Oracle® Hospitality Cruise Shipboard Property Management System

Fargo HDP5000 Printer Installation Guide
Release 7.30.872
E83930-01

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ORACLE

Contents

Figures

Preface

The Fargo HDP 5000 printer not only prints high quality image, it also encodes information on Radio Frequency ID (RFID) and normal magnetic cards.

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

Audience

This document is intended for application specialist and users of Oracle Hospitality Cruise Shipboard Property Management System (SPMS).

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
April 2017	• Initial publication.

Prerequisite, Supported Systems, and Compatibility

Prerequisites

Installing a device with a correct version of firmware and driver is essential. Please obtain latest driver and firmware from hardware provider.

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

Download the following from OMNIKEY website.

- OMNIKEY 5121 Ethernet Driver.exe
- CardMan_Synchronous_APR_V1_1_1_.exe
- CT-API_V4_0_3_0.exe

Supported Operating Systems

- Microsoft Windows 7 - 32-bit System/x64-bits System

Compatibility

SPMS version `7.30.800` or later. For customer operating on version below `7.30.800`, database upgrade to the recommended or latest version is required.

1. Printer, Driver and Firmware Installation

Installing the correct driver is essential for the printer to work as it should be.

1.1. Installing Printer Driver

1. Close all running programs and insert the Software Installation CD into your PC.
2. At the HDP5000 Card Printer – Installation Wizard screen, click **Next**.

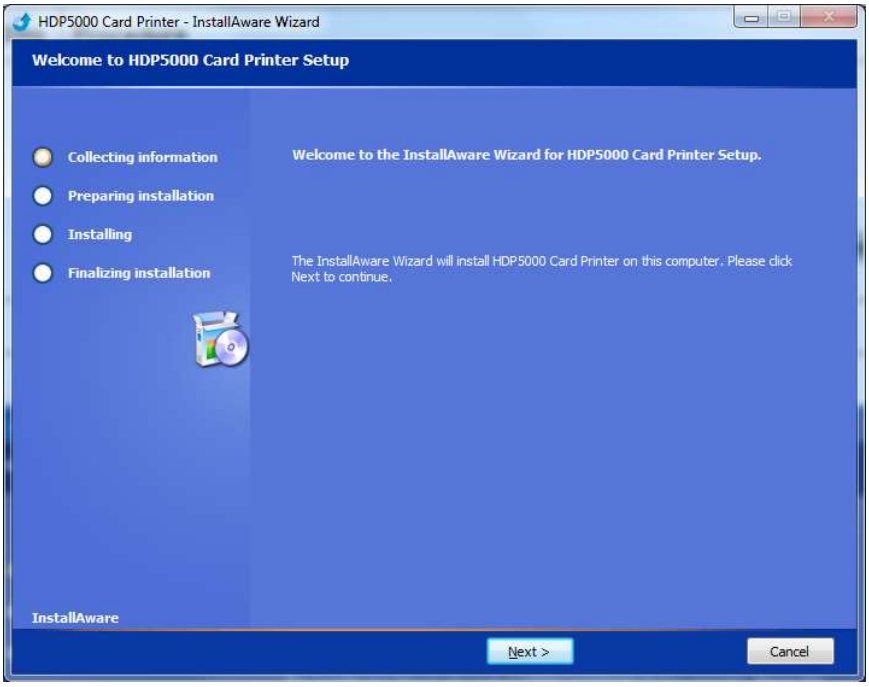


Figure 1-1 - Driver Installation Welcome Screen

3. At the License Agreement screen, read and accept the license agreement, then click **Next**.

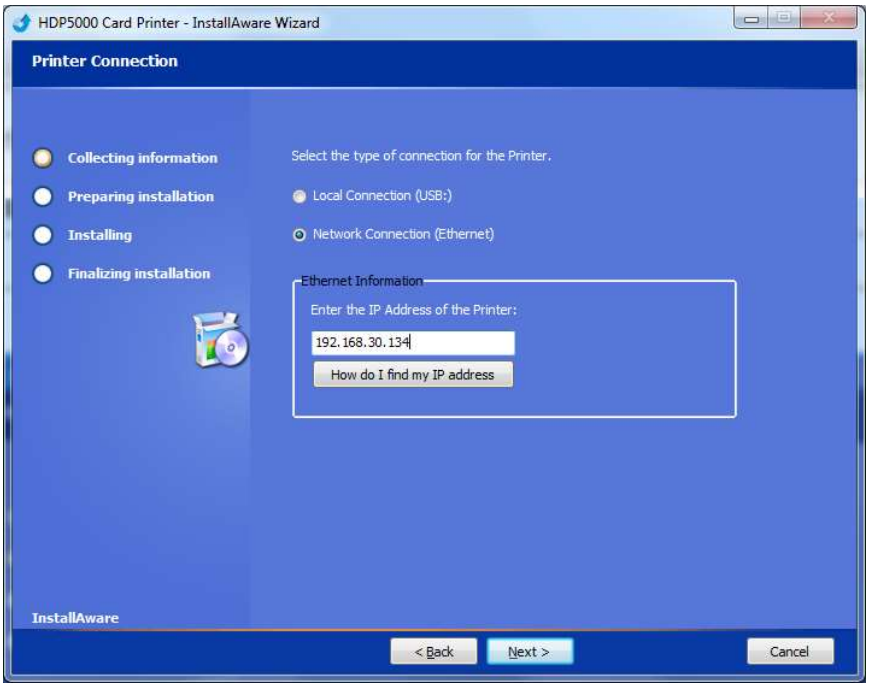


Figure 1-2 - Printer Connection Type

4. At the Printer Connection screen, select the Local Connection type **as Network Connection**, enter the **IP Address** of the printer.
5. Click **Next** to begin the installation.
6. At the HDP5000 Card Printer Setup Complete screen, click **Finish** and reboot the PC.

1.2. Installing the Firmware

The firmware version determines the operability of the device, and below steps shall guide you into applying the correct firmware version. See *Prerequisites* page for certified firmware version.

1. Select **FargoSDK.exe** from the Software Installation CD.

2. At the Welcome to HID Developer Studio screen, click **Next** to continue.

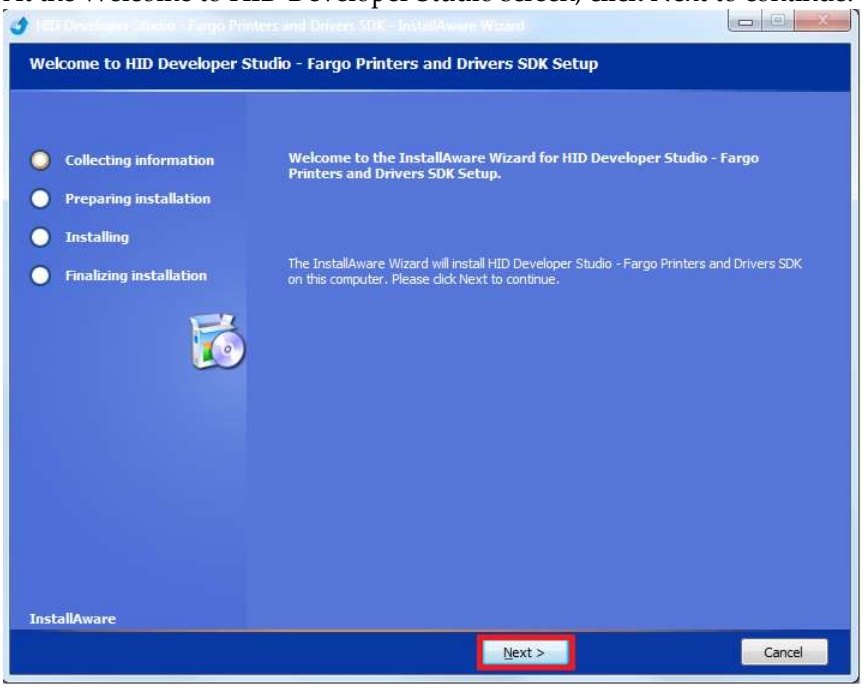


Figure 1-3 - Welcome to HID Developer Studio screen

3. At the License Agreement screen, read and accept the license agreement, then click **Next**.
4. At Ready to Install screen, click **Next** to proceed with the installation.
5. At the HID Developer Studio… SDK Setup Complete screen, click **Finish** to complete the installation.

   If you receive an error "FargoCardMove → ActiveX Component error" when performing the RFID Card printing, manually register the `FargoPrinterSDK14.dll`

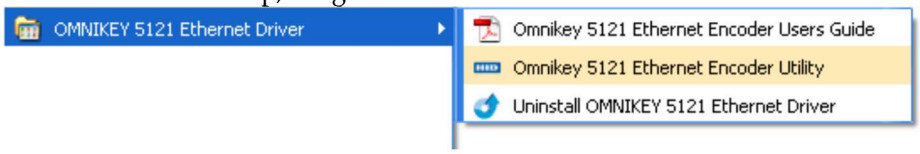
1.3. Installing Ethernet Driver

Additional Ethernet Driver for RFID is required for RFID card encoding.

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. At the Ready to Install screen, click **Next** to proceed with the installation.
4. At the OMNIKEY 5121 Ethernet Driver Setup Complete screen, click **Finish** to complete the installation.

1.1.1. Adding an Encoder Instance

1. Run the OMNIKEY 5121 Ethernet Drive Utility to add an encoder. The Utility is located at the Windows Startup, Program Folder of the PC.



2. In the OMNIKEY 5121 Ethernet Encoder Utility screen, select Add from the File Menu.

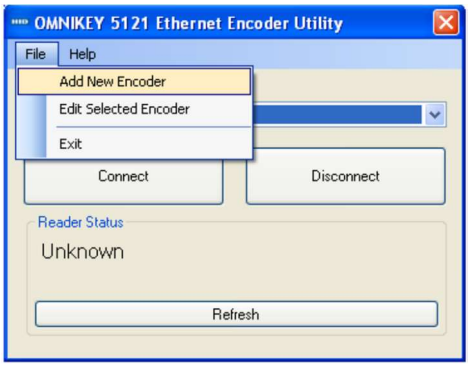


Figure 1-4 - Adding New Encoder

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

Figure 1-5 - Encoder IP Address

4. Select the **Encoder OMNIKEY 5x21 CL-0** from the drop-down list and then click **Connect**.
5. At the message prompt to restart the PC, select **Yes** to continue.
6. Return to the Ethernet Encoder Utility and confirm the encoder Serial Number displayed under 'Select Encoder' field and the Reader Status is 'Request Succeeded'.

   The Reader Status shows 'Encoder Busy' if another PC is connected to the encoder.

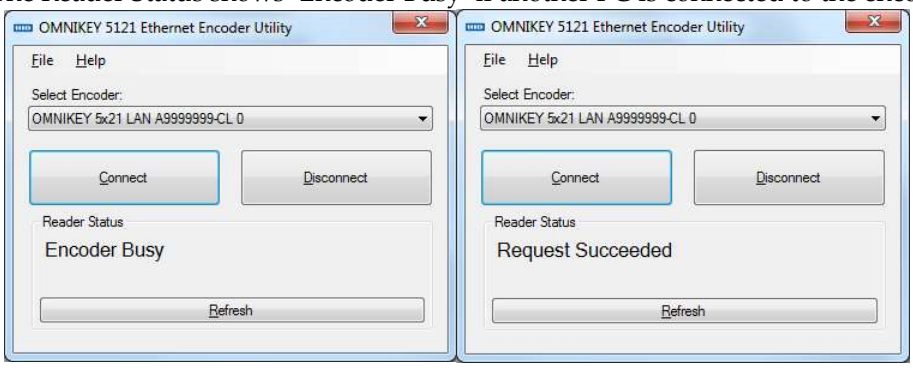


Figure 1-6 - Ethernet Encoder Utility Connection

1.1.2. Editing Encoders Information

When an encoder IP Address has changed, you are required to modify the encoder IP Address.

1. Select the **Encoder** from the drop-down list.

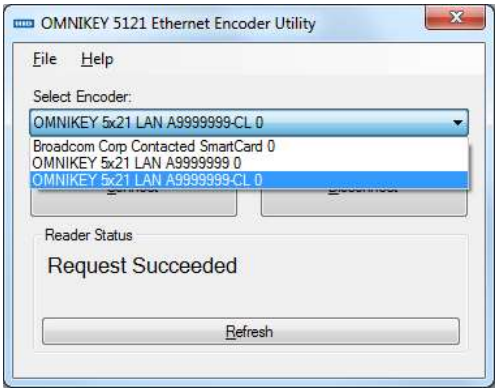


Figure 1-7 - Encoder Information

2. Select **Edit Selected Encoder** from the **File Menu**.

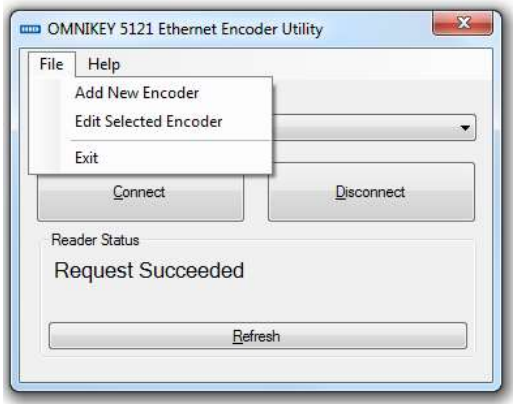


Figure 1-8 - Editing Encoder Information

3. Enter the new IP Address or change the printer name and then click **OK** to save.

1.1.3. Installing CardMan Synchronous API

This API installation is required to obtain the `scardsyn.dll` for RFID encoding to be performed in SPMS.

1. Run **CardMan_Synchronous_APR_V1_1_1_.exe**
2. Click the **Setup.exe** to execute the installation.
3. At **Welcome to the CardMan Synchronous API Setup Program** screen, click **Next**.
4. Check the **DLL's** checkbox at the Component Selection window and then click **Next** to proceed.

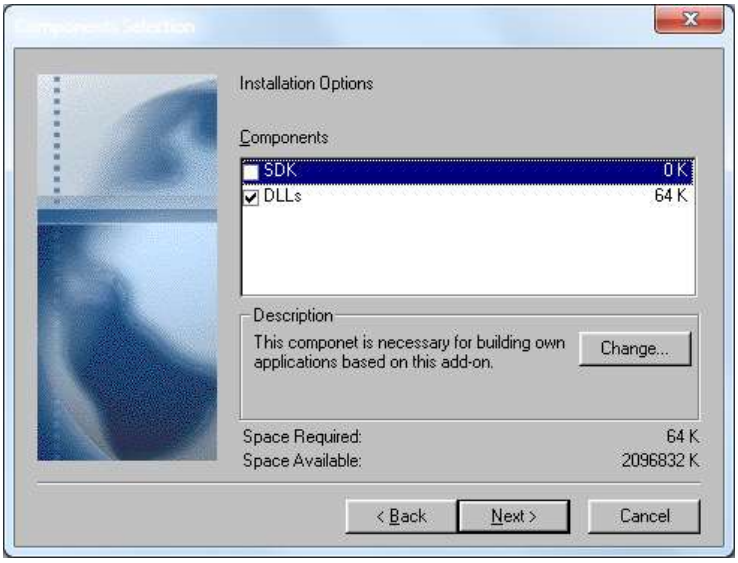


Figure 1-9 - CardMan Synchronous API Installation

5. On the Setup Complete screen, click **Finish** to complete the installation.

   If you receive a 'scarsyn.dll' error when performing the RFID Card printing, manually register the scardsyn.dll to `C:\windows\system32 folder.`

1.1.4. Installing CT-API Driver

The OMNIKEY Reader requires the CT-API Driver to be installed prior to reading 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. At the Reader Check screen, click **Yes** to continue.
3. At the Welcome screen, click **Next** to install.
4. At the Save the CT-API Configuration screen, then click **OK** to close.

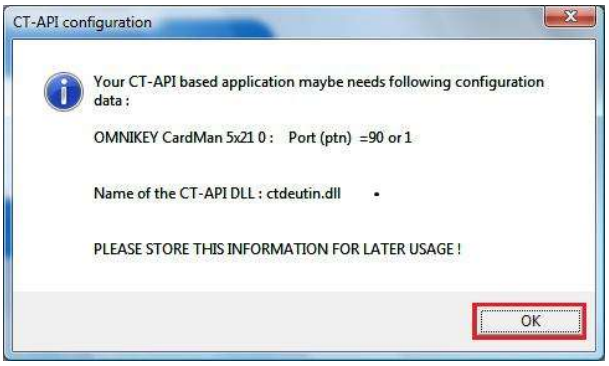


Figure 1-10 - CT-API Configuration

5. Restart the PC.

2. Printer Setup

Prior to using the printer, an additional setting is required to handle different type of card encoding. Below section describes the steps to configure the printer for Magnetic Stripe card and RFID Card.

2.1. Configuring Printer Setting to Encode Magnetic Stripe Card

1. Navigate to the **Devices and Printers** panel of the PC connected to the printer.
2. At 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 Magnetic Encoding tab and select 'Custom Encoding' from Encoding Mode drop-down list, and then select 'ISO Encoding' in **Track 1** and **Track 2** tab.

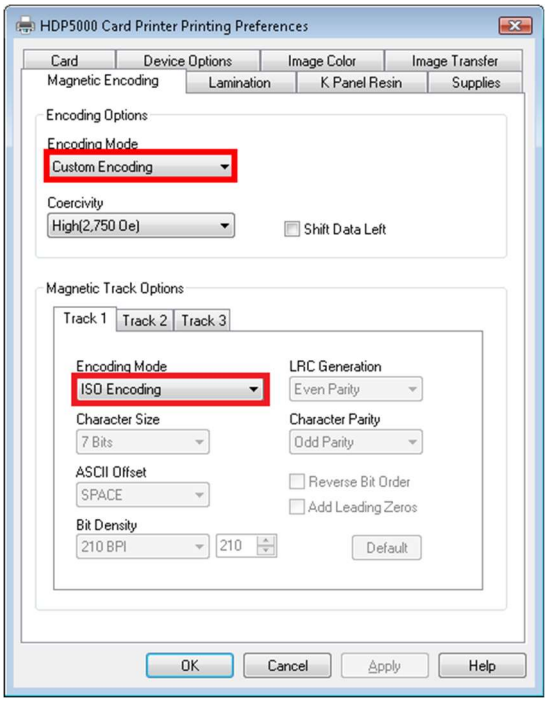
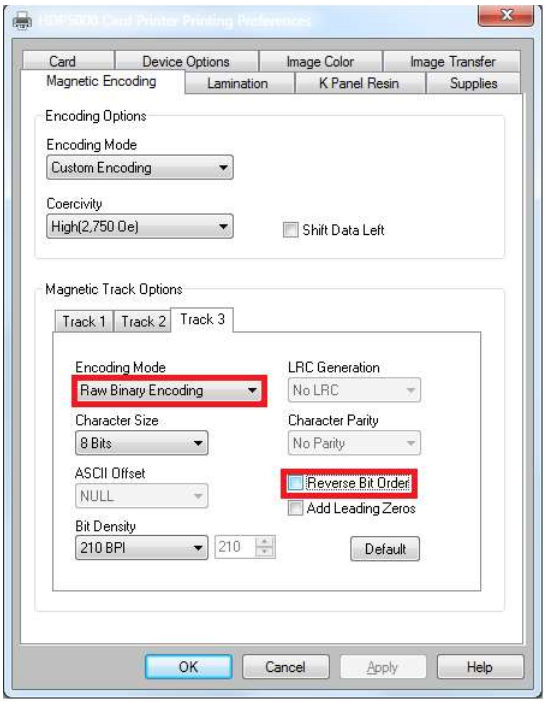


Figure 2-1 - Printer Settings for Magnetic Stripe Card

6. In the Track 3 tab, choose 'Raw Binary Encoding' and check the 'Reverse Bit Order' check box.



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

2.2. Configuring Printer Setting to RFID Card

1. Repeat step 1 to 4 of the above.

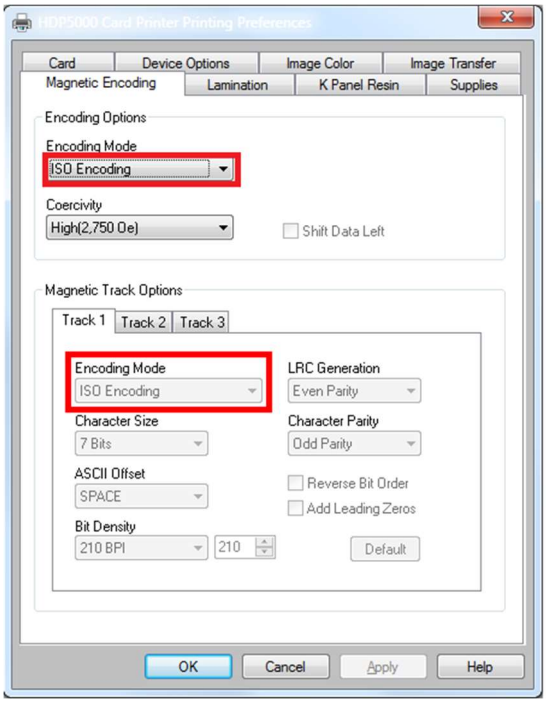


Figure 2-2 - Printer Settings for RFID Card

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

3. Management and Report Setup

The following steps describe the steps to connect the Fargo HDP 5000 printer in Management module.

3.1. Configuring the Hardware for Magnetic Stripe Card

1. Run **Management module**, and select **Options** from the menu bar.
2. In the Options window, click the **Hardware** tab.
3. In **Report Printers** section, select **Cards,** and then navigate to **Card Printer combo box** and choose **"Fargo HDP 5000"** from the printer drop-down list**.**

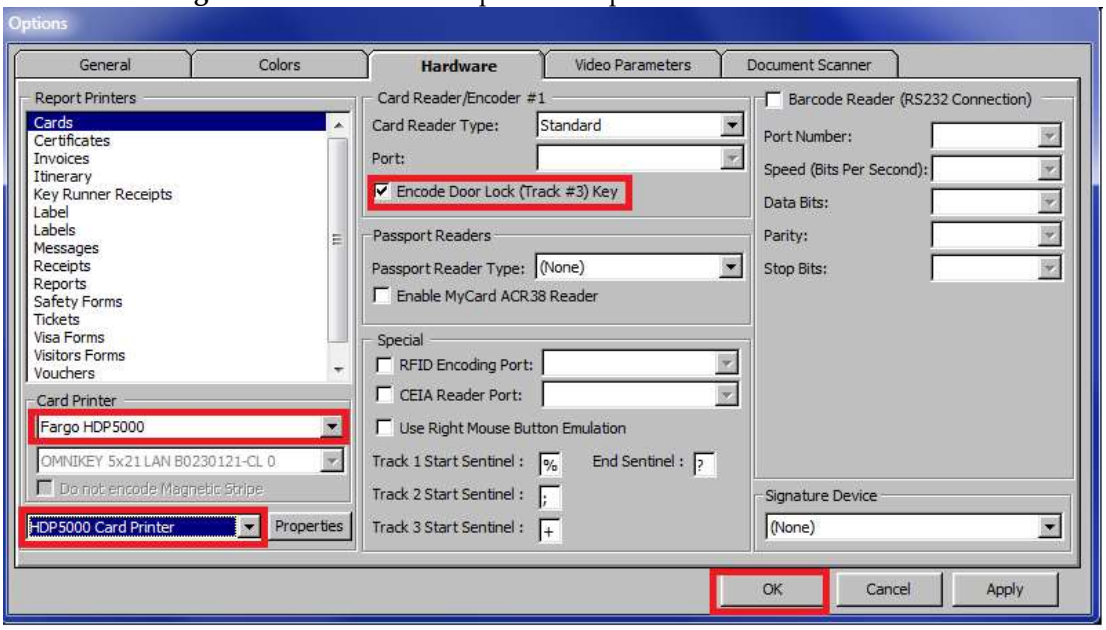


Figure 3-1 - Management module Hardware Options – MagCard

4. Check **Encode Door Lock (Track #3)** Key under Card Reader/Encoder #1 section.
5. Click **Apply** to save the settings, and then **OK** to exit.

The printer settings are saved to 'FCSettings.par' under parameter setting:
[#Fidelio Cruise.Printer.Cards=HDP5000 Card Printer#]
[#Fidelio Cruise.Printer.BoardCard=6#]

3.2. Configuring the Hardware for RFID Card

1. Repeat step 1 and 2.

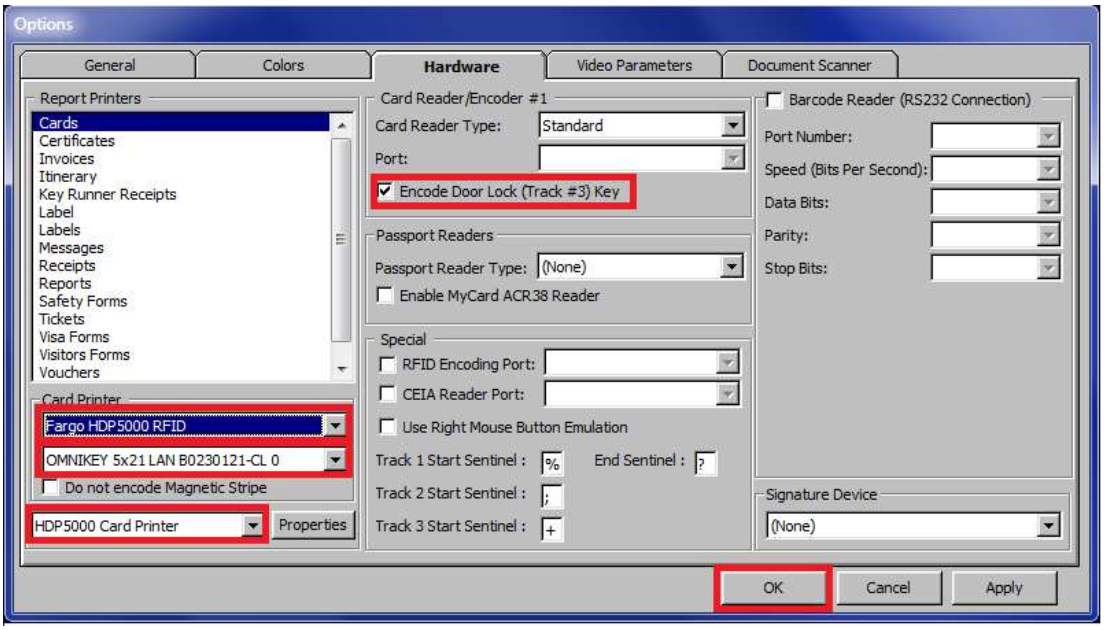


Figure 3-2 - Management module Hardware Options – RFID

2. In **Report Printers** section, select **Cards,** and then navigate to **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 Printer Name as **HDP 50000 Card Printer**.
4. Check **Encode Door Lock (Track #3)** Key under Card Reader/Encoder #1 section.
5. Click **Apply** to save the settings, and then **OK** to exit.

The printer settings are saved to 'FCSettings.par' under parameter setting:
[#Fidelio Cruise.Printer.Cards=HDP5000 Card Printer#]
[#Fidelio Cruise.Hardware.RFIDEncoder=OMNIKEY 5x21 LAN B0230121-CL 0#]
[#Fidelio Cruise.Printer.BoardCard=7#]

3.3. Setting Up Report for Magnetic Stripe Card

As every boardcard report layout differs from another, 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. Insert below formula in the Formulas field of the report template.

- `@SSELSTRING2`
- `@SSELSTRING3`
- `@SSELSTRING4`
-
```
@track1
if trim({@SSELSTRING2})='' then
' '
else
{@SSELSTRING2}
```

- ```
  @track3
  if isnull({@sselstring4}) then
  ''
  else
  left({@sselstring4},4) + '000000000000' + mid({@sselstring4},
  5)
  ```
- ```
  @Track
  Formula Editor = {@track1} + {@SSELSTRING3} + {@track3}
  ```

Modification of the formula is done using Crystal Report program to facilitate the requirements set by Fargo to have a 14 leading zeros to be inserted into Track 3 Raw encoding for Ving Vision System verification.

3. Run **Administration** module and select **Systems Setup, Reports Setup** from the menu.
4. Under Current Reports List group '_Onboard Cards', search for **Passenger Door Card** report.
5. In the Formulas field of the report, insert the formula per below in Crystal Report Formulas section:
   ```
   sselstring2='[$sselstring2]'[~]sselstring3='[$sselstring3]'[~]sse
   lstring4='[$sselstring4]'
   ```

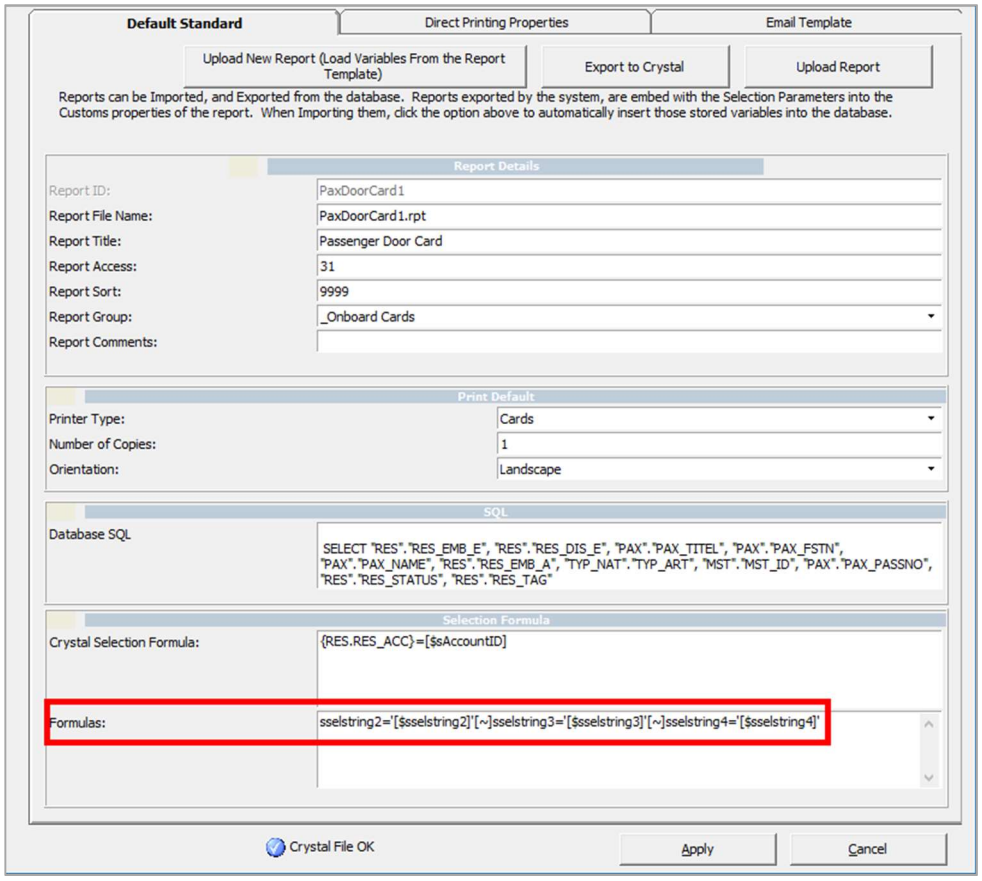


Figure 3-3 - Report Setup

6. Click **Apply** to save the changes.