Oracle[®] Payment Interface Oracle Hospitality RES 3700 MICROS Gateway Device Handler Installation Guide Release 6.1 E84913-01

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Format

Preface

This document describes how to install Oracle Payment Interface (OPI) Release 6.1 with the Oracle Hospitality RES 3700 MICROS Gateway Device Handler (MGDH) and it explains how to configure RES 3700 for OPI with MGDH.

Audience

This document is intended for installers and system administrators of 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
January 2017	Initial publication

1 Pre-Installation

Before You Start the Installation

Verify that your environment meets the following requirements:

- The application requires .NET Framework version 4.0 or higher.
- Upgrading from previous versions of MGDH to MGDH version 6.1.0.9 is not supported.
- Upgrading from previous versions of MPG/OPI to OPI version 6.1.0.9 is not supported.
- If a previous MGDH installation exists, go to Programs and Features and uninstall the previous MGDH installation. Then install the new MGDH.
- Verify with the merchant whether they use TSR (table service) or QSR (quick service), or both. (No tips allowed in QSR.)
- Verify with the merchant whether they would like "Refund" functionality activated or not. The merchant needs to control the privilege for this function.
- Verify with the merchant whether they would like "Sale&Cash" functionality activated. This allows a guest to get cash back with their purchase. This is only available for QSR.
- Make sure Microsoft Visual C++ 2010 is installed on the PC where MGDH and OPI will be installed.
- At least 6 GB of free disk space is required for OPI installation.
- You must install both MGDH and OPI as an Administrator.
- You will need to enter the user name and password of a Windows local admin during the installs.
- You will need to know a Micros database user name and password to install both MGDH and the Pay@Table portion of OPI.

Obtain the following information before installing the software:

- Confirm Merchant ID's
- Confirm receipt header details
- Tender Media numbers for each card type
- IP of OPI Server
- IP of POS Server
- SQL Root Password may be needed if there is an existing MySql already in place
- Workstation ID's and IP's that will integrate to a PINPAD

Note: If the MGDH setup software is run on a 3700 server with legacy MGDH files present in the CAL Files folders, manually remove these files before installation. Otherwise, the files deployed via the new CAL Packages will be constantly overwritten by the legacy files in the CAL Files folders and unexpected results will occur.

For example, check Micros\Res\CAL\WS5A\Files\CF\Micros\Etc for any legacy MGDH files. If found, delete all legacy MGDH files. In addition, check in the similar location for other workstation types. Lastly, if there is a Bin folder in Files, then check that folder as well.

2 MGDH OPI Solution

Installing MGDH

To install MGDH:

- 1. In Microsoft Windows, log in as an administrator, and then run the MGDH_OPI_6.1.0.9.exe file.
- 2. Click Next.
- 3. Select the install location, and then click **Next**.
- 4. Enter a database user name and password, and then click **Next**. It may take 10–20 seconds to connect to the database.

OS Config files setup Wizard	8
Select Solution:	
Select a solution	OPI
Select POS Type	3700 5.4.0100.2276
The Folder for MPG.inc	C:WGDHDriver/etc
The Folder for MGDH.inc	C:/MGDHDriver\etc
The Folder for POSEOD	C:MGDHDriver\POSEOD
ODBC Name micros User Name custom	Password *****
	Next > Cancel

- 5. Select the currency, and then select the RVC Mode. QSR revenue centers do not allow tips.
- 6. To use one merchant ID, select **Single MerchantID**, enter the merchant ID, and then click **Next**.
- 7. To use multiple merchant IDs, select **Multiple Merchant ID**, and then click **Next**.
- 8. Enable all revenue centers that use MGDH.
- 9. If you selected **Multiple Merchant ID**, enter the merchant ID for each revenue center.
- 10. For **Mode**, select **TSR** or **QSR** for each revenue center. Tips are not allowed in QSR.

11. For each revenue center, click **Edit**, and then enter the revenue center headers and footers.

🖳 rvc num: 1 header eo	ditor			
Header 1:	MICROS DEMO SYSTEM	Trailer 1:	Signature:	
Header 2:	MICROS System, Inc.	Trailer 2:		
Header 3:	7031 Columbia Gateway Drive	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		

12. Select the tender from the drop-down for each card type. If you do not have a specific tender listed, leave that entry blank. Gift Cards are not supported in OPI 6.1, so leave that blank.

Tender Map in MPG. inc	
VISA_Tender -	VisaDebit_Tender
Master_Tender -	Maestro_Tender
AMEX_Tender	VPay_Tender
Diners_Tender -	Alliance_Tender
JCB_Tender	ECChip_Tender
CUP_Tender	GiroCard_Tender
Gift_Tender 🗸	MCDebit_Tender
CUPDebit_Tender	Interac_Tender
DEBIT_Tender	SaleCash_Tender
BankCard_Tender 🗸	
Discover_Tender -	
UKDM_Tender 🗸	
Electron Tender	

13. Select **VoidMode**, change the default selections if necessary, and then click **Next**.

POS Config files setup Wizard			8
Transaction	Options in	MPG. inc	2
Trans Option Name	Trans Option Description	1	
EnableSigVerify	Enable signature verify	Tab Auth amount	50.00
VoidMode	Event 17 do Void		
📝 RunATab	Enable Tab Auth		
✓ TipAdjust	Allow tip adjust		
		< Back Next >	Cancel

- 14. Edit print options if necessary, and then click Next.
- 15. Enter the IP address of the computer that hosts OPI, and then click Next.

POS Config files setup Wizard	X
Server Options in	workstation MGDH.inc
URL Backup Mode: Host1 HTTP: Host1 Port:	0 v https://192.168.1.1 5098
TIMEOUT:	60 < Back Next > Cancel

- 16. On the POSEOD Options screen, enter the IP address of the computer that hosts, enter the merchant IDs, and then click **Next**.
- 17. Click **OK**, and then click **Install** on the **Setup MGDH OPI Solution package** screen.
- 18. If necessary, edit configuration files, and then click Next.

🔁 Setup - MGDH OPI Solution package	
Create the configure files wizard	
3700 Interface for MGDH(1-9999999): 7	
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

- 19. Click Next.
- 20. Select **No** to continue with the OPI installation.

POSCFG Configuration for MGDH

Employee Class / Refund

The ability to perform a refund is controlled by the **SIM privilege 4** option. To access, select **Employee Classes > Privileges > Privilege Options**.

Only enable this option with the merchant's permission and only for the employee class they specify.

e Edit Record Help			
Employee Classes	🏴 🖒 😤 🔠 名 👫 🖒 🏅	s 🐴 🧶 💦	
01 Server Table View Sort By	Number 👤 🚺 🖣 🕨 🕅 💅 🗐 🖶 🖬	- 🗊 🏟	
cord View Table View			
	Guest Checks Printing Void /	Beturn Dotions Delivery Cash Manac	
Number Name 4	Clock In / Sign In Privileges	Procedures Transactions	
101 Server Table View			
102 Server	Privilege Levels Privilege Options GSS Privileg	ges TMS Privileges	
103 Cashier	Show Ingredient Amt	System Interface Module	
104 TimeKeeping Only	Allow all Offline reports	🔲 SIM privilege 1	
105 Busser	Allow signed-in employee Offline reports	SIM privilege 2	
106 Host	Use Reports	SIM privilege 3	
107 Server-Sections	Use Alert Viewer	V SIM privilege 4	
108 Srvr-Req Finger Print Auth	Liear all totals	Credit Card Batch	
109 Srvr Tbl View-Mag Card Req	Allow Finger Print Enrollment	Create	
201 Bartender	Order Tune Promise Time Adjust	F Edit	
202 Bartender- MSR Reg		Reporting	
203 Bartender- Req Finger Print		Settle	
301 QSR Cashier 1			
302 QSR Drive Thru	Database Manager	Transaction Analyzer	
303 QSR Cashier 2	Allow DB Rebuild	🔲 Use Transaction Analyzer	
304 QSR nonCOM	Allow Encryption Key Change	Save TA configuration	
401 Delivery Cashier	Allow DB Backup	Delete TA configuration	
402 Driver	Allow DB Restore	mTablet Configuration	
501 Retail Cashier	Allow User Edit		
601 API Employee	Allow DB Utilities	Associate millablet with mistation Disassociate millablet from mistation	
9999 Manager	Anow Do Onnies		
10000 CMautoclose			

Interfaces

To access interfaces, select **Poscfg > Devices > Interfaces**.

Interfaces 7 Chip & PIN Interface Record View Table View Number Name 1 OCB 2 SIM 3 ddd 4 PMS 7 Chip & PIN Interface Backup Interface Backup Interface Chip & PIN Interface Chip & PIN Interface SS SERVER SS SS	Interface Agoing Message Name hip & Pin Timeout hip & Pin Timeout 120 twork Node Number ID Digts SERVER Image: Server	File Edit Re	ecord Help	_		
7 Chip & PIN Interface Sort By Number I	Image: Applied Bill Applied Message Name Timeout Applied Message Name Timeout 120 twork Node Number ID Digks SERVER 9 ckup Interface Log Transactions SIM Interface crace Type CP Applied Message Name Timeout 120 Applied Message Name Timeout 120 twork Node Number ID Digks 9 CP Applied Message Name Timeout 120 two the Applied Message Name Interface Log Transactions	Interface	es		B 13 2 6 2 D (3 > M @ N?
Number Name General Interface 1 0CB 0utgoing Message Name Timeout 2 SIM 0utgoing Message Name Timeout 3 ddd Chip & Pin 120 4 PMS Network Node Number ID Digits 9 Backup Interface Log Transaction SIM Interface SIM Interface SIM Interface	Agoing Message Name Timeout hip & Pin 120 twork Node Number ID Digits SERVER S IN Interface I Log Transactions entace Type CP V	7 Chip & Pll	N Interface	Sort By Number	I I I I I I I I I I I I I I I I I I I	+ —
Number Name General Interface 1 0CB 0utgoing Message Name Timeout 3 ddd Chip & Pin 120 Y Chip & FIN Interface Number ID Digits 9 Backup Interface Log Transachi Interface Image: SIM Interface Image: SIM Interface Image: SiM Interface	Interface Agoing Message Name Timeout hip & Pin 120 twork Node Number ID Digits SERVER S I Cog Transactions Ckup Interface SIM Interface Enface Type CP V	Record View	Table View			
1 0C8 2 SIM 3 ddd 4 PMS 7 Chip & PIN Interface Backup Interface Log Transaction SIM Interface SIM Interface	Agoing Message Name Timeout hip & Pin 120 twork Node Number ID Digits SERVER S IN Interface I Log Transactions For a state Type CP T	Number	I N	ame	General Interface	
2 SIM Outgoing Message Name Timeout 3 ddd Chip & Pin 120 4 PMS Network Node Number ID Digits 9 SI SERVER 9 Backup Interface Log Transachi SIM Interface SIM Interface	Agoing Message Name Timeout hip & Pin 120 twork Node Number ID Digits SERVER S IN Interface SIM Interface reface Type CP	1	1 0C8		and a function of	
3 ddd 4 PMS 7 Chip & PIN Interface Backup Interface ■ Log Transaction ■ SIM Interface	hip & Pin 120 Atwork Node Number ID Digits SERVER 9 ckup Interface Log Transactions SIM Interface DP	- 2	2 SIM		Outgoing Message Name	Timeout
7 Chip & PIN Interface Network Node Number ID Digits 9 9 Backup Interface Log Transaction SIM Interface SIM Interface	etwork Node SERVER Ckup Interface Interface Inter		3 ddd 4 PMS		Chip & Pin	120
Interface Type TCP			7 Chip & PIN Interfa	ce	Network Node SS SERVER Backup Interface Interface Type TCP V	Number ID Digits 9 Comparison 9

Use the following parameters:

- Number: 7
- System Name: Chip&PIN Interface
- Outgoing Message Name: Chip&PIN
- **Timeout**: 120
- Network Node: RES Server
- Number ID Digits: 9
- **SIM Interface**: enable
- **Type**: TCP

Touch Screens

To access touch screens, select **POSCFG > Devices > Touchscreen Designer**.

📴 Touch	screen De	signer											_
File Edi	t Record	l Help											
Touch	scree	n Desi	gner				🎙 🕅	7	<u>ت</u> 🖞] 📴	Î	2	
195 MPC	G Pymt Sch	1 -	Template	: 101 Detail1					ÞI 12	' 🔊	÷		
Colors	256 Color:	s 💌	800x600	 Resolution 	Area 0	•							
	Debit	GC	Discou	040 000									
Debit	EXT	Redee	nt	\$10 \$20	Prev								
1 Sale	Acct Chg	CC Bal \$	OnDmnd C Vouch	🔏 Cash	HC Disc								
3 Tip Adjust	2 Sale w/Tip	Travelers Check	Personal Check	PMS Inquire AutoDise	Functn								
4 Refund	7 Reprint	15% Grat	Macro TEST DISC	Room Charg Remove AutoDisc	transferred to the second seco								
8 Auth	19 Repost	Chrg Tip	Add autodi	cancel sc Order	Trans Cancel								
9 Final	6 Admin Rpt	«Л ^е	nte r	Clea r @/F	or Seat #								
13 Initial auth	10 Pinpd CMD	7	8	9	Filter Seat								
16 Bal Ingry	12 Voice	4	5	6	Print Persist								
15 GC activate	11 Refund (m)	1	2	3	Print								
18 Man Auth		0	•	00	Service								
Legend	17 Void		_	Font Arial Small	_	C	ategory	SIM/	PMS In	juire			_
	h to Fit			Next	-	h	nterface	7 Ch	ip & Pin	Interfa	се		-
Transp	parent			Color Black on Y	ellow 🔍	Inquire	Number	17		_			
		Bitn	nap Ic	on Pos	Icon	M	edia File	, 	II Scree	n	_]

Link every Void key to SIM inquire number 17.

Link credit card tender keys to the correct SIM inquire # using the values below.

The buttons for TSR are listed as the following:

- [CC SALE]: SIM INQ #1
- [Tip Adjust]: SIM INQ #3
- [CC Refund]: SIM INQ #4 (Recommended refund method.)
- [Refund(m)]: SIM INQ #11
- [CC Auth]: SIM INQ #8

- [CC Final]: SIM INQ #9
- [CC Voice]: SIM INQ #12
- [Tab Auth]: SIM INQ #13
- [Balance Inq]: SIM INQ #16
- [Reprint]: SIM INQ #7
- [Repost]: SIM INQ #19
- [Void(e)]: SIM INQ #17
- [Manual Auth]: SIM INQ #18
- [Sale + Tip]: SIM INQ #2 (Supports tipping from the PED. If tipping from the PED is allowed, use INQ #2 instead of INQ #1.)
- Note: [Void(e)] is a special button. It exists on POS 3700 only. For other POS platforms, it is not needed. All void buttons need to be replaced with it.

The buttons for QSR are listed as the following:

- [CC Sale]: SIM INQ #1
- [SALE&CASH]: SIM INQ #5
- [CC Refund]: SIM INQ #4 (Recommended refund method.)
- [Refund(m)]: SIM INQ #11
- [CC Voice]: SIM INQ #12
- [Balance Inq]: SIM INQ #16
- [Reprint]: SIM INQ #7
- [Repost]: SIM INQ #19
- [Void(e)]: SIM INQ #17
- Note: [Void(e)] is a special button. It exists on POS 3700 only. For other POS platforms, it is not needed. All void buttons need to be replaced with it.

Note: No manual entry for QSR.

Tender Media

Setup the following for credit cards.

Tender / Media File Edit Record Help		
Tender / Media 201 Visa Becord View Table View	Sort By Number 💌 📢 🔸 🕨	2 № ∴ > A ⊘ № √ ∋ + 2 &
Number Name	General Tender Presets CC Tender Cred General Options	it Auth PMS Service TTL Prir▲ ► Charged Tip
101 Cash 102 Traveler Chk 103 Personal Chk 104 GC Redeem 105 SVC Redeem 106 SVC 200 -CreditCard 201 Visa 202 MasterCard 203 Amex 204 Diners 205 JCB 206 SOLO 207 Laser	 Open drawer Use with currency conversion Reference required Exempt auto service charge Employee meal Assume paid in full Require amount entry Declare tips paid Item is shareable Post to gross receipts Post to charge receipts Post to charge receipts Post fiscal cash register credit Tax exempt coupon Allow with Euro Use with Tip Check 	901 Charge Tip Image: Constraint of the second
	Administrato	or, The 11/19/2015 4:36:51 AM

Notes:

- Assume paid in full.
- Reference required.
- Charged Tip: Set to **0** None if all RVCs are QSR mode.
- Charged Tip: Set to Link a Tip service charge if some RVCs are TSR mode.

The following Tender / Media Tabs should be left blank (no options enabled):

- Presets
- CC Tender
- Credit Auth | Authorization
- Credit Auth | Preambles

On the PMS tab	, enable Allo	ow 19 reference	characters.
----------------	---------------	-----------------	-------------

🖾 Tender / Media	
File Edit Record Help	
Tender / Media 201 Visa	
Record View Table View	
	General Tender Presets CC Tender Credit Auth PMS Service TTL Print I
Number Name 101 Cash 102 Traveler Chk 103 Personal Chk 104 GC Redeem 105 SVC Redeem 106 SVC 200 - CreditCard 1 201 Visa 202 203 Amex 204 Diners 205 JCB 206 SOLO 207 Laser	Property Management System Post 0.00 amounts to PMS Do not post reference entry Post gross repts to PMS Print both the posting message and the response Do not save PMS response Allow 19 reference characters Property Management Interface T
	Administrator, The 11/19/2015 4:37:30 AM

Cash Back Tender

Pot 1	ender / M	edia			
File	Edit R	ecord Help			
Τe	ender /	' Media		🏴 🖒 😤 👘	🛃 👫 🗊 🏃 🛛 🗛 🥔 🎀
216	6 CashBac	sk Tdr		Sort By Number 💌 🚺 🖣 🕨 🕨	1/9+- 🗐 🤃
Rec	ord View	Table View			
	-			General Tender Presets CC Tender Cre	edit Auth PMS Service TTL Printing Personal Ch
Π	Number	Name	*	General Options	Charged Tip
H	211	OPI Visa		Open drawer	
	212	OPI Discover		Use with currency conversion	High Amount Lookout
	213	OPI Amex		Reference required	
	214	OPI Diners		Exempt auto service charge	
	215	OPI M.C.		Exempt inclusive service charge	
	216	CashBack Tdr		Assume paid in full	HALO limits overtender
	220			Require amount entry	C HALO limits amount tendered
	300	- Other		🗖 Declare tips paid	Options
	301	Manager Meal		🔽 Item is shareable	Enable Tender Truncation
	302	Promo	_	Post to gross receipts	🔲 Enable Tender Rounding
	400	- Room Chrg		✓ Post to charge receipts	Round Tender to Nearest 10
	401	Room Charge		Fost fiscal cash register credit Tay evempt coupon	Rounding Based on Tens Digit
	402	Account Chrg		Allow with Euro	Insignificant Digits
	501	Cash Drop		🔲 Use with Tip Check	
	502	Cash Pickup		Check for Placeholders	External Type
	503	Tips Paid		Persist Auto Discounts	•
	504	Paid In		Prompt for Promise Time	SRM Payment Type
	505	Paid Out		Upen drawer before prompt	
	900	- Service		Enforce beverage control	1
	901	Service			
	902	Print Check	-		

Verify the merchant wants cash back functionality before configuring this.

Cash back is supported for QSR revenue centers only.

Sales | Tender / Media | Tender:

- Assume paid in full.
- Reference required.
- Service Charge 0 None.

	Tender / M	edia									
Fil	e Edit R	ecord Help									
Т	ender.	/ Media		₽ 8	î a 😤	市 🖌) 📴 🗊	>	緧	🧶 📢	>
2	16 CashBa	ck Tdr		Sort By Number 💌 📕	< ►	N V	' 'Ə 🕂				
Re	ecord View	Table View									
				General Tender Presets CC	Tender	Credit A	uth PMS	Serv	ice TTL	Printing	Personal I
Г	Number	Name		Credit Cards		P	rompt for			1	
	211	OPI Visa		Verify before authorization		Ē	Prompt for	r immedia	ate paymer	nt	
	212	OPI Discover		Tender must exceed tip		Ē	Prompt for	rissue ni	umber		
	213	OPI Amex		Credit auth required		Г	Prompt for	r issue da	ate		
	214	OPI Diners		Credit final amount required		Г	Prompt for	r optiona	l trailer prin	nt	
	215	OPI M.C.		Allow recall			Prompt for	r cashba	ck amoun	t	
	216	CashBack Tdr		🔲 Mask Credit Card Number			Prompt for	r Card He	older Not F	Present	
	220			🔲 Mask Cardholder Name			Prompt for	rCVV on	i Manual E	ntry	
	300	- Other		Persistent Payment			Prompt for	rCW on) Swiped E	ntry	
	301	Manager Meal		🔽 Debit Card			Do not Pro	ompt for .	AVS		
L	302	Promo	_	🔲 Allow debit refund							
	400	- Room Chrg		🔲 Co-branded Credit Card							
	401	Room Charge		Expiration Date		гP	INPad				
	402	Account Chrg		E Fundation data and in d			Require P	IN			
	501	Cash Drop		Expiration date required		Ac	count Input	t			
	502	Cash Pickup		Do not check expiration		Pr	nmnt			enath	
	503	Tips Paid		Open expiration format		L L	enter -		— ī	0	
	504	Paid In		Mask expiration date		1					
	505	Paid Out									
_	900	- Service									
	901	Service									
-	902	Print Check	Ŧ								

- Debit Card
- Prompt for Cashback Amount

File Te 216	Edit R Edit R Ender (6 CashBac	edia ecord Help / Media ck Tdr	◎ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
	Number 211 212	Name OPI Visa OPI Discover	General Tender Presets CC Tender Credit Auth PMS Service TTL Printing Persons Property Management System
	213 214 215	OPI Amex OPI Diners OPI M.C.	Post 0.00 amounts to PMS Do not post reference entry Post gross ropts to PMS Print both the posting message and the response
	216 220 300 301	CashBack Tdr - Other Manager Meal	Do not save PMS response Allow 19 reference characters
	302 400 401	Promo · Room Chrg Room Charge	
	402 501 502	Account Chrg Cash Drop Cash Pickup	
	503 504 505	Tips Paid Paid In Paid Out	
	900 901 902	- Service Service Print Check	*

- Allow 19 reference characters.
- MPG.inc must have this value: Promptcashback = True

Cash Back Service Charge

The cash back tender also requires a cash back service charge, though it is not directly linked to the cash back tender.

Service Charges			
File Edit Record Help			
Service Charges		ే n 😤 👘 名 👫 ే h	» м < М
905 CashBack SVC	Sort By Number 💌 🚺	🔺 🕨 🎽 🕁 🕇	- 🏼 🗐 🤃
Record View Table View			
Number Name 901 Charge Tip 902 15% Grat. 903 Driver 904 Delivery chg 905 CashBack SVI 906 GC Cashout	General Options Service C Tax Class Print Class 101 Guest Check Privilege NLU 0 Category Key Code Consolidation Group	Anarge SLU Menu Level Class 101 All Levels Amount Minimun Percent Minimun Effective From Effective To	Icon Icon Icon Icon Icon Icon Icon Icon
· ·			
		The Manager, Joe	9/14/2016 11:38:20 AM

Setup the following service charge.

- Name = "CashBack SVC"
- General Tab: Menu Level Class = all levels Print Class = Guest check

🔤 Service Charges		
File Edit Record Help		
Constant Channes	💦 * 🚑 🚔	🕾 📴 🔅 💊 🛛 🗛 📣 🔊
Service Charges		22 🖺 👌 🧖 🕅 🥙 📬
905 CashBack SVC	Sort By Number 💌 🚺 ┥ 🕨 🔰	1/9+- 🗐 🤃
Record View Table View		
· · ·	Constal Options Service Charge	
Number Name 🔺	General Options Service Charge	
901 Charge Tip		
902 15% Grat.	General Settings	Apply to Service Charge Itemizer
903 Driver		
904 Delivery chg		V Remizer 1
905 CashBack SVC	I → Amount	V Remizer 2
906 GC Cashout		V Remizer 3
		V Remizer 5
	Item is obereable	V Remizer S
	Cook Management Till Required	V Itemizer 7
	Cash Management Thi Hequired Print Multiple Checks / Receipts	V Itemizer 8
	Promot for Multiple Checks/Receipts	I♥ Romizer o
	External Cross Reference 1	External Type
		T
	Evternal Cross Reference 2	,
-	J	
	· · · · · ·	
	The Mana	ager, Joe 9/14/2016 11:38:53 AM

• Options Tab: Amount Reset Itemizers

🔤 Service Charges File Edit Record Help			
Service Charges 905 CashBack SVC	Sort By Number 💽 📔 🗸	`a 🛣 🔠 名 📴 🖒 ↓ ▶ ▶ 1⁄2 1∋ 🖶	» м « » =] &
Record View Table View Number Name 901 Charge Tip 902 15% Grat. 903 Driver 904 Delivery chg 905 CashBack SVC 906 GC Cashout	General Options Service Char Type Standard Non-Revenue Non-Revenue Cash Back Post to cover count Post to svc charges total	ge Post a perce Post to tips p Post to charg Do not post t Tender/Media fo	ntage to tips paid aid total ged tips total o emp tip totals r Tips Paid
		The Manager, Joe	9/14/2016 11:39:22 AM

• Service Charge Non-Revenue Cash Back

POSEOD

To verify POSEOD files are properly configured, go to

Micros\Res\Pos\Scripts\poseod\ and verify the contents of the following files:

• MGDH.inc

Verify the server IP address and port are correct for the computer that hosts OPI.

• POSEOD.inc

Verify OR is the code for RES 3700. Other POS types use a different code. Verify the Merchant ID is correct. The following example shows a merchant ID and code. Separate multiple merchant IDs with the pipe symbol and no spaces (for example, |OR|370000001|37000002|).



To run POSEOD manually, double-click the

Micros\Res\Pos\Scripts\poseod\poseod.exe file.

A DOS CMD window flashes briefly.

To verify POSEOD ran successfully, open the

OraclePaymentInterface\log\transaction.log file and confirm BATCH and APPROVAL appear with the correct time stamp at the bottom of the file.

BATCH	00	APPROVAL
MGM RSA	00	APPROVED
MGM RSA	00	APPROVED
MGM RSA	00	APPROVED

Configuring POSEOD to run as part of a scheduled RES autosequence:

Autosequences

Eile Edit Re	grams cord Help						
External 916 POSEOD Record View	Programs Sort I	By Number 💌	<mark>┡</mark> \$_`}; \$ \$\$ 18 2 19 (15) < < > > > <i>1</i> 2 22 19 (15) < < > > > > <i>1</i> 2 22 19 (15)	a ♦ ¥ ⊒ \$			
Number	Name	*	POSEOD				
907	KDS						
908	Deniseexport		User Interface				
909	CMAutoclose						
910	Alert Viewer		Run Style				
911	CMD		Normal				
912	Report Viewer Default		,				
913	Report Viewer VIEWER		Show Alert Status				
914	ALERT VIEWER		🔲 Run in separate virtual machine				
915	Product Mgr Procedures		Object Range Tupe				
916	POSEOD						
W	orking Directory						
Dir \$()	MICROS_DIR_POS)\Scripts'	Poseod					
Command Line Dir \$(MICROS_DIR_POS)\Scripts\Poseod\Poseod.exe							

1. Poscfg | System | External Programs

- New record named: POSEOD
- User Interface: Console
- Run Style: Normal
- Working directory: \$(MICROS_DIR_POS)\Scripts\Poseod
- Command line: \$(MICROS_DIR_POS)\Scripts\Poseod\Poseod.exe
- 2. Call the above external program during the End of Night autosequence, but before printing occurs. (So that if printing fails, it will not prevent POSEOD from running.)

Note: You can schedule POSEOD using Windows Task Scheduler.

Installing OPI

You cannot upgrade from earlier versions of OPI and MPG to OPI 6.1. Remove earlier versions of the software before installing OPI 6.1. The MySQL part of the installation fails if a ProgramData\MySQL folder from an older release is on the computer when you install OPI 6.1.

Uninstalling the Old Version of OPI and MPG

- 1. Run POSEOD with the old version to verify all previous transactions have been batched. Verify the batch was approved in the transaction.log.
- 2. Save a backup of the current OPI and MPG folder structure.
- 3. Open the *%OPI_HOME%/bin/*MicrosGatewayConfig.exe file and save a screen capture of the ServerXX values.
- 4. Save a screen shot of the POS record you are using and its values (for example, posRes1).
- 5. Uninstall these components through Microsoft Programs and Features:
 - MPG
 - MySQL if no other products are using it
 - MySQL community
- 6. Rename the C:\ProgramData\MySQL folder to MySQL_Old. If you do not see the C:\ProgramData folder, enable Windows Explorer > Tools > Folder Options > View > Show hidden files, folders, and drives, and then close and re-open Windows Explorer.
- 7. Restart the computer.
- 8. Install OPI.

Installing OPI for the MGDH Solution

- 1. Double-click the Oracle Payment Interface-6.1.0.9.exe file, and then advance through the installation wizard.
- 2. On the **Choose communication channel** screen, select **POS** and **MGDH**.

- 3. Enter a certificate password.
- 4. Enter a date and time for the OPI service to restart on a weekly basis.
- 5. Select the install location.
- 6. Select the location for the source code files and license, and then click Next.

Setup - Oracle Payment Interface	
Select Open Source Project Source Code and License Install Folde Where should source code and license files be stored?	*
Oracle Payment Interface(OPI) application make use of Open Source Sof components, the License terms of such components gives you the right t source code, as well a copy of the applicable License. If the application being installed make use of Open Source technologies, 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:	ftware o receive its the source
C: \OraclePaymentInterface \OpenSourceSrcCode	Browse
C:\OradePaymentInterface\OpenSourceLicense	Browse
< Back Next >	Cancel

- 7. Click Install.
- 8. Enter a Microsoft Windows administrator user name and password, and then click **Login**.
- 9. Specify interface and mode settings:
 - Select Enable from the POS Interface drop-down.
 - Select the **OPI Mode**:

To configure communicate directly to the pinpads, select **Terminal**.

To communicate to the pinpads through a third party, select **Middleware**, and then go to the **Middleware**.

- 10. Select POS Configuration.
- 11. Click Add New Property to create a Merchant ID.

🚟 Oracle Payment Interface (Configuration Tool	
Oracle	e Payment Interfa	ace - POS Configuration Tool
	POS Type :	POSRES -
	Merchant ID :	
	Pay@Table ∶	Disable •
Merchant Confi	guration :	
	Merchant Name :	
	Merchant City :	
ORACLE HOSPITALITY	Merchant Country :	Previous Next

12. Specify merchant settings as follows:

- Select **POSRES** from the **POS Type** drop-down.
- Type the **Merchant ID** value. The value must match the Merchant ID value used for the MGDH installation.
- If using Pay@Table, go to Pay@Table.
- Enter merchant information, and then click Next.
- 13. Click Add Terminal.
- 14. Enter terminal information:
 - Workstation ID: Workstation obj_num in POS Configurator.
 - **IP**: Pinpad IP address. If using a simulator instead of a PED, enter the IP address of the computer where the simulator is running.
- 15. Repeat steps 13 and 14 to add more terminals, and then click Next.
- 16. Click Exit.
- 17. On the **MICROS Gateway Service Configuration** dialog box, click **Yes** to save your changes.
- 18. Select **Yes** to restart the computer.

Running the OPI Config.exe File for Terminal Mode and Pay@Counter

1. Go to <drive>:\OraclePaymentInterface\bin\config.exe, and then log in as a local administrator.

Oracle Payment Inteface Configuration				×
About		1.4.4		
	<u>Key</u>	Value		E
	Please login with r	machine credentials		
	U	lser		
	Passw	ord		
	Log	in Cancel	•	▼

2. In the About pane, expand Oracle Payment Interface.

The **dll** entry shows the MGDH installation as mode 3 and the OPI listening port as 5098.

The **pinpadAddress2** value is formatted as follows:

- Merchant ID = 370000001
- WS ID = 99
- Pinpad IP = 10.39.176.89
- 3. Select **server0Q**, and then change the **Port** value to the port the pinpad is listening on.
- 4. For **vx6702**, the MICROS KDSController service uses port 5023. Change this port value to an unused port value even if not using Pay@Table (for example 8992.)
- 5. Exit config.exe, and then save your changes.
- 6. Restart the OPI service.

If changes are made in Config.exe, the "OPI Service" needs to be restarted. But the "OPI Service Utility" service does not need to be restarted. The system is now ready for a test transaction.

Middleware

During the OPI installation, there is a step to select the **OPI Mode**:

- **Terminal**: OPI communicates directly to the pinpads.
- **Middleware**: OPI controls the pinpads by communicating through a third party.

Access the screens shown in the following steps by launching OraclePaymentInterface\bin\OPIconfigurationWizard.exe.

If using Middleware, follow these directions to finish the OPI with the MGDH installation.

🐺 Oracle Payment Interface (Configuration Tool			
o	racle Payment l	nterface - (Configuration Tool	
	PMS Interface:	Disable	•	
	POS Interface:	Enable	•	
	OPI Mode:	Middleware	•	
	PrimaryHost:	172.23.25.68		
	BackupHost:	10.58.47.125		
ORACLE HOSPITALITY			Next	

- 1. Specify interface settings as follows:
 - Select **Enable** from the **POS Interface** drop-down.
 - Select Middleware from the OPI Mode drop-down.
 - In the **PrimaryHost** field, type the IP address of the third party that controls the pinpads.
 - In the **BackupHost** field, type the IP address of the third party backup.
- 2. Select **POS Configuration**.
- 3. Click Add New Property.
- 4. Specify property settings as follows:

- Select **POSRES** from the **POS Type** drop-down.
- In the **Merchant ID** field, type the Merchant ID. This value must match the Merchant ID value used during the MGDH installation.
- If not using Pay@Table, leave it set to **Disable**.
- If using Pay@Table, go to Pay@Table.
- 5. Enter merchant information, and then click Next.
- 6. Click Exit.
- 7. On the MICROS Gateway Service Configuration dialog box, click Yes.
- 8. Click **Yes** to restart the computer.

Middleware Config.exe

No additional changes to Poscfg are needed, as they were completed in Configuration for MGDH.

- 1. Double-click OraclePaymentInterface\bin\config.exe, and then log in with the administrator credentials used during setup.
- 2. In the About pane, expand Oracle Payment Interface.
- 3. Select **server0Q**, and then change the **Port** value from 8080 to the port the pinpad is listening on. Update these values as highlighted in the following screen capture:
 - HostMode = true
 - Host = PrimaryHost IP given during setup
 - Host2 = BackupHost IP given during setup

M Oracle Payment Inteface Configuration				×
About				
master opera	*	Key ConnectTimeout	Value 10	
opera1 parameter_level passphrase payment pinpadAddress2 pos9700 pos97001 posApi		Host HostMode Port Timeout UseSSL UseTCP	172.23.23.08 10.58,47.125 true 8991 60 true false	
posRes posRes1 posSybase1 <u>server0Q</u> simphony simphony1 switch terminal47	н			Ŧ
vx6702	*	•	III	▶

- 4. For **vx6702**, the MICROS KDSController service uses port 5023. Change this port value even if not using Pay@Table to an unused port value (for example, 8992.)
- 5. Exit config.exe, and then save your changes.
- 6. Restart the OPI Service.

If you made changes in Config.exe, restart the OPI Service. The OPI Service Utility service does not need to be restarted. The system is ready to use.

Pay@Table

This section discusses enabling and configuring Pay@Table for the MGDH and OPI solution.

A normal workstation that most merchants have is referred to in the OPI configuration as Pay@Counter.

Pay@Table terminals use Transaction Services. You can have Pay@Counter or Pay@Table terminals or both.

Access the screens in this procedure by opening

OraclePaymentInterface\bin\OPIconfigurationWizard.exe. The screens can be seen and used both during the middle of the OPI installation and after the OPI installation.

If you are enabling Pay@Table, follow these directions to complete the installation steps that were begun in the previous OPI Installation section.

- 1. Enable Pay@Table. The Pay@Table certificate is provided by the partner and is part of the partner validation process.
- 2. Enter and confirm a Pay@Table Cert Password.
- 3. Configure the following settings:
 - Name: Name of the DB, micros.
 - **Host**: IP address of the RES server. If OPI is installed on the RES server, then 127.0.0.1 is OK. If OPI is installed on another computer, enter the actual IP address of the RES server.
 - **Port**: 2638.
 - Max pool: 40
 - User: Micros DB user account
 - **Password** = Password for the DB user account.

🐺 Oracle Paym	Soracle Payment Interface Configuration Tool				
Oracle Payment Interface - RES Pay@Table Configuration RES Merchant ID : 370000001 RES Database:					
Name:	micros Host	127.0.0.1	Port: 2638	Max Pool: 40	
	User:		Confirm User:		
	Password:	Con	firm Password:		
Tende	r Configuration:				
Visa:	MasterCard:	AMEX :	DinersClub :	MasterCard Debit:	
JCB :	CUP :	GiftCard :	CUP Debit :	Debit :	
Visa Debit:	Visa Electron:	Switch:	Local Debit:	Paypal Card:	
Maestro :	VPAY :	Alliance:	EC Chip:	BC Card:	
		ServiceNum:	Previous	Next	

- 4. Configure Tender Configuration settings as follows:
 - Use the object numbers of the Credit card tenders you configured for OPI in Poscfg | Sales | Tender Media. These values can also be referenced in Micros\RES\POS\Etc\MPG.inc.
 - For tender types you do not have, leave them blank.
 - Gift cards are not supported in OPI 6.1.0.9, so leave GiftCard blank.
 - **ServiceNum** is the object number of the Print Check tender having Type = Service total.

- 5. Click Next.
- 6. Select **Pay@Table Device** from the **Device Type** drop-down, and then click **Add Pay@tableTerminal**.
- 7. Enter a **Mobile Device ID**. The mobile device ID is an arbitrary ID assigned to a P@T terminal.
- 8. Select **Query by Check or Table**. Query by Table brings up all checks open at the table.
- 9. Click OK.
- 10. Repeat steps 6 through 9 to add more terminals.
- 11. Click Next.
- 12. Click Exit.
- 13. On the **MICROS Gateway Service Configuration** dialog box, click **Yes** to save your changes.
- 14. Open the OraclePaymentInterface\bin\Confige.exe file.

Pay@Table Config.exe

No additional changes to Poscfg are needed because you completed them in Configuration for MGDH.

Config.exe

- 1. Double-click the OraclePaymentInterface\bin\config.exe file, and then log in with the administrator credentials used during the installation.
- 2. In the About pane, expand Oracle Payment Interface.
- 3. For terminal47, note the following:
 - Key = Mobile Device ID
 - OR = 3700
 - 370000001 = Merchant ID
 - _1_C = The _1 is a Revenue Center value and is unused in RES, but defaults to 1.

The _C means this is a Query by Check terminal. The Query by Table Terminals do not show the " $_1$ _C".

ut			
opera	*	Key	Value
opera1		1	0R_370000001
parameter_level		2	0R_3700000001_1_C
passphrase			
payment			
pinpadAddress2			
pos9700			
pos97001			
posApi			
posRes			
posRes1			
posSybase1	-		
server0Q	=		
simphony			
simphony1			
switch			
terminal47			

4. Select **vx6702**, and then change the port value to the port that connects to the pinpad for Terminal Mode or the port that connects through the third party in Middleware Mode.

The MICROS KDSController service uses port 5023. Change this port to an unused port if you are not using Pay@Table to some unused port value (for example, 8992).

- 5. Exit Config.exe, and then save your changes.
- 6. Restart the OPI Service.
- 7. Restart the MICROS KDS Controller Service.

The system is ready for a test transaction.

3 POS Workstation Procedures

TSR Transactions

CC Sale

Ring food, and then select **CC sale**.

Tip Adjust

- Verify Micros\Res\Pos\Etc\MPG.inc has this line: TipAdjust = TRUE
- 2. Re-open a closed check that was paid using credit auth and credit final.
- 3. Type a new tip amount (for example, 5.00), select the tender payment in Ops detail, and then select **Tip Adjust**.

The tender amount must be selected when **Tip Adjust** is selected. **Tip Adjust** does not work if Signature verify is enabled.

CC Refund

Begin the check, select **Void**, ring a menu item, select a reason code (if prompted), and then select **CC Refund**.

Refund (m)

1. Begin a check, add food, CC auth and CC final.

You need the RRN number from this CC voucher in step 3.

- 2. Begin check, select **Void**, ring a menu item, select a reason code (if prompted), and then select **Refund (m)**.
- 3. Enter the RRN number (when prompted) from the original Credit Card voucher from step 1.

CC Auth

- 1. Ring food and the service total.
- 2. Pick up that check and select **CC auth**. Service total.

CC Final

Pick up the CC Auth check from above and select **CC final**, and then answer the tip prompt.

CC Voice

1. Begin check, ring food, and then select **CC voice**.

2. Enter then approval code.

Tab Auth

- 1. Begin check, select Tab Auth, Service total.
- 2. Pick up that check, ring \$10.00 of food. Enter 13.00, and then select **CC final**.
- 3. Ops prompts Tip Amount is USD 3.00? Press the Enter key.

Balance Inquire

Begin the check, select **Bal Inq**, and swipe the card when prompted.

Reprint

Pick up an open check that already has a CC auth and select **Reprint**.

Repost

Use Repost if the final tender is interrupted. The following is an example of when to use it:

(Employee Class = Server table view)

- 1. Employee Classes | Guest checks | Other employee's checks, Enable "Pick up others chk"
- 2. Employee Classes | Guest checks | Other employee's checks, Disable "Tender Media to others chk"
- 3. 1, sign in, ring \$10.00 food, Auth CC, service total.
- 4. Sign in as a DIFFERENT employee of same Emp class (Svr table view) 104 = John
- 5. John picks up Sally's check, select CC Final.
- 6. OK Error mssg that kept paid check from closing.
- 7. Select **CC repost**. OK prompts.

Void (e)

- 1. Begin check, ring \$10.00 food, and select **CC Sale**.
- 2. Re-open that closed check, select the CC tender in Ops detail window and select Void (Inq #17).

Manual Auth

Begin check, ring \$10.00 food, select **Manual auth**, Enter approval code when prompted.

Partial Auth

- 1. Begin check, ring \$10.00 food, enter 5.00 and select CC auth.
- 2. Enter 5.00 and select **CC Final**.

Selecting **CC final** pays the entire amount due even if only part of the check amount has been authorized. So an amount must be entered prior to selecting **CC final** if only a partial payment is desired.

POSEOD

- 1. Verify Res\pos\scripts\poseod\MGDH.inc is pointing to OPI server IP address and correct port.
- 2. Verify Res\pos\scripts\poseod\POSEOD.inc has the correct POS type (RES = "0R" zero R) and Merchant ID value.
- 3. Double-click poseod.exe.
- Check the Transaction.log file for "Batch" "Approval".
 For more complete information on POSEOD configuration, scheduling and verification click here.

QSR Transactions

CC Sale

Ring food, and then select CC sale.

SALE&CASH

- 1. Ring food, and then select **Sale&Cash**.
- 2. Answer prompt for how much cash back.

CC Refund

Begin check, select **Void**, ring a menu item, select a reason code (if prompted), and then select **CC Refund**.

Refund (m)

- Begin a check, add food, CC auth and CC final.
 You need the RRN number from this CC voucher in step 3.
- 2. Begin check, select **Void**, ring a menu item, select a reason code (if prompted), select **Refund (m)**.
- 3. Enter the RRN number (when prompted) from the original Credit Card voucher (step 1).

Balance Inquire

Begin check, select **Bal Inq**, and then swipe the card when prompted.

Reprint

Pick up an open check that already has a CC auth and select **Reprint**.

Repost

Repost is meant to be used if the final tender gets interrupted. The following is an example of when it might be used.

(Employee Class = Server table view)

- 1. Employee Classes | Guest checks | Other employee's checks, Enable "Pick up others chk"
- 2. Employee Classes | Guest checks | Other employee's checks, Disable "Tender Media to others chk"
- 3. 1, sign in, ring \$10.00 food, Auth CC, service total.
- 4. Sign in as a DIFFERENT employee of same Emp class (Svr table view) 104 = John
- 5. John picks up Sally's check, select **CC Final**.
- 6. OK Error mssg that kept paid check from closing.
- 7. Select **CC repost**. OK prompts.

Void (e)

- 1. Begin check, ring \$10.00 food, and then select **CC Sale**.
- 2. Re-open the closed check, select the CC tender in Ops detail window and select Void (Inq #17).

4 Utilities

OPI Configuration Wizard

Use the OPI wizard can be to:

- Enable or Disable PMS or POS interfaces.
- Change from Terminal mode to Middleware mode and vice versa.
- Enable Pay@Table
- Add Pay@Table terminals
- Add Pay@Counter terminals
- Add a new Merchant ID
- Edit an existing Merchant ID
- 1. Open

```
OraclePaymentInterface\bin\OPIconfigurationWizard.exe.
```

- 2. Log in as an administrator.
- 3. If necessary, update interface and mode settings as described in Middleware.
- 4. Restart the OPI service.

Config.exe

Open OraclePaymentInterface\bin\config.exe, and then log in as a local administrator.

The following tables describe the settings accessible from config.exe:

Key	Value	Description
Amex	2 340000000 3499999999 13 0 0	AMEX card schema.
JCB	4 3528000000 35899999999 16 0 0	JCB card schema.
Mastercard	1 510000000 5599999999 16 1 0	MasterCard card schema.
Visa	0 400000000 4999999999 16 1 0	Visa card schema.

card

currency

Key	Value	Description
036	036 AUD 2 4 Australia Dollar	Currency list, refer to chapter 4.

Key	Value	Description
Mode	3	Default value, OPI use HTTPS for POS request.
Port	5098	Default port for POS request.

ifc8

Key	Value	Description
CpPolicy	3	
Dp_pms_connection_check	true	
Pms_check_inactive_interval	73	
Pms_inactive_gate	313	
TotalMerchantNumber	0-n	Total merchant number for OPERA, depends on merchant configuration.

ifc8X

Key	Value	Description
Condition_code	42	Default value.
Currency_code	840	Merchant currency code, please refer to chapter 4.
Currency_code_decimal	2	Currency decimal.
Device_merchant_id	XXXXXXXX	OPERA Chain and Property ID.
ExternalMode	true	Default value.
Merchant_city	XXXXXX	Merchant city, maximum is 13 characters.
Merchant_country	XX	Merchant country, please refer chapter 4.
Merchant_id	MGS-OPERA	Default value.
Merchant_name	XXXXXXXX	Merchant name, maximum is 25 characters.
Merchant_type	7011	Merchant MCC code.
PaymentCode_0	VA	Visa transaction code in OPERA.

PaymentCode_1	MC	MasterCard transaction code in OPERA.
PaymentCode_10	CU	
PaymentCode_11	DD	
PaymentCode_12	DL	
PaymentCode_15	GC	
PaymentCode_17	MD	
PaymentCode_18	ME	
PaymentCode_19	VE	
PaymetnCode_2	AX	AMEX transaction code in OPERA.
PaymentCode_21	SD	
PaymentCode_24	VP	
PaymentCode_25	AL	
PaymentCode_26	EC	
PaymentCode_29	MX	
PaymentCode_3	DC	Diners transaction code in OPERA.
PaymentCode_32	РС	
PaymentCode_4	JC	JCB transaction code in OPERA.
PaymentCode_40	BC	
PaymentCode_9	CC	
Pms_server_ip	XX.XX.XX.XX	OPERA IFC8 server IP.
Pms_server_port	XXXX	OPERA IFC8 server port.
SwitchID	0Q	Default value.
Terminal_id	OPERA1	Default value.
User3	*****	OPERA IFC8 encryption key.

master

Key	Value	Description
systemType	1	Default value.

parameter_level

Value	Description
US	
1	
NA	
OPI	
OnSite	
	Value US 1 NA OPI OnSite

payment

Key	Value	Description
Country	US	
Dll	0/1	Enable or disable port for POS. 0 is disable port, 1 is enable port.
Opera	0	Default value.
Opera2	0	Default value.
OptionByte2	true	Default value.
OptionByte4	true	Default value.
Pos	0	Default value.
Pos9700	0	Default value.
RefreshTime	0 29 0 * * ?	OPI refresh time to reload merchant configuration and purge history transaction data.
RemoveDevice4	0/1	Enable or disable port for Pay@Table device. 0 is disable port, 1 is enable port.
Running_mode	0	Default value.
Server	0Q	Default value.
TimeZone	America/New_York	Merchant time zone, follow Java time zone format.
Ifc8	0/1	Enable or disable function for OPERA IFC8 interface. 0 is disable function, 1 is enable function.

pinpadAddress2

Key	Value	Description
Xxxxxxxx_xx	TID IP	PED mapping list, please refer to chapter 4.

posApi

Key	Value	Description
Century	20	
CommandSleep	200	
CommandSleep2	100	
Currency	840	Merchant currency code, please refer to chapter 4.
Mode	2	RES IIS mode, default value.
NeedAdjustReceipt	false	Default value, doesn't allow Pay@Table modify exist check.
PCommand	NO_E_PAYMENT	
PaymentCode_0	XXX	Visa tender number in POS configuration.
PaymentCode_1	XXX	MasterCard tender number in POS configuration.
PaymentCode_10	xxx	
PaymentCode_11	xxx	
PaymentCode_12	xxx	
PaymentCode_15	xxx	
PaymentCode_18	xxx	
PaymentCode_19	XXX	
PaymentCode_2	XXX	AMEX tender number in POS configuration.
PaymentCode_21	xxx	
PaymentCode_24	xxx	
PaymentCode_25	xxx	
PaymentCode_26	xxx	
PaymentCode_29	xxx	

PaymentCode_3	XXX	Diners tender number in POS configuration.
PaymentCode_32	XXX	
PaymentCode_4	XXX	JCB tender number in POS configuration.
PaymentCode_40	XXX	
PaymentCode_9	XXX	
RoomPosting	XXX	Room posting tender number in POS configuration.
ServiceNum	XXX	"Save check" tender number in POS configuration.
SimphonyVersion	2.5	Simphony version definition.
Timeout	30	Timeout value for OPI connect to POS transaction service.
Url	http://xxxx	RES transaction service URL.

posRes

Key	Value	Description
TotalMerchantNumber	0-n	Total merchant number for RES, depend
		by merchant configuration.

posResX

Key	Value	Description
Condition_code	42	Default value.
Currency_code	840	Merchant currency code, please refer to chapter 4.
Currency_code_decimal	2	Currency decimal.
Device_merchant_id	xxxxxxx	CMID, assig by OPI installer.
Merchant_city	XXXXXX	Merchant city, maximum is 13 characters.
Merchant_country	XX	Merchant country, please refer to chapter 4.

Merchant_id	MGS-POS 3700	Default value.
Merchant_type	5812	Merchant MCC code.
Pos_type	posRES	POS version definition.
SwitchID	0Q	Default value.
Terminal_id	POS3700	Default value.

posSybase1

Key	Value	Description
InitIdle	20	
MaxPool	40	
MaxWait	20	
MinIdle	10	
ResDB	Micros	RES DB name, default value.
ResHost	xx.xx.xx.xx	RES Server IP.
ResPassword	****	RES DB user password.
ResPort	2638	RES Server Sybase database port, default value.
ResUser	****	RES DB user name.

server0Q

Key	Value	Description
ConnectTimeout	10	
Host	xx.xx.xx.xx	3 rd PSP middleware IP.
HostMode	true/false	OPI work for PED directly connection mode or middleware connection mode. For PED connection set to "true", for middleware connection set to "false".
Port	8080	Port for 3 rd PSP PED or middleware.
Timeout	60	Timeout value for OPI send request to 3 rd PSP PED or middleware.

UseSSL	true	Default value, OPI send request to 3 rd PSP PED or middleware by HTTPS.
UseTCP	false	Default value.
switch		
Key	Value	Description
0	0Q -1 -1	Default value.
1	0Q -1 -1	
11	0Q -1 -1	
2	0Q -1 -1	
3	0Q -1 -1	
4	0Q -1 -1	
8	0Q -1 -1	

terminal47

Key	Value	Description
XXXXXXXX	xx_xxxxxxxx_x	Please refer to chapter 4 for Pay@Table device mapping.

vx6702

Key	Value	Description
CertPass	****	Pay@Table certificate password.
PayAtTableServer	0Q	Default value.
Port	5023	Default port for Pay@Table device request.
UseDeviceRRN	true	Default value.
UseSSL	true/false	Pay@Table connection mode, default is "true" to use HTTPS for Pay@Table request.

5 Troubleshooting

Troubleshooting Issues

Situation 1: Unable to launch config.exe on Server 2008 R2. Solution: Right-click on config.exe and select Run as Administrator.

Situation 2: Cannot communicate to OPI after installation.

Test: Verify you can telnet to the OPI PC on port 5098 from another computer.

Example: From CMD prompt: telnet 172.23.25.16 5098

Where 172.23.25.16 is the IP address of the OPI server.

If you cannot telnet to the OPI port, try the following:

- Restart the OPI Service.
- Temporarily by pass the firewall.
- Verify OPI is listening on port 5098.
- Open CMD prompt: C:\>netstat > c:\temp\ports.txt and then search for 5098.

Situation 3:



This generic error message can be caused by several things.

Solution 1:

Restart the OPI Service and try again.

Cause 2:

If the system.log shows the following message, the cause is likely a Java security update:

[GATEWAY RESPONSE] GenericJSONProcessor : Can not decrypt java.security.InvalidKeyException: Illegal key size Not all Java updates cause this error, but security updates can cause it. For example, Java 8 update 111 causes this issue.

Solution 2:

- Stop the OPI service.
- Go to the link below and download jce_policy-8.zip.

http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html

- Unzip the file and copy the two files to your Java security folder.
 - Local_policy.jar
 - US_export_policy.jar

Example: C:\Program files\Java\jre(your current
version)\lib\security\

• Start the OPI service.

Situation 4:

If you have more than one card settlement driver, and you decide to clear sales totals, manually delete the batch history of those drivers to avoid future batch settlement issues. This is a very rare configuration and situation.

When sales totals are cleared, and a new batch is created it is batch 1. The existing batch 1 is found in batch history and all batches for that settlement driver are automatically deleted. This is by design, as it prevents duplicate batch numbers. But if a second settlement driver exists that does not have a batch 1, that driver's batch history is not automatically cleared.

Solution:

After clearing sales totals open the registry to HKLM\Software\Wow6432Node\MICROS\Common\CCS\DrvrCfg\ and open each Drvr# record. Example: Drvr5.



If the Drvr# folder contains a History folder, delete the entire History folder. If there is no History folder, nothing needs to be done for that driver. Repeat this for every Drvr# record.

Not Supported

Gift cards Top Up Auth Void a Refund (RES limitation) CC voice / Manual entry in QSR revenue center Backup OPI Server

6 Appendix

Currency List

Key	Value
036	036 AUD 2 4 Australia Dollar
124	124 CAD 2 4 Canadian Dollar
156	156 CNY 2 4 Chinese RMB
344	344 HKD 2 4 Hong Kong Dollar
356	356 INR 2 4 India Rupee
360	360 IDR 2 4 Indonesia Rupiah
392	392 JPY 0 4 Japanese Yen
410	410 KRW 0 4 South Korean Won
446	446 MOP 2 4 Macau Pataca
458	458 MYR 2 4 Malaysian Ringgit
462	462 MVR 2 4 Rufiyaa
554	554 NZD 2 4 New Zealand Dollar
608	608 PHP 2 4 Philippine Pesos
634	634 QAR 2 4 Qatari Rial
702	702 SGD 2 4 Singapore Dollar
756	756 CHF 2 4 Swiss Francs
764	764 THB 2 4 Thai Baht
826	826 GBP 2 4 British Sterling Pound
840	840 USD 2 4 US Dollar
901	901 TWD 2 4 New Taiwan Dollar
978	978 EUR 2 4 Euro

Country Code

Country	Code
Australia	AU
Austria	AT

Canada	CA
Denmark	DK
Germany	DE
France	FR
Hong Kong	НК
Ireland	IE
Italy	IT
Japan	JP
Korea, Republic of	KR
Macau	МО
Malaysia	МҮ
Maldives	MV
Mexico	MX
New Zealand	NZ
Philippines	PE
Qatar	QA
Switzerland	СН
Thailand	TH
United Kingdom	GB
United States	US

PED Mapping Format

Key	Value
CMID_WS	TID_IP

POS Format

- CMID: Need match **Device_merchant_id** in merchant configuration.
- WS: POS workstation number.
- TID: Terminal ID.
- IP: PED IP.

OPERA Format

- CMID: Need match **Device_merchant_id** in merchant configuration.
- WS: OPERA client name, cannot contain "_" and space.
- TID: Terminal ID.
- IP: PED IP.

Pay@Table Mapping Format

Key	Value
PTID	Product_CMID_RVC
	or
	Product_CMID_RVC_Option

Format

- PTID: Pay@Table device ID.
- Product: POS definition, 2 characters.
- 0R: RES; 0F: 9700; 1Z: Simphony 1 & 2; 1N: IFC8
- CMID: Need match **Device_merchant_id** in merchant configuration.
- RVC: RVC number in POS activates Pay@Table function.
- Option: By default, Pay@Table picks up check by table number. If option C is attached, allows check pickup by check number.