Oracle® Hospitality Cruise Shipboard Property Management System Devices Configuration Guide



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Oracle Hospitality Cruise Shipboard Property Management System Devices Configuration Guide, Release 20.1

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## Preface

This document provides instructions on how to configure the various devices such as Fargo HDP 5000 Printer, OMNIKEY RFID Reader, Quick Encode, Passport Reader 3M AT90000MKII & CR100M, Desko Penta and FEIG OBID RFID Encoder.

#### Audience

This document is intended for application specialists and end-user of the Oracle Hospitality Cruise Shipboard Property Management System (SPMS).

#### **Customer Support**

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

#### https://iccp.custhelp.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 logfiles
- 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/cruise.html.

#### **Revision History**

#### Table 1 Revision History

Date	Description of Change
September 2020	Initial Publication
November 2021	Added FEIG OBID RFID Encoder
January 2024	Updated Customer Portal URL
	Updated document to new format



# 1 Fargo HDP 5000 Printer

The Fargo HDP 5000 printer not only prints high quality image, it also encodes information for Radio-frequency identification (RFID) and normal magnetic cards.

This document describes the installation and usage of Fargo HDP 5000 Printer.

## Prerequisites, Supported Systems and Compatibility for Fargo

#### Prerequisites

- Fargo HDP 5000 Software Installation CD
- FargoPrinterSDK14.dll
- Management.exe
- Administration.exe

Download the following OMNIKEY website.

- OMNIKEY 5121 Ethernet Driver.exe
- CardMan\_Synchronous\_APR\_V1\_1\_1\_.exe
- CT-API\_V4\_0\_3\_0.exe

#### Compatibility

SPMS version 20.1 or later. For customers operating on a version below 20.1, database upgrade to the recommended or latest version is required.

## Printer, Driver, and Firmware Installation

An installation using the correct driver is essential for the printer to work as required. Please contact your hardware supplier to obtain the latest compatible driver.

#### **Installing Printer Driver**

- 1. Close all the running programs and insert the Software Installation CD into your PC,
- 2. At the HDP5000 Card Printer Installation Wizard screen, accept the License agreement.



Printer Connection		
<ul> <li>Collecting information</li> <li>Preparing installation</li> <li>Installing</li> <li>Finalizing installation</li> </ul>	Select the type of connection for the Printer.   Local Connection (USB:)  Network Connection (Ethernet)  Ethernet Information Enter the IP Address of the Printer: How do I find my IP address	
(nstallAware		

#### Figure 1-1 Printer Connection Type

- 3. At the Printer Connection screen, select the Local Connection type as **Network Connection**, and enter the **IP Address** of the printer.
- 4. Click Next to begin installation.
- 5. Reboot the PC at the end of the installation.

#### Installing the Firmware

Select the right firmware version to determine the functions of the device. See the Prerequisites page for the certified firmware version.

- 1. Select FargoSDK.exe from the Software Installation CD.
- 2. On the License Agreement screen, read and accept the license agreement, then click **Next**.
- **3.** Continue with the following topics in the order presented to complete the installation.
- If you get an error prompt "FargoCardMove —> ActiveX Component error" when encoding the RFID Card, you must manually register the FargoPrinterSDK14.dll

#### **Installing Ethernet Driver**

In order to encode the RFID card, an additional Ethernet Driver for RFID is required. Follow the steps below to complete the installation.

- 1. Select **OMNIKEY 5121 Ethernet Driver.exe** from the Software Installation CD.
- 2. At the Welcome to OMNIKEY 5121 Ethernet Driver Setup screen, click **Next** to continue.



- 3. On the Ready to Install screen, click **Next** to proceed.
- 4. Continue with the following pages in the order presented to complete the installation.

#### Adding and Encoder Instance

- 1. Open the OMNIKEY 5121 Ethernet Driver folder from Windows Startup, Program Folder and select Omnikey 5121 Ethernet Encoder Utility
- 2. On the OMNIKEY 5121 Ethernet Encoder Utility screen, select Add New Encoder from the menu-item.

••••	• OI	MNIKEY 5121 Ethernet En	coder Utility 🛛 🛛 🔀
ſ	File	Help	
		Add New Encoder	
		Edit Selected Encoder	✓
		Exit	
		Connect	Disconnect
	C Re L	eader Status Inknown	
		Refre	sh

Figure 1-2 Adding New Encoder

3. Enter the IP Address of the printer/encoder or select an installed printer instance to link the encoder and click **OK** to add the instance.

Figure 1-3 Encoder IP Address

Encoder Information		X
Use IP Address		
🔘 Use Printer Name		
	~	
	OK Cancel	

- 4. Select the Encoder OMNIKEY 5x21 CL-0 from the drop-down list and click Connect
- 5. Restart the PC.
- 6. Return to the Ethernet Encoder Utility to confirm the encoder Serial Number appears in the *Select Encoder* field and the Reader Status is 'Request Succeeded'.



7. The Reader Status shows "Encoder Busy" when another PC is connecting to the encoder.

Eile <u>H</u> elp	<u>F</u> ile <u>H</u> elp
elect Encoder:	Select Encoder:
DMNIKEY 5x21 LAN A9999999-CL 0	OMNIKEY 5x21 LAN A9999999-CL 0
Connect Disconnect	Connect Disconnect
Reader Status	Reader Status
Encoder Busy	Request Succeeded
Befrach	Refresh

#### Figure 1-4 Ethernet Encoder Utility Connection

#### **Editing Encoder Information**

When there is change of encoder IP Address, you are required to update the encoder with the new IP Address.

1. Open the **Omnikey 5121 Ethernet Encoder Utility** and select the **Encoder** from the drop-down list.

Common OMNIKEY 5121 Ethernet Encoder Utility
<u>F</u> ile <u>H</u> elp
Select Encoder:
OMNIKEY 5x21 LAN A9999999-CL 0
Broadcom Corp Contacted SmartCard 0 OMNIKEY 5x21 LAN A9999999 0
OMNIKEY 5x21 LAN A9999999-CL 0
Reader Status
Request Succeeded
Refresh

#### Figure 1-5 Encoder Information

- 2. Select Edit Selected Encoder from the menu-item.
- 3. Enter the new IP Address or change the printer name and then click **OK** to save.

#### Installing CardMan Synchronous API



In order to perform an RFID encoding in SPMS, an API installation is require in to obtain the Scardsyn.dll

- 1. Run CardMan\_Synchronous\_APR\_V1\_1\_1\_.exe
- 2. Select **Setup.exe** and run the installation.
- 3. On the Welcome to the CardMan Synchronous API Setup Program screen, click Next.
- 4. Select the **DLL's** checkbox at the Component Selection window.
- 5. Continue with the following pages in the order presented to complete the installation.

If you get a *scardsyn.dll* error when performing RFID Card printing, manually copy the scardsyn.dll to the C:\windows\system32 folder.

#### Installing CT-API Driver

The OMNIKEY Reader requires a CT-API Driver to be installed, which enables you to read the encoded cards.

- 1. Run the **CT-API\_V4\_0\_3\_0.exe**. The program performs a reader check to ensure the appropriate PC/SC driver is installed.
- 2. On the Reader Check screen, click **Yes** to continue and follow the steps presented to complete the installation.
- 3. On the Save the CT-API Configuration screen, click **OK** to close.

#### Figure 1-6 CT-API Configuration

1	Your CT-API based application maybe needs following configuration data :
	OMNIKEY CardMan 5x21 0 : Port (ptn) =
	Name of the CT-API DLL :
	PLEASE STORE THIS INFORMATION FOR LATER USAGE !

4. Restart the PC.

## Printer Setup

Before you begin using the printer, an additional setting is required to handle different type of encoding. Below are the steps to configure the printer for Magnetic Stripe cards and RFID cards.

**Configuring Printer to Encode Magnetic Stripe Card** 



- **1.** Open the **Devices and Printers** panel of the client PC connected with the printer.
- 2. Click the HDP5000 printer icon, right-click and select **Properties**.
- 3. Under the Printer Properties, General tab, select Preferences.
- 4. In the Card tab, Orientation section, select print orientation as Landscape.
- 5. Navigate to the Magnetic Encoding tab and select Custom Encoding from the Encoding Mode drop-down list, and then select ISO Encoding in both the Track 1 and Track 2 tabs.

🖶 HDP5000 Card Printer Printing Prefere	nces 💌
Card Device Options Magnetic Encoding Lamination	Image Color Image Transfer K Panel Resin Supplies
Encoding Options	
Encoding Mode	
Lustom Encoding 👻	
Coercivity High(2,750 Oe)	Shift Data Left
Magnetic Track Options	
Track 1 Track 2 Track 3	
	1000 1
ISO Encoding	Even Parity
Character Size	Character Parity
7 Bits 👻	Odd Parity 🔻
	Reverse Bit Order
Bit Density	Add Leading Zeros
210 BPI 👻 210 🚖	Default
ОК Са	ancel Apply Help

Figure 1-7 Printer Settings for Magnetic Stripe Card

6. In the Track 3 tab, select Raw Binary Encoding and select the Reverse Bit Order checkbox.



HDP5000 C	ard Printer Printing Pre	ferences	×
Card	Device Options	Image Color	Image Transfer
Magnetic Er	ncoding Laminatio	n K Panel Res	sin Supplies
Encoding 0 Encoding M Custom En Coercivity High(2,750	ptions ode coding Oe) ack Options	🔲 Shift Data Left	
Track 1 Encod	Track 2 Track 3	LRC Generation	
Charac 8 Bits	ster Size	Character Parity	<b>v</b>
ASCII I NULL	Diffset	Reverse Bit O	rder Zeros
210 B	nsity Pl ▼ 210	Defa	ault
	ОК	Cancel App	Help

Figure 1-8 Reverse Bit Order

7. Click **OK** to save the changes.

#### Configuring Printer to Encode RFID Card

**1.** Repeat step 1 to 4 of the above.



	Device On	tions	Image Color	Image Tra	ansfer
Magnetic End	coding	Lamination	K Panel Res	in Su	pplies
Encoding Op Encoding Mo ISO Encodir Coercivity High(2,750 ( Magnetic Tra	tions de ng De) ck Options		🗌 Shift Data Left		
Encodir ISO En Charact 7 Bits ASCII O SPACE	ng Mode coding er Size ffset		LRC Generation Even Parity Character Parity Odd Parity Reverse Bit Or Add Leading Z	▼ der čeros	
Bit Den:	- 1 -	210 🛋	Defe	ault -	

Figure 1-9 Printer Settings for RFID Card

- Navigate to Magnetic Encoding tab and select ISO Encoding from Encoding Mode drop-down list, and select ISO Encoding in Track 1, Track 2 and Track 3 tab.
- 3. Click **OK** to save the changes.

## Configuring Hardware in Management module and Report

Apart from installing the necessary drivers and setting up the printer, you also must connect and configure the printer in SPMS.

#### **Configuring Hardware for Magnetic Stripe Card**

- 1. Launch the Management Module, and select Options from the menu item.
- 2. In the Options window, select the Hardware tab.



3. Under the **Report Printers** section, select **Cards**, and then navigate to the **Card Printer combo box** and select **"Fargo HDP 5000"** from the printer drop-down list.

Options							
General	Colors	Hardware	Video Parameters	Do	ocument Scann	her	
Report Printers		Card Reader/Encoder #	1		🔲 Barcode R	leader (RS23	2 Connection)
Cards Certificates		Card Reader Type:	Standard	-	Port Number:	Г	-
Invoices		Port:		-	Speed (Bits Pe	er Second):	
Key Runner Receipts		Encode Door Lock (Tr	ack #3) Key		Data Bits:	i i	
Labels	=	Passport Readers			Parity:	Γ.	<b></b>
Messages Receipts		Passport Reader Type:	(None)	-	Stop Bits:	Γ.	
Reports Safety Forms		Enable MyCard ACR3	8 Reader				
Tickets Visa Forms		- Special					
Visitors Forms	-	RFID Encoding Port:					
Card Printer		CEIA Reader Port:					
Fargo HDP5000 RFID		🔲 Use Right Mouse But	ton Emulation				
OMNIKEY 5x21 LAN BO	230121-CL 0 💌	Track 1 Start Sentinel :	% End Sentinel : ?				
Do not encode Mag	netic Stripe	Track 2 Start Sentinel :	;		Signature Dev	vice	
HDP5000 Card Printer	✓ Properties	Track 3 Start Sentinel :	+		(None)		•
					ок	Cancel	Apply

Figure 1-10 Management Module Hardware Options — MagCard

- 4. Select Encode Door Lock (Track #3) key in the Card Reader/Encoder #1 section.
- 5. Click Apply to save the settings, and OK to exit.

The printer settings are also saved to *OHCSettings.par* under the parameter setting of the following:

```
[#Fidelio Cruise.Printer.Cards=#]
```

```
[#Fidelio Cruise.Printer.BoardCard=#]
```

#### **Configuring Hardware for RFIDCard**

- **1**. Repeat steps 1 and 2 above.
- In the Report Printers section, select Cards, and then navigate to the Card Printer combo box and choose "Fargo HDP 5000" from the printer drop-down list and Smart Card as OMNIKEY 5x21 LAN B0230121–CL 0.
- 3. Select the Printer Name as HDP 5000 Card Printer.
- 4. Select Encode Door Lock (Track #3) key under Card Reader/Encoder #1 section.
- 5. Click Apply to save the settings, and OK to exit.

The printer settings are also saved to *OHCSettings.par* under the parameter setting of the following:

[#Fidelio Cruise.Printer.BoardCard=#]

[#Fidelio Cruise.Hardware.RFIDEncoder=#]

[#Fidelio Cruise.Printer.BoardCard=#]

#### Setting Up Report for Magnetic Stripe Card



With every board card report layout being different, this section describes the steps to setup a report layout for Fargo HDP 5000 Printer.

- 1. Open the report template with Crystal Report program.
- 2. In the Formulas field of the report template, insert the formula. Please obtain from Support / Consultant for the formula statement. The modification of the formula is done in Crystal Report to facilitate the requirements by Fargo to have 14 leading zeros to insert the information into Track 3 Raw encoding for Ving Vision System verification.
- **3.** Begin **Administration** module and select **Systems Setup**, **Reports Setup** from the menu-item.
- 4. Under Current Reports List group **Onboard Cards**, locate the **Passenger Door Card** report.
- 5. In the Formulas field of the report, insert the formula in Crystal Report Formulas section. Please obtain from Support / Consultant for the formula statement.

Default Standard	Direct Printing Pro	perties	Email Template
Upload New F	Leport (Load Variables From the Report Template)	Export to Crystal	Upload Report
Reports can be Imported, and Export Customs properties of the report. Wh	d from the database. Reports exported by en Importing them, dick the option above to	the system, are embed with the S automatically insert those stored	election Parameters into the variables into the database.
	Report Detai		
Report ID:	PaxDoorCard1		
Report File Name:	PaxDoorCard1.rpt		
Report Title:	Passenger Door Card		
Report Access:	31		
Report Sort:	9999		
Report Group:	_Onboard Cards		
Report Comments:			
Orientation:	Lands	scape	,
Orientation:	Land	icape	
Database SQL	00000		
	1		
Crystal Selection Formula:			
Formulas:	and a factor of the	a terrar service	
	Crystal Ele OK	A	l court

Figure 1-11 Report Setup

6. Click Apply to save the changes.

# 2 OMNIKEY RFID Reader

This document describes the software installation of the OMNIKEY RFID Reader and hardware settings in Oracle Hospitality Cruise Shipboard Property Management System (SPMS).

## Prerequisites, Certifications and Compatibility for OMNIKEY

This section describes the minimum requirements for the OMNIKEY RFID Reader Installation Guide Module in SPMS.

#### Prerequisites

- Download the following program executable from the OMNIKEY website. https:// www.hidglobal.com/drivers
  - OMNIKEY\_5x2x\_unattended\_w7\_x64\_r1\_2\_26\_140\_0.zip

#### Certifications

OMNIKEY RFID Reader software version 1.2.26.140

#### Compatibility

SPMS version 20.1 or later. For customer operating on version below 20.1, database upgrade to the recommended or latest version is required.

## Installing OMNIKEY RFID Reader

#### **Driver Installation**

Please obtain the installation files from your provider and set up per instructions provided/ given.

## Setting Up OMNIKEY RFID Reader in SPMS

This section describes the step-by-step instructions for configuring the OMNIKEY RFID Reader settings in the Management, Crew, Advanced Quick Check-In module. After the OMNIKEY RFID Reader settings are configured in the Management Module, these settings also apply to the Crew and Advanced Quick Check-In Modules.

- 1. Run Management program.
- 2. Select **Options** from the file menu and then select the **Hardware** tab.
- 3. In the Card Reader/Encoder #1 section, select Omnikey RFID Reader from the Card Reader Type drop-down list.



General	Colors	Hardware	Video Parameters	Document Scanner
Report Printers Bands Cards Cards Cards Labels Messages Receipts Reports Safety Forms Tickets Visa Forms Visitors Forms Visitors Forms Visitors Forms		Card Reader/Encoder # Card Reader Type: Port: RFID Type: Broadcom Corp Contact Encode Door Lock (T Do not encode Magr Enable Sound for De	1 Omnikey RFID Reader Amc722 RTE6700 Scemter, RF Gate DeskoMPR7300 NCR Klosk Creator CRT-310 Desko Penta Omnikey RFID Reader sko Penta	Barcode Reader (RS232 Connection)      Port Number:     Speed (Bits Per Second):     Data Bits:     Parity:     Stop Bits:
Card Printer Pebble (undefined)	Properties	RTID Encoding Port: CEIA Reader Port: Use Right Mouse Bu Track 1 Start Sentinel : Track 2 Start Sentinel : Track 3 Start Sentinel :	tton Emulation 6 End Sentinel : 7 7 +	

Figure 2-1 OMNIKEY RFID Reader Setup for Card Reader Type

4. Select **OMNIKEY CardMan 5x21–CL 0** from the RFID Type.

Figure 2-2 OMNIKEY RFID Reader Setup for RFID Type

Options				
General	Colors	Hardware	Video Parameters	Document Scanner
Report Printers — Bands Cards Cardificates Invoices Labels Messages Receipts Reports Safety Forms Tickets Visitors Forms Visitors Forms Vouchers WorkOrders		Card Reader/Encoder # Card Reader Type: Port: RFID Type: Broadcom Corp Contact Broadcom Corp Contact DMNIKEY CardMan 5x2 OMNIKEY CardMan 5x2 OMNIKEY CardMan 5x2 If Enable Sound for De Special RFID Encoding Port: CEIA Reader Port:	1 Omnikey RFID Reader ed SmartCard 0 ed SmartCard 0 10 10 10 10 10 10 10 10 10 10 10 10 10	Barcode Reader (R5232 Connection) Port Number: Speed (Bits Per Second): Data Bits: Parity: Stop Bits: Passport Readers
Card Printer	Properties	Use Right Mouse But Track 1 Start Sentinel : Track 2 Start Sentinel : Track 3 Start Sentinel :	ton Emulation          %       End Sentinel : ?         ;;	(None)       Enable MyCard ACR38 Reader       Signature Device       (None)
				OK Cancel Apply

5. Select the Encode Door Lock (Track #3) Key check box if you want to use this terminal to re-encode the door lock for guest.



General	Colors	Hardware	Video Parameters	Document Scanner
Report Printers  Bands Cards Certificates Invoices Labels Messages Receipts Reports Safety Forms Tickets Visa Forms Visitors Forms Vouchers WorkOrders		Card Reader/Encoder Card Reader Type: Port: RFID Type: OMNIKEY CardMan 5x CardMan 5x OMNIKEY CardMan 5x CardMan 5x CardMa	#1 Omnikey RFID Reader 21-CL 0 Track #3) Kev netic Stripe esko Penta	Barcode Reader (RS232 Connection)         Port Number:         Speed (Bits Per Second):         Data Bits:         Parity:         Stop Bits:
Card Printer	V V Properties	Use Right Mouse B Track 1 Start Sentinel : Track 2 Start Sentinel : Track 3 Start Sentinel :	, utton Emulation  % End Sentinel :  ?  ;  +	(None)  Enable MyCard ACR38 Reader Signature Device (None)

Figure 2-3 OMNIKEY RFID Setup for Encode Door Lock

6. Click **Apply** to save the settings and then click **OK** to exit.

## 3 Quick Encode

The Quick Encode is a program designed to transfer the board-card information onto an RFID wearable device, enabling the guest to access their cabin or purchase items from a shop with the RFID wearable tag.

# Prerequisites, Supported Systems and Compatibility for Quick Encode

This section describes the supported system, device, and its configuration requirements and is version compatible with Quick Encode program.

#### Prerequisite

- Quick Encode.exe
- SPMS Parameters:
  - Quick Encode, Encode Mode Interval Time (Default is 5000ms)
  - Quick Encode, Verify Mode Interval Time (Default is 10000ms)
  - Quick Check-in, Extended Search Criteria: Must include the Reservation Board Card number in the value.
- Download the following program executable from OMNIKEY website.
  - OMNIKEY\_5x2x\_unattended\_w7\_x64\_r1\_2\_26\_140\_0.zip

#### **Supported Operating Systems**

- Microsoft Windows 10 32–bit/x64–bit System
- Ving Vision RFID 5.9
- VisiOnline Online & Offline mode
- VDA Micro Master (supports Mifare 1Kcard only)

#### Certifications

OMNIKEY RFID Reder software version 1.2.26.140

#### Compatibility

SPMS version 20.1 or later. For customer operating on a version below 20.1, database upgrade to the recommended or latest version is required.

## **RFID Encoder Setup**

This section describes the steps to set up the OMNIKEY RFID Reader for use in SPMS.

#### **Driver Installation**



- **1.** Unzip the OMNIKEY\_5x2x\_unattended\_w7\_x64\_r1\_2\_26\_140\_0.zip driver that you downloaded from OMNIKEY website to a temporary folder.
- 2. Right-click on the Setup file and select Properties.
- 3. Navigate to the **Compatibility** tab, select '**Run this program in compatibility mode for**' and then select the operating system from the drop-down list.
- 4. Run the HID\_OMNIKEY\_5x2x\_unattended\_w7\_x64\_r1\_2\_26\_140\_0.exe to install.
- 5. At the License Agreement screen, accept the license terms and agreement, and then click **Next**.

HID OMNIKEY 5x21, 5x25, 6321,4121 PC/SC Driver - InstallShield	х
License Agreement Please read the following license agreement carefully.	
End User License Agreement for HID OMNIKEY 5x2x driver V1.2.26.140	^
IMPORTANT - CAREFULLY READ ALL THE TERMS AND CONDITIONS OF THIS END USER LICENSE AGREEMENT FOR OMNIKEY DRIVERS and SOFTWARE (THIS "AGREEMENT") BEFORE INSTALLING THE HID OMNIKEY 5x2x driver V1.2.26.140 AND ACCOMPANYING USER DOCUMENTATION (THE "SOFTWARE"). BY CLICKING "I ACCEPT," OR PROCEEDING WITH THE INSTALLATION OF THE SOFTWARE, OR USING THE SOFTWARE YOU ("YOU") ARE	~
I accept the terms in the license agreement     I do not accept the terms in the license agreement	
InstallShield 	

#### Figure 3-1 OMNIKEY License Agreement

- 6. On the Ready to Install the Program screen, click **Install** to begin the installation.
- A Setup Status screen appears while the OMNIKEY driver is being installed, indicating the installation progress. Click Finish at the Install Shield Wizard Complete screen to exit.

## Setting up VisiOnline Door Interface

This section describes the configuration steps for an SPMS Interface program such as VisiOnline Interface or Ving Vision RFID Interface.

#### VisiOnline Door Interface

- **1.** Start VisiOnline Door.exe.
- 2. Navigate to the Settings tab, Communication Parameter section and enter the VingVision Computer Name and port number in their respective fields.



Figure 3-2	Vina (	Connection
	• • • • • • •	

essages Debug Settings	
Connection Type: TCP/IP Status: Silent Interface - 25 Started: 19/05/2017 10:33:13 Communication Parameters Specify Visionline system TCP port (default is 3015) and computer name/IP address (default is 127.0.0.1 which means local computer) it is listening on when waiting for communication initialisation. VingVision Computer Name: VingVision Listener Port:	Options Send leading zeroes for cabin numbers. Note: Ensure Ving Software supports this if this option is enabled. Enable Send Alphanumeric cabin number to Vin Secured room entry Enable debugging Test Mode Offlin Skip Cabin Group Header Encoding Allow Joiner Handling In Auto-Update Ving Encryption Key Block Size © 128 C 2
Communication Timeouts Once sent out, Response Timeout is how long the interface waits for each response from Visionline (min. = 15 sec). Any unsent request will timeout after a fifth of this timeout. Auto Connection Delay is how long the interface waits to re-establish comms link, if dropped, with Visionline (default = 60 sec). Any arrival of message from FCruise dients will cause an immediate re-connection attempt.  Response Timeout (sec):  15 Auto Connection Delay (sec):  60	Notification Handling         Any cabin status change notification cached for lot than this is considered outdated. Zero means notification never expires. (unit = sec)         Cache Timeout:       300         Any cabin status change notification received just sec. after Visionline gets online is possibly outdated. Zero means any notification received is never outdated. Negative means no processing. (unit = statistication the short of the shor

3. Restart the Interface program and ensure the Interface connects to the VisiOnline System when it starts up.

Figure 3-3 Visionline Interface Connection

Messages   [	eebug   Settings
Action	Description
	Interface Started 19/05/2017 10:57:10
TcpF Init	Tcp port 3389 to Visionline System is open. Internal tcp port 20002 is open. Registered in Visionline system.
TcpV Send	CCC;EAHEARTBEAT;AM1;
TonV Cand	CCC:FAHEAPTREAT:AM1:

## Installing the Quick Encode

This section describes the steps to setup the Quick Encode software.

**Configuring Quick Encode software** 



Before your begin, ensure the "Encode Track 3" option is enabled in the Management, Options, Hardware setting.

- 1. Run Quick Encode.exe.
- 2. Click the Settings icon.

Figure 3-4 Device Selection in Software Setup



- 3. Select one of the device/reader in the following option.
  - Card Reader #1: Select the RFID device to connect to.
  - **RFID Reader #1:** Select the correct RFID reader type.

Figure 3-5 Device Selection in Software Setup



Click **Save** to save the settings.

## **Customize Labels**

The message prompts on the encoder are customizable and this is set up in Administration module, System Setup, Labels Setup

- 1. Log in to the Administration Module, System Setup, Labels Setup.
- 2. In the Labels Setup window, look up for these labels and edit the text in the Description field.



- QEC001: Place SeaPass card on Encoder
- QEC002: Place Wearable on Encoder
- QEC003: Wearable Successfully encoded

Figure 3-6 Customize Labels

All Labels		Labels		
QCIPRT Print Passport Label	^	Description:	QEC001 Place SeaPass card on Encoder	
QEC002 Place wearable on Encoder     QEC003 Wearable successfully encoded     SCI001 Check-In		Comments:	Place SeaPass card on Encoder	^
SCI002 Return Card     SCI003 Please insert your Onboard Card     SCI004 MV European Vision     SCI005 Self Check-in Kiosk				~
SCI006 Card has no valid information	~	✓ Enabled		
<	>		OK Cancel Apply	

3. Click Apply to save the changes.

## Using the Quick Encode Functionality

The Quick Encode module has two modes: The Encode Mode that allows you to encode and verify an RFID wearable, and a Verify mode that verifies the encoded information. The mode chosen is shown.

Under the Encode Mode,

- You can perform encoding of the wearable/access card.
- Encodes information encoded to track 1, track 2, and track 3 on the wearable.
- If the wearable RFID ID does not exist in the RFID table, the system encodes as a new card by requesting the door lock information from Ving Vision which has the RFID record created with RFID PRINTED = "0".
- If the wearable RFID ID exists in the RFID table, the system encodes the card by requesting the door lock information from Ving Vision and updates the existing RFID record.
- If the wearable RFID ID exists in RFID table and wearable is printed directly from SPMS through a printer (RFID\_PRINTED=1), it prompts the "Wearable is not allowed to be encoded". See Encode Mode for Non-Ving RFID Card

If the card is *not* the Ving RFID card type (Mifare 1K), the system encodes the Track 1 and Track 2 data only and skips the Track 3 door encoding.

 If the door system is an Online Lock (from IFC VisiOnline), the system encodes Track 3 door lock for Non Ving RFID card type and personalizes the card for the guest.





Figure 3-7 Encode Mode for Non Ving RFID Card

## **Encoding Wearable**

**1.** Place the guest SeaPass Card/Charge Card on the encoder when a message prompts you to do so.





2. The system searches for the guest information and displays the details on screen, followed by a request to place the wearable on the Encoder for encoding.



	Oracle Hospitality Cruise SPMS Quick Encod	e				÷	
				Cabin Muste C-ASS	erStatio SEMBLY	n : ' STATION	۱C
	Place wea	rable on I	Encoc	ler—			
ENCODE M	ODE	⊘ Verifv	② Reset	Settings	Q Search	(f) Keyboard	8 Exit

#### Figure 3-9 Encoding a SeaPass

- 3. Place the wearable on the RFID encoder to encode the Track 1, Track 2 and Track 3 door lock information onto the wearable.
- 4. After encoding is successful, a Wearable successfully encoded is prompted.

#### Verifying RIFD Wearable/Card

The Verify mode is to determine whether the card/wearable is properly encoded

- **1.** From the Main screen, click the **Verify** button to access the Verify Mode.
- 2. Place the wearable on the RFID encoder. Information about the guest appears on screen once the reader detects the wearable.



Figure 3-10 Wearable Successfully Verified



#### Search Record by Cabin

The Search feature enables you to search for a record using a cabin number and allows you to perform an encoding/verify. When using the Manual Search in Verify mode, the system only looks up the cabin record, displays the passenger names and does not cross check the RFID record.

- 1. Click the **Search** button to begin the on-screen keyboard.
- 2. Enter the cabin number in the dialog box and click Search.

	Oracle Hospitality	/ Cruise SPMS Quick	: Encode					-	
Cabin Number: Enter cabin number	Search	•	a.						
		-Place Sea	aPass ca	ard or	n Enc	oder–			
ENCODE M	ODE			⊘ Verify	3 Reset	Settings	Search	Keyboard	🛞 Exit

Figure 3-11 Manual Cabin Search

Figure 3-12 Search Result

					×
Name	Chinese Name	Status	Embark Date	Debark Date	
>		Checked-in	23/01/2016	17/05/2016	
Annual Tests		Checked-in	23/01/2016	04/09/2017	
series inco		Checked-in	04/05/2016	28/08/2016	
Name of Street		Expected Today	13/08/2017	14/10/2017	
			OK	Cancel	

- a. Select the name from the grid and click **OK** to proceed.
- b. Place the wearable/card on the RFID encoder to encode.
- c. Remove the wearable/card from the encoder when encoding is successful.



## 4

# Passport Reader 3M AT90000MKII and CR100M

The Shipboard Property Management System (SPMS) integrates with peripherals such as 3M<sup>™</sup> AT9000MKII and CR100M Passport Reader. The integration not only captures accurate information from the passport reading/scanning, it also provides a switch and an efficient check-in to passengers.

## Prerequisites, Supported Systems, and Compatibility for 3M

This section describes the minimum requirements to operate 3M AT90000MKII Passport scanner and 3M CR100M Document Reader on SPMS.

#### Prerequisites

- Setup file: DC 3.3.1.11.zip
- SDK Setup file
  - SDK 3.3.1.11 DC Asian.msi
  - 3M EASI 3.3.1.11.msi
- DCA Patch
- Remove all previously installed driver.

#### Compatibility

SPMS version 20.1 or later. For customer operating on version below 20.1, database upgrade to the recommended or latest version is required.

#### **Driver Installation**

This section describes the installation steps for 3M SDK and driver for 3M AT9000MKII device and 3M CR100M Document Reader.

- Obtain the driver pack DCA 3.3.1.11.zip from 3M vendor.
- Extract the 3M Page Reader SDK 3.3.1.11 DCA Asian.msi and 3M EASI 3.3.1.11.msi file to a Temp folder.
- Obtain DCA Patch from 3M.

#### Installing 3M Page Reader SDK 3.3.1.11 DCA Asian.msi / 3M EASI 3.3.1.11.msi

- Double-click the 3M Page Reader SDK 3.3.1.11 DCA Asian.msi to start the installation wizard.
- 2. Click **Next** to begin the installation and follow the steps in the wizard.
- 3. Use the default installation path and accept the License Agreement.
- 4. Click **Finish** when the installation is completed.



5. Repeat the steps above to install the 3M EASI 3.3.1.11.msi.

#### 3M OCR and Design File

- 1. Run the DCA Patch obtained from 3M.
- 2. Copy all sub-folders and files to C:\Program Files (x86)\Oracle Hospitality Cruise folder, where the Oracle Cruise programs reside.

Figure 4-1 DCA Folder Location



## Hardware Setup and Usage in SPMS

This section describes the setup required in SPMS along with a sample decoded passport information.

#### Hardware Configuration in AQCI

- **1.** Connect the 3M reader to the PC.
- 2. Begin the OHC Advanced Quick Check In program.
- 3. Navigate to Setup, General Setup, Hardware options.
- 4. In the **Passport Reader** section, select **Passport Reader Type** and click **Apply** to save the changes.
- 5. If you are using a CR100M Reader, select the device from the Card Reader #1 dropdown list.

ø	Se	itup 🔀
Parameters Hardware	Video Field Definition	Document Scanner Printer
The program sup always operation	ports up to two serial port connector d Ial.	evices. Regular keyboard emulation readers (e.g. Magtek) are
Card Reader		
Card Reader #1	Omnikey RFID Reader 👻	Serial Port
RFID Reader #1		
Card Reader #2	(None) -	Serial Port 👻
RFID Reader #2		- Enable RTE6700 Encrypted Log
Barcode Reader (RS23	2 Connection)	
Port Number	*	Parity
Speed	*	Stop Bits 🗸
Data Bits	+	
Signature Devices		
Signature Devices	(None) -	Data Bits
Port Number		Parity
Speed	*	Stop Bits ~
Passoort Deader		Spacial Sattings
Passport Reader Type		PEID Encoding Port
RFID Reader	3M Impact 3M Impact (IR) ScanShell 1000 ScanShell 4000(Fujitsi fi-60F) Desko Penta Desko Icon	Encode Door Lock (Track #3) Key : No   Door Key Options : Encode At Lock  Additional Command for Pebble Evolis when encode track 3
	3M 9000MKII	Do not encode Magnetic Stripe     Use separate print job for board card printing and encoding
		OK Cancel Apply

#### Figure 4-2 Hardware Configuration in AQCI



- 6. Navigate to the **Home** tab and click **New** button on the ribbon bar.
- **7.** Scan the passport when prompted, the following information will populate on screen.
  - Photo
  - Forename
  - Surname
  - Other First Name in Chinese character
  - Birth Nation
  - Birth Date
  - Nationality
  - Passport number
  - Country of Issue
  - Expiry Date

#### Figure 4-3 Sample Personal Details Tab from AQCI

Personal Details	Additional Details Addresses Documents Trave	Document		
Personal Details	)			
		Salutation		Birthdate
		Title		Birth Place
		Forename	-	Profession
		Middle Initial		Marital Status +
		Birth Nation	(in them)	Other Name
		Surname		Other First Name
		Nationality	-	Email
		Gender		
		Phone		
Passport Details		Credit Card Details		Address Details
Passport No		Card No		Address 1
Issue Date	•	Card Name		Address 2
Issue Place		Exp Date		Street
Issue Country	• •	Card Type		City
Exp Date		DCC		Zip/Postal Code
Nationality (C)		Last Four CC Dig		Country
				State/Province -
				State/Province

#### Note:

3M AT9000MKII provides Chinese Name as the Full name and this information populates into Other First Name field where as the 3M CR100M only reads the passport information from MRZ.

- 8. The following are the fields where decoded passport information will show in the Advance Quick Check-In Module (AQCI) Wizard screen.
  - First name
  - Last name
  - Chinese name



- Nationality
- Document Type
- Document Number
- Date of Birth
- Expiry Date
- Country of Birth
- Country of Residence

#### Figure 4-4 Sample Immigration Details in AQCI Wizard Screen

SWIPE DOCOMENT	Nationality				* 🥒 Manual
a 💭	Document Type				24
nese	Document Number				
Idle	Expiry Date		•	Date of Birth (mm/dd/yy)	
	Gender	Male		Birth Cert State	
nese	Photo ID Type	(	•	Photo ID State	
	Country Of Birth				•
	Country of Residence				
	Emergency Contact Name				
	Emergency Phone				Copy to a
	Email (1)				
1720	Email (2) Shin Email				
and his here	National ID	-			
A HING RANGE	FIN Number				
	Exclude From Quick Billi	ng Printing			
	Notice and Consent	arta anan 1985.			



Figure 4-5 Prompt to Scan MRZ Second Page in Express Reservation





#### Note:

If the device detects a passport that has more than a page to scan, it sends an indicator with a pop up message, prompting for a second MRZ page to scan in AQCI or the Management Module.

## 5 Desko Penta

The Desko Penta is a multifunctional printer/scanner that scans and read passports, Identification (ID) cards and visas. This allows a smoother and quicker check-in process during embarkation.

# Prerequisites, Supported Systems, Certification and Compatibility for Desko Penta

#### Prerequisites

Installing the device with a correct version of firmware and driver is essential. Kindly obtain the installation driver from Desko Penta. See *Certified Firmware* for supported firmware version.

- DESKOSW\_6010404000\_PENTA\_Full\_Installer Penta Gen3 (For Gen 3 device)
- DESKOSW\_6010404000\_PENTA\_Full\_Installer Penta CKI (For Gen 4 device)

#### **Certified Firmware**

- Firmware version for Gen3 : 00000004.0000001B
- Firmware version for Gen4 : 03010102.0000002

#### Compatibility

SPMS version 20.1 or later. For customer operating on version below 20.1, database upgrade to the recommended or latest version is required.

## Installing a Driver/Firmware

Installing the correct driver and firmware is essential for the passport scanner to work properly. The following section describes the steps taken to install the driver/firmware.

#### **Driver Installation**

- 1. Obtain the correct version of the installation file that matches your device version from the Desko Penta website or contact your local hardware provider.
- 2. Double-click the executable file *PENTA\_Setup.exe*, and follow the instruction wizard to complete the installation.
- 3. At the end of the installation, the system prompts a '*Program Compatibility Assistant*' window. Click **Yes, this program worked correctly** and then **Close** to exit.
- 4. Navigate to C:\Program Files (x86)\DESKO GmbH\PENTA Demo folder and copy all the DLL files to C:\Windows\SysWOW64 and C:\Program Files (x86)\Oracle Hospitality Cruise folders. See below diagram for list of DLL's



#### Figure 5-1 PENTA Path for Gen 3 Device

۲I	ogram Files (xoo) > DESKO GIIDH > PENTA DEITO					
[	Name ^	Date modified	Туре	Size	File version	
	🗹 🕙 AlphaBlendTextBox.dll	8/31/2011 8:28 AM	Application exte	24 KB	1.0.4231.12647	
	🗹 🕙 desko_ipl.dll	3/21/2012 11:52 AM	Application exte	4,971 KB	1.0.7.47	
	🗹 🗟 ePassApi.dll	11/10/2011 11:06	Application exte	2,012 KB	1.0.1.19	
	🗹 🗟 ePassApiCSharp.dll	11/10/2011 11:06	Application exte	68 KB		
	🗹 🗟 EPassApiDotNet.dll	11/10/2011 11:05	Application exte	36 KB	1.0.0.1	
	🗹 🗟 log4cxx.dll	11/8/2011 4:13 PM	Application exte	1,948 KB	0.10.0.1	
	🗹 📄 log4j.properties	3/21/2012 9:32 AM	PROPERTIES File	2 KB		
	🗹 🗟 log4net.dll	11/22/2011 1:11 PM	Application exte	264 KB	1.2.10.0	
	🗹 🗟 PageScanAPI.dll	3/21/2012 11:52 AM	Application exte	1,772 KB	4.0.0.4	
	🗹 🗟 PageScanApiDotNet.dll	3/21/2012 11:52 AM	Application exte	63 KB	13.0.4.24	
	🗹 🗟 PageScanApiDotNetWrapper.dll	3/21/2012 11:52 AM	Application exte	88 KB	4.0.0.1	
	🗹 🗟 TravelDocApi.dll	8/31/2011 8:28 AM	Application exte	600 KB	1.0.0.3	
	🗹 🗟 TravelDocApiCSharp.dll	8/31/2011 8:28 AM	Application exte	60 KB	1.0.0.2	
	🗹 🗟 zlib1.dll	7/19/2010 12:22 AM	Application exte	98 KB	1.2.5.0	

Program Files (x86) > DESKO GmbH > PENTA Demo

#### Figure 5-2 PENTA Path for Gen 4 Device

Program Files (x86) > DESKO GmbH > PENTA Demo

Name ^	Date modified	Туре	Size	File version
Sample Screens	8/28/2018 3:06	File folder		
AlphaBlendTextBox.dll	3/17/2015 4:18	Application exte	30 KB	1.0.4231.12647
PassApi.dll	3/17/2015 4:18	Application exte	2,018 KB	1.0.1.19
ePassApiCSharp.dll	3/17/2015 4:18	Application exte	74 KB	
🗹 🔄 EPassApiDotNet.dll	3/17/2015 4:18	Application exte	42 KB	1.0.0.1
FactorySettings.config	3/17/2015 4:18	CONFIG File	1 KB	
Iog4cxx.properties	3/17/2015 4:18	PROPERTIES File	1 KB	
🗹 🔄 log4net.dll	3/17/2015 4:18	Application exte	270 KB	1.2.10.0
PageScanAPI.dll	3/17/2015 4:18	Application exte	6,375 KB	4.1.6.1
PageScanApiDotNet.dll	3/17/2015 4:18	Application exte	66 KB	14.1.6.1
PageScanApiDotNetWrapper.dll	3/17/2015 4:18	Application exte	90 KB	4.1.6.1
PentaDemo.exe.config	3/17/2015 4:18	CONFIG File	4 KB	
PentaDemo.exe.log4net	3/17/2015 4:18	LOG4NET File	2 KB	
🗹 🔄 TravelDocApi.dll	3/17/2015 4:18	Application exte	606 KB	1.0.0.3
🗹 🗟 TravelDocApiCSharp.dll	3/17/2015 4:18	Application exte	66 KB	1.0.0.2

#### **Firmware and Configuration Update**

The device firmware is packaged in the Setup file provided by the vendor. Update is not required unless advise otherwise. Below are the steps to update the firmware when required. See Prerequisite, Supported Systems, Certification and Compatibility for Desko Penta section for certified firmware.

**1.** Connect the Desko printer using USB to the PC.



- Locate DESKO GmbH DESKO Devices from the Windows Start option and select Device Updater or double-click the DeviceUpdater.exe. Below are the file paths of the Device Updater.
  - a. DESKOSW\_6010404000\_PENTA\_Full\_Installer Penta Gen3 (For Gen 3 device) C:\Program Files (x86)\DESKO GmbH\DESKO Devices\Applications folder.
  - b. DESKOSW\_6010404000\_PENTA\_Full\_Installer Penta CKI (For Gen 4 device) C:\Program Files (x86)\DESKO GmbH\Device Updater folder.
- **3.** The update tool automatically scans for installed devices and prompts a message for every Desko device detected.

📕 DESKO DeviceUpda	ater 1.7.4.0 © 2011 - 2015			_		×
Device <b>l</b>	Jpdater	D	E	S	KO	*
Device Informat Device Type VID PID Firmware Version Firmware Compile Date Serial No. Prod Id. PCB Rev.	ion PENTA Scanner Gen4 0x1AC2 0x000F 03010102.00000002 Nov 12 2014 17:20:17	Device General ( Set Fin Set C Set Boo	Actic Clock mware Config otloader	ons RFID	Get Conf	ìg
Device connected						

#### Figure 5-3 Device Information Page

4. At the PageScan device detected window, click Yes to connect the device.



PageScan	device detected	$\times$
?	DESKO PageScan device detected.	
	PageScan device type represents following DESKO devices: -PENTA -BGR05 GRSK/BPV/SBG -BGR06 BGR 50X pro -Device on boot loader	
	Connect to device? Yes = connect to device No = continue searching devices	
	<u>Y</u> es <u>N</u> o	

#### Figure 5-4 DESKO PageScan Device Detected

- 5. You can also scan for devices manually by clicking **Connect** button from the Device Updater window. In the **DeviceUpdater** window, the following options are available to connect the device:
  - a. **Firmware Update:** Updates the firmware by selecting the firmware file (.ldr) from an open dialog window.
  - b. Configuration Update: Updates the configuration by clicking Set Config.Select the configuration (.xml) file from an open dialog window.
  - c. Process Desko Device update package: Updates using a device update package (.dup) file.
  - d. Device Configuration and Usage in SPMS Modules.

Apart from installing the correct drive and firmware, you must also configure the hardware for it to work in the Management and Advance Quick Check In (AQCI) module.

#### **AQCI Module**

- **1.** Log in to the **AQCI** module.
- 2. Navigate to the **Setup** tab and select the **General Setup** button.
- 3. Select Hardware tab.
- 4. Select the Desko Penta device in this field enables you to:
  - Card Reader #1: Read the card magnetic strip or barcode. (Desko Penta)
  - Passport Reader
    - a. Passport Reader Type: (Desko Penta)
    - b. RFID Reader: Read passport using RFID (Auto Detect)
- 5. In order to read the passport using RFID, select **Auto Detect** from the RFID Reader drop-down list.
- 6. Click **Apply** to save the settings.



- 7. In the AQCI main screen, you will see the Passport Reader is ready and the **Scan Passport** icon is enabled at the ribbon bar.
- 8. To scan the passport, locate the guest account, click the **Scan Passport**

button and place the passport on the scanner.

- **9.** Remove the passport once the scanning completes. Scanned information populates into the guest record.
- **10.** To search the guest, swipe the board card through the magnetic swipe reader at the Main screen. Information of the guest will appear on the screen.

#### **Management Module**

- 1. Log in to **Management** module.
- 2. Navigate to the **Options** menu and select the **Hardware** tab.
- 3. At the **Card Reader/Encoder** section, select the Desko Penta printer in this field for the following:
  - a. Card Reader #1: Read the card magnetic strip or barcode.
  - **b.** Passport Readers
    - i. Passport Readers: (Desko Penta)
    - ii. RFID Type: Read passport using RFID (Auto Detect)
  - c. Enable Sound for Desko Penta: This field is checked by default and play a sound for good or bad scan. Select the check to disable sound.
- 4. Click **OK** to save the settings.
- 5. In the Guest Handling screen, the Passport reader status is shown.
- 6. To scan a passport, repeat steps 8 and 9 of the AQCI module.
- 7. To read a magnetic board-card, swipe the card through the magnetic swipe reader at the Guest Handling screen. Guest information appears on the screen.
- 8. To read a credit card data, click the **Get Credit Card** button and swipe the card through the magnetic swipe reader. Information on the card appears on the screen.
- **9.** To search for a guest using a barcode, place the barcode on the Desko Penta scanner and information will appear on the screen.



# 6 FEIG OBID RFID Encoder

# Prerequisites Certifications and Compatibility for FEIG RFID OBID

This section describes the minimum requirements for the FEIG RFID OBID encoder Installation module in SPMS.

#### Prerequisites

- Obtain the following program executable from FEIG or your local vendor.
  - OBID driver: setup\_cprusbio\_v2.50 (build 20130214)
  - Card reader driver: ID\_CPRStart2014\_V090701.msi
- Download Visual C++ runtime from Microsoft's website.
  - Vcredist\_x86.exe (8.0.50727.6195)

#### Compatibility

SPMS version 20.1 or later. For customer operating on a version below 20.1 database upgrade to the recommended or latest version is required.

## Installing FEIG OBID RFID Encoder

This section describes the steps to set up the FEIG OBID RFID Encoder for use in SPMS.

#### Visual C++ Runtime Installation

- 1. Run the vcredist\_x86.exe (version 8.0.50727.6195) to install.
- 2. Follow the steps in the setup wizard to complete the installation.

#### FEIG OBID RFID Driver Installation

- 1. Run the setup.exe of the folder setup\_cprusbio\_v2.50 (build 20130214) to install.
- 2. Follow the steps in the setup wizard to complete the installation.
- 3. Apply the card reader driver patch by running the ID\_CPRStart2014\_V090701.msi.

#### Upoading the DLL files to SPMS database

- 1. From OHC Launch Panel, press F12 to start the upload to Special Applications.
- 2. Upload:
  - a. fecom.dll
  - b. FedmIscCoreVC80.dll
  - c. FedmIscMyAxxessVC80.dll



- d. fefu.dll
- e. feiscl.dll
- f. fetcl.dll
- g. fetcp.dll
- h. feusb.dll
- i. OBIDISC4NET.dll
- j. OBIDISC4NETnative.dll

