Oracle® Hospitality Cruise Shipboard Property Management System
Zebra ZXP SERIES 7 Installation Guide
Release 7.30.868

September 2015
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Preface

Audience
This document is intended for application specialist and users of Oracle® Hospitality Cruise Shipboard Property Management System.

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
- Screen shots of each step you take

Revision History

<table>
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<tr>
<th>Date</th>
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<td>September 18, 2015</td>
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1. Introduction

Utilizing the latest in Zebra card printing technology, the ZXP Series 7 provides high-volume, high-quality printing. The printer delivers fast yet reliable performance while offering users exceptional value by lowering the printer’s cost of ownership. ZXP Series 7 prints sharp vivid cards with precise color control.

![Zebra ZXP Series 7 Card Printer](image1)

Figure 1-1 - Zebra ZXP Series 7 Card Printer

1.1. Prerequisites

Installing a device with a correct firmware, driver and SDK version is essential. Download these setup files from the FTP release folder: /Fidelio/Fidelio Cruise SPMS/Release730/Hardware Drivers/Zebra/ZXP Series 7 and /Fidelio/Fidelio Cruise SPMS/Release730/Hardware Drivers/OMNIKEY 5321.

- Setup file: Zebra ZXP Series 7.zip
- SDK setup file for Operating System running on:
  - zmotif-sdk-32bit-v3-0-4.zip for Windows 32-bit System
  - zmotif-sdk-64bit-v3-0-4.zip for Windows 64-bit System
- Remove all previously installed driver, if any.
- Omnikey_5x2x_unattended_w7_x64_r1_2_26_140_0.zip

1.2. Supported Systems

- Windows 32-bit System
- Windows 64-bit System

1.3. Certifications

- Certified driver version: DZ7CG.03.00.00.00.
- Certified firmware version: fz7mg-03-00-00.
- Certified SDK version: v3.0.04.
1.4. **Compatibility**

Oracle® Hospitality Cruise Shipboard Property Management System (SPMS) version 7.30.868 or later. For customer operating on version below 7.30.868, database upgrade to the recommended or latest version is required.
2. Network Printer Settings

For card to be encoded via a network printer, a static network IP must be assigned before installation begins.

1. Connect the network cable to the Ethernet port on the rear of the printer for network connection or directly to the computer’s Ethernet port.
2. Turn on the printer.
3. When the printer is in READY mode, press MENU on the Operator Control Panel (OCP).
4. Press DOWN, then choose NETWORK SETTINGS option, and then press SELECT.
5. Press DOWN, choose SET IP ADDRESS, and then press SELECT.
6. Press CHANGE to set in the IP address in each number block, using NEXT to move to the next block.

Press EXIT to return to the previous menu when the IP assignment completes.

7. Press DOWN and choose SET SUBNET MASK, then press the SELECT.

To enter the SUBNET MASK, use CHANGE, and enter the number in block using NEXT to move to the next block.

Press EXIT to return to the previous menu.

Note: The Ethernet printer does need to be in the same subnet as the host. It can be in a different subnet as long as it is reachable from the host.

8. Press DOWN, choose SET DEFAULT GATEWAY, and then press SELECT.
9. Use CHANGE to enter the number in each block and NEXT to move to the next set of number.

Press EXIT to return to the previous menu.

10. To save the settings, press UP, select SAVE SETTINGS, and then press SELECT.
3. **Driver Installation**

Installing the correct driver is essential for the printer to work as it should be. The Zebra ZXP SERIES 7 supports both Ethernet and USB Driver.

---

**Warning:** Ensure you have removed any previously installed Zebra ZXP Series 7 Card printer driver and REBOOT.

---

### 3.1. USB Printer Driver Installation

1. Right-click and choose **Run as Administrator** on the DZ7CG.03.00.00.00.exe.
2. On the Welcome to the InstallShield Wizard screen, click **Next** to continue.

![Figure 3-1 – USB Driver Installation Welcome Screen](#)

3. Select **Install USB printer drivers. This is the default**, and then click **Next**.
4. Ensure the printer is turned off, and then click the OK.

5. On the License Agreement window, select Accept the terms of the license agreement, and then click Next.

6. Enter the name and company information, and then click Next.
7. On the Choose Destination Location window, click **Next** to accept the default setup location.

8. Click **Install** to continue.
9. Click **Finish** to complete the installation.

10. In the Control Panel, Devices and Printers screen, the Zebra ZXP Series 7 USB printer is now installed and ready to print.
3.2. Ethernet Printer Driver Installation

1. Right-click and choose Run as Administrator on the DZ7CG.03.00.00.00.exe.
2. On the Welcome to InstallShield Wizard screen, click Next to continue.

3. Select Install Ethernet printer drivers, and then click Next to continue.
4. Ensure the printer is turned on, and then click OK.

5. On the License Agreement window, select Accept the terms of the license agreement, and then click Next.
6. Enter the **name and company information**, and then click **Next**.

![USB Driver Installation Customer Information](image1)

**Figure 3-14 - USB Driver Installation Customer Information**

7. On the **Search Ethernet Printers** window, click **Refresh** to search for available Ethernet printers on the network. A list of network printers will be displayed. Select the desired printer, then click **Next**.

![Ethernet Printer Detection](image2)

**Figure 3-15 - Ethernet Printer Detection**

8. Enter the **Location** of the printer and any **Comments** regarding the printer, then click **Next**.
9. On Choose Destination Location window, click **Next** to accept the default setup location.

10. Click **Install** to continue.
11. Click **Finish** to complete the installation.

12. In the **Control Panel, Devices and Printers**, the **Zebra ZXP Series 7 Network Card Printer** is now installed and ready to print.
Figure 3-20 - Network Printer installed in Devices and Printers screen.
4. Firmware

The firmware version determines the operability of the device. See Introduction page for certified firmware version.

4.1. Updating the Firmware

1. In Printer and Devices, right-click on the printer icon and select Printer Preferences.

   ![Figure 4-1 - Firmware Update](image)

2. At the bottom of the Card Setup tab, click on ZXP Toolbox.

   ![Figure 4-2 - ZXP SERIES 7 Toolbox](image)

3. Under Firmware and Lookup Tables, browse for the BIN file in your local PC folder.
4. Select the file and click Open.
5. Read the warning about erasing the firmware, and then click OK.

**Warning:** The device will no longer function if the wrong firmware is applied.

6. Read the firmware file confirmation message, and then click OK.
7. During the firmware upgrade, the progress screen is shown on the device control panel.

**Warning:** Do not power off the device when firmware upgrade is in progress.

8. On completion, an *Upgrade Complete* is shown on Operator Control Panel.
9. Reboot the printer by powering it off/on.

**4.2. Verifying the Firmware Version**

1. In Printer and Devices, right-click on the printer icon and select **Printer Preferences**.

![Figure 4-5 - Firmware Update](image)

2. At the bottom of the **Card Setup tab**, click on **ZXP Toolbox**.

![Figure 4-6 - ZXP SERIES 7 Toolbox](image)
3. Under **Information** section, verify the firmware version displayed.

![Figure 4-7 - Firmware Version Installed](image)

4.3. **Printer Configuration**

1. In Printer and Devices, right-click on the printer icon and select **Printer Preferences**.

![Figure 4-8 - Firmware Update](image)

2. Go to the Encoding tab.
3. On the Technology section, select Magnetic Encoding.

4. Under Settings, make the following adjustments:
   - Magnetic Encoding type = **Custom**.
   - Track 1 Type = **ISO**.
   - Under Encode/Read data, check **Hex**.
5. Under Track 2 tab, change the Type to ISO.
6. Under **Track 3** tab, change these fields to:
   - Type = *Custom*.
   - Bit Density = \(210\)
   - Character size = \(4\)
7. Click Save.
8. On Magnetic encoding values saved successfully prompt, click OK.
9. Using the figure below as your reference, make sure the settings are correct, and then click OK.
Figure 4-14 - Final Magnetic Encoding
5. **Management Setup**

The following steps describe how to connect the installed Zebra ZXP SERIES 7 printer to the Management module.

### 5.1. Hardware configuration

1. Copy the `ZMotifPrinter.dll` file to Fidelio Cruise application folder.

   **Note:** The required DLL file ZMotifPrinter.dll is downloadable from Fidelio Cruise FTP: `/Fidelio/Fidelio Cruise SPMS/Release730/Hardware Drivers/Zebra/ZXP Series 7`.

2. Launch Management module, and select Options from the menu bar.
3. In the Options window, click the Hardware tab.
4. In the Report Printers section, select Cards, and then navigate to Card Printer combo box and choose “Zebra ZXP7” from the drop-down.

![Figure 5-1 - Management module Hardware Options](image)

5. Click on the Discover Zebra Printer to locate the Zebra ZXP Series 7 printer.
6. The application will search the network and display the network printer IP in the Zebra Device Name dropdown menu. Choose the printer from the list.
7. Select the card coercivity from the Coercivity dropdown list.
8. Select Yes for Encode Door Lock (Track #3) Key.
9. Next to Properties, click the drop-down and select the installed printer from the list.

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

![Image](image.png)

**Figure 5-2 - Management module Coercivity selection**

### 5.2. Crystal Report Setup

1. Open the **PAX Card** report template with Crystal Report.
2. Go to the **Details** section.
3. Add 3 of these formulas in following sequence, then change the font size to 1.

\[ \text{sselstring2} = \text{sselstring2} \] \[ \text{sselstring3} = \text{sselstring3} \] \[ \text{sselstring4} = \text{sselstring4} \]

4. Select File, Printer Setup.

On the Print Setup screen, check No Printer, and then click OK to close.
5. Save the report template, and then upload into the Administration module.
6. Under Report Setup, add these 3 formulas to Formula section.
   \[ \text{sselstring2} = '[$sselstring2]' \text{~} \text{sselstring3} = '[$sselstring3]' \text{~} \text{sselstring4} = '[$sselstring4]' \]

7. Save the report template.
6. RFID Handling

The Zebra ZXP SERIES 7 comes with a built inlay antenna that supports UHF RFID frequency bands (860-960 MHz). An SDK Installation and Omnikey Driver is required prior to using the RFID feature.

6.1. SDK Installation

1. Run ZXP SERIES 7SDK ZMotifSDKs_64_v3_0_4.msi as Administrator.
2. On the Welcome screen, click Next.

![SDK Setup](image)

Figure 6-1 - SDK Setup

3. On the License Agreement screen, select ‘I Agree’, and then click Next.
4. On the Select Installation Folder screen, select to install the SDK for ‘Everyone’, and then click Next to accept the default installation folder.
5. On the Confirm Installation screen, click Next to proceed.
6. On the Installation Complete screen, click Close to exit.

7. Upon successful installation, the program is shown in Control Panel, Programs and Features screen.
6.2. Omnikey Driver Installation

1. Disconnect ZXP SERIES 7 USB printer cable from the computer.
2. Unzip the Omnikey_5x2x_unattended_w7_x64_r1_2_26_140_0.zip to a Temp folder.

![OMNIKEY setup file](image)

3. Right-click and select Run as Administrator on HID_Omnikey_5x2x_unattended_w7_x64_r1_2_26_140_0.exe to install.

![Omnikey Installation](image)

4. On the License Agreement screen, select I accept the terms in the license agreement, and then click Next.
5. Click Install to begin the installation.
6. Setup Status screen is shown, displaying the progress of the driver installation.
7. Once the installation is complete, click Finish to exit the wizard.
8. Reconnect the ZXP SERIES 7 USB printer cable to the computer.
9. Configure the Hardware in Management module, Options, Hardware. Refer to Hardware configuration for instructions.

Note: For PC operating on Windows 8 OS, change the compatibility mode to Windows 7 before installing.
6.3. Management Setup

1. For RFID printing, repeat the process in Chapter 5.1 - Hardware configuration.

   **Note:** In point 5.1.4, choose “Zebra ZXP7 RFID” printer from the drop-down instead of Zebra ZXP7.

2. Ensure the following fields are correctly set:
   - Encode Door Lock (Track #3) = Yes
   - Omnikey CardMan 5x21-CL 0 is link.

![Figure 6-7 - RFID Setup](image)