ADMINISTRATION GUIDE

Cloudpath Enrollment System RUCKUS Legacy Dynamic Pre-Shared Key (DPSK) Configuration Guide, 5.11

Supporting Cloudpath Software Release 5.11

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Overview of Ruckus Legacy DPSK Configuration

Ruckus Legacy DPSK creates dynamic pre-shared keys on the Ruckus WLAN controller. The controller creates a unique 63-byte encryption key for each user upon accessing the wireless LAN for the first time and then automatically configures end devices with the requisite wireless settings, such as SSID and unique passphrase, without manual intervention.

Ruckus Legacy DPSK is one of several encryption methods you can use with Cloudpath.

This guide provides the basic configuration steps you need to set up your Ruckus wireless controller (ZoneDirector or SmartZone) and Cloudpath system with Ruckus Legacy DPSK.

If you will be using a Ruckus ZoneDirector controller to set up DPSK, follow the procedures in these sections:

1. Configuring a DPSK WLAN on a Ruckus ZoneDirector Controller on page 4
2. Configuring DPSK on Cloudpath to Integrate with ZoneDirector on page 18

If you will be using a Ruckus SmartZone controller to set up DPSK, follow the procedures in these sections:

1. Conifguring a DPSK WLAN on a Ruckus SmartZone Controller on page 11
2. Configuring DPSK on Cloudpath to Integrate with SmartZone on page 29

Configuring a DPSK WLAN on a Ruckus ZoneDirector Controller

You can configure a DPSK WLAN on a Ruckus Wireless ZoneDirector controller so that you can then use DPSK as one method of onboarding users to Cloudpath.

Follow these steps to configure a DPSK WLAN on a Ruckus ZoneDirector controller.

> **NOTE**
> The procedure shown in this section is based on the user interface of a ZoneDirector controller version 10.0. Different versions of ZoneDirector may have minor differences in terms of which configuration options appear in what sections of a screen.

1. Log in to your Ruckus ZoneDirector controller.
2. Navigate to **Configure > WLANs**.

3. Under the WLAN List section, click **Create New**.

   The **Create New** section of the screen is displayed.

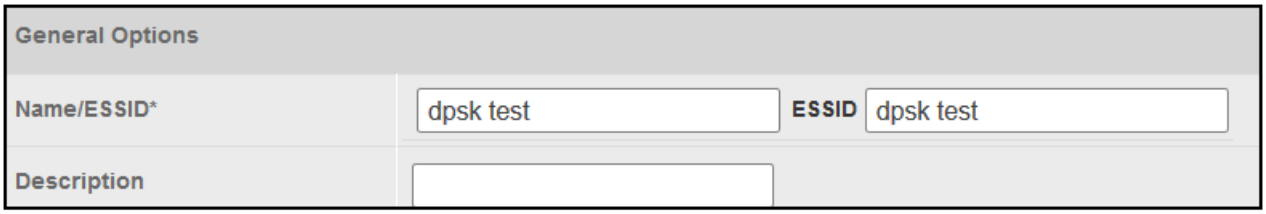
FIGURE 1 Create New WLAN on ZoneDirector

NOTE

Unless otherwise specified in the remaining steps, you do not have to change default values. The procedure described here is specific to Cloudpath; for information about any fields that are not described here, refer to your controller documentation.

4. Complete the General Options section:

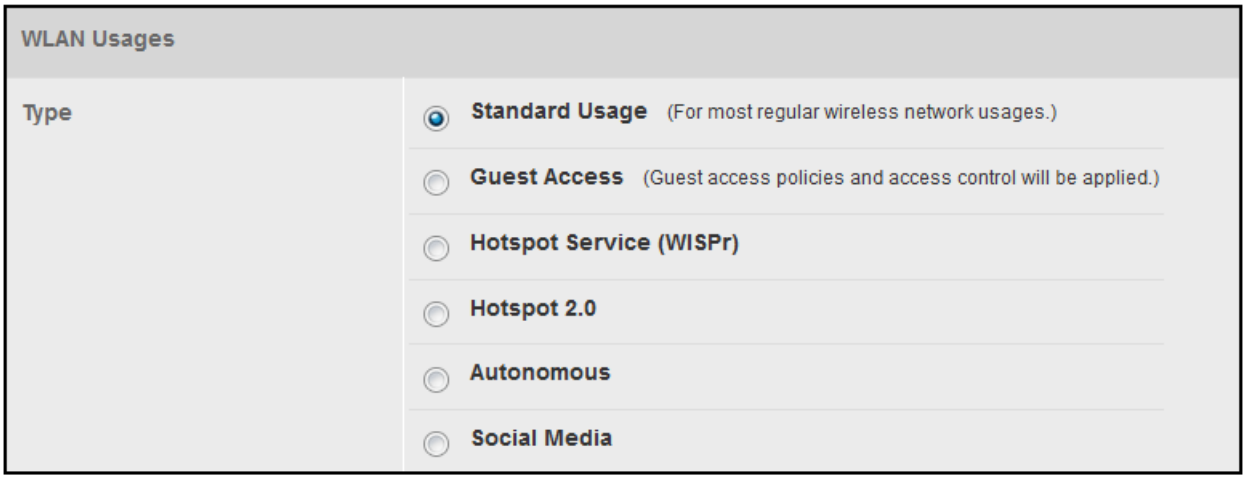
FIGURE 2 General Options Section of Creating a New WLAN



- Name: Enter a meaningful name for the DPSK WLAN you are creating.
- ESSID: When you click in this field, the name you entered in the Name field also appears in this field.

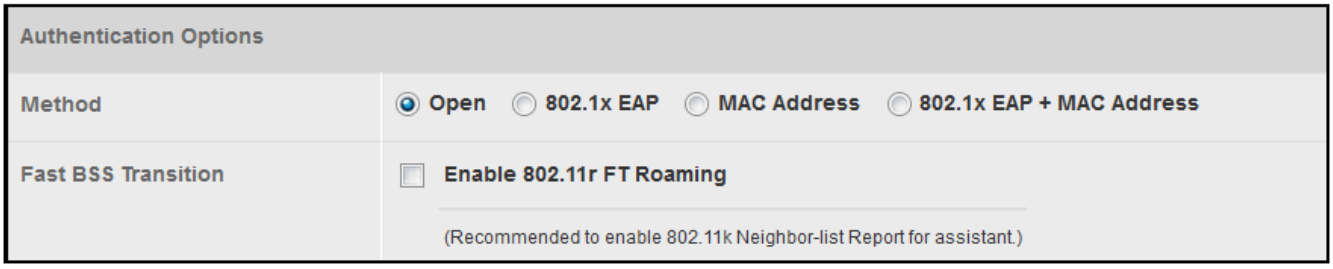
5. In the WLAN Usages section, use the default selection of Standard Usage.

FIGURE 3 WLAN Usage section of Creating a New WLAN



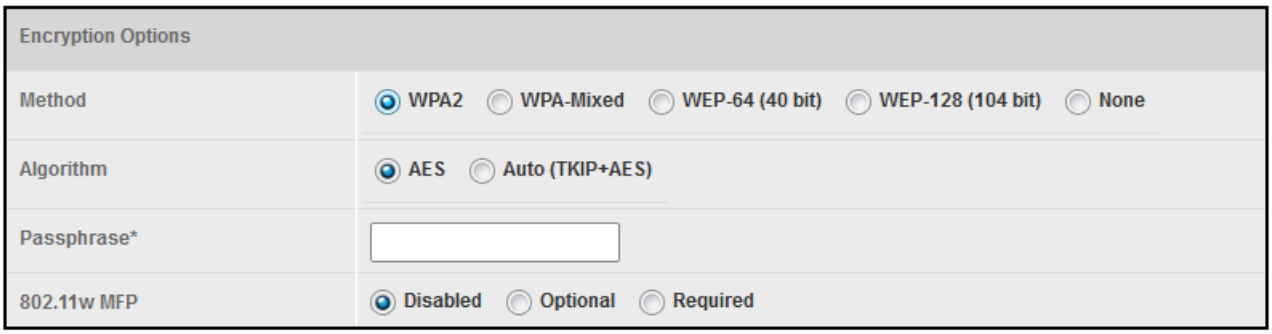
6. In the Authentication Options section, be sure that the default selection of Open is selected.

FIGURE 4 Authentication Options section of Creating a New WLAN



7. In the Encryption Options section, choose WPA2 for the Method. When you choose WPA2, the Encryption Options section expands:

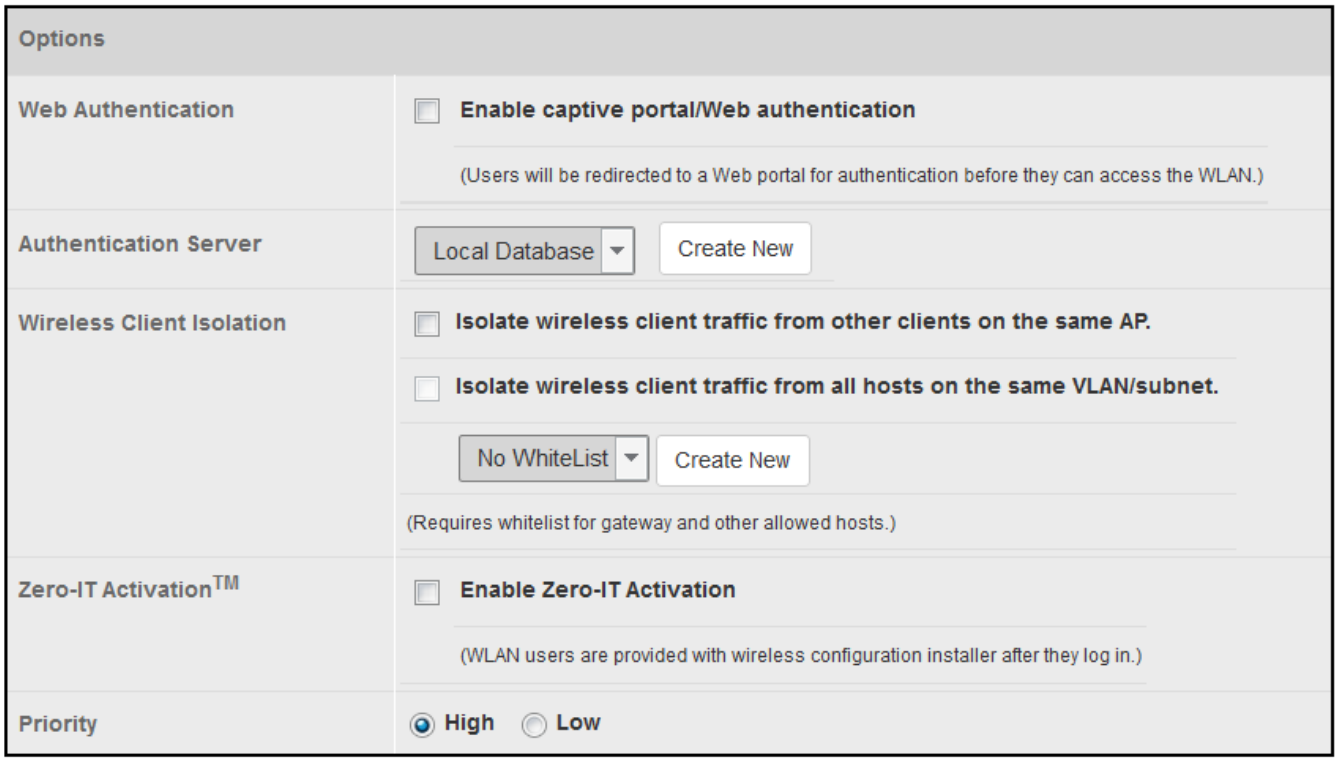
FIGURE 5 Encryptions Options section after choosing WPA2 as the Method



8. In the Algorithm field in the Encryption Options section shown above, be sure that the default value of AES is selected.
9. In the Passphrase field in the Encryption Options section shown above, enter a passphrase for the DPSK WLAN that you are creating, and make note of this passphrase. The minimum length is eight characters.

10. The Options section appears as follows in its default state, which is prior to you enabling Zero-IT Activation:

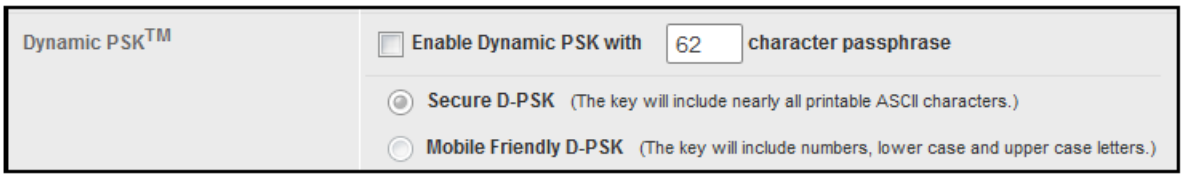
FIGURE 6 Options Section Before Enabling Zero-IT Activation



a) Check the Enable Zero-IT Activation box.

The Options screen expands to add Dynamic PSK:

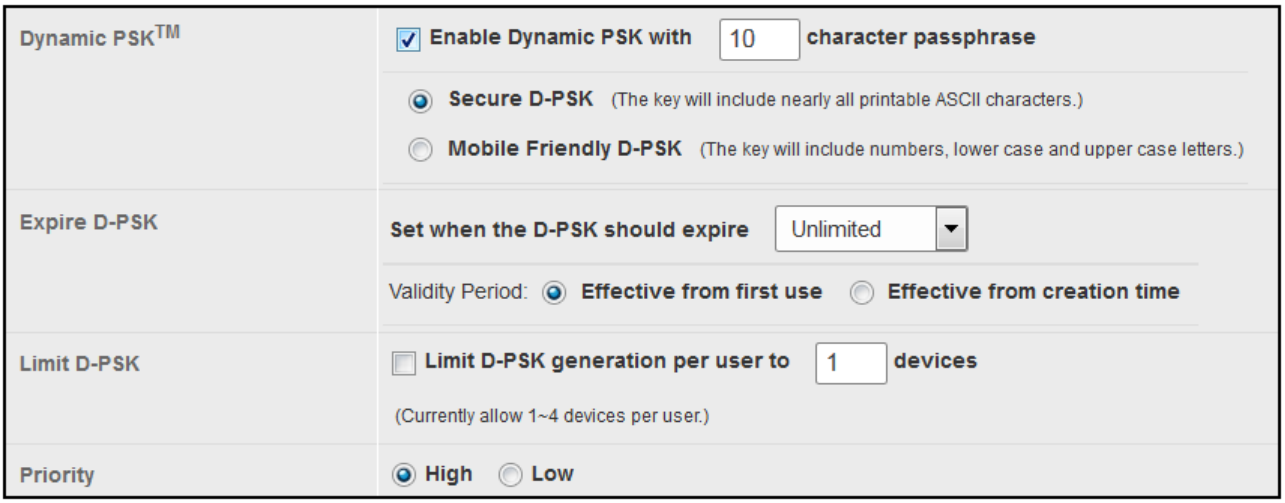
FIGURE 7 Dynamic PSK Added When You Enable Zero-IT Activation



b) Check the Enable Dynamic PSK box, and enter the number of characters you want to be required for the passphrase. Make sure that the value you select complies with the security policy of your company. The default is 62.

When you select the Enable Dynamic PSK checkbox, the Secure D-PSK option is automatically selected, and the Expire D-PSK and Limit D-PSK options appear.

FIGURE 8 Enabling Dynamic PSK



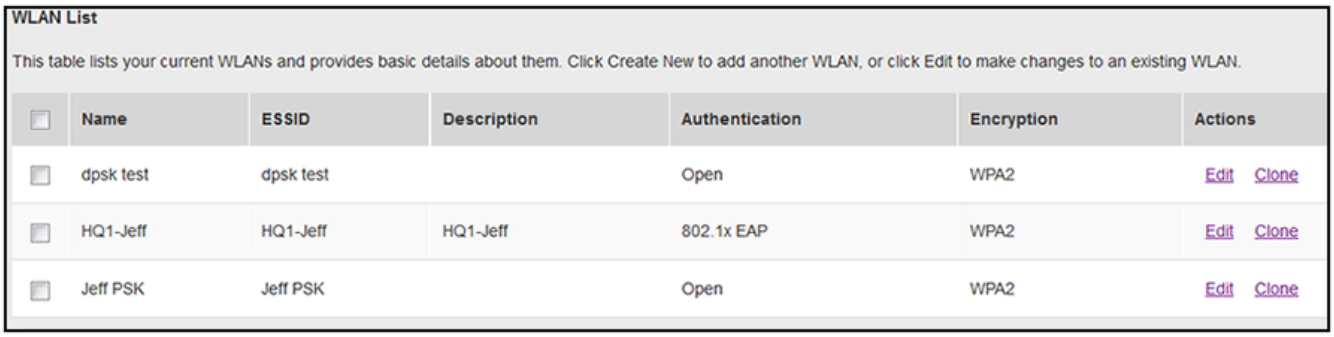
c) You can keep the Secure D-PSK option selected, or you can choose Mobile Friendly D-PSK instead, based on the security policy of your company.

d) For the Expire D-PSK and Limit D-PSK options, you can again keep the default values or change them, based on the security policy of your company.

11. In the Advanced Options section, there are many fields (not shown here), but you can also use all the default values.
12. Click **OK**.

Your newly created DPSK WLAN should now appear in the WLAN List at the top of the WLANs screen, "dpsk test" in this example:

FIGURE 9 Newly Created WLAN Appears in WLAN List



To review the completed configuration or to make any configuration changes, click the **Edit** button.

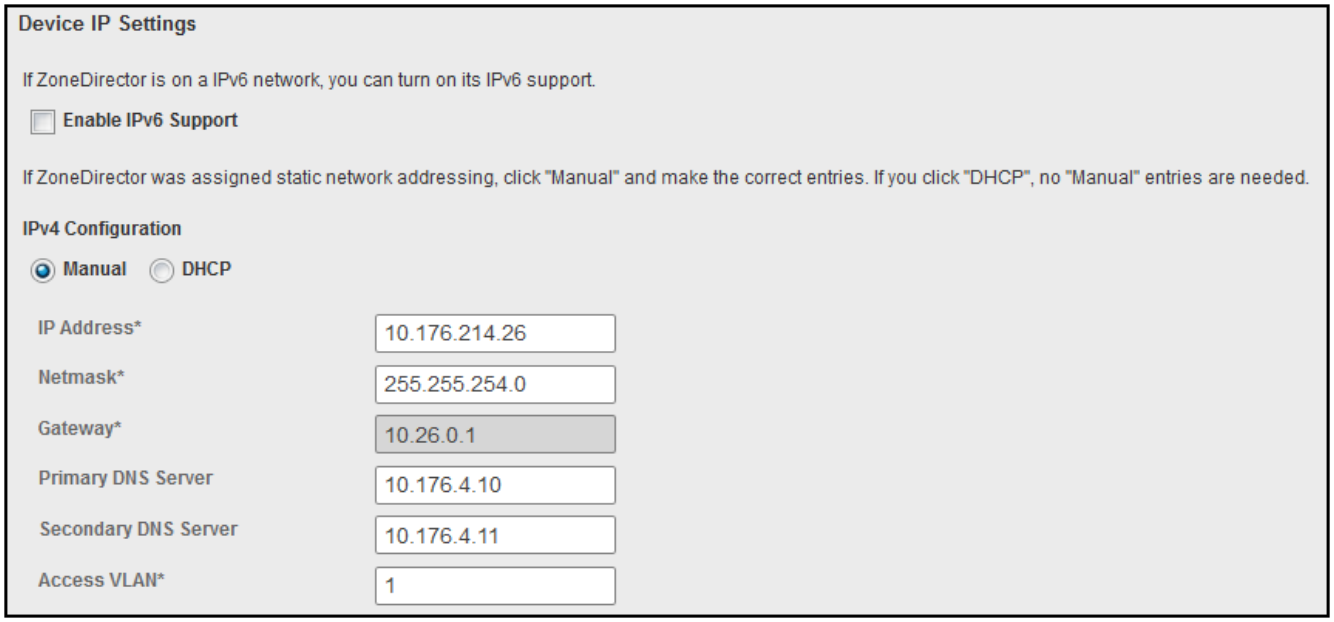
Before you configure your Cloudpath system to use the DPSK WLAN you just created, you need to obtain some information about the ZoneDirector controller that you will need when you perform configuration on your Cloudpath system. Refer to the following section.

Obtaining Information about the ZoneDirector Controller

You will need the following information when you perform the necessary configuration in Cloudpath.

- Obtain the local device IP address of your ZoneDirector controller. Navigate to **Configure > System**. In the Device IP Settings section of the screen, shown below, locate the IP address, which is 10.176.214.26 in the screen below. Be sure to write down this IP address because you will need it for the configuration in Cloudpath.

  FIGURE 10 Obtaining the Local Device IP Address of the ZoneDirector



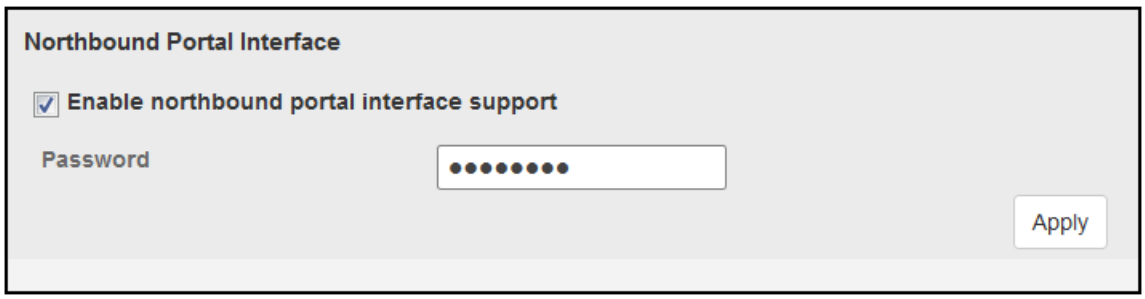
- Enable Northbound Portal Interface Support. Navigate to **Configure > System**. Scroll down until you locate the "Network Management" section of the screen, then click on it to expand it.

  Then, scroll up until you locate the Northbound Portal Interface section, shown in the illustration below.

  Check the box to enable Northbound Portal Interface Support, then create a Password. Click **Apply**.

  NOTE
  Be sure to write down the password you create for the Northbound Interface because you will need it when you perform the corresponding configuration on your Cloudpath system.

FIGURE 11 Enabling Northbound Portal Interface Support on ZoneDirector



Now, proceed to Configuring DPSK on Cloudpath to Integrate with ZoneDirector on page 18.

Conifguring a DPSK WLAN on a Ruckus SmartZone Controller

You can configure a DPSK WLAN on a Ruckus Wireless SmartZone controller so that you can then use DPSK as one method of onboarding users to Cloudpath.

Follow these steps to configure a DPSK WLAN on a Ruckus SmartZone controller.

NOTE
The procedure shown in this section is based on the user interface of a SmartZone controller version 3.5.1. Different versions of SmartZone may have minor differences in terms of which configuration options appear in what sections of a screen.

1. Log in to your Ruckus SmartZone controller.
2. Click the **Wireless LANS** tab.

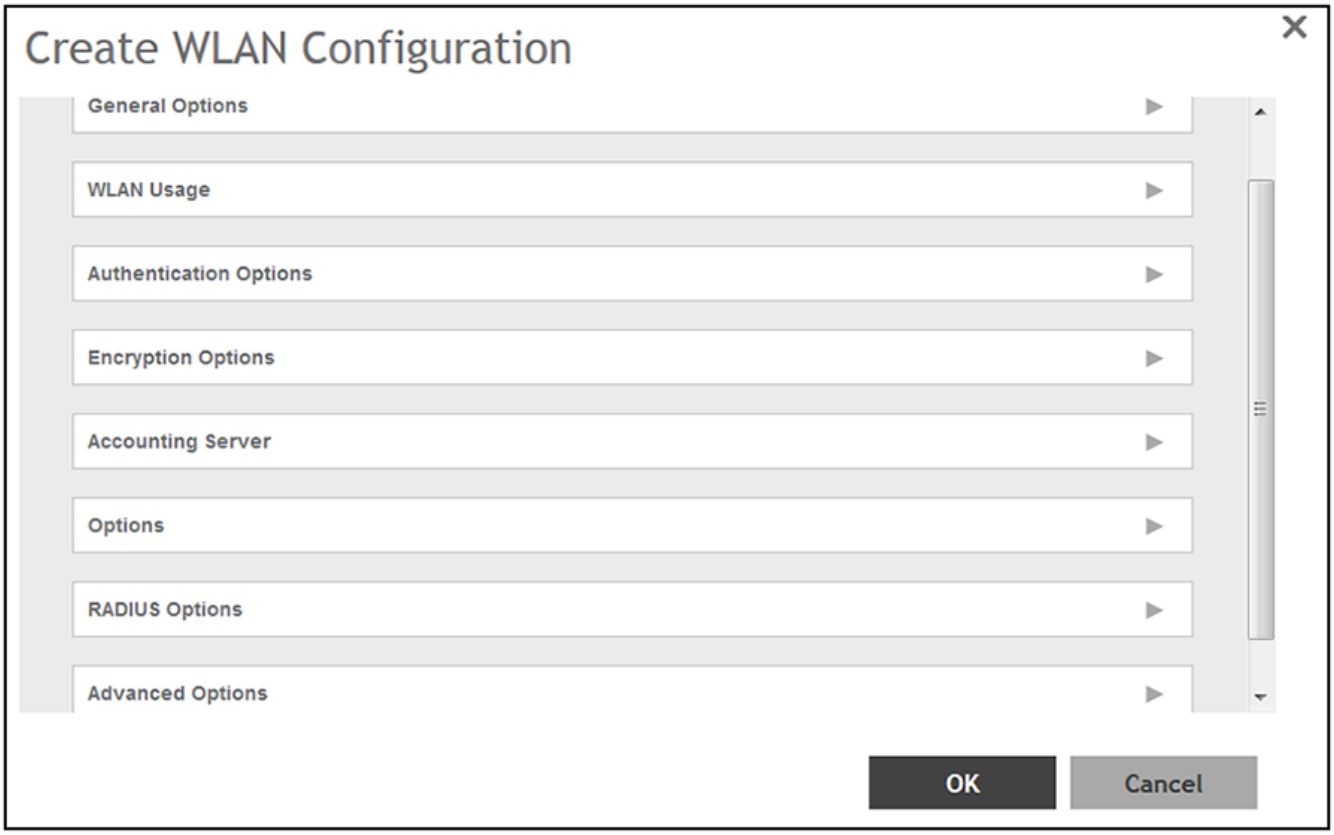
   The following screen appears:

FIGURE 12 Wireless LANs Screen

3. On the Wireless LANs screen, click the **+ Create** button.

   The Create WLAN Configuration appears. This screen is shown below (with each area of the screen in a collapsed view):

FIGURE 13 Create WLAN Configuration Screen on SmartZone



NOTE

Unless otherwise specified in the remaining steps, you do not have to change default values. The procedure described here is specific to Cloudpath; for information about any fields that are not described here, refer to your controller documentation.

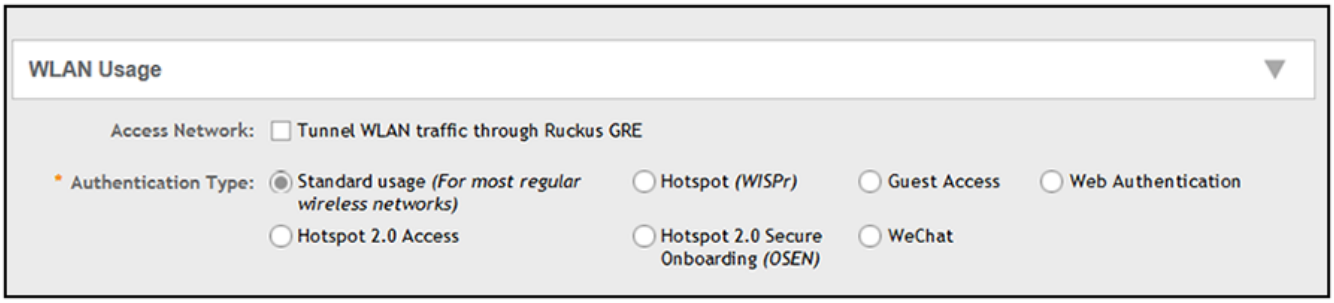
4. Complete the General Options section of the screen:

FIGURE 14 General Options Section of the Create WLAN Configuration Screen

- Name: Enter a meaningful name for the DPSK WLAN you are creating.
- SSID: When you click in this field, the name you entered above also appears in this field.
- Zone: From the drop-down list, select the zone in which the DPSK WLAN will reside. This can be the default zone.

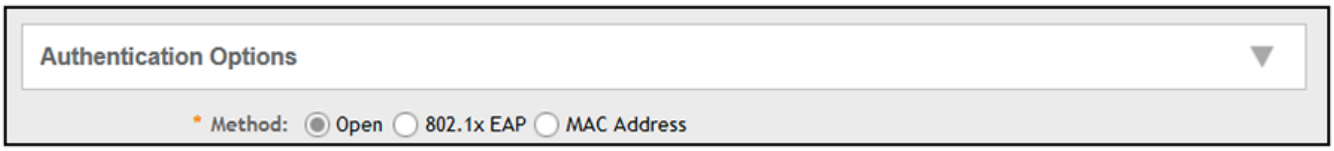
5. In the WLAN Usage section of the screen, use the default selection of Standard usage.

FIGURE 15 WLAN Usage section of the Create WLAN Configuration Screen



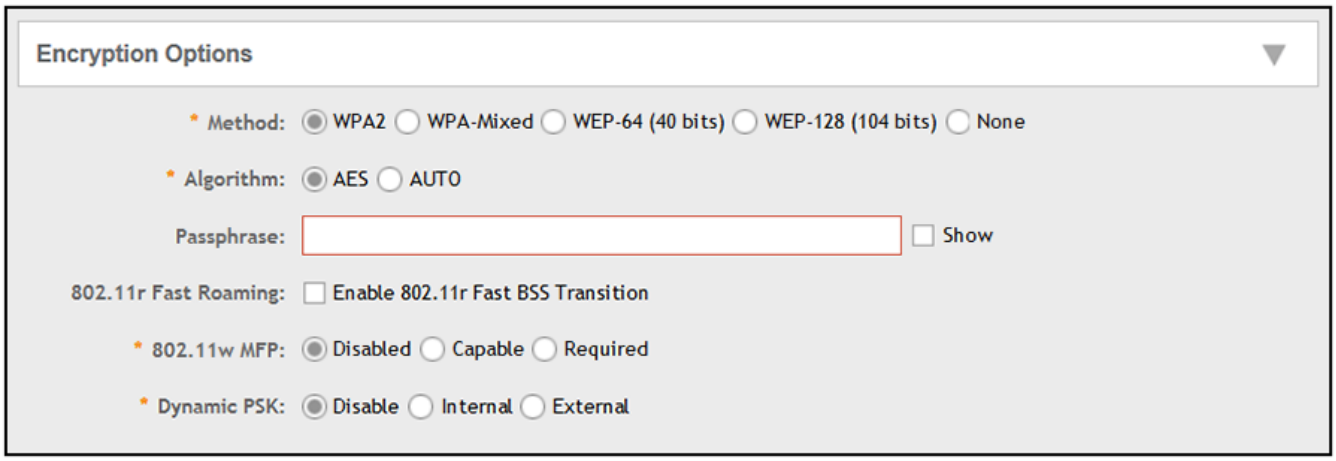
6. In the Authentication Options section of the screen, be sure that the default selection of Open is selected.

FIGURE 16 Authentication Options section of the Create WLAN Configuration Screen



7. In the Encryptions Options section of the screen, you must select "WPA2," which expands the section as follows:

FIGURE 17 Encryption Options Section After Selecting WPA2 Method



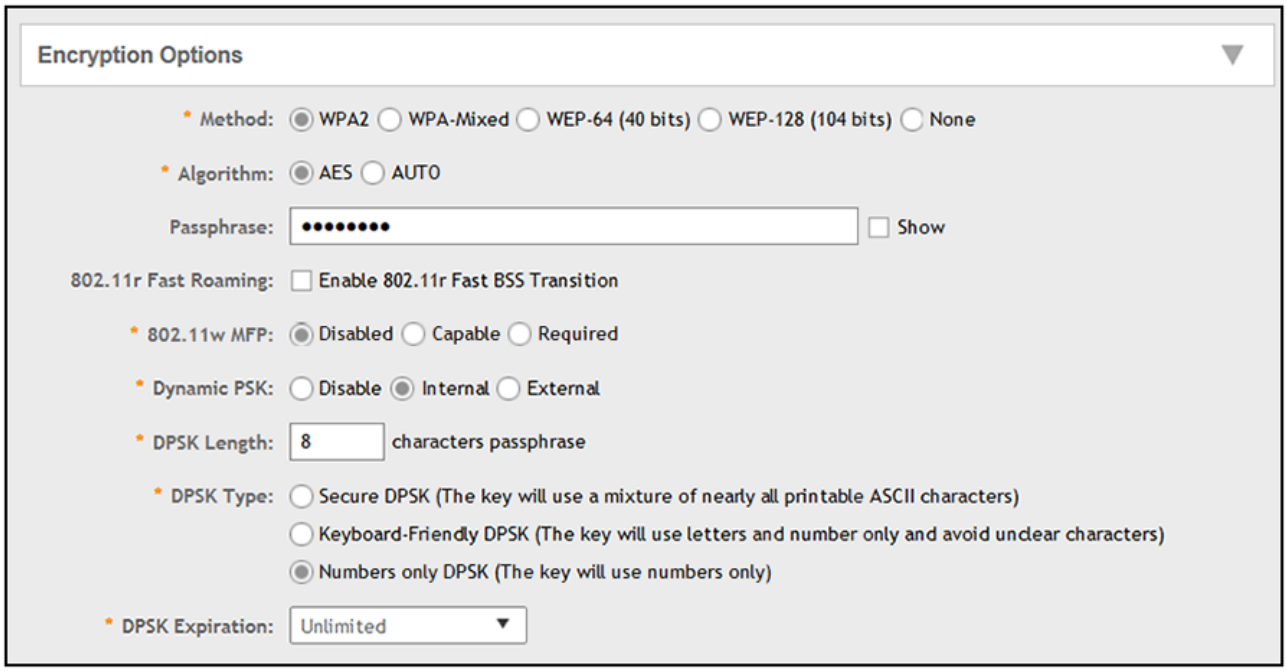
NOTE
The Dynamic PSK field may appear in a different section of the screen on other versions of SmartZone.

a) The Algorithm field must be AES, which is the default.

b) In the Passphrase field, enter a passphrase for the DPSK WLAN that you are creating, and make note of this passphrase. The minimum length is eight characters.

c) In the Dynamic PSK field, select **Internal**. Once you make this selection, DPSK is enabled, and the screen expands again, allowing you to complete the configuration of this section of the screen:

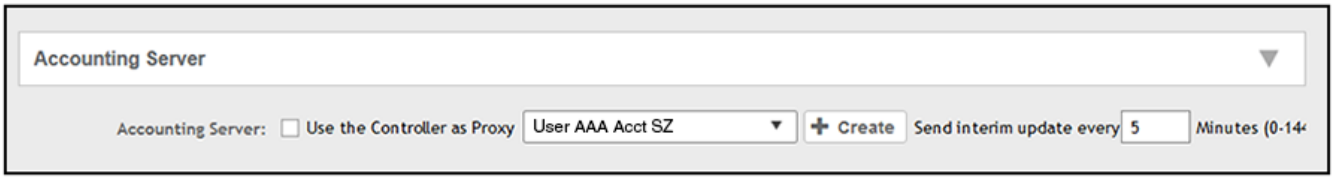
FIGURE 18 Encryptions Options Expanded After Enabling DPSK



- In the DPSK Length field, enter a value that complies with the security policy of your company. The default is 62.
- For DPSK Type, choose the option that complies with the security policy of your company. The default is Secure DPSK.
- For DPSK Expiration, use the drop-down menu to select a value that complies with the security policy of your company. The default value is Unlimited.

8. In the Accounting Server section, you can use the drop-down list to select an already-configured AAA accounting server, or you can use the **+ Create** button to create one.

FIGURE 19 Accounting Server Section of the Create WLAN Configuration Screen

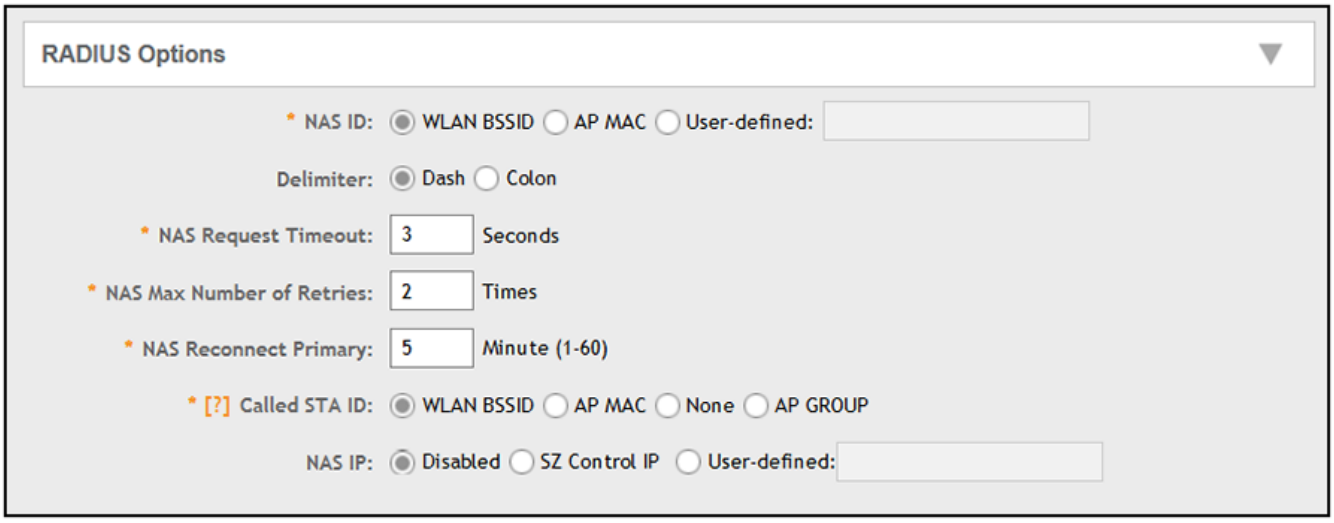


9. In the Options section, you can use the default values, shown below:

FIGURE 20 Options Section of the Create WLAN Configuration Screen

10. In the RADIUS Options section, you can use the default values, shown below:

FIGURE 21 RADIUS Options section

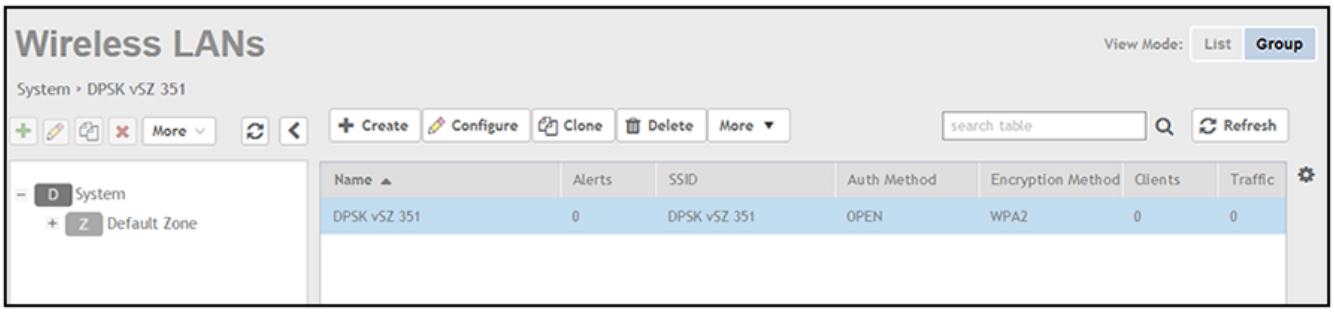


11. In the Advanced Options section, there are many fields (not shown here), but you can also use all the default values.

12. Click **OK** to create the Wireless LAN with DPSK enabled.

    Your Wireless LAN is created. To review the completed configuration or to make any configuration changes, click the **Configure** tab when the Wireless LAN is highlighted.

FIGURE 22 Click the Configure Tab to View or Edit the Wireless LAN Configuration



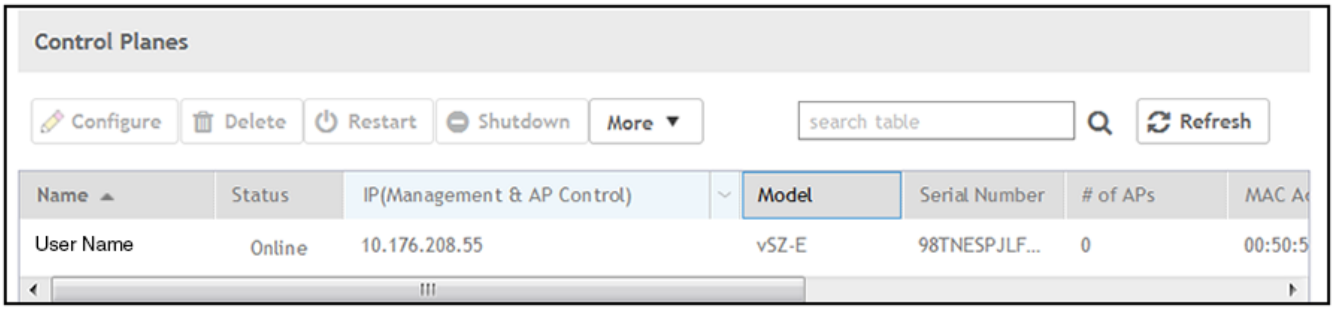
Before you configure your Cloudpath system to use the DPSK WLAN you just created, you need to obtain some information about the SmartZone controller that you will need when you perform configuration on your Cloudpath system. Refer to the following section.

Obtaining Information about the SmartZone Controller

You will need the following information when you perform the necessary configuration in Cloudpath.

- Obtain the Management IP address. Navigate to **System > Cluster**. In the Control Planes section of the screen, shown below, locate the IP address under "IP (Management and AP Control." Be sure to write down this IP address because you will need it during configuration on your Cloudpath system.

FIGURE 23 Obtaining the Management IP Address on SmartZone

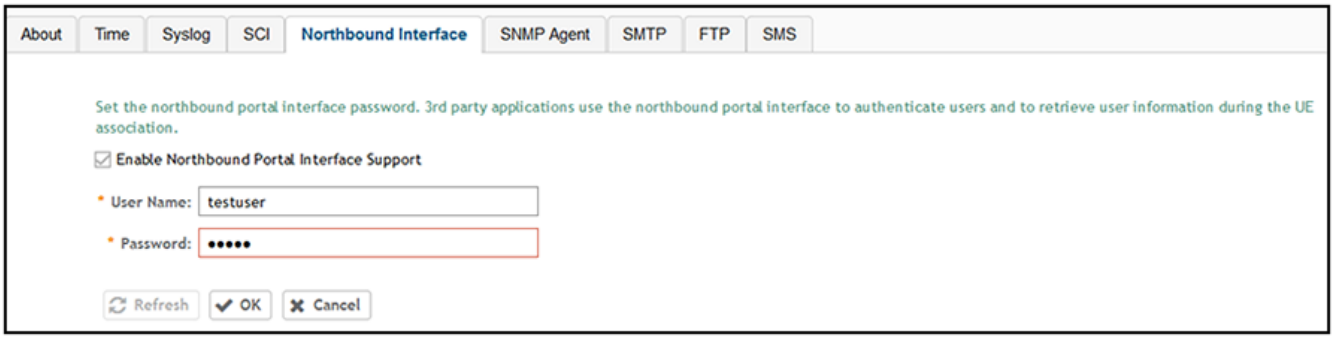


- Enable Northbound Portal Interface Support. Navigate to **Systems > General Settings**.

  In the Northbound Interface tab, shown below, check the box to enable Northbound Portal Interface Support, then be sure to enter the same User Name and Password that you used for the administrator credentials of the SmartZone Controller. Click **OK**.

  NOTE
  You will need the these credentials when you perform corresponding configuration on your Cloudpath system.

FIGURE 24 Enabling Northbound Portal Interface Support on SmartZone



Now, proceed to Configuring DPSK on Cloudpath to Integrate with SmartZone on page 29.

Configuring DPSK on Cloudpath to Integrate with ZoneDirector

Once you configure a DPSK WLAN on your controller, you need to add a corresponding DPSK configuration to a workflow on your Cloudpath system.

This procedure in this section includes steps for:

- Adding a DPSK Plugin to the Workflow

  NOTE
  The concept of workflows and how to create one is described in detail in the *Cloudpath Enrollment System Administration Guide* and the *Cloudpath Enrollment System Quick Start Guide*. Therefore, the purpose of the procedure in this section is to demonstrate how to add a DPSK branch (with a DPSK plugin) to an existing workflow. The same steps included below could also be used to create a new workflow with a DPSK plugin.

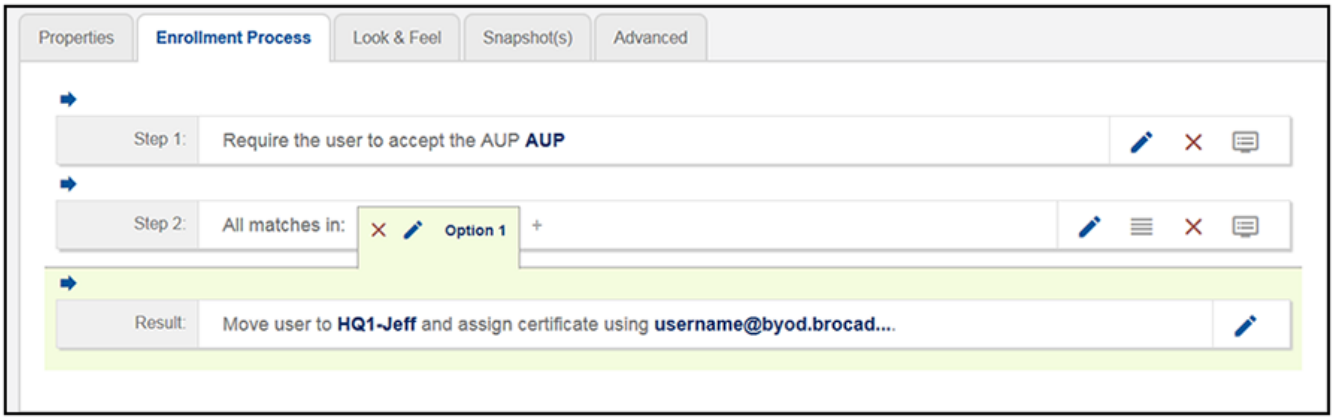
- Adding a Device Configuration to the Workflow on page 25
- Testing the DPSK User Experience on page 27
- Troubleshooting Tips on page 28

Adding a DPSK Plugin to the Workflow

1. Log in to the Cloudpath user interface.
2. Go to **Configuration > Workflows**.

3. Click on a workflow to which you want to add a DPSK branch. An example of a very simple workflow before adding a DPSK branch is shown below:

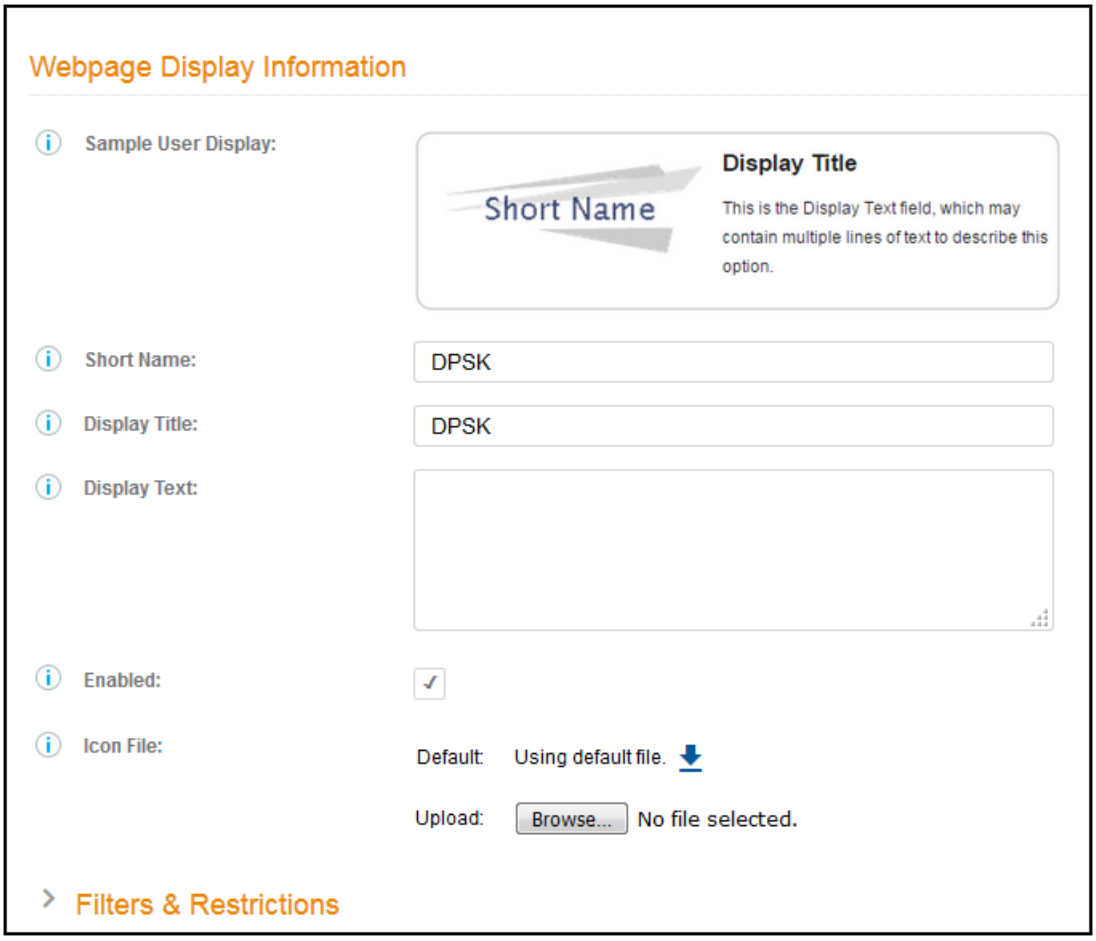
FIGURE 25 Workflow Before Adding DPSK Branch



4. Click the **+** button to create a new branch in your workflow.

   The Webpage Display Information screen is displayed, as shown below, and you add the necessary information.

   FIGURE 26 Webpage Display Information Screen is Displayed When You Add a Branch to a Workflow

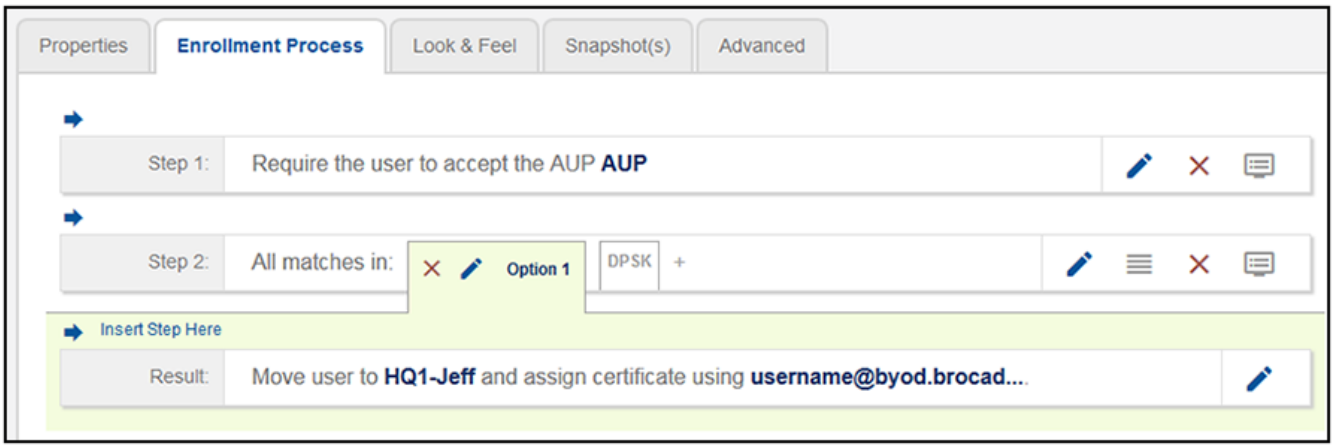


   Enter a Short Name and Display Title, and, optionally, Display Text, then click **Save**.

5. You are presented with a screen called **Configuration > Workflows > Modify Step** that shows the branch options. Click **Done** if the display is correct.

6. Check that your newly named branch ("DPSK" in this example) now appears in your workflow, as shown below:

FIGURE 27 New Branch Name ("DPSK") Appears in Workflow



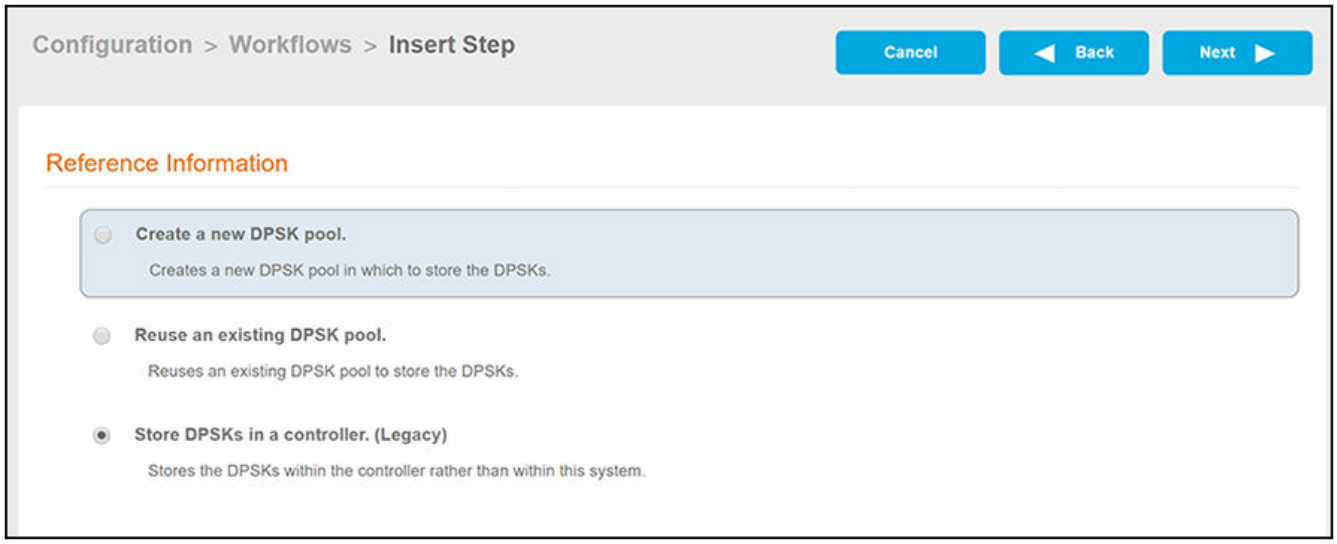
7. Highlight the newly added "DPSK" branch in your workflow, and insert a step below it, as shown in the following figure:

FIGURE 28 Adding a Step Below the New DPSK Branch of the Worlkflow

8. You are presented with a list of plugins. Scroll down toward the bottom of the list and click the "Generate a Ruckus DPSK" button.

9. On the next screen, because this manual is for how to use legacy DPSK, choose that option (shown below), then click **Next**.

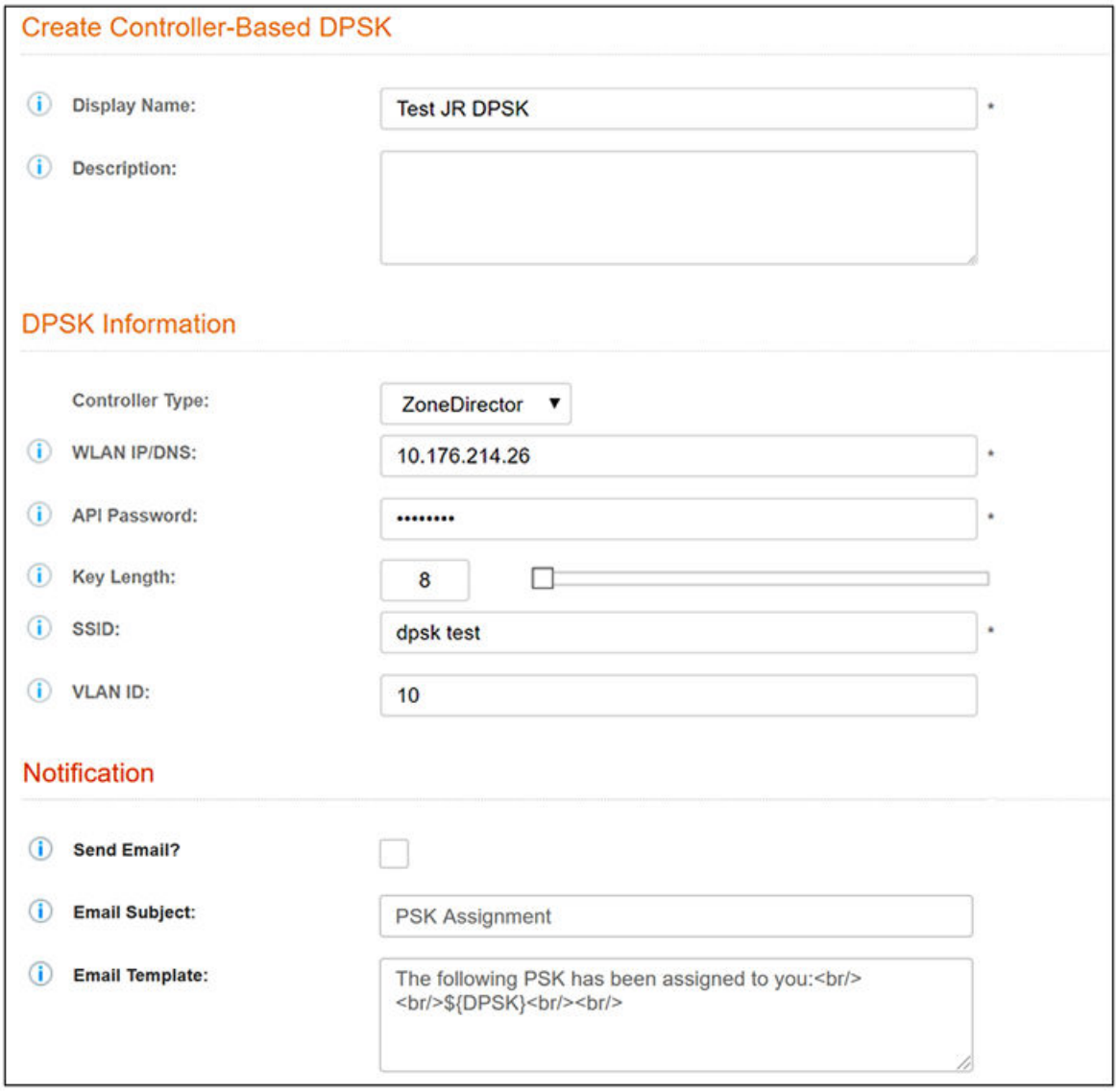
FIGURE 29 Store DPSKs in a controller (Legacy) Option



10. On the ensuing "What DPSK configuration do you want to use?" screen, the default is to create a new configuration. For the purposes of this example, the default setting is used. Click **Next** at the top of the screen.

11. The Create Controller-Based DPSK screen is displayed. The required fields are described after the following illustration:

FIGURE 30 Create Controller-Based DPSK Screen With ZoneDirector As Controller



- Display Name: Enter a descriptive name for your DPSK configuration. This can be any name you wish.
- Controller Type: Select ZoneDirector from the drop-down list.
- WLAN IP/DNS: This is the local device IP address of the ZoneDirector controller where you configured the DPSK WLAN you are using. For information on how to obtain this IP address, refer to Figure 10 on page 10.
- API Password: This is the Northbound Portal Interface password that you set on ZoneDirector. For information about where you created that password, refer to Figure 11 on page 11.
- Key Length: Enter the same value that you configured in the "Enable Dynamic PSK With ..." field in Figure 8 on page 9.
- SSID: This is the SSID that you configured for the DPSK WLAN when you created it on ZoneDirector. For more information about where you created this SSID, refer to Figure 2 on page 6.

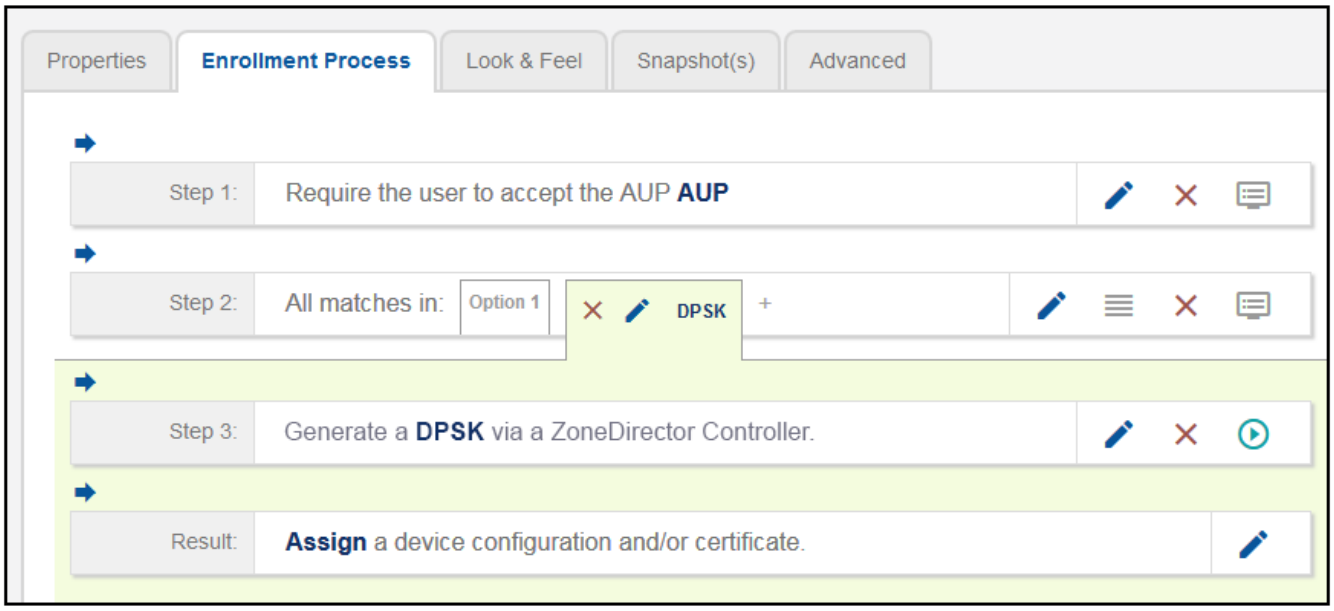
- VLAN ID: Enter the ID of the VLAN in which users will be placed upon successfully migrating to the DPSK SSID.
- Notification area: You can enable the "Send Email" field to send the pre-shared key (PSK) to the user. You can also edit the Email Subject and Email Template fields as desired.

When you have completed filling out the fields, click **Save** at the top of the screen.

> **NOTE**
> The configuration will not save unless the connectivity between Cloudpath and the controller is correctly set.

You are returned to the workflow, and the new "Generate a DPSK via a ZoneDirector Controller" step has been added, as shown in the following screen:

FIGURE 31 Workflow After DPSK Step for ZoneDirector has been Added

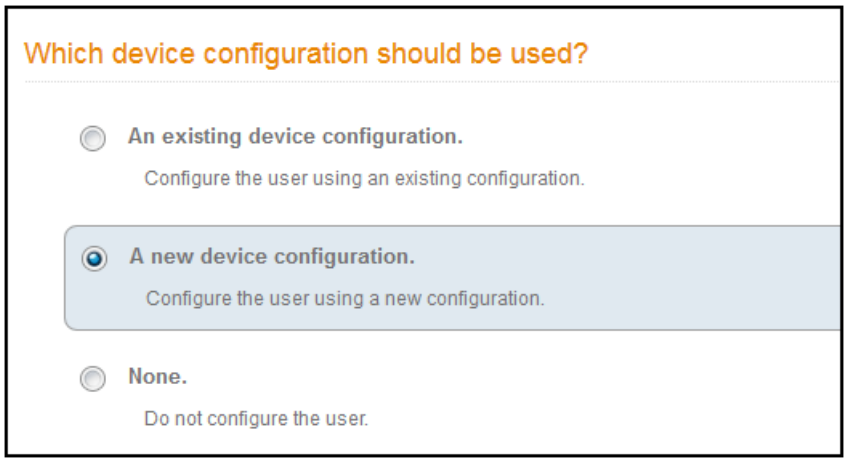


Adding a Device Configuration to the Workflow

1. In the workflow, click the pencil icon to the right of the Result called "Assign a device configuration and/or certificate."

   The following screen appears:

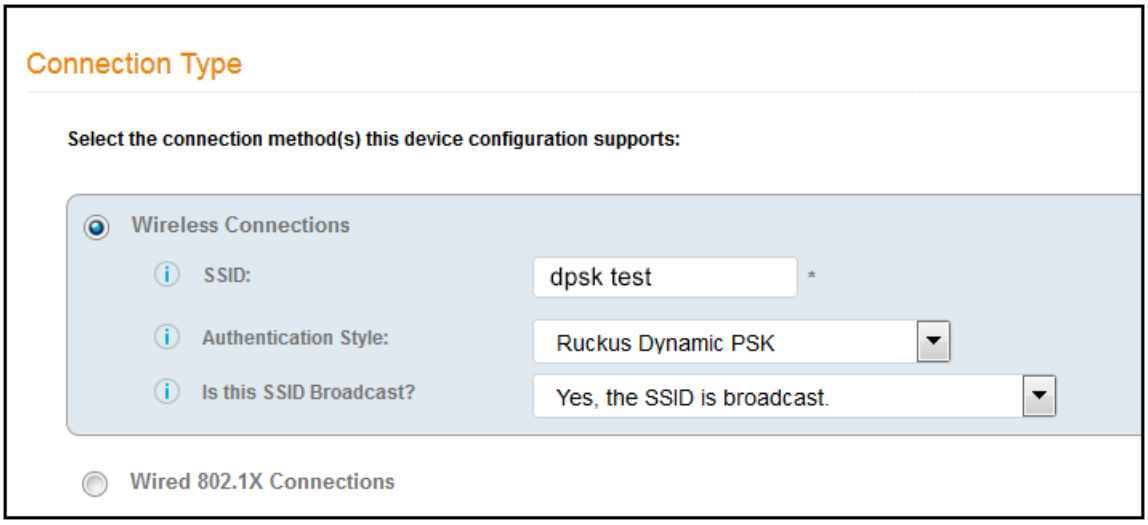
FIGURE 32 Device Configuration Selection Screen



2. Select "A new device configuration," then click **Next**.

   The Connection Type screen is displayed. Required fields are described below the screen.

FIGURE 33 Connection Type Screen



- The Wireless Connections button must be selected.
- SSID: This name must match the DPSK WLAN exactly. It is the name configured in Figure 2 on page 6
- Authentication Style: Select Ruckus Dynamic PSK from the drop-down list.
- Is this SSID Broadcast?: Leave the default value of Yes, the SSID is broadcast.

Click **Next**.

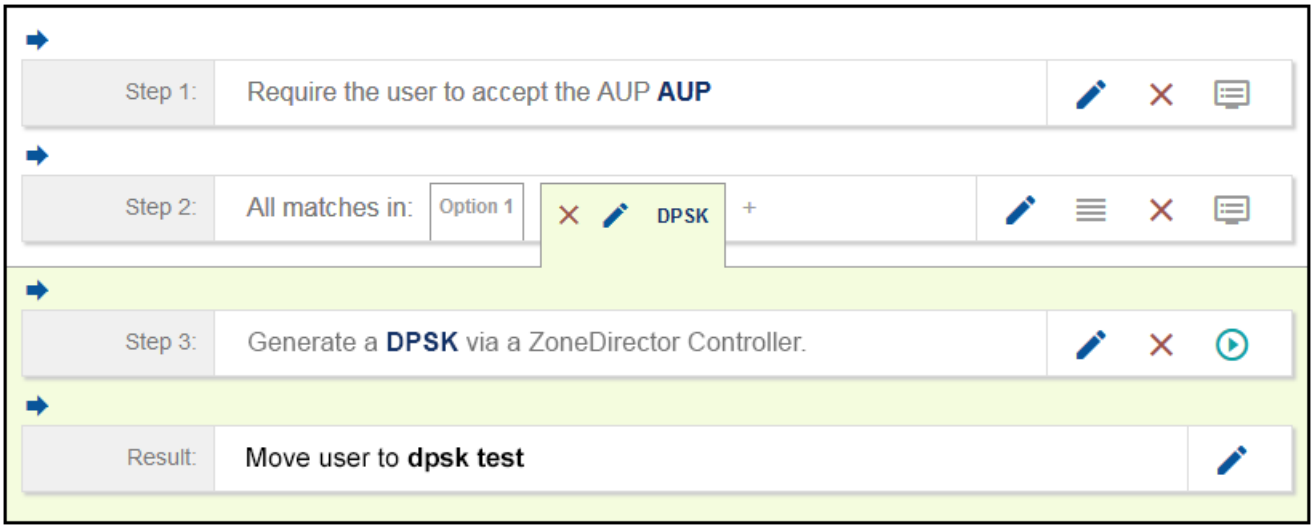
3. For the screens you are presented with next, you can keep all the default values and continue to click **Next** to progress through the screens, until you get to the following screen:

FIGURE 34 Certificate Template Screen

It is recommended to choose the "Do not issue a certificate to the user" option for DPSK configuration. After selecting this option, click **Next**.

4. You are returned to the workflow. Make sure the Result step has been added successfully, as shown below:

FIGURE 35 Workflow After Completing the Device Configuration "Result"



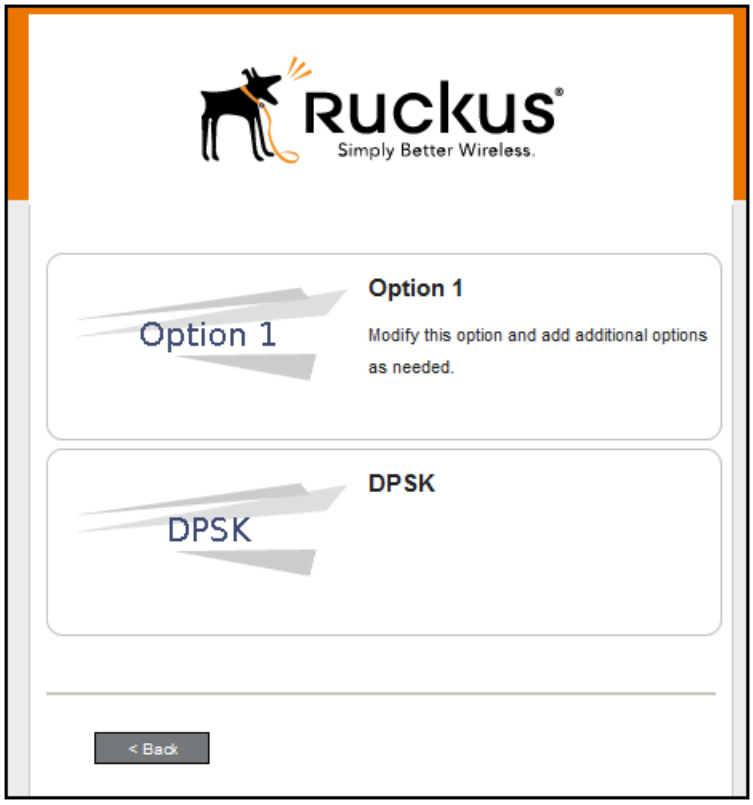
Publish the workflow by clicking the **Publish** icon to the left of the workflow name at the top of the **Configuration > Workflows** screen.

Testing the DPSK User Experience

1. Test the Enrollment process by clicking on the enrollment portal URL for the workflow at the top of the **Configuration > Workflows** screen.

2. When you presented with the with the Welcome screen, click **Start**.
3. When you are presented with various branches of your workflow, click the "DPSK" branch:

FIGURE 36 Testing the Workflow - DPSK Branch



4. Proceed with the enrollment. If enrollment is successful, you will receive some status screens indicating the following status as the process is in progress:
   - "Configuring this device"
   - "Attempting to connect to the network"
   - "Congratulations! You are now connected to the network."

Troubleshooting Tips

If an error occurs during the workflow-publishing or enrollment process, check the following:

- Make sure that your DPSK WLAN configuration settings on Cloudpath match what you configured on the controller.
- Make sure that your Northbound Interface administrative username and password are identical on Cloudpath and the controller.
- Make sure that you have selected **Ruckus Dynamic PSK** as the Authentication Style in the Cloudpath Connection Type screen.
- Make sure that you have added the correct Cloudpath DPSK SSID to the final result step in your workflow.

Configuring DPSK on Cloudpath to Integrate with SmartZone

Once you configure a DPSK Wireless LAN on your controller, you need to add a corresponding DPSK configuration to a workflow on your Cloudpath system.

This procedure in this section includes steps for:

- Adding the DPSK plugin to a workflow

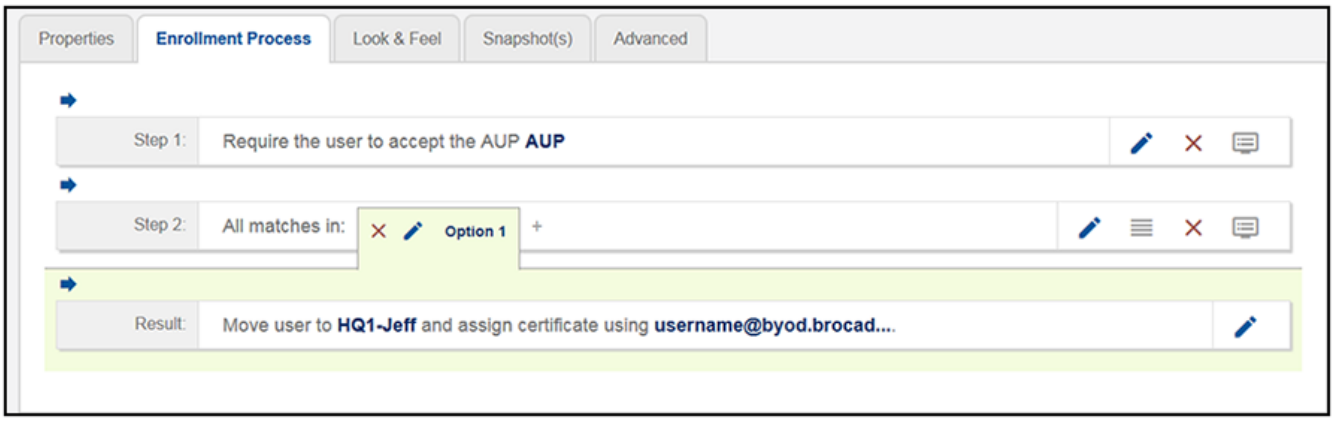
  NOTE
  The concept of workflows and how to create one is described in detail in the *Cloudpath Enrollment System Administration Guide* and the *Cloudpath Enrollment System Quick Start Guide*. Therefore, the purpose of the procedure in this section is to demonstrate how to add a DPSK branch (with a DPSK plugin) to an existing workflow. The same steps included below could also be used to create a new workflow with a DPSK plugin.

- Adding a Device Configuration to the Workflow on page 35
- Testing the DPSK User Experience on page 37
- Troubleshooting Tips on page 38

Adding a DPSK Plugin to the Workflow

1. Log in to the Cloudpath user interface.
2. Go to **Configuration > Workflows**.
3. Click on a workflow to which you want to add a DPSK branch. An example of a very simple workflow before adding a DPSK branch is shown below:

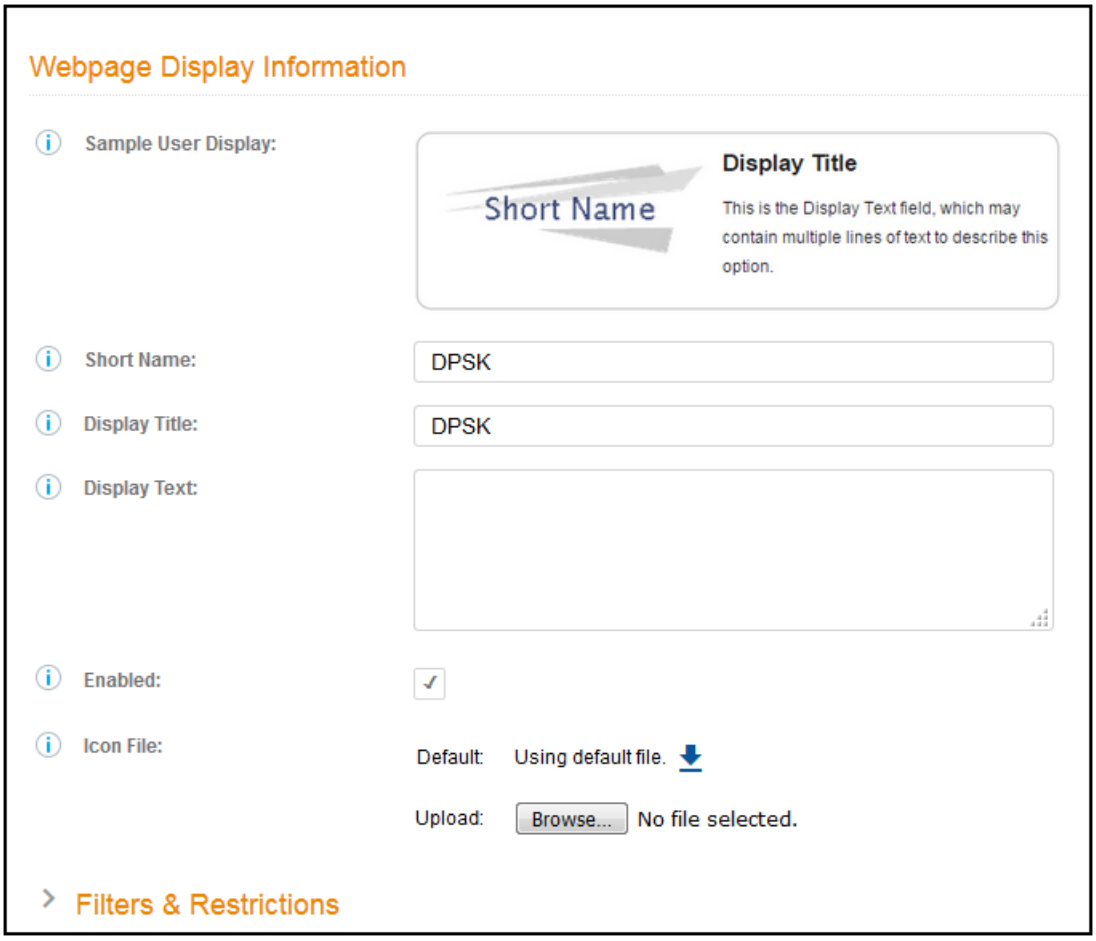
FIGURE 37 Workflow Before Adding DPSK Branch



4. Click the **+** button to create a new branch in your workflow.

   The Webpage Display Information screen is displayed, as shown below, and you add the necessary information.

   FIGURE 38 Webpage Display Information Screen is Displayed When You Add a Branch to a Workflow

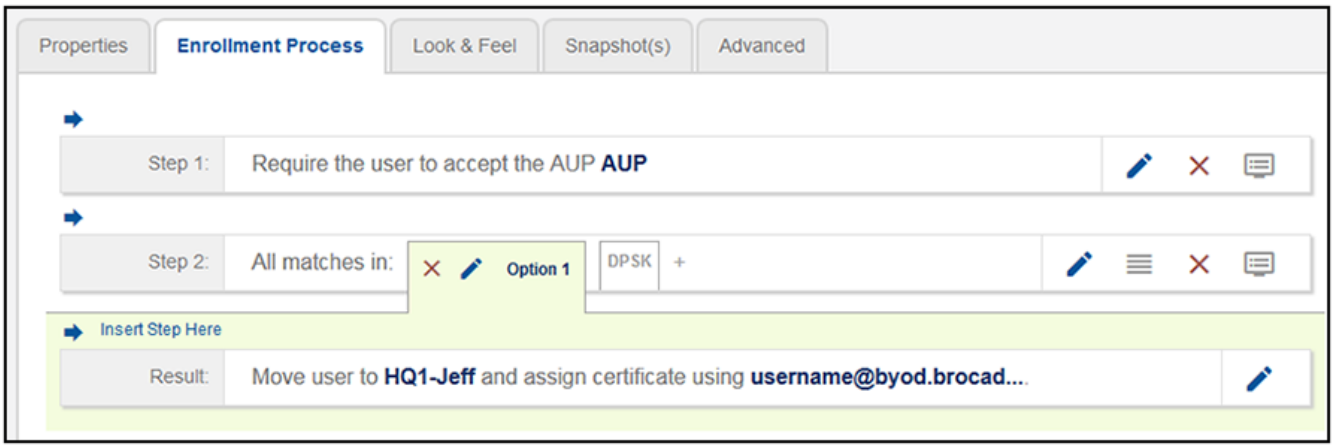


   Enter a Short Name and Display Title, and, optionally, Display Text, then click **Save**.

5. You are presented with a screen called **Configuration > Workflows > Modify Step** that shows the branch options. Click **Done** if the display is correct.

6. Check that your newly named branch ("DPSK" in this example) now appears in your workflow, as shown below:

FIGURE 39 New Branch Name ("DPSK") Appears in Workflow



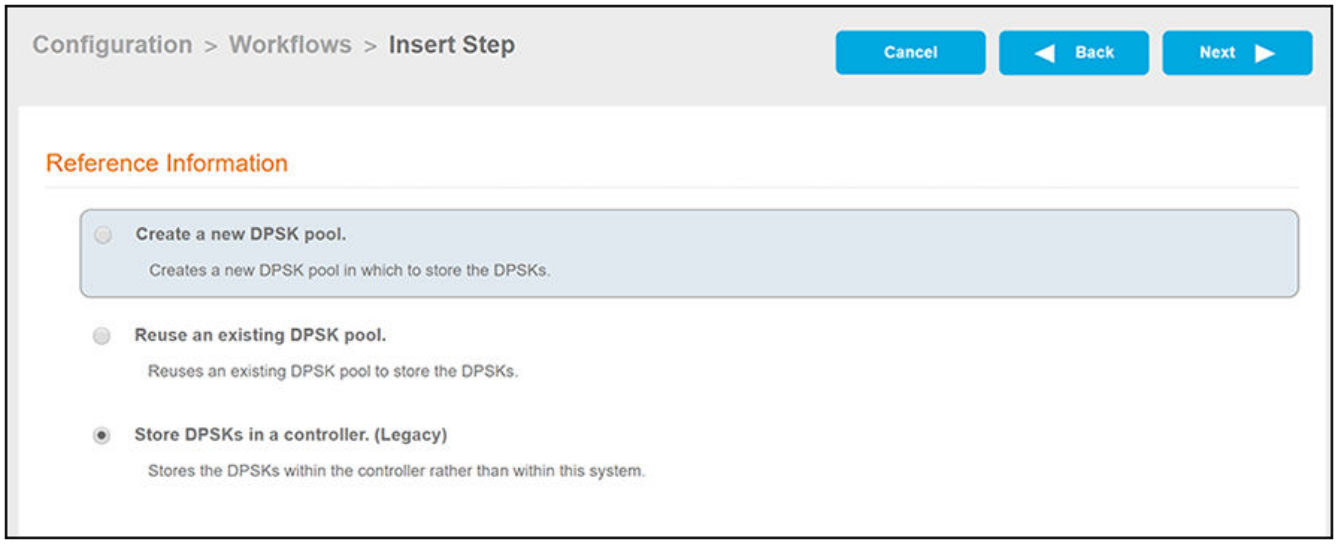
7. Highlight the newly added "DPSK" branch in your workflow, and insert a step below it, as shown in the following figure:

FIGURE 40 Adding a Step Below the New DPSK Branch of the Worlkflow

8. You are presented with a list of plugins. Scroll down toward the bottom of the list and click the "Generate a Ruckus DPSK" button.

9. On the next screen, because this manual is for how to use legacy DPSK, choose that option (shown below), then click **Next**.

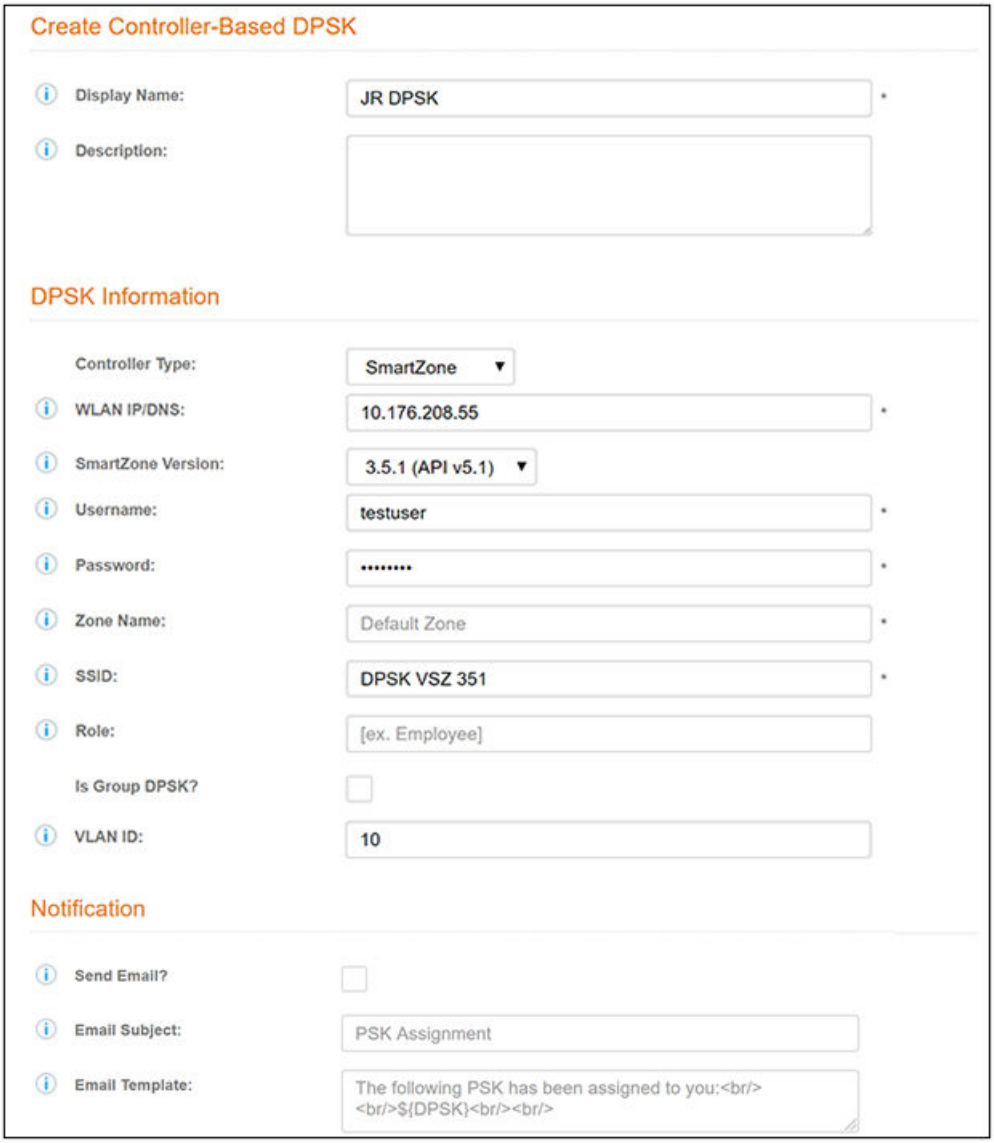
FIGURE 41 Store DPSKs in a controller (Legacy) Option



10. On the ensuing "What DPSK configuration do you want to use?" screen, the default is to create a new configuration. For the purposes of this example, the default setting is used. Click **Next** at the top of the screen.

11. The Create Controller-Based DPSK screen is displayed. The required fields are described after the following illustration:

FIGURE 42 Create Controller-Based DPSK Screen With SmartZone As Controller



- Display Name: Enter a descriptive name for your DPSK configuration. This can be any name you wish.
- Controller Type: Select SmartZone from the drop-down list.
- WLAN IP/DNS: This is the IP address of the SmartZone controller where you configured the DPSK Wireless LAN you are using. For information on how to obtain this IP address, refer to Figure 23 on page 17.
- SmartZone Version: Select the applicable version of SmartZone from the drop-down list.
- Username: This is the Northbound Portal Interface username that you set on SmartZone. For information about where you created that username, refer to Figure 24 on page 18.
- Password: This is the Northbound Portal Interface password that you set on SmartZone. For information about where you created that password, refer to Figure 24 on page 18.

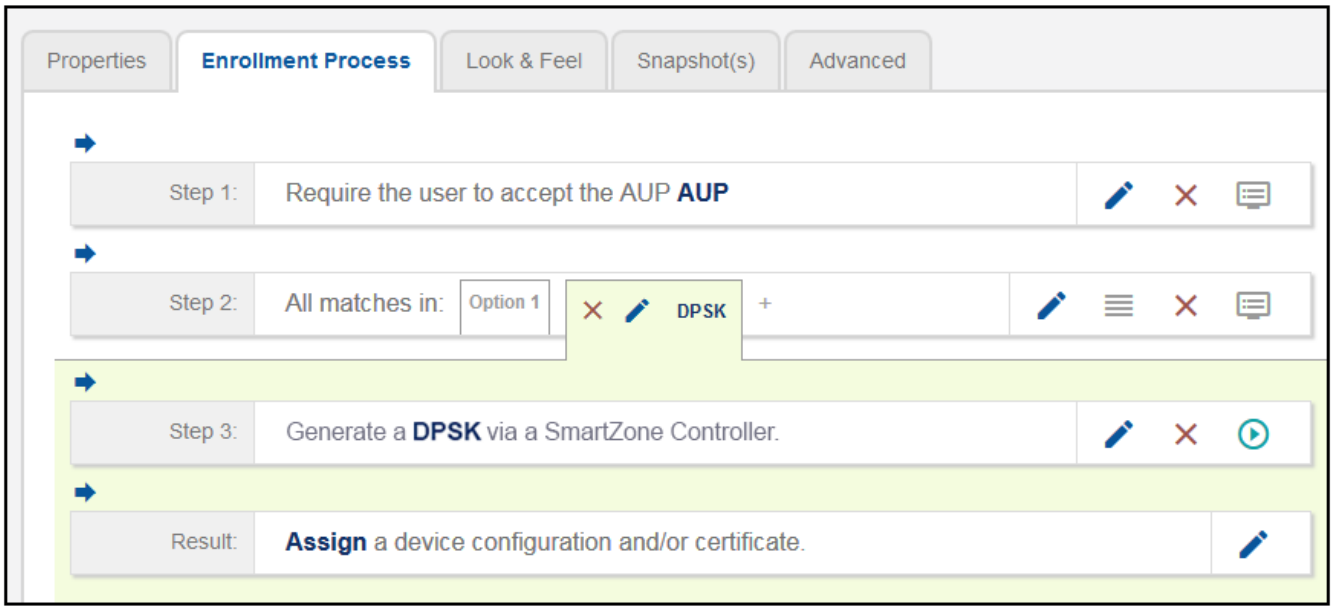
- Zone Name: This is the name of the zone that the SmartZone controller belongs to. If the controller belongs to the default zone, leave this field blank.
- SSID: This is the SSID that you configured for the DPSK Wireless LAN when you created it on SmartZone. For more information about where you created this SSID, refer to Figure 14 on page 13.
- VLAN ID: Enter the ID of the VLAN in which users will be placed upon successfully migrating to the DPSK SSID.
- Notification area: You can enable the "Send Email" field to send the pre-shared key (PSK) to the user. You can also edit the Email Subject and Email Template fields as desired.

When you have completed filling out the fields, click **Save** at the top of the screen.

NOTE
The configuration will not save unless the connectivity between Cloudpath and the controller is correctly set.

You are returned to the workflow, and the new "Generate a DPSK via Ruckus Controller" step has been added, as shown in the following screen:

FIGURE 43 Workflow After DPSK Step for SmartZone has been Added

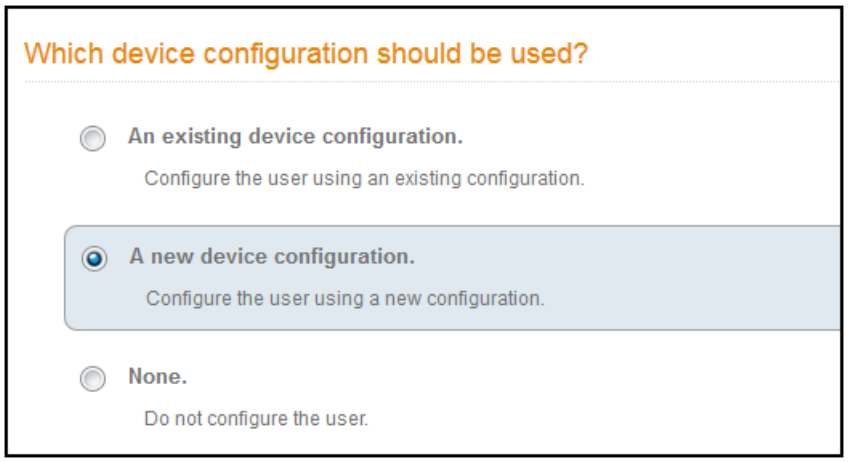


Adding a Device Configuration to the Workflow

1. In the workflow, click the pencil icon to the right of the Result called "Assign a device configuration and/or certificate."

   The following screen appears:

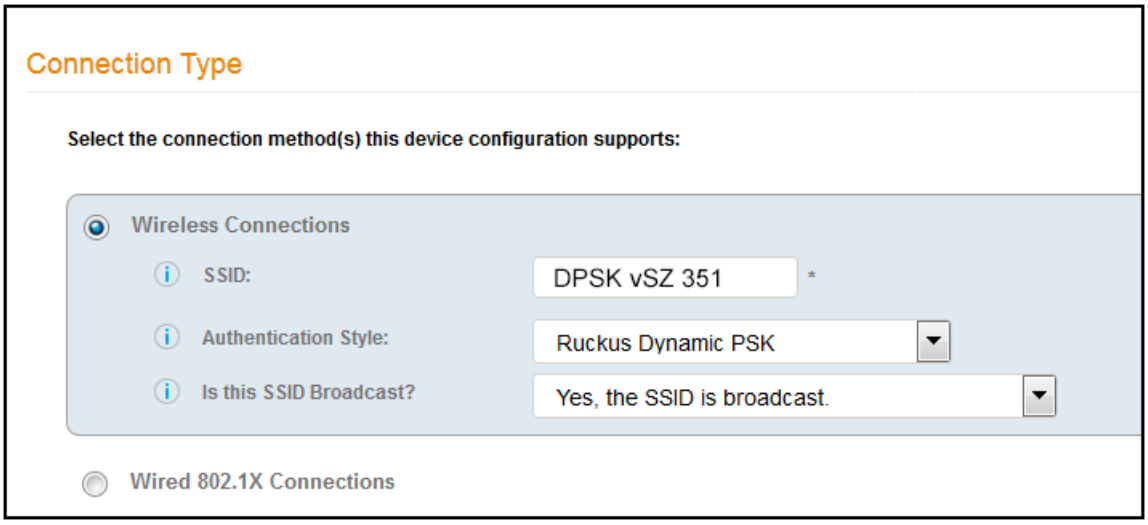
FIGURE 44 Device Configuration Selection Screen



2. Select "A new device configuration," then click **Next**.

   The Connection Type screen is displayed. Required fields are described below the screen.

FIGURE 45 Connection Type Screen



- The Wireless Connections button must be selected.
- SSID: This name must match the DPSK WLAN exactly. It is the name configured in Figure 14 on page 13.
- Authentication Style: Select Ruckus Dynamic PSK from the drop-down list.
- Is this SSID Broadcast?: Leave the default value of Yes, the SSID is broadcast.

Click **Next**.

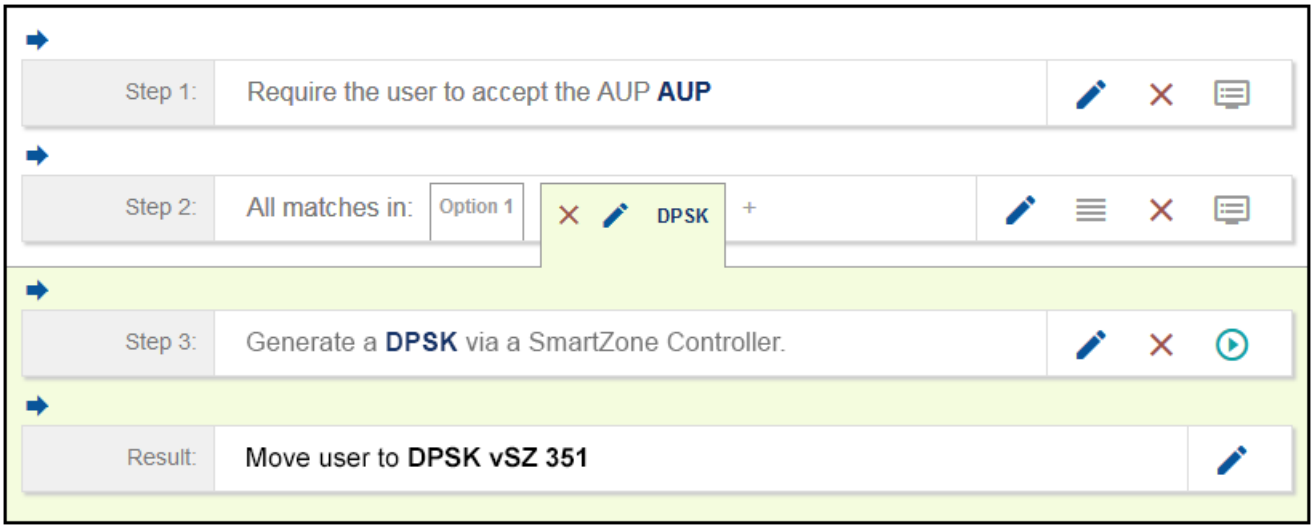
3. For the screens you are presented with next, you can keep all the default values and continue to click **Next** to progress through the screens, until you get to the following screen:

FIGURE 46 Certificate Template Screen

It is recommended to choose the "Do not issue a certificate to the user" option for DPSK configuration. After selecting this option, click **Next**.

4. You are returned to the workflow. Make sure the Result step has been added successfully, as shown below:

FIGURE 47 Workflow After Completing the Device Configuration "Result"



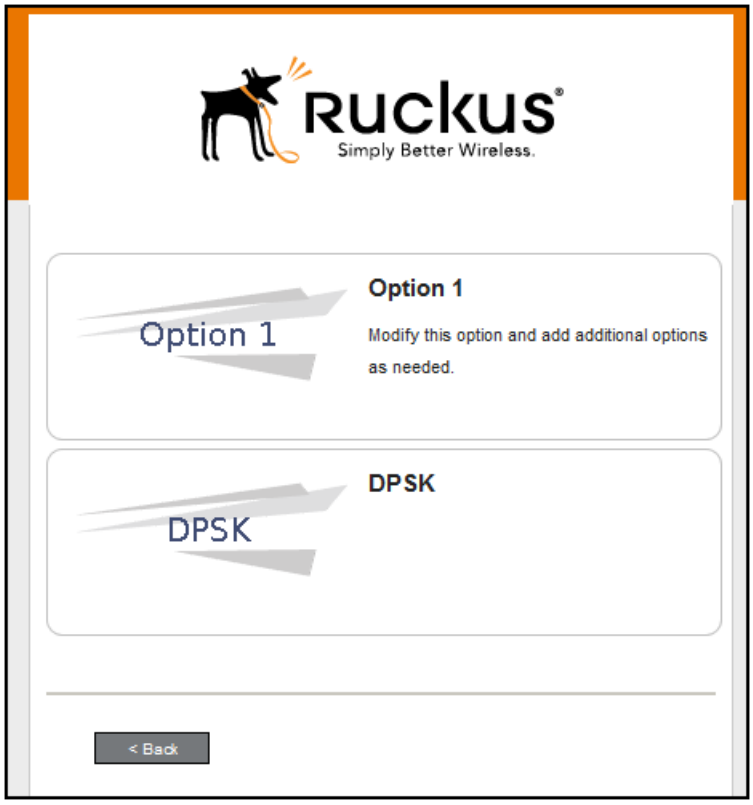
Publish the workflow by clicking the **Publish** icon to the left of the workflow name at the top of the **Configuration > Workflows** screen.

Testing the DPSK User Experience

1. Test the Enrollment process by clicking on the enrollment portal URL for the workflow at the top of the **Configuration > Workflows** screen.

2. When you presented with the with the Welcome screen, click **Start**.
3. When you are presented with various branches of your workflow, click the "DPSK" branch:

FIGURE 48 Testing the Workflow - DPSK Branch



4. Proceed with the enrollment. If enrollment is successful, you will receive some status screens indicating the following status as the process is in progress:
   - "Configuring this device"
   - "Attempting to connect to the network"
   - "Congratulations! You are now connected to the network."

Troubleshooting Tips

If an error occurs during the workflow-publishing or enrollment process, check the following:

- Make sure that your DPSK WLAN configuration settings on Cloudpath match what you configured on the controller.
- Make sure that your Northbound Interface administrative username and password are identical on Cloudpath and the controller.
- Make sure that you have selected **Ruckus Dynamic PSK** as the Authentication Style in the Cloudpath Connection Type screen.
- Make sure that you have added the correct Cloudpath DPSK SSID to the final result step in your workflow.

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