Oracle[®] Payment Interface Oracle Hospitality 9700 POS MGDH Installation Guide Release 6.1 E84722-01

February 2017



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Preface

This document describes the following steps to install the MICROS Gateway Device Handler (MGDH) and the Oracle Payment Interface (OPI).

- Installing the MGDH
- Installing the Oracle Payment Interface
- Configuring the POS for the OPI using the MGDH
- Using the Middleware mode or the Terminal mode with Pay@Table

Connecting the Oracle Payment Interface with the Oracle Hospitality RES POS native driver is described in another document. The *Oracle Payment Interface Oracle Hospitality RES POS Installation Guide* contains more information.

Audience

This document is intended for installers of the OPI and MGDH.

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
- 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/

Revision History

Date	Description of Change		
September 2016	Initial publication		
February 2017	• Revised formatting and made edits		

1 Pre-Installation Steps

Before Installing the OPI

Complete the following tasks before installing:

- The application requires Microsoft .NET Framework version 4.0 or higher.
- You cannot upgrade from previous versions of MGDH to version 6.1.0.9.
- You cannot upgrade from previous versions of MPG and OPI to OPI version 6.1.0.9.
- If a previous MGDH installation exists, go to Programs and Features to uninstall the previous MGDH installation, then you can install the latest MGDH release.
- Verify with the merchant to setup 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.
- Confirm Microsoft Visual C++ 2010 is installed on the computer where MGDH and OPI are installed.
- Oracle Payment Interface requires at least 6 GB of free disk space.
- You must install both MGDH and OPI as a System Administrator.
- You must enter the user name and password of a Microsoft Windows local administrator during the installation.
- You must enter the MICROS database user name and password to install MGDH.

During the installation you must confirm the following:

- Merchant ID's
- Receipt header details
- Tender Media numbers for each card type
- IP address of the OPI Server
- IP address of the POS Server
- If there is an existing MySQL database installed, then the SQL root password is required.
- Workstation IDs and IPs that integrate with the PIN pad.

2 Network Considerations

You must consider the following points for the network:

- OPI listens on the TCP port 5098 for incoming messages from MGDH, this port must be open internally on the merchant's network.
- The port for the PIN pad depends the partner, confirm with the partner and confirm the corresponding port is open.

3 9700 Server Configuration

Adding an Interface

To configure the 9700 Server you must add a new interface.

- 1. In the Enterprise Management Console, go to the Interface tab.
- 2. Define the following Interface values.

Table 3-1 Insert Interfaces

Interface	Value
System Name	MGDH
Service Type	PMS /SIM
Communication Type	TCP/IP
Timeout	210
ISL Script Name	pms7

3. Select the check box to enable the option to Use 19 Digit Reference Entry for PMS Inquiries.

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File Edit View Window Help	
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i 🛐 📑	
∏System Panel → A × Thursday, September 22, 2016	Configurator Interfaces
MODULES	Number 6 PC Number 1 - 9700 Demo
Configurator Audit Trail NTS	System Name MGDH Backup PC 0 · None Service Tune 0 · PMS/SIM Timeout 210
SYSTEM	
Control Panel Workstation Software Key CC Table KDS	TCP Communications TCP Host Name Port Number 0
CREDIT CARD	Options
Create Edit Report	UWS Local Interface
Transfer	ISL Script Name pms7 Use 5 Digits for Number of Guests
UTILITIES	Backup Interface 0 - None ON = Use 9 digits for Terminal IDs; OFF = Use 2
 System Setup Utility 	Offline Posting Link 0 - None Download to Mobile MICROS
	SIMDB Link 0 - None Content of the status Using Ping Content of th

Figure 3-1 EMC Interfaces tab

Configuring RVC

To configure the RVC, link the interface MGDH to each RVC.

- 1. Go to the Enterprise Management Console.
- 2. Go to the RVC Parameters tab and link the MGDH interface to each RVC.



Table 3-2 EMC RVC Parameters

If the RVC is configured in QSR mode, then activate the options below:

- Select the check box **Do Not Prompt for Tips (No Overtendering if Charge Tip is Required)**.
- Select Allow Fast Transactions.



Figure 3-2 EMC RVC Parameters General Options

If using the TSR mode, do not activate this option. On the Format tab, configure and enable the following options for the TSR RVC's:

- 1. Define the **Number of Guest Check Information Lines** as **30**.
- 2. Select the check box **Skip Blank Lines When Print or Display Guest Check Info** Lines.

[:] File Edit View Window Help	,						
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E = # = H → H → X H = # B ⊗							
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📑 System Panel 🛛 👻 म 🔀	Configurator Interfaces RVC Parameters Employee Maintenance Service Charges Device Table Contro						
Thursday, September 22, 2016							
MODULES	General Search Options Format Posting and Control Order Types Menu Levels Interfaces Taxes						
 Configurator Audit Trail 	Print Output						
NTS	Lines On First Guest Check Page 0 Line Feeds Before Order Output Header 0						
SYSTEM	Lines On Other Guest Check pages 0 Line Feeds Before First Guest Check Page 0						
Control Panel Manual description	Minimum Lines Per Roll Check/Receipt 0 Line Feeds Before Other Guest Check Pages 0						
 Workstation Software Key 	Number Of Guest Check Information Lines 30						
CC Table							
• KDS	Screen Sort Type 0 - Do Not Sort						
CREDIT CARD	Customer Receipt Sort Type 3 - Print Group, Consolidated						
Edit	Check Sort Type 3 - Print Group, Consolidated						
Report	NLU/Condiment Help Screen Sort Type						
Transfer							
UTILITIES	Format Options						
 System Setup Utility 	🔲 19 - Display an "E" In Customer Display if Exempt						
	🛛 20 - Partial Cut between Customer Receipts on Autocut Roll Printers						
	□ 21 - Print "Your order number is: XXXX" at Bottom of Receipts						
	Control Line Control Cont						
	✓ 24 - Skip Blank Lines When Print or Display Guest Check Info Lines						
	25 - Do Not Display Guest Check Info Lines on User Workstation						
	26 - Print Guest Check Info Lines Before Header on Guest Checks						
	27 - Print Guest Check Info Lines After Header on Guest Checks						
	I I 28 - Print Guest Check (nto Lines After Trailer on Guest Checks						
I							

Figure 3-3 EMC RVC Parameters Format Options

Employee Configuration

- 1. Go to the Employee Maintenance tab, select the Cashier employee class.
- 2. Select the check box to activate the **ISL Employee Option #4** option to define the employee class that can process a refund.



Figure 3-4 EMC Employee Maintenance - Employee Classes

3. Enable the **Authorize/Perform Closing of Checks with a Negative Balance** Tenders option.



Figure 3-5 EMC Employee Maintenance Tenders Options

Service Charges

If the merchant provides a Cash Back option, then add a new Service Charge for the CashBack option. This is the same as the Open Amount Service Charge. You can skip this step if the merchant does not activate the SalesCash function.



Figure 3-6 EMC Service Charges Options

Configuring Tender Media Records

Configure the following options for the credit/debit card tenders.

- 1. In the Enterprise Management Console, go to the **Tender Media** tab.
- 2. Select the **Options** tab and select the category **Interface Options**.
- 3. Activate the PMS and Credit Card use 19 Digit Acct Number option.



Figure 3-7 EMC Tender Media Options

To configure the credit card options:

- 1. Go to **Options** tab select **Credit Card Options**.
- 2. Deactivate all options and remove the floor limit/preambles list.
- 3. Enable the No Credit Card Length Check option.

To configure the POS options:

- 1. Go to the **Options** tab and select **POS Behavior**, to active the following options:
 - Assume Paid in Full
 - Reference Entry Required
- 2. Deactivate the following options:
 - Mask Account Number
 - Encrypt Tender/Media Reference Entry
- 3. Link the tender to **Open amount Service Charge** for TSR environments.
- 4. Add the debit tender option the same way you would for normal credit card tenders.
- 5. Add the new tender **SaleCash** option the same way as a normal credit card tender. You can skip this step if the merchant does not activate the **SaleCash** function.

Note: The **SaleCash** tender is only supported when utilized in a Quick Service Restaurant (QSR) environment.

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File Edit View Window Help 1 100 100 100 100 100 1 100 100 100 100 100 100 1 100 100 100 100 100 100 100	5 <u>]</u> × •∎ # \$2 ⊗		
System Panel • 4 × Thursday, September 22, 2016 MODULES	Configurator Interfaces General Options Mr	RVC Parameters Interfaces Employee Maintenance Service Charges enu Levels Output	() ×
Configurator Audit Trail NTS SYSTEM	Current Tender Media Re	Name CCVISA	^
Control Panel Workstation Software Key C Table KDS CREDIT CARD Create	Select Category Printing Options Interface Options Credit Card Options Taxing Options POS Behavior Charge Tin Options	POS Behavior ─Amount Options □ Amount Required ☑ Assume Paid in Full □ Round Tender to Next Highest Dollar	
Edit Report Transfer UTILLITIES System Setup Utility	Miscellaneous Options	Partial Tender Not Allowed Enable Tender Rounding ON=Round Tender to Nearest 10; 0FF= 0 ON=Rounding based on 10s Digit; 0FF=units	
		Hardware Options Hardware Options Open Cash Drawer Blink Customer Display (20 Char Display Only) Council Dations	×
	🚅 localhost	🛐 MICROS, MICROS 🧖 English (United	States)

Figure 3-8 EMC Tender Media POS Behavior Options

Touch Screen Design

First, contact the Oracle Hospitality Consulting Team for confirmation, and then if required, add the following buttons to the payment screen. The key types are Functions and you can link them to the MGDH interface.

Field	Value
CC PAY	SIM INQ #2
CC REFUND	SIM INQ #4
CC AUTH	SIM INQ #8
CC FINAL	SIM INQ #9
TAB AUTH	SIM INQ #12
BALANCE INQUIRY	SIM INQ #14
CC REPRINT	SIM INQ #7
CC REPOST	SIM INQ #16
MANUAL AUTH	SIM INQ #15
REFUND MANUAL	SIM INQ #11

Table 3-3 Table Service Restaurant (TSR) Payment Screen

Table 3-4 Quick Service Restaurant (QSR) Payment Screen

Field	Value
QSR SALE	SIM INQ #1
SALE CASH	SIM INQ #5
CC REFUND	SIM INQ #4
BALANCE INQUIRY	SIM INQ #14
CC REPRINT	SIM INQ #7
CC REPOST	SIM INQ #16
REFUND MANUAL	SIM INQ #11

The OPI shares the VOID touchscreen key with the 9700 POS. Using the VOID key you can:

- Void the transaction
- Add Tips (for TSR only)

Configurator Touchscreen Design							
Current Screen: 30 - PAYMENT SCREEN Key/Screen Key Configuration	H H H H X	là. 5	Filter By: 3 - All K	eys 🔽			
Key Configuration Legend: REFUND MANUAL Legend Size: 1	PRO	PROMOS		DSCNTS		SVCCH	
Key Type: 11 - Function Key Number: 990 - SIM 4 - MGDH - Inc Alpha: Preset MLvt: 0 - None	\$CHARGE TIP	% CHARGE TIP	LRG PARTY TIP	TAX EXEMPT	IC/	ARE	
Preset SLvi: 0 - None	CC TSR SALE	TABLE AUTH	MANUALAUTH		\$5		
Next Screen: 0 - None Media File Full Screen Media	CCREFUND	BALANCE INQ	SALE CASH		\$20		
Bitmap Bitmap REFUND MANUAL Transparent Bitmap	CC AUTH	REPRINIT	CC QSR SALE	Ф	CA	-	
Stretch I o Ht	CCFINAL	REPOST @	REFUND MANUA				

Figure 3-9 EMC Touchscreen Design Module

4 Installing the MGDH Driver

Installing MGDH on the Simphony Server

- 1. Double-click the MGDH installer to start the installation.
- 2. Click Next.
- 3. Browse to select the location to install MGDH.

 Setup - MGDH OPT installation package
Select Destination Location Where should MGDH OPI installation package be installed?
Setup will install MGDH OPI installation package into the following folder. To continue, click Next. If you would like to select a different folder, click Browse.
G1/MGDHDriver Browse
At least 99.9 MB of free disk space is required.
< Back Next > Cancel

Figure 4-1 MGDH OPI Installation Package

- 4. Click Next.
- 5. Enter your database information.

Table 4-1 MGDH Database Information Settings

Field	Value
Database Type	MSSQL
DB Server	localhost
Database Name	mcrspos

Select Solution:	E I
Select a solution Select POS Type The Folder for MPG.inc The Folder for MGDH.inc The Folder for POSEOD	OPI Simphony 2.610.0.134 C:\MGDHDriver\sim C:\MGDHDriver\bin C:\MGDHDriver\bin
Database Type MSSQL	DB Authentication Windows Authentic
DB Server Database Name	_

Figure 4-2 MGDH POS Config Files Setup

6. Click Next.

7. Select the property.

POS Config files setup Wizard RVC Option in MPG.inc	
Currency : USD]
ALI Select a property ALI Select Property : ALL RVC 3. MGM Macau-Retail 2. MGM Macau	
	Next > Cancel

Figure 4-3 MGDH POS Config Property Setup

8. Select Next.

- 9. Select the **Currency** and **Single MerchantID** or **Multiple MerchantID**.
- 10. Enter the **MID number**, in this case enter the Single MerchantID and click **Next**. If needed, you can confirm the MerchantID setup configuration with the Oracle Hospitality Consulting Team.

POS Config files setup Wizard RVC Option in MPG.	inc C
Currency :	USD
ALL RVC Mode : ALL RVC Merchant ID : Merchant ID :	QSR and TSR mixed. No_QSR = false, No_TSR = false.
	Next > Cancel

Figure 4-4 MGDH POS Config RVC Currency Setup

11. Select the RVC mode for the RVCs under the property. TSR is for Table Service and QSR is for Quick Service, which enables the No Tip option and click **Next**.

RVC	Map in MPG.inc		2
Select	RVC# RVC Name	Device Merchant ID	Mode Header
	1 Beaches Cafe	370000001	TSR Edit
	2 Room Service	370000001	TSR Edit
	3 Banquets	370000001	TSR 💌 Edit
	4 Palm Bistro	370000001	TSR Edit
	5 Boutique	370000001	TSR 🔻 Edit

Figure 4-5 MGDH POS Config setup - RVC Map

- 12. **Header** and **Trailer** information is configured by the partner and the partner who responds with all of the print data, therefore, you do not need to configure the following information.
- 13. Click OK.

	DOE Config files sotup Winawd		
🔡 rvc num: 1 🛛 head	er editor		
Header 1:	I	Trailer 1:	
Header 2:		Trailer 2:	
Header 3:		Trailer 3:	
Header 4:		Trailer 4:	
Header 5:		Trailer 5:	
Header 6:		Trailer 6:	
		Trailer 7:	
		Trailer 8:	
		Trailer 9:	
		Trailer 10:	
		Trailer 11:	
		Trailer 12:	
		OK Cancel	
		- Dack	

Figure 4-6 MGDH RVC Header Editor

- 14. You can match the tender from the drop-down list for the card types and enter the CashBack service charge number for **Cashback_svc**. If the tender is not used, skip this step.
- 15. Click Next.

0	POS Config files setup Wizard	d		×
	Tender Ma	ap in MPG.inc		
	VISA_Tender	•	VisaDebit_Tender	•
	Master_Tender	1, CASH (MOP) 2, CASH (HKD)	Maestro_Tender	
	AMEX_Tender	4, 99 5, PayPal QR	VPay_Tender	
	Diners_Tender	6, 7, CC JCB	Alliance_Tender	•
	JCB_Tender	11, Visa 12, Mastercard	ECChip_Tender	_
	CUP_Tender	13, Amex 14, MC	GiroCard_Tender	
	Gift_Tender	15, CUP 16, Diners	MCDebit_Tender	•
	CUPDebit_Tender	17, Local Card 18, Samsung	Interac_Tender	_
	DEBIT_Tender	19, Citi 20, Lotte	SaleCash_Tender	•
	BankCard_Tender	21, BC 22, KB	Cashback_svc	•
	Discover_Tender	23, Shinhan 24, 99		
	UKDM_Tender	25,99 26,99		
	Electron_Tender	27, 99 28, PayPal 29, CC VISA		
		30, CC MASTER 31, CC AMEX		
		32, CC DINNERS 33, SALECASH	< Back Next >	Cancel

Figure 4-7 MGDH Tender Map

- 16. Select the check box to enable the required options. You can double-click the **Trans Option Description** to access detailed descriptions for the transaction options.
- 17. Click Next.

rans Option Name Trans Option Description EnableSigVerify Enable signature verify EnableTipAdjust Enable tip adjust EnableTipAdjustMode2 Tip adjust with mode 2	Transaction	Options in	MPG.inc	
EnableSigVerify Enable signature verify Tab Auth amount EnableTipAdjust Enable tip adjust EnableTipAdjustMode2 Tip adjust with mode 2	Trans Option Name	Trans Option Descriptio	n	
EnableTipAdjust Enable tip adjust EnableTipAdjustMode2 Tip adjust with mode 2	EnableSigVerify	Enable signature verify	Tab Auth amo	unt 50.00
EnableTipAdjustMode2 Tip adjust with mode 2	EnableTipAdjust	Enable tip adjust		
	EnableTipAdjustMode2	Tip adjust with mode 2		
RunATab Enable Tab Auth	🔽 RunATab	Enable Tab Auth		

Figure 4-8 MGDH Transaction Options

- 18. Select the options required for the merchant.
- 19. Click Next.



Figure 4-9 MGDH Print Options

20. Enter the following information:

Table 4-2 MGDH Server Setup Options

Option	Value
Host1 HTTP	OPI Server IP address, for example: https://127.0.0.1
Host1 Port	OPI port, you can use the default 5098
TIMEOUT	MGDH timeout, you can use the default 60 seconds

POS Config files setup Wizard					×
Server Options in v	workstation	MGD	H.inc	2	
URL Backup Mode: Host1 HTTP: Host1 Port:	0 https://127.0.0.1 5098	¥			
TIMEOUT:	60	< Back	Next >	Canc	el

Figure 4-10 MGDH Server Options

21. Click **Next** and enter the following information for the POSEOD:

Table 4-3 MGDH POSEOD Setup Options

Option	Value
Server	OPI Server, same with last step
Server port	OPI port, same with last step
TIMEOUT(POSEOD)	EOD TIMEOUT, you can use the default value 80
Device Merchant ID	The MID or MID's required for the RVCs
Multiple MID	There must be a " " between the MIDs

POS Config files setup Wizard	X
POSEOD Options	
Server:	https://192.168.1.1
Server Port:	5098
TIMEOUT (PO	DSEOD): 80
Device Mara	aant ID in POSEOD inc.
3700000001	
Notice: plea For e	se add them if there are multiple merchant IDs. example, 97000001 97000002 97000003
	< Back Next > Cancel

Figure 4-11 MGDH POSEOD Setup Options

22. Click Next.

23. Click OK.

The following files are created.	
MPG.inc	
C:MGDHDriver\sim\MPG.inc	
MGDH.inc (Workstation)	
C:\MGDHDriver\bin\MGDH.inc	
C:\MGDHDriver\POSEOD\POSEOD.inc	
Click OK to exit.	

Figure 4-12 MGDH File Creation Confirmation Screen

24. Click Install.

	ORACLE HOSTILUTY Orado	
1문 Setup - MGDH OPI Sol Ready to Install Setup is now ready to computer.	ution package o begin installing MGDH OPI Solution package on your	×
Click Install to continu	ue with the installation.	
	Install	Cancel

Figure 4-13 MGDH OPI Installation Screen

25. If you need to edit the files configured during a previous installation, then you can select the available **Edit** options to edit the files and click **Next**.

Production package Image: Create the configure files wizard 9700/Simphony SIM File Name: Image: Edit mpg.inc Update RVC_num, MerchanID, RVC information, Tender number Edit MGDH.inc Update IP Address, Port, URL Edit MGDH.inc for POSEOD For POSEOD, update IP Address, Port, URL Edit MGDD.inc For POSEOD, update POS Type, Merchant ID
Setup - MGDH OPI Solution package Create the configure files wizard 9700/Simphony SIM File Name: ms7.is Edit mgg.inc Update RVC_num, MerchanID, RVC information, Tender number Edit MGDH.inc Update IP Address, Port, URL Edit MGDH.inc for POSEOD For POSEOD, update IP Address, Port, URL Edit POSEOD.inc For POSEOD, update POS Type, Merchant ID
9700/Simphony SIM File Name: THE 7.53 Edit mpg.inc Update RVC_num, MerchanID, RVC information, Tender number Edit MGDH.inc Update IP Address, Port, URL Edit MGDH.inc for POSEOD For POSEOD, update IP Address, Port, URL Edit POSEOD.inc For POSEOD, update POS Type, Merchant ID
Next > Cancel

Figure 4-14 MGDH OPI Edit Files Screen

26. Click Next.



Figure 4-15 MGDH Modules Installation Screen

- 27. A restart of the computer is not required.
- 28. Click Finish.



Figure 4-16 MGDH OPI Installation Completion Prompt

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 4-4 Microsoft Windows Task Scheduler Settings

Temporary	Table
Name	OPI POSEOD
Description	Generates the OPI transaction report
Trigger	Daily
Action	Start a program
Program/script	Browse to find the POSEOD.exe in MGDHDriver directory
Add arguments (optional)	The upper level of the POSEOD.exe path
Start in (optional)	The upper level of the <code>POSEOD.exe</code> path

For more information on how to setup the Microsoft Windows Task scheduler visit the Microsoft website at: http://www.microsoft.com

5 Installing the OPI

OPI Installation Steps

Complete the following steps to install OPI.

1. Double-click the OPI installer desktop icon.



Table 5-1 OPI Installer Desktop Icon

2. Click Next.

Setup - Oracle Payment	Interface
	Welcome to the Oracle Payment Interface Setup Wizard This will install Oracle Payment Interface on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

Figure 5-1 OPI Installation Wizard

3. Verifying your computer and validating the required software takes around 10 seconds.

Setup - Oracle Payment Interface	
Checking dependencies Please wait while your machine is verified.	
Validating required software	

Figure 5-2 OPI Setup Validation Screen

- 4. If the target computer doesn't have MySQL installed, then the OPI installs the MySQL database. If MySQL is already installed, then the OPI uses the existing MySQL database and you must enter your MySQL logon credentials.
- 5. Click Next.

Setup - Oracle Payment Interface	Setup - Oracle Payment Interface Components getting installed Below component(s) will be installed on this system Oracle Payment Interface v6.1 MySQL Server 5.6 <a href="https://www.server.scolematric/components-system-component</th> <th> </th>	
Oracle Payment Interface v6. 1 MySQL Server 5.6 	Oracle Payment Interface v6.1 MySQL Server 5.6 	Setup - Oracle Payment Interface
< Back Next > Cancel	<back next=""> Cancel</back>	Orade Payment Interface v6.1 MySQL Server 5.6
< Back Next > Cancel	< Back Next > Cancel	
< Back Next > Cancel	< Back Next > Cancel	
		< Back Next > Cancel

Figure 5-3 OPI Components Installation Screen

6. Setup a MySQL password to use for creating the Database Schema.

Setup - Oracle Payment Interface Choose your MySQL Root Password This password will be used for creating database schema Password is case sensitive, should be at least 8 characters in length and must have at least one letter, one number and one special character from the following list 1@#\$%^%* Password Confirm Password
Password is case sensitive, should be at least 8 characters in length and must have at least one letter, one number and one special character from the following list !@#\$%^&* Password Confirm Password
< Back Next > Cancel

Figure 5-4 OPI MySQL Root Password Setup

7. Click **Next** to continue and enter a **Username** and **Password** to create a database user for the OPI and click **Next**.

Setup - Oracle Payment Interface Image:	
Creating DB user for OPI Image: Constraint of the set	Setup - Oracle Payment Interface
Username and password are case sensitive. Username should be made only using alphanumeric characters and must have at least one letter. Password should be at least 8 characters in length and must have at least one letter, one number, and one special character from the following list !@#\$%^&* Username: Password: Confirm password: <pre></pre>	Creating DB user for OPI This user will be used by OPI to make database connections
Password: Confirm password: 	Username and password are case sensitive. Username should be made only using alphanumeric characters and must have at least one letter. Password should be at least 8 characters in length and must have at least one letter, one number, and one special character from the following list !⊕≠\$%^&* Username:
Confirm password: 	Password:
< Back Next > Cancel	Confirm password:
	< Back Next > Cancel

Figure 5-5 OPI Creating a DB User

8. Select **POS**, **MGDH**, and then click **Next**.

 Setup - Oracle Payment Inter <u>face</u>			
Choose communication channel Please select appropriate installation type			
Pos Native Driver MGDH PMS			
	< Back Next >	Cancel	

Figure 5-6 OPI Communication Channel Selection Screen

9. Enter and confirm your password to secure a certificate for the OPI to use during MGDH communication, and click **Next**.

Setup - Oracle Payment Interface
This password will be used by OPI to secure certificate used in MGDH communication Password should be at least 8 characters in length and must have at least one letter, one number, and one special character from the following list I@#\$%^%*
Password:
< Back Next > Cancel

Figure 5-7 OPI Configuring POS Communication Screen



10. Enter the date and time you want to schedule a weekly restart of the OPI Service.

Figure 5-8 OPI Service Restart Task Scheduler



11. Select the destination drive location where to install the OPI and click Next.

Figure 5-9 OPI Select Destination Location Screen

12. Click Next.

E	Setup - Oracle Payment Interface
	Where should source code and license files be stored?
	Urace Payment Interface(OPI) application make use of Open Source Software components, the License terms of such components gives you the right to receive its source code, as well a copy of the applicable License. If the application being installed make use of Open Source technologies, the source
	code and license will be available for you in the folder specified below. Open Source Project Source Code will be stored in the following folder:
	Ci-QradePaymentInterface\OpenSourceSrcCode Browse Open Source Project Licenses will be stored in the following folder:
	C:\OraclePaymentInterface\OpenSourceLicense Browse
	< Back Next > Cancel

Figure 5-10 OPI Open Source Project Code and License Storage Locations

13. Click Next.



Figure 5-11 OPI Select Start Menu Folder

tup - Oracle Payment Interface		_
eady to Install Setup is now ready to begin installin computer.	Drade Payment Interface on y	our
Click Install to continue with the inst change any settings.	ation, or click Back if you want	to review or
Destination location: C: \OraclePaymentInterface Open Source Project Source Code C: \OraclePaymentInterface\O Open Source Licenses Location: C: \OraclePaymentInterface\O Open Sources: Apache Bouncy Castle-147 <	:ation: iSourceSrcCode iSourceLicense	• • •
	< Back Inst	all Cance

14. Verify your previous installation settings, and if correct, click **Install**.

Figure 5-12 OPI Installation Screen

15. The installation of the OPI and MySQL starts and may take several minutes. Upon completion, you can now configure the OPI.



Figure 5-13 OPI Installation Progress Screen

Configuring the OPI

Complete the following steps to configure the OPI:

1. Log in using your Microsoft Windows System Administrator credentials.

	Oracle F	ayment Interf	ace - Configurat	ion Tool
ι	lser name :		Password :	
F	Please login with an	existing windows acco	ount that has administrativ	ve rights.
ORAC	LE			
HOCDITAL	ITV			Login

Figure 5-14 OPI Configuration Tool - Terminal Mode

2. Click Next.

3. Enter the following information to configure the OPI Terminal mode:

|--|

Field	Value
POS Interface	Enable
OPI Mode	Terminal

Ora	acle Payment	Interface	- Configu	ration Tool	
	PMS Interface:	Disable	•		
	POS Interface:	Enable	•		
	OPI Mode:	Terminal	•		
ORACLE [®]					

Table 5-3 OPI Terminal Mode Settings

4. Click **Next**, and configure the OPI Middleware mode by entering the following information:

Field	Value
POS Interface	Enable
OPI Mode	Middleware
PrimaryHost	Confirm with Oracle Consulting Team
BackupHost	Confirm with Oracle Consulting Team

Table 5-4 OPI Middleware Mode Configuration Settings

Ora	icle Payment I	nterface -	Configuratio	on Tool	
	PMS Interface:	Disable	•		
	POS Interface:	Enable	•		
	OPI Mode:	Middleware	•		
	PrimaryHost:				
	BackupHost:				
ORACLE'					
HOSPITALITY				Next	

Table 5-5 OPI Middleware Mode Settings

5. Select **POS Configuration**.



Figure 5-15 OPI POS Configuration

6. Select the Add New Property button.

Oı	racle Payment	Interface - POS Conf	iguration Tool	
	Merchant ID	Merchant Name	POS Type	
* Doul	ble click your selected	record to review or update its cor	itent	
		Previous	Add New Prop	erty

Figure 5-16 OPI Add New Property Screen

7. Configure the merchant details using the following information:

Temporary	Table
POS Type	9700
Merchant ID	MID, same with the MGDH Merchant ID
Pay@Table	Disable
Merchant Name	Merchant Name
Merchant City	City where the merchant is located
Merchant Country	Merchant's Country

Table 5-6 OPI Merchant Details Configuration

- If multiple merchants have multiple MID's, refer to the steps listed above to **Add New Property** again or contact the Oracle Hospitality Consulting Team for assistance.
- The Merchant Name does not support special characters including the & character or the @ character and must contain from 5 to 25 characters.

Oracle	e Payment Interfa	ace - POS Configuration Tool
	POS Type :	Simphony2
	Merchant ID :	370000001
Merchant Config	Pay@Table :	Disable
	Merchant Name :	
	Merchant City :	
	Merchant Country	
ORACLE'		
HOSPITALITY		Previous Next

Figure 5-17 OPI Merchant Details Entry Screen

8. Click Add Terminal.

Oracle Payment Interface Co	nfiguration Tool				_
Oracle	Payment Int	erface - P	OS Configu	ration	Tool
POS Prope	rty Code :	37000000)1		
Terminal Config	uration :				
Devi	e Type : Pay@C	ounter Devic 👻			
Property ID	Works	tation ID	Device IP		
					Add Terminal
•					
* Double click your	selected record to	update its cont	ent		
ORACLE [®]					
HOSPITALITY			Previous		Next

Figure 5-18 OPI Add Terminal Screen

9. Enter the POS Terminal information using the following settings:

Table 5-7 OPI POS Terminal Configuration

Field	Value
Workstation ID	Workstation ID in the EMC
IP	PINPad IP Address

in Terri	inal configuration					
	Pleas	e Edit Terr	ninal Information	n		
Termir						
	Workstat	tion ID :				
	IP :					
					Terminal	1
						1
	RACLE		ОК	Cancel		
* Double HC	OSPITALITY					
ORACL						
HOSPITALITY			Previous		Next	

Figure 5-19 OPI Terminal Information Entry Screen

10. Click **Next** and then click **Exit**.

11. Review the OPI Configuration Summary page and click **Continue**.

Ora	acle Payment Interfac	ce - Configuration	Summary
	posSybase1.properties MaxWait=20 InitIdle=20 ResPort=2638 MaxPool=40 ResHost=127.0.0.1 MinIdle=10 ResDB=micros opera.properties TotalMerchantNumber=1 Port=5002 Mode=7 log.properties parameter_level.properties Type=OnSite Instance=1		
		Continue	Exit

Figure 5-20 OPI Configuration Summary Screen

12. Click **Yes** to save the configuration settings.

📅 Oracle Payment Interfac	ce Configuration Tool	>
Ora	acle Payment Interface - Configuration Summary	
	posSybase1.properties MaxWait=20 InitIdle=20 ResPort=2638 MaxPool=40 ResHost=127.0.0.1 MinIdle=10 ResBB=n MICROS Gateway Service Configuration opera.prol TotalMer Port=500; Mode=7 log.proper parameter Type=Ont Instance= Ves No Cancel	
	Continue Exit	

Figure 5-21 Save OPI Configuration Settings

13. Select **Yes** to restart the computer now or select **No** to restart the computer at a later time to complete installing and configuring the OPI.



Figure 5-22 OPI Installation Completion

Configuring the Port for the PIN Pad Terminal Mode

1. Go to the OraclePaymentInterface folder and go to the **bin** folder, then double-click the **config.exe** file.



Figure 5-23 Port Configuration for PIN Pad Terminal Mode

2. Enter your Microsoft Windows System Administrator credentials and click **Login**.

avorites Name ^ Date modified Type Size Desktop If AuditLogTool.exe 9/8/2016 4:14 PM Application 2,253 KB Downloads Isoconcorrection 1,468 KB Application 2,253 KB Downloads Isoconcorrection 1,468 KB Isoconcorrection 1,468 KB Recent Places Isoconcorrection 0/8/2016 4:12 PM Application 280 KB Documents Isoconcorrection 0/8/2016 4:12 PM Application extension 280 KB Music Isoconcorrection 0/8/2016 4:12 PM Application extension 280 KB Pictures Isoconcorrection Isoconcorrection Isoconcorrection Isoconcorrection Wales Isoconcorrection Isoconcorrection Isoconcorrection Isoconcorrection Isoconcorrection Isoconcorrection Isoconcorrection Isoconcorrection </th <th>ze 🔻 🖬 Open Bu</th> <th>ırn New folder</th> <th></th> <th></th> <th></th>	ze 🔻 🖬 Open Bu	ırn New folder						
Desktop Image: Audit.ogTool.exe 9/8/2016 4:14 PM Application 2,253 KB Downloads Image: Desktop 9/8/2016 4:12 PM Application 2,253 KB Recent Places Image: Desktop 9/8/2016 4:12 PM Application 25 KB braries Image: Desktop 9/8/2016 4:12 PM Application 25 KB Documents Image: Desktop Image: Desktop 200 KB Music Image: Desktop Image: Desktop Image: Desktop 200 KB Pictures Image: Desktop Image: Desktop Image: Desktop Image: Desktop Image: Desktop Videos Image: Desktop	avorites	Name ^	Date modified	Туре	Size			
Downloads Recent Places I config.exe 9/8/2016 4:12 PM Application extension 1,468 KB I config.exe 9/8/2016 4:12 PM Application extension 280 KB I Documents Music Pictures Videos I oracle Payment Inteface Key Value About Conditionation About I coal Disk (C:) Local Disk (C:) Shared Folders (\\/mw I etwork I etwork	Desktop	auditLogTool.exe	9/8/2016 4:14 PM	Application	2,253 KB			
Recent Places 9/8/2016 4:14 PM Application 35 KP braries Image: Oracle Payment Inteface Configuration 280 KB Documents About Image: Oracle Payment Inteface Key Value Pictures Image: Oracle Payment Inteface Key Value Image: Oracle Payment Inteface Somputer Image: Oracle Payment Inteface Key Value Image: Oracle Payment Inteface Local Disk (C:) Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Somputer Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Local Disk (D:) Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Shared Folders (I/Vmm Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle Payment Inteface Image: Oracle	Downloads	BouncyCastle.Crypto.dll	9/8/2016 4:12 PM	Application extension	1,468 KB			
braries branes b	Recent Places	💷 config.exe	9/8/2016 4:14 PM	Application	35 KB			
braries Configuration Configur		🚳 log4net.dll	9/8/2016 4:12 PM	Application extension	280 KB			
Documents Music Music Pictures Videos Image: Computer Local Disk (C:) Local Disk (C:) Shared Folders (\\vmw Image: Computer Image: Computer <td>ibraries</td> <td>🚳 ı 📺 Oracle Payment Intefa</td> <td>e Configuration</td> <td></td> <td>_ 🗆 ></td>	ibraries	🚳 ı 📺 Oracle Payment Intefa	e Configuration		_ 🗆 >			
Music Value	Documents	About						
Pictures Image: Control of the second se	Music	💿 🛛 🖅 🧀 Orade Payment Intefa	ce Key	Value				
Videos	Pictures							
i Local Disk (C:) Local Disk (D:) Shared Folders (\\vmw i letwork	videos							
Local Disk (C:) Local Disk (C:) Local Disk (C:) Please login with machine credentials etwork User Password Login Cancel	omputer							
Local Disk (D:) Shared Folders (\\vmw in the machine credentials letwork	Local Disk (C:)				-			
Shared Folders (\\vmw Retrieved to the second secon	Local Disk (D:)							
letwork	Shared Folders (\\vmv							
letwork			places lasts with sea shies	and a state				
User Password Login Cancel	letwork		Please login with machine	credentials				
Password Cancel			User					
Login Cancel		Password						
			Login					
								
					-			
		J						

Figure 5-24 OPI Port Configuration – Step 1

3. Double-click the **Oracle Payment Interface** to expand the folder.

iter 🔻 Loc	ter 🔹 Local Disk (C:) 🔹 OradePaymentInterface 🔹 bin									
Burn	Burn New folder									
Nar	me ^	Date modified	Туре	Size						
		on	Key	Value						

Figure 5-25 OPI Port Configuration - Step 2

4. Click **server0Q** and then double-click the **Port** setting and enter the correct port number for the PIN pad. You must confirm the PIN pad port number with the partner.



Figure 5-26 OPI Port Configuration - Step 3

5. Restart the **OPI Service**.

	🔍 Services							미지
	File Action View	Help						
	🔍 Services (Local)	🔅 Services (Local)						
		OPI Service	Name 🔺	Description	Status	Startup Type	Log On As	
			🔍 Netlogon	Maintains a		Manual	Local System	
		Start the service	🔍 Network Access Pr	The Netwo		Manual	Network S	ace
			Network Connections	Manages o	Started	Manual	Local System	
		Description:	🔍 Network List Service	Identifies t	Started	Manual	Local Service	
ı		Oracle Payment Interface Service	Network Location A	Collects an	Started	Automatic	Network S	
			🔍 Network Store Inte	This servic	Started	Automatic	Local Service	
			🔐 OPI Service	Oracle Pay		Automatic	Network S	
			🔍 OPI Service Utility	Oracle Pay	Started	Automatic	Network S	
			Performance Count	Enables re		Manual	Local Service	
			🔍 Performance Logs	Performan		Manual	Local Service	
			🔍 Plug and Play	Enables a c	Started	Automatic	Local System	
			🔍 PnP-X IP Bus Enum	The PnP-X		Disabled	Local System	
			🔍 Portable Device En	Enforces g		Manual	Local System	
			🔍 Power	Manages p	Started	Automatic	Local System	
			🔍 Print Spooler	Loads files	Started	Automatic	Local System	
			🌼 Problem Reports an	This servic		Manual	Local System	
r			🌼 Protected Storage	Provides pr		Manual	Local System	
			🔍 Remote Access Aut	Creates a		Manual	Local System	
			🔍 Remote Access Co	Manages di		Manual	Local System	
			🔍 Remote Desktop C	Remote De	Started	Manual	Local System	
			🧟 Remote Desktop Se	Allows user	Started	Manual	Network S	
			Remote Desktop Se	Allows the	Started	Manual	Local System	
			Remote Packet Cap	Allows to c		Manual	Local System	
			Remote Procedure	The RPCSS	Started	Automatic	Network S	
			🔍 Remote Procedure	In Window		Manual	Network S	-
		Extended Standard	- the					
	,)	()()						
							J	

Figure 5-27 Microsoft Windows Services Screen