

# FS/VS Smart Camera



**ZEBRA**

## **License Upgrade User Guide**

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# About This Guide

This guide provides details license acquisition methods for utilizing specific toolsets in Zebra Aurora.



**IMPORTANT:** If you have a problem with your equipment, contact Zebra Global Customer Support for your region. Contact information is available at: [zebra.com/support](https://zebra.com/support).

## Service Information

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When contacting support, please have the following information available:

- Serial number of the unit
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## Revision History

Changes to the original guide are listed below:

Change	Date	Description
-02 Rev A	7/22	Feature updates in this version include: <ul style="list-style-type: none"><li>• Offline License Acquisition</li><li>• Instructions for Obtaining Activation and Device ID</li><li>• License Types</li></ul>
-01 Rev A	7/21	Initial Release

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# FS/VS License Upgrade

FS Decode and VS Machine Vision Toolsets require a valid license to be installed on the device. Licenses can be activated using the Web HMI. This guide includes instructions on expanding the toolset of Zebra Aurora by upgrading the license. For more information on using the FS/VS Smart Camera, refer to the Product Reference Guide.

## Acquiring a License

For the customers, partners, and distributors that require a FS/VS Industrial Scanner product license for FS Decode and VS Machine Vision Tools through your Account Manager.

A perpetual license is a permanent license that is available for the lifespan of the device.

## License Acquisition Modes

A license for the device may be acquired in an online or offline mode.

- Licensing Server (Online mode)
- Bin File (Offline Mode)



**NOTE:** This upgrade and deactivation process for a license requires the device to be connected to an Ethernet network with an active Internet connection. The device cannot utilize a computer's Internet connection (over USB-C or direct Ethernet connection to the computer) to perform the upgrade.

## Acquiring an Activation ID

The Activation ID is the unique 32-bit alpha-numeric number provided when the license is procured. This number acts as the key to enable the device to activate the license. An example of the Activation ID is **4a69-7ed6-ffec-4448-8874-d155-2fcd-a2cd**.



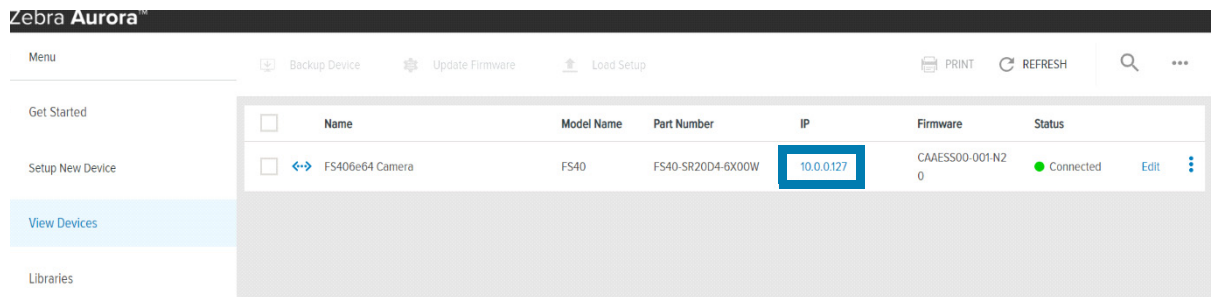
**NOTE:** Refer to the link shared via e-mail when the license is procured for credentials.

## Acquiring License from the Licensing Server (Online)

This is the default license acquisition in online mode. The device must have an Internet connection to acquire a license from the licensing server. The license server is hosted on the cloud and the device contacts the cloud-based license server to acquire licenses.

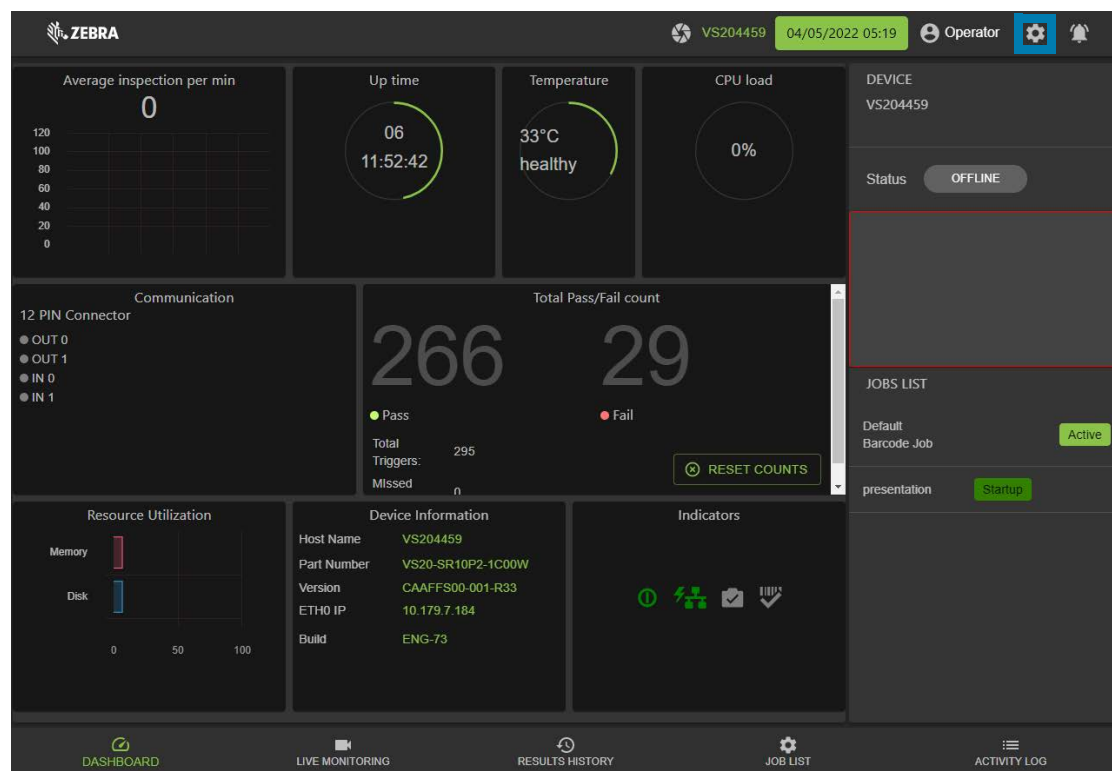
1. Open the web Human-Machine Interface (HMI) by entering the device's IP address into a web browser or clicking the IP address link under **View Devices** in Zebra Aurora.

**Figure 1** Zebra Aurora - View Devices



2. Log into the HMI using the default credentials for an administrator account:
  - a. Username: admin
  - b. Password: admin
3. Select the gear icon to access the settings menu.

**Figure 2** Web HMI



Select the **Licensing** tab.

To acquire licenses from the Licensing Server:

1. Select the **Online** option from the **ACQUIRE LICENSE METHOD** as shown in [Figure 3](#).
2. Enter the following Licensing Server URL in the **LICENSING SERVER URL** form field:
  - [zebra-licensing.flexnetoperations.com/flexnet/deviceservices](https://zebra-licensing.flexnetoperations.com/flexnet/deviceservices)

**Figure 3** Manage License

ACQUIRE LICENSE METHOD

☒ Online ☐ Offline

LICENSING SERVER URL

https://zebra-licensing-uat.flexnetoperat

ACTIVATION ID

p138-f432-4eca-470c-8d74-6838-0c41-


ACTIVATE LICENSE

Enter the 32-byte [Acquiring an Activation ID](#) that is provided via e-mail when the license is procured.


To circumvent a firewall while contacting the cloud-based license server, set up a proxy server.

For detailed instructions, visit: [supportcommunity.zebra.com/s/article/ZSL-Licensing-Server-Connectivity](https://supportcommunity.zebra.com/s/article/ZSL-Licensing-Server-Connectivity)

Click **ACTIVATE LICENSE** to acquire the license. An Available License(s) list displays (see [Figure 4](#)) and includes the following information:

- **License Index:** Lists the license number.
- **License Name:** This is the feature name of license, such as “xS-feature-vspkg”.
- **License Version:** Lists the license version number.
- **Expiration Date:** Expiration date for the trial license. For the Perpetual license, this field shows permanent.
- **License Count:** Lists the number of licenses allocated to the device.
- **Host ID:** A unique number for the license server to identify the device. This number has both Part Number and Serial number of devices. The example shown below is **VS40-WA50P4-2100W\_12345678901234**.
- **Release:** Click button  to release the license back to license server from device.

**Figure 4** ACTIVE LICENSES

ACTIVE LICENSES						
License Index	License Name	License Version	Expiry Date	License Count	Host ID	Release
1	xS-feature-vspkg	3.0	permanent	1	VS40-WA50P4-2100W_000072	

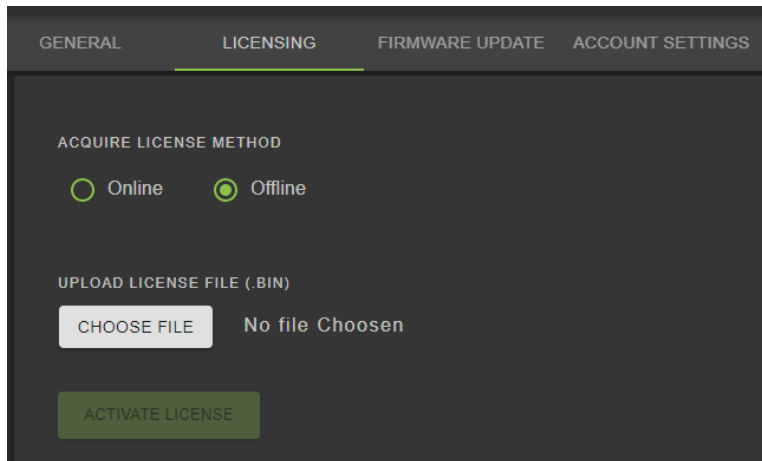
## Acquiring License by Downloading Bin File (Offline)

Use the offline method of license acquisition when Internet connection is not available. The Capability Response must be downloaded from the server to acquire a license with this method. See [Downloading the Capability Response](#) for more details.

To acquire the license in the offline mode:


1. Download the Capability Response (see [Downloading the Capability Response](#)).
2. On the **Licensing** screen, select the offline option from the **ACQUIRE LICENSE METHOD** option.

**Figure 5** Manage License - Offline Mode



3. Click **CHOOOSE FILE** and locate the bin file downloaded in [Downloading the Capability Response](#).
4. Click **ACTIVATE LICENSE** button to activate the license. An Available License(s) list displays.

**Figure 6** Available License - Offline

ACTIVE LICENSES						
License Index	License Name	License Version	Expiry Date	License Count	Host ID	Release
1	xS-feature-fast1D2D	1.0	permanent	1	VS40-WA50P4-2100W_000072	

5. Start a new job in Zebra Aurora to utilize the upgraded toolset.
  - a. Close any current jobs if they are still open in the application.
  - b. Starting a new job shows the newly enabled tools available with the upgraded license.



**NOTE:** The device name, model name, and part number remain unchanged after a license upgrade. The changes based on the newly upgraded license are implemented upon the creation of a new Job.

## Downloading an Offline License from the Licensing Server

Ensure that you have the **Device ID** and the **Activation ID** information prior to downloading the capability response. For additional information, refer to [Obtaining the Device ID](#) and [Acquiring an Activation ID](#).



## Obtaining the Device ID

The Device ID is the unique identification number of the device on the Zebra Licensing Server. The Device ID must be in the format <Part Number>\_<Serial\_Number>.

For example, FS40-WA50F4-2C00W\_12345678901234, where

- The Part Number is xS10, xS20, xS40 or xS70.
- The Serial Number is a 14-digit number.

Look for the Part Number and the Serial Number from Zebra Aurora, Web HMI, or on the label of device.

**Figure 7** Device Label



**Figure 8** Device Part Number (from Web HMI)

Device Information	
Host Name	FS4083DF
Part Number	FS40-WA50F4-2C00W
Version	CAAESS00-001-R38

**Figure 9** Device Part Number and Serial Number (from Aurora)

### Device Info

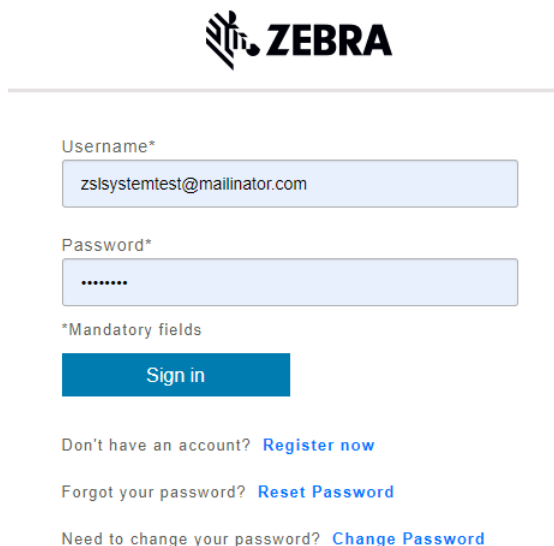
Model	FS40
IP	192.168.1.12
Part Number	FS40-WA50F4-2C00W
Serial Number	12345678901234

## Downloading the Capability Response

To download the Capability Response from the licensing server:

1. Log in before entering the Zebra Licensing Server at [zebra-licensing.flexnetoperations.com/](https://zebra-licensing.flexnetoperations.com/).
2. Enter the **Username** and **Password**.

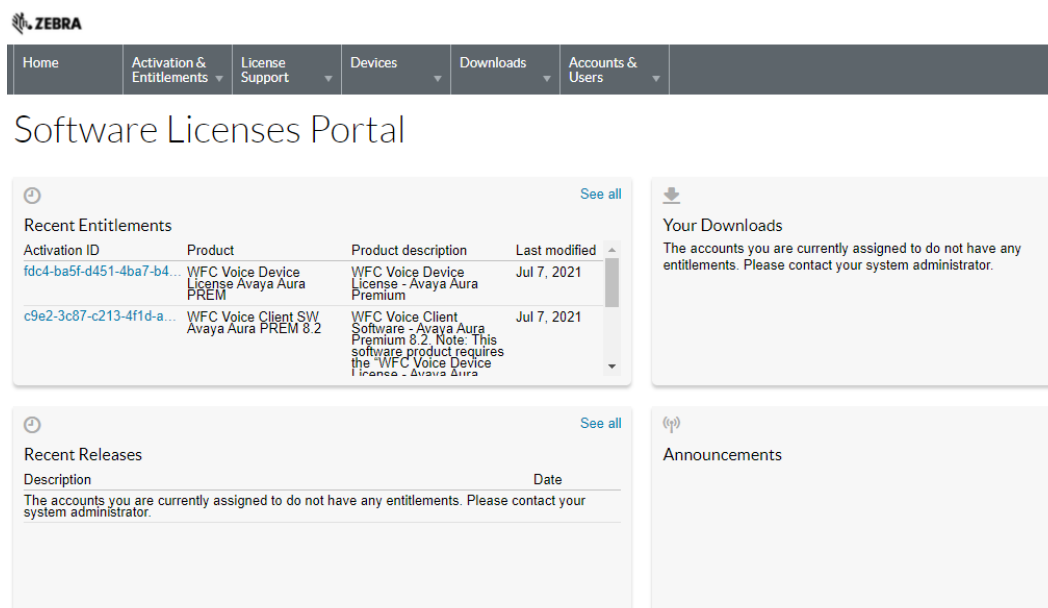
**Figure 10** Zebra Licensing Server Login Window



The login window features the Zebra logo at the top. Below it, there are two input fields: 'Username\*' with the value 'zslsystemtest@mailinator.com' and 'Password\*' with masked characters. A note indicates that both fields are mandatory. A blue 'Sign in' button is positioned below the password field. At the bottom, there are three links: 'Don't have an account? Register now', 'Forgot your password? Reset Password', and 'Need to change your password? Change Password'.

3. The **Home** screen displays:

**Figure 11** Software Licenses Portal Home Screen



The home screen of the Software Licenses Portal. It features a navigation bar with the Zebra logo and several menu items: Home, Activation & Entitlements, License Support, Devices, Downloads, and Accounts & Users. The main content area is divided into four sections: 'Recent Entitlements' (a table with columns for Activation ID, Product, Product description, and Last modified), 'Your Downloads' (a message stating that the user has no entitlements), 'Recent Releases' (a table with columns for Description and Date), and 'Announcements' (a section for system updates).

Activation ID	Product	Product description	Last modified
fdc4-ba5f-d451-4ba7-b4...	WFC Voice Device License - Avaya Aura PREM	WFC Voice Device License - Avaya Aura Premium	Jul 7, 2021
c9e2-3c87-c213-4f1d-a...	WFC Voice Client SW - Avaya Aura PREM 8.2	WFC Voice Client Software - Avaya Aura Premium 8.2. Note: This software product requires the WFC Voice Device License - Avaya Aura	Jul 7, 2021

4. Select the **Devices** tab drop-down arrow to select **Create Device**. A **New Device** screen displays (see [Figure 12](#)).



**NOTE:** VS40-WA50P4-2100W\_12345678901234 is used as an example.

5. On the **New Device** screen:

- Enter the **ID** in the format **<Part\_Number>\_<Serial\_Number>** (see [Obtaining the Device ID](#) for more details).
- Enter the **Name** which is same as the **ID**. Do not select the **Runs license server** checkbox and leave **Site Name** empty.
- Pick your **Account** from drop down list.



**NOTE:** Zebra (Zebra Technologies) used as an example.

**Figure 12** Create New Device Screen

Device New Device

Name:\* VS40-WA50P4-2100W\_123456789

☐ Runs license server?

ID Type:\* STRING

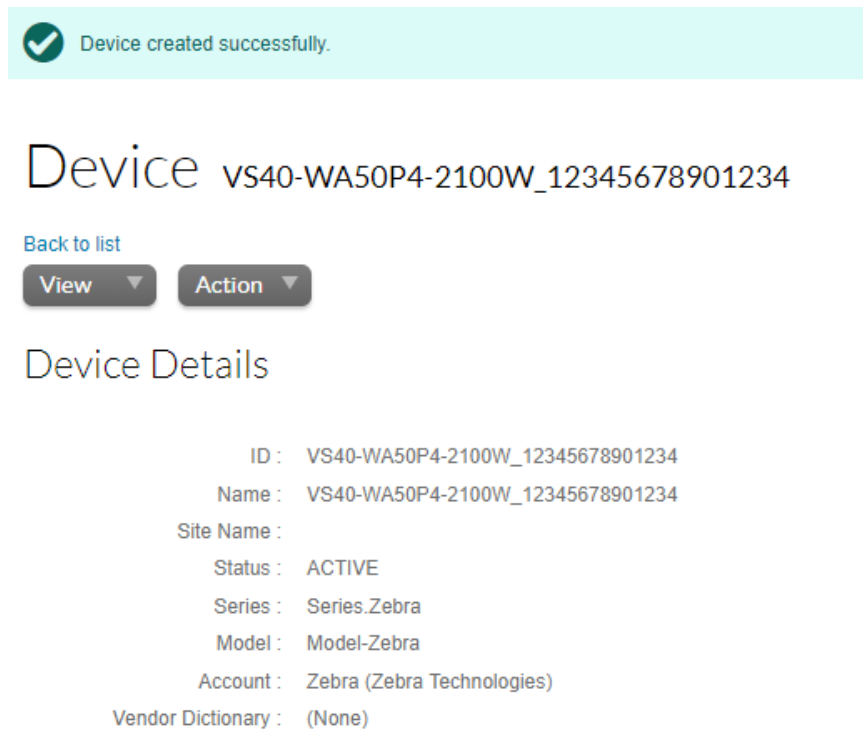
ID:\* VS40-WA50P4-2100W\_123456789

Account: Zebra (Zebra Technologies)

Site name:

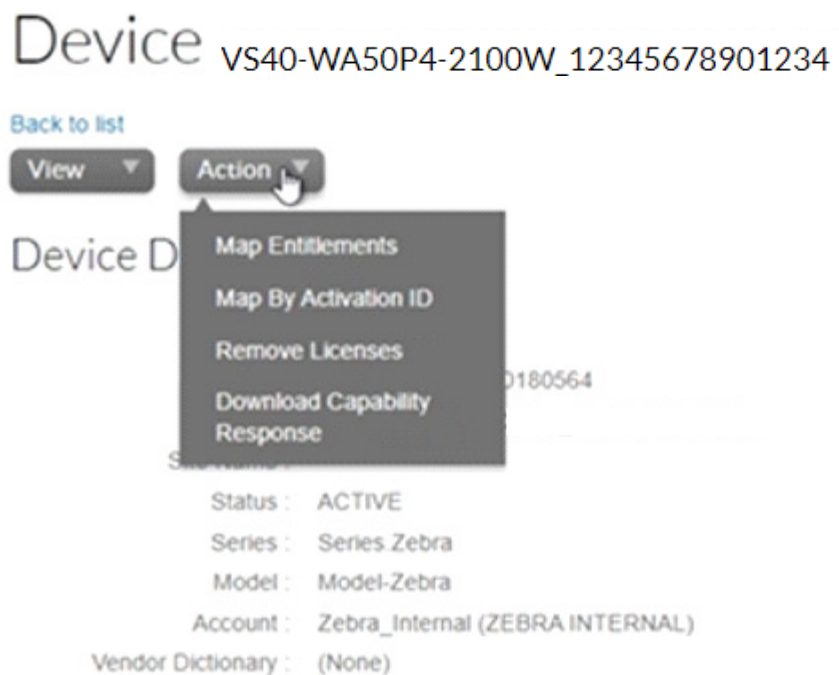
6. Click **Save**. The **Device created successfully** message displays when the device is successfully registered.

**Figure 13** View Device Screen



7. Select **Action** to expand the drop-down list.
8. Next, select **Map By Activation ID**.

**Figure 14** View Device Action Drop-Down Menus



9. In the **Map by Activations IDs** screen, enter the Activation ID. If you have multiple IDs, ensure that each ID is entered on a new line.

**Figure 15** Map by Activation IDs Screen

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Home Activation & Entitlements License Support Devices Downloads Accounts & Users

## Map by Activation IDs

Device ID:  
VS40-WA50P4-2100W\_12345678901234

Activation IDs (one per line):  
b138-f432-4eca-470c-8d74-6838-0c41-4dd1

Validate Cancel

10. Click **Validate**. The **Validation successful** message displays when the Activation ID is successfully validated.

11. Edit the **Qty to add** for all of the licenses that are mapped to a single device.



**NOTE:** For a standalone license, the value is 1.

12. Click **Save**.

**Figure 16** Activation ID Validation Successful

Validation successful

## Map by Activation IDs

Device ID:  
VS40-WA50P4-2100W\_12345678901234

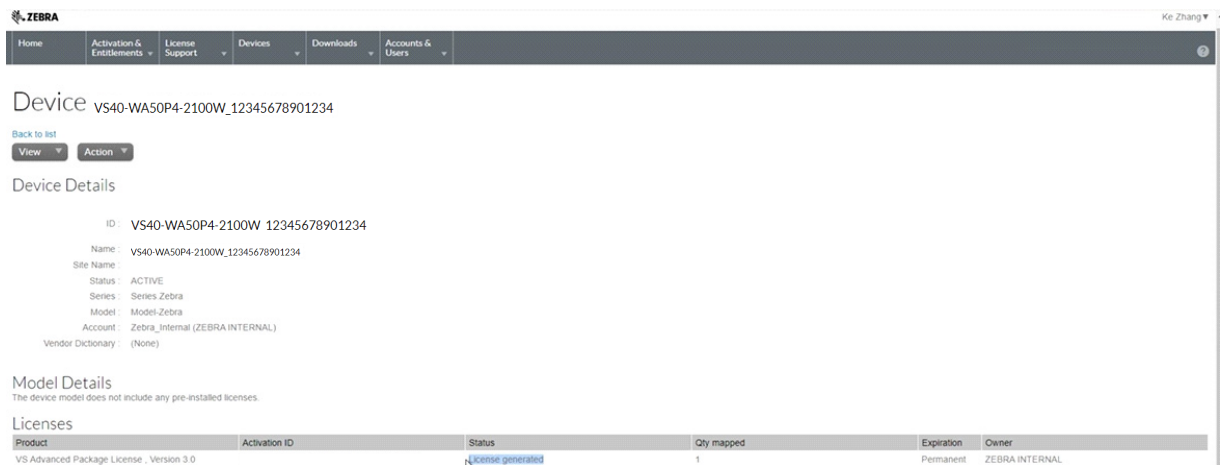
Re-Validate

Qty to add	Available qty	Activation ID	Product	Expiration
1	138	b138-f432-4eca-470c-8d74-6838-0c41-4dd1	VS Advanced Package License, Version 3.0	Permanent

Save Cancel

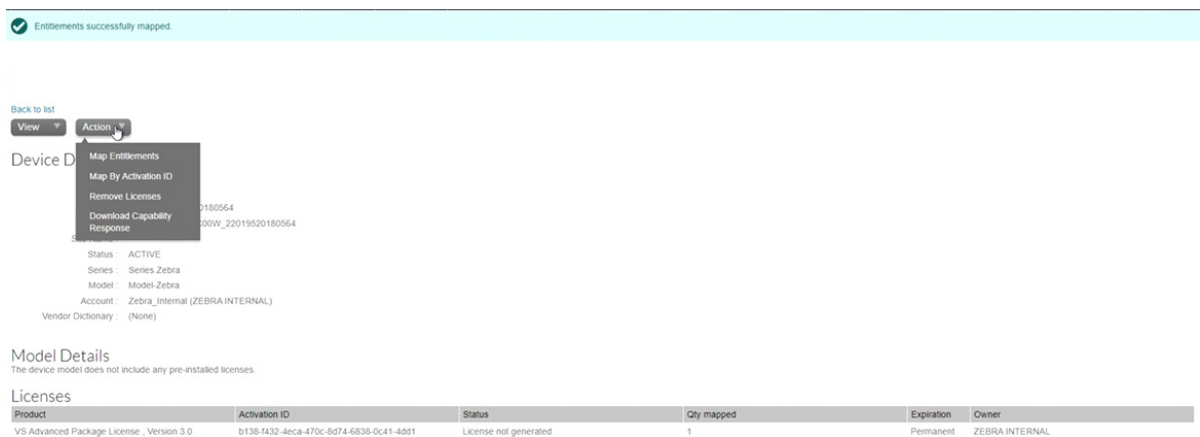
13. The page displays a **Entitlement successfully mapped** message.

**Figure 17** Device Entitlement Successfully Mapped



14. Click **Action** to expand the drop-down list. Next, select **Download Capability Response**. The bin file is available in the Download folder.

**Figure 18** View Device Action Drop-Down Menus



After the download is complete, verify that the device is accessible in the directory.

1. Click the **Devices** tab to enter Device Screen.
2. On the Devices screen:
  - a. Click the drop-down arrow next to the Filter icon to select **Device ID**.
  - b. Enter the Device ID VS40-WA50P4-2100W\_ 12345678901234 next to **Search**.
  - c. Click **Search** and the entitled devices are listed.

**Figure 19** Device Screen

Devices

Create Device

1 Results

Device name VS40-WA50P4-2100W\_1 Search +

Name	ID	Type	Account	Licenses	Last Modified
VS40-WA50P4-2100W_12345678901234	VS40-WA50P4-2100W_12345678901234 (STRING)	Standalone Device	Zebra (Zebra Technologies)		Jul 06, 2022

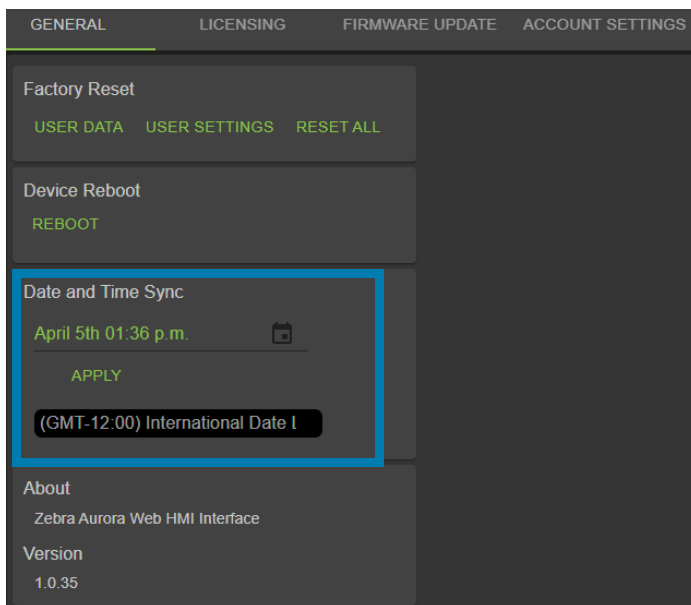
## Time Tampering

License operations such as acquiring and returning licenses are time dependent operations. The device must be configured with the current date and time. Failing to do so results in error when acquiring and releasing licenses. The device time can be set automatically via the NTP server or configured manually in the **Date and Time Sync** window.



**NOTE:** Clock Wind Back detection is enabled in the firmware. Any back tracking of date or time results in a license error.

**Figure 20** Time Setting





# Returning a License



**NOTE:** The device must be connected to the Internet to return a license.

Users can return the license back to the cloud server regardless of the method used to initially acquire the license (offline or online).

- 1. On the **LICENSING** screen, select the Online option in the **ACQUIRE LICENSE METHOD** section.

**Figure 21** Manage License - Return License

GENERAL

LICENSING

FIRMWARE UPDATE

ACCOUNT SETTINGS

ACQUIRE LICENSE METHOD

Online

Offline

LICENSING SERVER URL

https://zebra-licensing.flexnetoperations

ACTIVATION ID

Enter Activation id

ACTIVATE LICENSE

ACTIVE LICENSES

License Index	License Name	License Version	Expiry Date	License Count	Host ID	Release
1	xs-feature-fast1D2D	1.0	permanent	1	VS40-WA50P4-2100W_000072	

- 2. In the **LICENSING SERVER URL** field, enter the licensing server URL from which the license is acquired.

- Licensing Server URL: [zebra-licensing.flexnetoperations.com/flexnet/deviceservices](https://zebra-licensing.flexnetoperations.com/flexnet/deviceservices)

- 3. Click the button to Release the license back to license server.
- 4. After removing the licenses, the empty **ACTIVE LICENSES** list window displays.

**Figure 22** Return License Back to Server

ACTIVE LICENSES

License Index	License Name	License Version	Expiry Date	License Count	Host ID	Release
1	xs-feature-fast1D2D	1.0	permanent	1	VS40-WA50P4-2100W_000072	

## License Types

The Web HMI refers to License Name when describing license types. The table below outlines the various licenses available and their corresponding License Name as referenced in the Web HMI.

**Table 1** Licenses

License Type	Version	License Name (Web HMI)
VS Sensor Package License	1.0	xs-feature-vspkg
VS Standard Package License	2.0	xs-feature-vspkg
VS Advanced Package License	3.0	xs-feature-vspkg
FS DPM Full Package License	3.0	xs-feature-fspkg
VS Trainable OCR License	1.0	xs-feature-trainOCR
FS Fast 1D/2D License	1.0	xs-feature-fast1D2D
FS DPM Lite License	1.0	xs-feature-DPMLite
Aurora Desktop Emulator License EVAL	1.0	aurora-feature-emulnodelock

