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This document describes the following steps to install the ORACLE Gateway Device Handler (OGDH) and the Oracle Payment Interface (OPI) including:

- Installing OGDH
- Installing OPI
- POS configuration for OPI using OGDH
- Middleware mode versus Terminal mode
- Pay@Table

The *Oracle Payment Interface Simphony 2.9 Native Driver and OPI 6.2 Installation Guide* contains more information.

**Audience**

This document is intended for installers and system administrators of the Oracle Payment Interface and the MICROS Gateway Device Handler.

**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**

Oracle Hospitality product documentation is available on the Oracle Help Center at http://docs.oracle.com/en/industries/hospitality/

**Revision History**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 2017</td>
<td>• Initial publication.</td>
</tr>
<tr>
<td>March 2019</td>
<td>• Documentation updates.</td>
</tr>
</tbody>
</table>
1 Pre-Installation

Before installing, consider the following points and complete the relevant tasks:

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

- Verify with the merchant to set up table service (TSR) or quick service (QSR), or both. QSR does not support tips.
- Verify with the merchant if activating the Refund functionality, the merchant must control the privilege for this function.
- Verify with the merchant if they offer a guest the option to get cash back with their purchase, then activate the Sale&Cash option. This is only available for QSR.
- OPI requires at least 6 GB of free disk space.
- You cannot upgrade from MGDH 6.1.1.X to Native Driver 6.2 (must upgrade then switch to Native configuration).
- You cannot run upgrade from 6.1.1.X to 6.2 as unattended/silent (due to 6.1.1.X installation program differences between 6.2).
- You can upgrade from OPI 6.1 (6.1.0.9) and higher to OPI 6.2
- You can upgrade from MGDH 6.1 (6.1.0.9) and higher to OGDH 6.2
- You must install both OGDH and OPI as a System Administrator.
- You will be asked to enter the MICROS database user name and password if you install the OGDH on Simphony Server.

During the installation, confirm the following:

- Merchant IDs
- Receipt “Header” and “Trailer” details
- Tender Media numbers for each card type
- IP address of the OPI Server
- If there is an existing database installed, the root password is required
- Workstation IDs and IPs that integrate with the PIN pad
2 Network Considerations

Consider the following points for the network:

- OPI listens on the TCP port 5098 by default for incoming messages from OGDH. This port must be open internally on the merchant’s network.

- OPI listens on the network on TCP port 8992 by default for incoming messages from PinPad for Pay@Table. Confirm that this port is open internally on the merchant’s network.

- The port for the PSP depends the partner. Confirm with the partner and confirm that the corresponding port is open.
3  Configuring the Simphony Server

Configuring Service Charge

If the merchant uses the cash back option, you can add a new service charge named Cashback, and the Service Charge for OPI tenders uses the same option as the open amount service charge. If the merchant does not activate the SaleCash function, you can skip this step.

Same with the “GC Cashout”.

Configuring Tender Options

Configure the following options for the credit/debit tenders.

1. Select the Enterprise or property, click Configuration, and then click Tender/Media.
2. Click the Options tab, and then select the Interface Options subtab.
3. Select ON=PMS and Credit Card use 19 Digit Acct Number; OFF=16 Digits.

To configure the credit card options:

1. Click the Credit Card Options subtab.
2. Deselect all options except “No Credit Card Length Check”, and remove the floor limit/preambles list.

To configure the Ops options:

1. Click the **Ops Behavior** subtab, and then select the following options:
   - **Assume Paid in Full**
   - **Reference Entry Required**
2. Deselect the following options:
   - **Mask Account Number**
   - **Encrypt Tender/Media Reference Entry**
3. Link the tender to **Service Charge** for TSR environments.
4. Add the debit and Gift Card tender option the same way you would for normal credit card tenders.
5. If the merchant activates the **SaleCash** function, add a new tender **SaleCash** option the same way as a normal credit card tender. Otherwise, skip this step. SaleCash works only in a QSR environment.

QSR can share the same tender with TSR that has **Service Charge** linked.

### Menu Item Configuration

The two open menu items need to be created for the Gift Card activate transaction and the Gift Card reload transaction.

**Menu item -- "GC Activate"**

Define menu item.
- **Menu Item class name** - "GC Open Item"
- **Menu Item name** - "GC Activate"

**The menu item -- "GC Topup"**

Define menu item.
- **Menu Item class name** - "GC Open Item"
- **Menu Item name** - "GC Topup"

### Menu Item Class “GC Open Item”

Set up the following for the menu item class:
1. **Menu Item class name** - "GC Open Item"
2. **reference required**
3. **Open-priced Menu Items**

### Configuring RVC Mode

1. Select the revenue center, click **Setup**, and then click **RVC Parameters**.
2. Click the **Options** tab.
3. If the RVC uses QSR mode, select **Do Not Prompt for Tips (No Overtendering if Charge Tip is Required)**. If using the TSR mode, do not select this option.
Configuring the Employees

1. Go to the Employee Maintenance tab, and then select the Cashier class, for example.
2. Select the ISL Employee Option #4 option to define the employee class that can process the refund.

Adding a Custom CAL Package

1. In the CAL Packages module, add a new Custom CAL package for the Microsoft Win 32 client, and then import the files from the following location after OGDH is installed: MICRO5\Simphony\EgatewayService\CAL\Win32\Packages

Typically Simphony v2 only uses Microsoft Win32 workstations.

2. Add deployments for the proper level or specific server.
Adding an Extension Application

1. Select the proper level to add OGDH Extension Application

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pms7.isl</td>
</tr>
<tr>
<td>2</td>
<td>OGDH.tra</td>
</tr>
<tr>
<td>3</td>
<td>OPL.inc</td>
</tr>
</tbody>
</table>

2. For pms7.isl, please enable “Main SIM Content” in “Option Bits”
Designing the Touch Screen

Confirm with the Oracle Consulting Team, and then add the following buttons on the payment screen in the proper level if needed. Set the Type to **Function** and link to **Sim Inquire**.

**TSR Payment Screen**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC PAY</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC REFUND</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC AUTH</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC FINAL</td>
<td>Arguments</td>
</tr>
<tr>
<td>TAB AUTH</td>
<td>Arguments</td>
</tr>
<tr>
<td>BALANCE INQUIRY</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC REPRINT</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC REPOST</td>
<td>Arguments</td>
</tr>
<tr>
<td>MANUAL AUTH</td>
<td>Arguments</td>
</tr>
<tr>
<td>REFUND MANUAL</td>
<td>Arguments</td>
</tr>
<tr>
<td>MOTO AUTH</td>
<td>Arguments</td>
</tr>
<tr>
<td>GC FUNCTION</td>
<td>Arguments</td>
</tr>
</tbody>
</table>

**QSR Payment Screen**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>QSR SALE</td>
<td>Arguments</td>
</tr>
<tr>
<td>SALE CASH</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC REFUND</td>
<td>Arguments</td>
</tr>
<tr>
<td>BALANCE INQUIRY</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC REPRINT</td>
<td>Arguments</td>
</tr>
<tr>
<td>CC REPOST</td>
<td>Arguments</td>
</tr>
<tr>
<td>REFUND MANUAL</td>
<td>Arguments</td>
</tr>
<tr>
<td>MOTO SALE</td>
<td>Arguments</td>
</tr>
<tr>
<td>GC FUNCTION</td>
<td>Arguments</td>
</tr>
</tbody>
</table>
OPI shares the VOID touchscreen key with the Simphony POS. The VOID key allows you to:

- Void the transaction
- Tips Adjust (for TSR only)
4 Installing the OGDH Driver

Installing OGDH on the Simphony Server

1. Double-click the OGDH installer to begin the installation, and then in the Setup Wizard click Next.
2. OGDH installer check dependencies. Select Next.
3. Click Browse, select the location to install OGDH, and then click Next.
4. Click Install to begin the installation.
5. Enter your database information, and then click Next.

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database Type</td>
<td>DB type</td>
</tr>
<tr>
<td>DB Server</td>
<td>DB IP</td>
</tr>
<tr>
<td>Database Name</td>
<td>DB Name</td>
</tr>
<tr>
<td>Port</td>
<td>DB port</td>
</tr>
<tr>
<td>Username</td>
<td>DB user</td>
</tr>
<tr>
<td>Password</td>
<td>DB user password</td>
</tr>
</tbody>
</table>

6. Once you get the connection to Simphony database, click Next to continue.
7. Select the Currency and Property and then select Next.
8. Enter the Device Merchant ID, Select the Mode for the revenue centers under the property, Select TSR for Table Service, or select QSR for Quick Service (which enables the no tip option).
9. Create Receipt Header and Trailer information if needed.
10. Click Next. Match each tender with the card type.
11. Enter the Cashback service charge number for Cashback SVC and GC cash-out SVC. If the tenders are not used, skip this step.
12. Click Next.
13. Please enable “Enable extra tenders” option first and then configure Extra Tender mapping if the extra tender is needed.
14. Configure Transaction configuration details, and then click Next.

Note: Gift Card Support option should be enabled or left disabled while configuring transaction details. Following are the GC related configuration settings:

OPI.inc variable:
EnableGCFunction = True/False
Additional GC variables:
EnableGCActivate = True/False
FixAmountGCActivate = True/False
EnableGCTopup = True/False
EnableGCCashout = True/False
15. Configure OPI server location details and miscellaneous settings.

16. Install the POSEOD Module on Server, and then click Save.

17. Click Finish to close the installer.

**Installing OGDH When Unable to Log In to Simphony Server**

To install MGDH on a machine that is not the Simphony server:

1. Double-click the OGDH installer to begin the installation, and then in the Setup Wizard click Next
2. OGDH installer check dependencies. Click Next.
3. Select the setup type.
4. Click Browse, select the location to install OGDH, and then click Next
5. Click Install to begin the installation.
6. click Skip DB connection, and then click Next
7. Select the currency and enter the property ID, and then click NEXT.
8. Add the RVC’s according the Simphony property environment and then configure the RVC ID MID RVC mode and header trailer accordingly.


10. After OGDH installs successfully, go to \OGDH\Simphony_CAL_Packages\Packages\Win32\PropertyID” to get all the CAL files.

11. Create a specific path for the CAL Package\MICROS\CAL\Win32\Packages\CAL Package name, and then you can configure CAL for Simphony through EMC. For more information, go to Configuring the Simphony Server.

**Point-of-Sale (POS) End-of-Day (EOD)**

You can use the Microsoft Windows Task Scheduler to run the OPI POSEOD using the following configuration details.

<table>
<thead>
<tr>
<th>Temporary</th>
<th>Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>OPI POSEOD</td>
</tr>
<tr>
<td>Description</td>
<td>Generates the OPI transaction report</td>
</tr>
<tr>
<td>Trigger</td>
<td>Daily</td>
</tr>
<tr>
<td>Action</td>
<td>Start a program</td>
</tr>
<tr>
<td>Program/script</td>
<td>Browse to find POSEOD.exe in the OGDHDriver directory</td>
</tr>
<tr>
<td>Add arguments(optional)</td>
<td>Upper level of the POSEOD.exe path</td>
</tr>
<tr>
<td>Start in (optional)</td>
<td>Upper level of the POSEOD.exe path</td>
</tr>
</tbody>
</table>

For more information on setting up the Microsoft Windows Task scheduler, visit the Microsoft website at the following URL: [http://www.microsoft.com](http://www.microsoft.com).
Installing the OPI

Complete the following steps to install OPI:

1. Run the OraclePaymentInterfaceInstaller_6.2.0.0.exe file.
2. Select the Language for the Installation, and then click OK.
3. Click Next.
   - The Install Wizard shows OPI Prerequisites, information related to your system.
4. Select the setup type to install. Select Complete All Programs features will be installed.
5. Click Next. Choose destination location.
6. Click Next, and then click Install to begin the installation.
7. Select the Database being used.
8. Enter Database info, and then click Next.
9. Enter Database server DBA user Login ID and Password.
10. Create a new database user account that will be used by OPI application.
11. Create the Super User account for the Configuration Tool.
12. Enter the Configuration Tool connection settings.
13. Enter the Configuration Tool passphrase, and then click Next.
14. After OPI installs, the configuration wizard starts.
Configuring OPI

1. Select the OPI instance mode OGDH, and then click Next

2. Enter the Password which will be used by OPI to secure the Certificate for OGDH connection, and then click Next

3. Enable the POS.

4. Select the OPI Mode. The OPI Mode depends on the partner payment service provider and uses the following guidelines:
Terminal Mode
- OPI maintains the mapping between the POS workstation number and terminal IP address.
- You can configure the terminal mapping during the OPI configuration process.

Middleware Mode
- The partner maintains the mapping between the POS workstation number and terminal IP address.
- All communication sends to the Middleware host.

5. If Mutual Authentication is enabled, we have to configure the certificate passwords and also need to upload the certificates into OPI.

6. Click Next and configure the POS merchant.

7. **Configure the terminal mapping if it is terminal mode.**

8. On the Terminal Configuration screen, enter the **Workstation ID** from the Enterprise Management Console and the PED Devices IP address, and then click Next

9. Repeat the steps for each required device.

10. After all terminals are mapped, click Next.

11. Click Close.

12. Click Yes to restart the computer now, or click No to restart the computer at a later time to complete installing and configuring OPI.
Configuring OPI Pay@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. With Pay@Table enabled you must enter the following:
   - Service URL – Enter the 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 card types to the Tender Media object numbers from Simphony EMC.

3. Click Next.
4. Select the **Add Pay@Table Devices** option, add the mapping details for each Pay@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 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.*
7 Upgrading the OPI

VERY IMPORTANT: Read and follow the upgrade directions.

Note: OPI 6.1 and higher can be upgraded to OPI 6.2.

OPI Upgrade Steps

1. Right-click and Run as Administrator the OraclePaymentInterfaceInstaller_6.2.0.0.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. Click OK on the OPI Upgrade screen.
6. **WARNING!** You must click **Yes**.

   IF YOU CLICK **NO**, YOU WILL HAVE BOTH OPI 6.1 AND OPI 6.2 INSTALLED AND NEITHER WILL WORK.

   Explanation: OPI will migrate the existing MySQL configuration information, but all previous OPI applications will be removed before the new files are installed.

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

8. Click **Next**.

   The **Ready to Install the Program** screen displays.

9. Click **Install**.

   The **Setup Status** screen displays for a few minutes.

   **Setup Type**

   For database type, select **MySQL**. No other database type is supported for upgrades.

   **Database Server**

   Name/IP – The Hostname or IP Address used for communication to the MySQL database. This must be left at the default of localhost.

   Port # – The Port number used for communication to the database

   **Database Server Login**

   DBA user

   Login ID: root

   Password: root user password for MySQL database.

   **Database User Credentials**

   User Name: This must be a new user name. It cannot be the same user from the 6.1 install.

   Password: Password for the new database user.

   **Configuration Tool Superuser Credentials**

   User Name: This can be any user name. It does not have to be a Windows account user.

   Password: Create a password, and then confirm it.
Configuration Tool Connection Settings
Host: May be left at 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.
Port: Leave at 8090.

Configuration Tool Passphrase
Enter and confirm a passphrase.
Click Next.
The Configuration Wizard launches.
Continue to follow on-screen directions, verifying settings as you go.

POS Merchants
On the Merchants screen, click the wrench icon to the right of the existing merchant.
Verify the merchant settings are correct.

Merchant Pay At Table Configuration
If using Pay@Table, review the tender settings carefully as there are new fields that will not be pre-populated from the previous OPI install.
Continue to follow the on-screen directions.

InstallShield Wizard Complete
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.
8 Not Supported Functionality

Not supported with RES Native OPI solution:
- Gift Cards (SVC works as usual thru workstation. Not thru OPI or PED.)
- Balance Inquiry
- Void a refund (RES limitation)
- Debit (RES Native OPI)
- SaleCashBack (RES Native OPI)
- Backup OPI Server

Not supported with RES OGDH:
- Incremental Auth
- Void a Refund (RES limitation)
- CC voice / Manual entry in QSR revenue center
- Backup OPI Server
- Voiding the tender from a SaleCashBack transaction.

Not supported in the e7 Native OPI driver solution:
- Gift Cards
- Balance Inquiry
- Void a refund (e7)
- Debit (e7)
- SaleCashBack (e7)
- Multiple Revenue Centers (e7)
- Memo Tender (e7)
- CC Voice/Manual CC for QSR (offline sale)
- Backup OPI Server
- Backup server mode (e7)
- Pay@Table
- Transaction Void (e7)