPI

This section describes the configuration requirement in OPI System which integrates with SPMS.

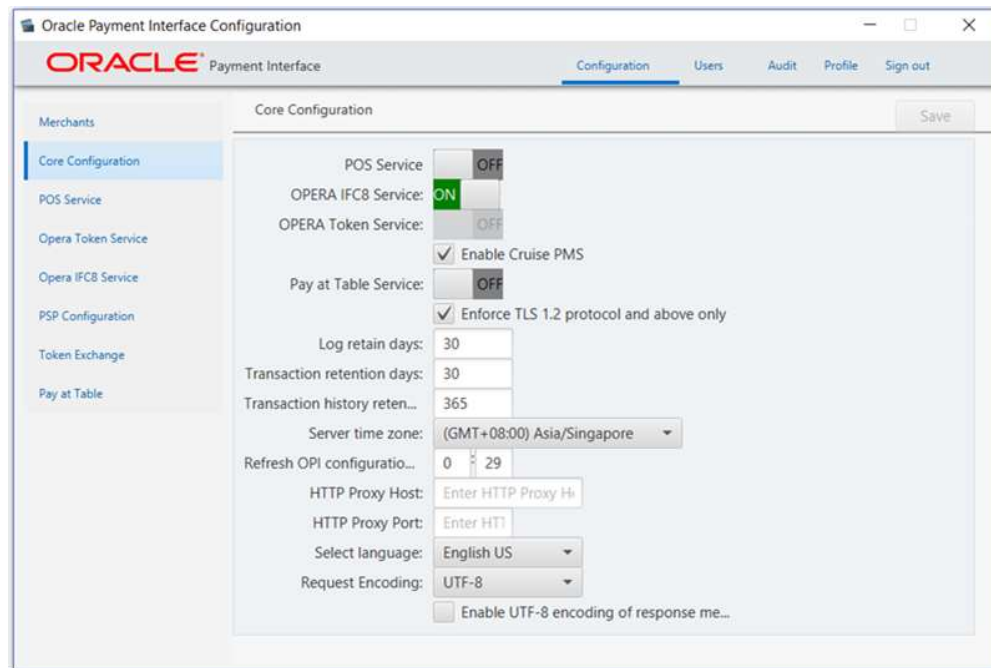
1. Double-click on
`C:\OraclePaymentInterface\V20.1\Config\LaunchConfiguration.bat`
2. Login with the Super user account you created during OPI installation.

Figure 3-1 - OPI Interface Main Page



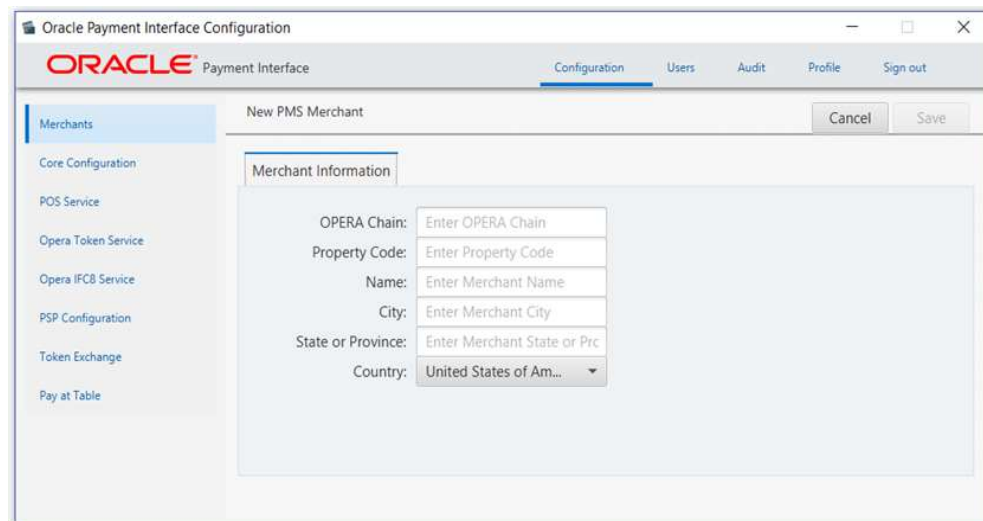
3. Go to **Core Configuration**, check option **Enable Cruise PMS** and then click **Save**.

Figure 3-2 - OPI Interface Core Configuration



4. Go to **Merchant Tab** to configure the PMS Merchant details.
5. Click on '+' and select **New PMS Merchant**.
6. New PMS Merchant screen appears set below for SPMS uses.

Figure 3-3 - OPI Interface Merchants Configuration



- a. **OPERA chain:** SPMS Chain code for the Merchant.
- b. **Property Code:** SPMS Property code for the Merchant.
- c. **Name:** Name of the Merchant.
- d. **City:** City location of the Merchant.

- e. **State or Province:** State or Province location of the Merchant.
 - f. **Country:** Country location of the Merchant, this will indicate which currency it will operate when selected.
7. Click on **Save**.
8. The IFC8 Settings and Terminals tab will appear. Enter below settings:
 - a. **IFC8 Key:** This key will be inserted into OHC OPI Daemon for validation between OPI with SPMS.
 - b. **IFC8 Host:** OHC OPI Daemon machines Hostname or IP Address.
 - c. **IFC8 Port:** OHC OPI Daemon port number.
9. Click **Save**.
10. Go to PSP Configuration tab and set below for SPMS uses:
 - OPI to PSP Communication Configuration:
 - a. **Select OPI Mode:** Middleware
 - b. **Set Primary Host:** Specify the middleware server information.
 - c. **Set Failover Host:** Specify the failover middleware server information.
11. Click **Save**.
12. Click **Sign out** to logout the configuration screen.

Token Exchange Handling

This section described the settings required for token exchange handling between OPI and SPMS.

The Payment Service provider will need to provide the PSP root certificate and the client certificate.

PSP Client-Side Certificates

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

To achieve this, the PSP is required to provide two files:

- A client-side certificate file in the name of “OPI_PSP_1.pfx”, this is a PKCS#12 Certificate file that contains a public key and a private key and will be protected by a password. If the file provided by PSP has a different name, rename to “OPI_PSP_1.pfx” before deploying it to OPI.
- The root certificate file for the server-side certificate that is deployed at the 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 at the PSP side. We expect the root certificate file provided by PSP to be in the format of .cer or .crt. For the demo purpose in this document, we assume the file has the name “ca-cert.crt”

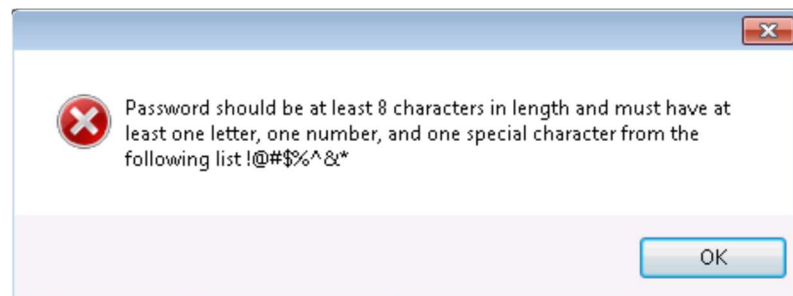
Handling the Client-Side Certificate

To deploy the client certificate on the OPI side, place the file in folder
\\OraclePaymentInterface\v20.1\Services\OPI\key\

The passwords set by the PSP must meet the minimum complexity requirements discussed below or it will not be possible to enter the details to the OPI configuration.

NOTE:

The PSP Client-Side Certificates expiration date will vary depending on what the PSP set during the 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.



Handling the Root Certificate File

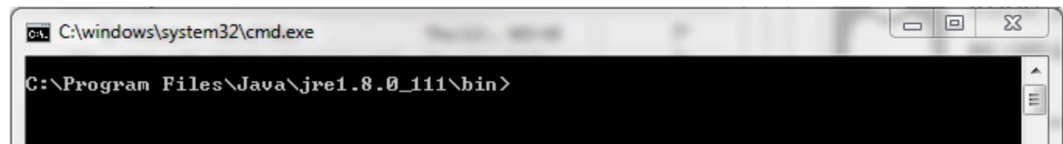
To load the root certificate file for the PSP server certificate into the Java key store, perform the following steps:

Creating a JKS

From a command prompt, change to the JRE bin folder for the keytool command to be recognized.

The exact path of your JRE bin folder will depend on the environment which you are running the commands, and the JRE version you have installed, but may be similar to the example path shown below;

Figure 3-4 - Sample JRE File path



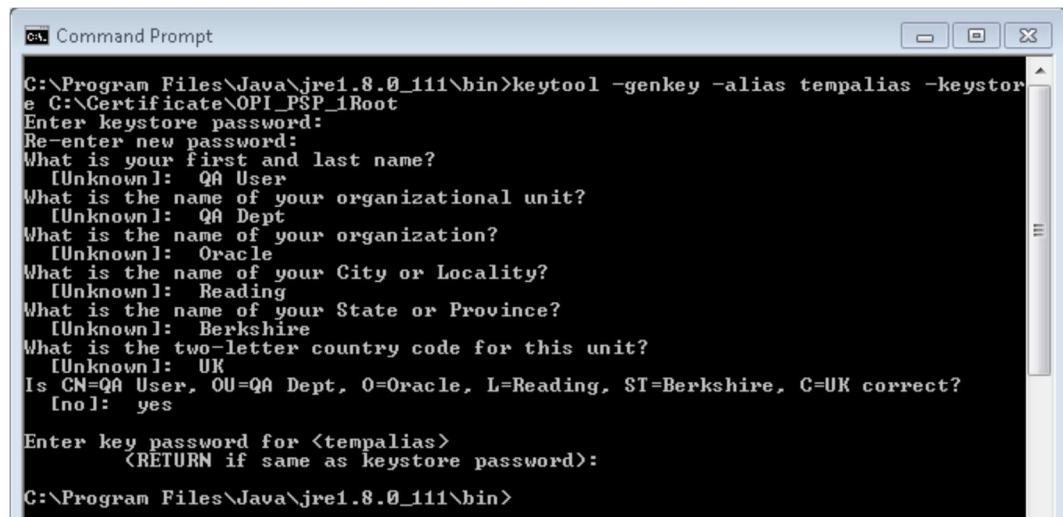
The three (3) commands below when runs in sequence;

- Create a new Java keystore,
- Delete the default key created inside the Java Key Store
- Import the supplied root certificate in its place:

In the following example, the root .cer / .crt file is named ca-cert.crt, and is located in the folder C:\Certificates. Adjust file names and paths to be relevant to your details. OPI expects that the Java key store file that contains the root certificate for the PSP server certificate to be in the name of "OPI_PSP_1Root".

```
keytool -genkey -alias tempalias -keystore
C:\Certificates\OPI_PSP_1Root
```

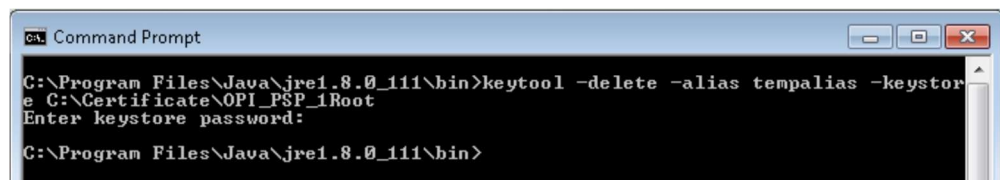
You must supply some basic information during the creation of the Java keystore, including a password when prompt.



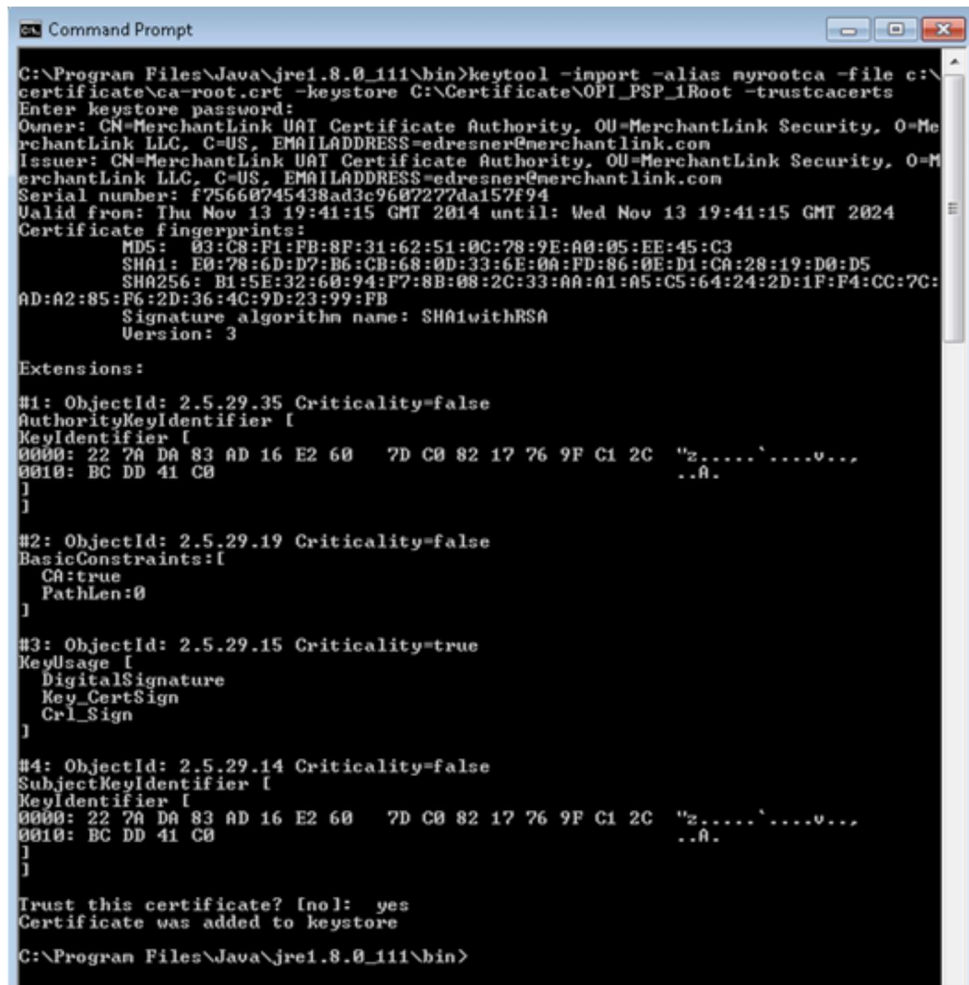
You should use the same key password as for the keystore password when prompted.

For example, (RETURN if same as keystore password – Press Enter)

```
keytool -delete -alias tempalias -keystore
C:\Certificates\OPI_PSP_1Root
```



```
keytool -import -alias myrootca -file C:\Certificates\ca-
cert.crt -keystore C:\Certificates\OPI_PSP_1Root -
trustcacerts
```



```

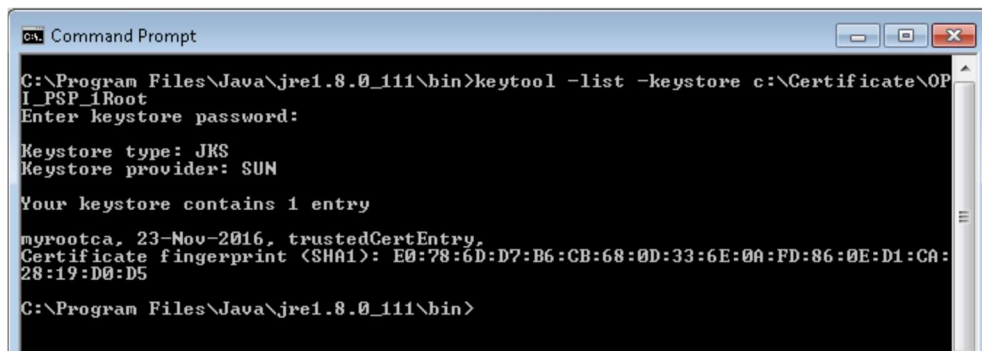
C:\Program Files\Java\jre1.8.0_111\bin>keytool -import -alias myrootca -file c:\
certificate\ca-root.crt -keystore C:\Certificate\OPI_PSP_1Root -trustcacerts
Enter keystore password:
Owner: CN=MerchantLink UAT Certificate Authority, OU=MerchantLink Security, O=Me
rchantLink LLC, C=US, EMAILADDRESS=edresner@merchantlink.com
Issuer: CN=MerchantLink UAT Certificate Authority, OU=MerchantLink Security, O=M
erchantLink LLC, C=US, EMAILADDRESS=edresner@merchantlink.com
Serial number: f75660745438ad3c9607277da157f94
Valid from: Thu Nov 13 19:41:15 GMT 2014 until: Wed Nov 13 19:41:15 GMT 2024
Certificate fingerprints:
    MD5:  03:C8:F1:FB:8F:31:62:51:0C:78:9E:A0:05:EE:45:C3
    SHA1: E0:78:6D:D7:B6:CB:68:0D:33:6E:0A:FD:86:0E:D1:CA:28:19:D0:D5
    SHA256: B1:5E:32:60:94:F7:8B:08:2C:33:AA:A1:A5:C5:64:24:2D:1F:F4:CC:7C:
AD:A2:85:F6:2D:36:4C:9D:23:99:FB
    Signature algorithm name: SHA1withRSA
    Version: 3

Extensions:
#1: ObjectId: 2.5.29.35 Criticality=false
AuthorityKeyIdentifier [
KeyIdentifier [
0000: 22 7A DA 83 AD 16 E2 60  7D C0 82 17 76 9F C1 2C  "z.....`....v...
0010: BC DD 41 C0  ..A.
]
]
#2: ObjectId: 2.5.29.19 Criticality=false
BasicConstraints:[
CA:true
PathLen:0
]
#3: ObjectId: 2.5.29.15 Criticality=true
KeyUsage [
DigitalSignature
Key_CertSign
Crl_Sign
]
#4: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: 22 7A DA 83 AD 16 E2 60  7D C0 82 17 76 9F C1 2C  "z.....`....v...
0010: BC DD 41 C0  ..A.
]
]
Trust this certificate? [no]: yes
Certificate was added to keystore
C:\Program Files\Java\jre1.8.0_111\bin>

```

Verify the new Java keystore's details by running the following command if required;

```
keytool -list -keystore c:\Certificates\OPI_PSP_1Root
```



```

C:\Program Files\Java\jre1.8.0_111\bin>keytool -list -keystore c:\Certificate\OP
I_PSP_1Root
Enter keystore password:

Keystore type: JKS
Keystore provider: SUN

Your keystore contains 1 entry

myrootca, 23-Nov-2016, trustedCertEntry,
Certificate fingerprint (SHA1): E0:78:6D:D7:B6:CB:68:0D:33:6E:0A:FD:86:0E:D1:CA:
28:19:D0:D5

C:\Program Files\Java\jre1.8.0_111\bin>

```

OPI_PSP_1.pfx & OPI_PSP_1Root must be located in the following folder:
 \OraclePaymentInterface\v20.1\Services\OPI\key\

Configuring Token Exchange

1. At OPI Configuration, go to **Token Exchange tab** and set below for SPMS uses :

Figure 3-5 - OPI Configuration Token Exchange

The screenshot shows the Oracle Payment Interface Configuration window. The title bar reads "Oracle Payment Interface Configuration". The main header includes the Oracle logo and "Payment Interface", with navigation tabs for "Configuration", "Users", "Audit", "Profile", and "Sign out". A sidebar on the left lists menu items: "Merchants", "Core Configuration", "POS Service", "Opera Token Service", "Opera IFCB Service", "PSP Configuration", "Token Exchange" (highlighted), and "Pay at Table". The main content area is titled "Token Exchange Configuration" and contains a "Save" button in the top right. The configuration fields are:

- Primary Host URL: [Text Input]
- Failover Host URL: [Text Input]
- Private Key Cert. Password: [Password Input]
- Confirm Private Key Cert. Pa...: [Password Input]
- Root Certificate Password: [Password Input]
- Confirm Root Certificate Pa...: [Password Input]

- **Host URL:** The PSP Host URL for Token Exchange
 - **Failover URL:** The PSP Failover Host URL for Token Exchange. If a failover URL is not available, leave this blank
 - **Keystore Password:** Password of the Key Store containing the PSP Root Certificate
 - **Repeat Keystore Password:** Password of the Key Store containing the PSP Root Certificate
 - **Certificate Password:** Password of the Client-Side Password provided by the PSP
 - **Repeat Certificate Password:** Password of the Client-Side Password provided by the PSP
2. Click **Save**.
 3. Click **Sign Out** to close.
 4. Restart the OPI Services.

4

SPMS Configuration

To enable OPI Handling, login to **Administration module, System Setup, Database Parameters**, and set the Parameter value to “OPI” under ‘Not Specified’ group, **CC Transfer Format**.

OHC OPI Web Service:

Refer to [Automated WebServices Installer – Installation Guide](#) to install OHC OPI Web Services and OHC OPI Daemon Service.

OHC OPI Daemon Service Configuration

To configure the Daemon Services, run `C:\OHCOPIDaemonService\OHCOPIDaemonConfigTool.exe` and insert the fields accordingly.

Table 4-1 - OPI Daemon Service Configuration Field

Field	Description
OPI Port No	The OPI Port Number.
SPMS Client Port No	The SPMS Client Port Number.
OPI Key	The Key generated in OPI Configuration – IFC 8 Key.
Merchant ID	The Merchant ID defined in OPI Configuration.

Figure 4-1 - OPI Daemon Log In Window

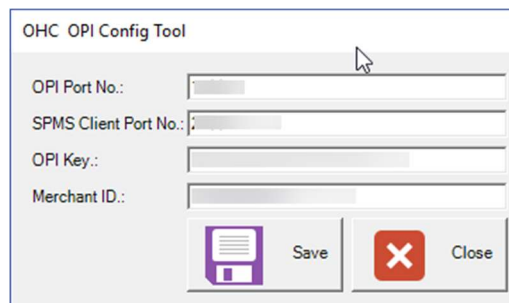
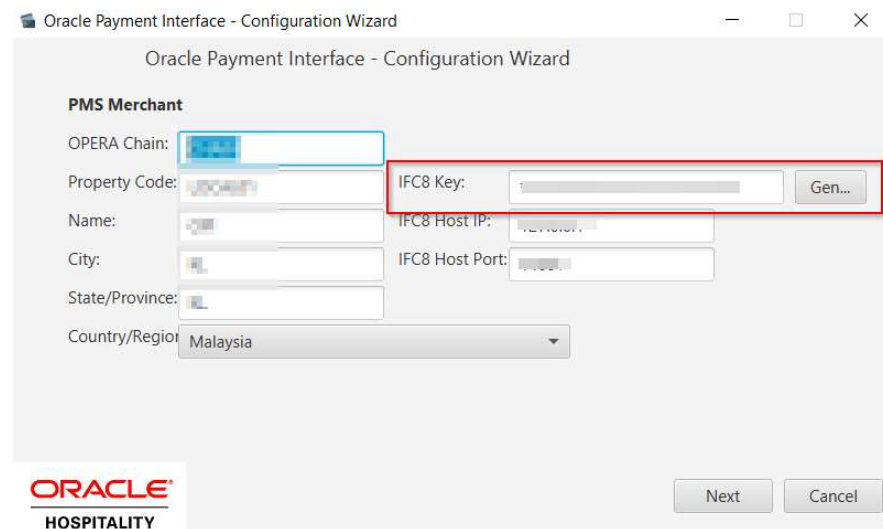


Figure 4-2 - OPI Daemon Service Configuration



OHC OPI Manager

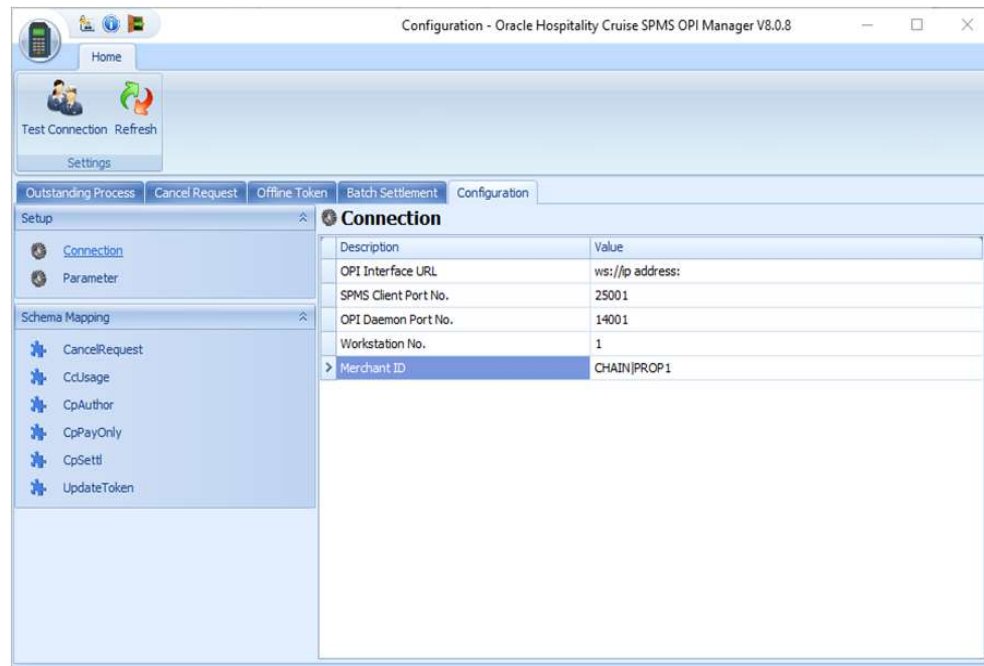
1. Run **OHC OPI Manager.exe** from C:\Program Files (x86)\Oracle Hospitality Cruise.
2. Navigate to the **Configuration** tab.
3. Click on **Connection** under Setup pane.
4. Enter the following options:

Table 4-2 - OPI Manager Connection Settings

Description	Value
OPI Interface URL	This is where OHC OPI Daemon is installed (in format ws://ip address:)
SPMS Client Port No.	The same SPMS client Port Number that defined in OPI Daemon Config Tool.
OPI Daemon Port No.	The same OPI Daemon Port Number that defined in OPI Daemon Config Tool.
Workstation No.	Workstation Number of the client.
Merchant ID	Combination of OPERA Chain and Property Code values defined in OPI Configuration, for example, CHAIN PROP1.

5. Click the **Test Connection** to confirm the connection to OHC OPI Daemon is established.

Figure 4-3 - OPI Daemon Connection Settings



6. Click on **Parameter** under Setup pane, select **OPI Web API Service URL** and insert the hostname or IP with port number where the OHC OPI Web Service is installed, for example, <https://localhost:1569/>.

5

Integration with Symphony OPI

In order to integrate SPMS with OPI using the Symphony OPI Native Driver for credit card transactions, you must adhere to the settings and configurations detailed in this chapter.

Before you begin,

- Understand that this chapter is only applicable if you are integrating SPMS with Symphony OPI using OPI Native Driver
- Download the latest version [Oracle Hospitality Symphony Native Driver Installation Guide](#) from [Oracle Help Center](#).
- Study the requirements and setup detailed in the guide.
- Ensure all the [Prerequisites](#) mentioned in this chapter are met.

Prerequisites

Below is the minimum requirement to integrate the Cruise Symphony Interface with Symphony Point-of-Sale (SymphonyPOS)

- Administrator login of SymphonyPOS
- OHCSPMSPOSInterface.DLL
- Symphony 2.9 or higher
- OPI 20.1
- DevExpress.*.DLL
 - DevExpress.Data.v8.2.DLL
 - DevExpress.Utils.v8.2.DLL
 - DevExpress.XtraEditors.v8.2.DLL
 - DevExpress.XtraGrid.v8.2.DLL
 - DevExpress.XtraLayout.v8.2.DLL

Compatibility

SPMS version 8.0.12 or later. For customers operating on a version below 8.0.12, upgrading to the recommended or latest version is required.

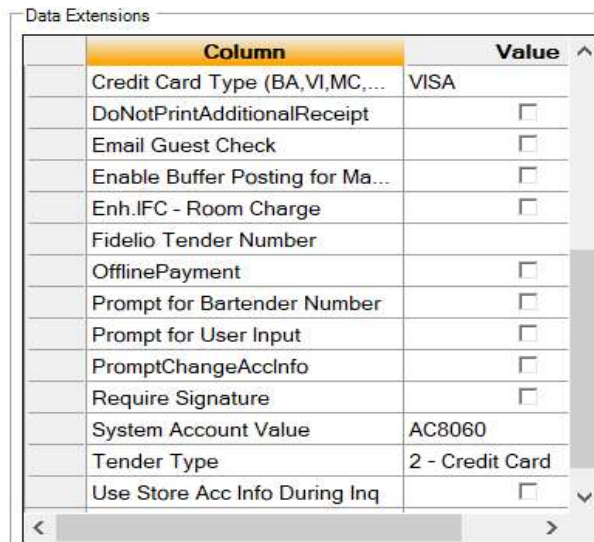
Installing and Configuring OPI Native Driver

A comprehensive document on how to install and configure the OPI Native Driver is available at the Oracle Help Center. Download the latest version of the Oracle Hospitality Symphony Native Driver Installation Guide and follow the steps outlined in the document.

Configuring SymphonyPOS Tender Media

In order for SPMS to accept the Credit Card Tender from SymphonyPOS, you must specify the System Account value in the **Tender Media, Data Extension, and System Account Value** parameter.

Figure 5-1 - Data Extension Parameter



Column	Value
Credit Card Type (BA,VI,MC,...)	VISA
DoNotPrintAdditionalReceipt	<input type="checkbox"/>
Email Guest Check	<input type="checkbox"/>
Enable Buffer Posting for Ma...	<input type="checkbox"/>
Enh.IFC - Room Charge	<input type="checkbox"/>
Fidelio Tender Number	
OfflinePayment	<input type="checkbox"/>
Prompt for Bartender Number	<input type="checkbox"/>
Prompt for User Input	<input type="checkbox"/>
PromptChangeAcclInfo	<input type="checkbox"/>
Require Signature	<input type="checkbox"/>
System Account Value	AC8060
Tender Type	2 - Credit Card
Use Store Acc Info During Inq	<input type="checkbox"/>

In the **OHC Management** module, input the same account number in the **System Account** to matches the above number.

Figure 5-2 -SPMS System Account Entry

The screenshot shows a 'System Account Entry' dialog box with the following fields and values:

- Account No: 8060
- Name: Native Visa
- Payment by Credit Card:
- Payment: 90001 Cash - Ship Currency
- Access Priv: No privilege required
- Posting Allowed:
- POS Room ID: [empty]
- Post to Next Cruise on embarkation date:
- Disc Template: (not applicable)
- GL Account: [empty]

Buttons: OK, Cancel

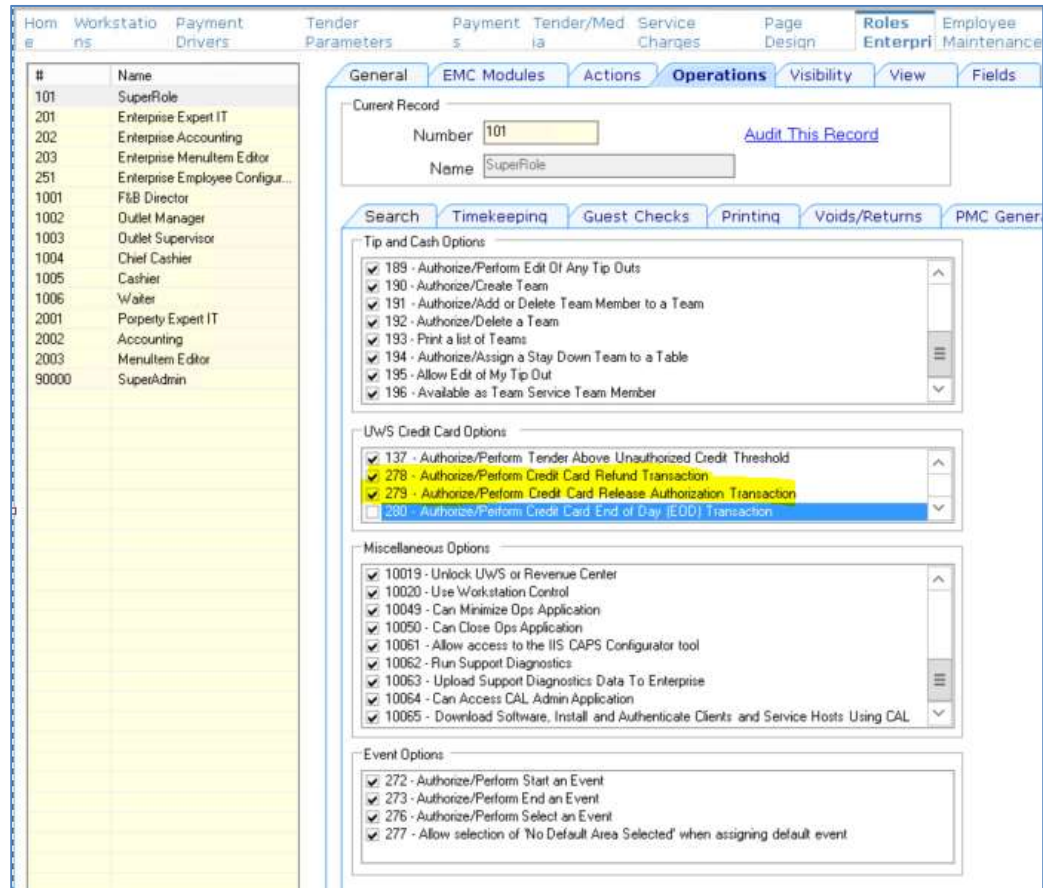
Functions Supported By Symphony

The function used to post the Credit Card transaction at the Symphony POS workstation into SPMS is listed below. You must have these two functions in **Page Design** for the user to perform a Sale and Settlement transaction.

- CreditAuthAndPay
- CCard Finalize Function

It is important to set the options so that the operator has the right to void a transaction. Refer below screenshot on the roles to enable them.

Figure 5-3 - Roles Configuration



Configuring Operation Client

To run the OHCPOSInterface.dll in the POS Operation client, configure, according to the below steps.

1. Navigate to the following path at the WS client.
:\Micros\Symphony\WebServer\ServiceHost.exe.config
2. Open the file in notepad
3. Add the below configuration into the runtime configuration

```
<NetFx40_LegacySecurityPolicy enabled="true"/>
<runtime>
  <assemblyBindingxmlns="urn:schemas-microsoft-com:asm.v1">
    <probing privatePath="wwwroot\EGateway\Handlers"/>
  </assemblyBinding>
  <legacyCorruptedStateExceptionsPolicy enabled="true" />
  <NetFx40_LegacySecurityPolicy enabled="true"/>
  <AppContextSwitchOverrides
    value="Switch.System.IO.UseLegacyPathHandling=true" /><!--
    Added for .Net Framework 4.6.2-->
</runtime>
```

4. Uncomment the following settings in configuration file.

```
<!-- 45Migration (uncomment for 4.5 runtime) -->
<startup useLegacyV2RuntimeActivationPolicy="true">
  <supportedRuntime version="v4.0"
    sku=".NETFramework,Version=v4.6.2"/>
  <supportedRuntime version="v2.0.50727"/>
</startup>
```