



Article ID: 5080

Configuring WPA-PSK Complexity on the WAP131, WAP351, and WAP371

Objective

When a VAP (Virtual Access Point) is configured, there are several options available for securely authenticating clients. If WPA Personal is selected (also known as WPA-PSK, or WiFi Protected Access – Pre-shared Key), you can configure the complexity requirements of the keys used for authentication. More complex keys result in increased security.

The objective of this document is to show you how to configure WPA-PSK complexity on the WAP131, WAP351, and WAP371.

Applicable Devices

- WAP131
- WAP351
- WAP371

Software Version

- v1.0.1.3 (WAP131, WAP351)
- v1.2.0.2 (WAP371)

Configuring WPA-PSK Complexity

Step 1. Log in to the web configuration utility and choose **System Security > WPA-PSK Complexity**. The *WPA-PSK Complexity* page opens.

WPA-PSK Complexity

WPA-PSK Complexity:	<input type="checkbox"/>	Enable
WPA-PSK Minimum Character Class:	3	
WPA-PSK Different From Current:	<input type="checkbox"/>	Enable
Maximum WPA-PSK Length:	63	(Range: 32 - 63, Default: 63)
Minimum WPA-PSK Length:	8	(Range: 8 - 16, Default: 8)

Save

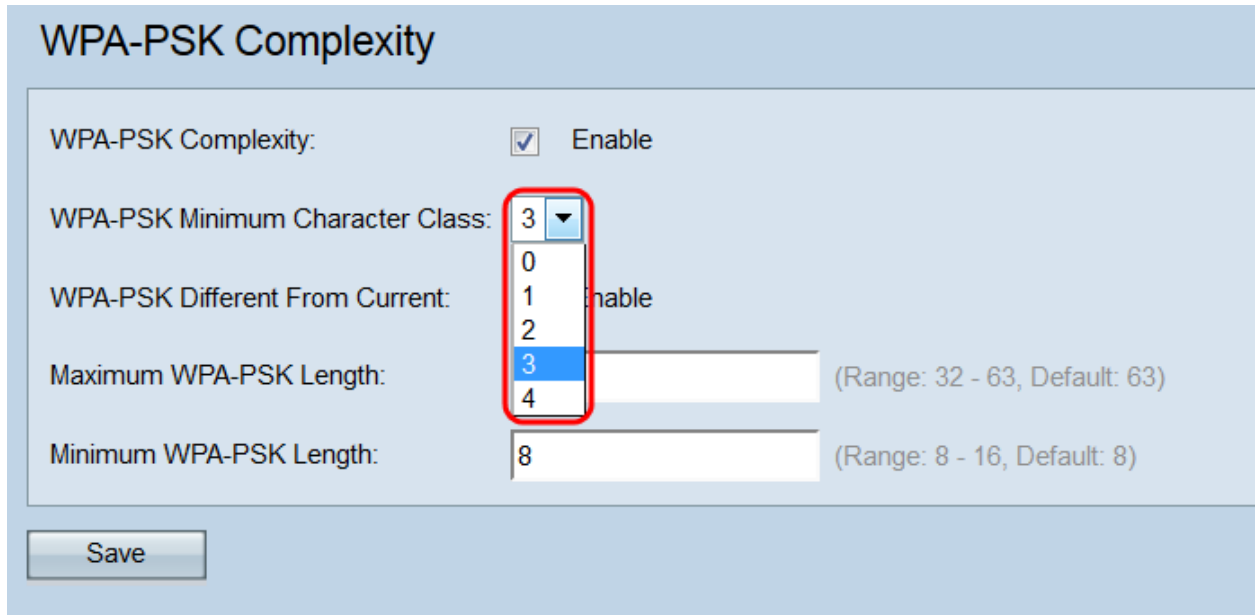
Step 2. In the *WPA-PSK Complexity* field, check the **Enable** checkbox. Enabling this will make the WAP check WPA-PSK keys against the criteria specified below. It is disabled by default.

WPA-PSK Complexity

WPA-PSK Complexity:	<input checked="" type="checkbox"/>	Enable
WPA-PSK Minimum Character Class:	3	
WPA-PSK Different From Current:	<input type="checkbox"/>	Enable
Maximum WPA-PSK Length:	63	(Range: 32 - 63, Default: 63)
Minimum WPA-PSK Length:	8	(Range: 8 - 16, Default: 8)

Save

Step 3. Choose the minimum number of character classes that must be in a key string from the *WPA-PSK Minimum Character Class* drop-down list. The four character classes are uppercase letters, lowercase letters, numbers, and special characters available on a standard keyboard. 3 is the default.



WPA-PSK Complexity

WPA-PSK Complexity: ☒ Enable

WPA-PSK Minimum Character Class: 3 ▼

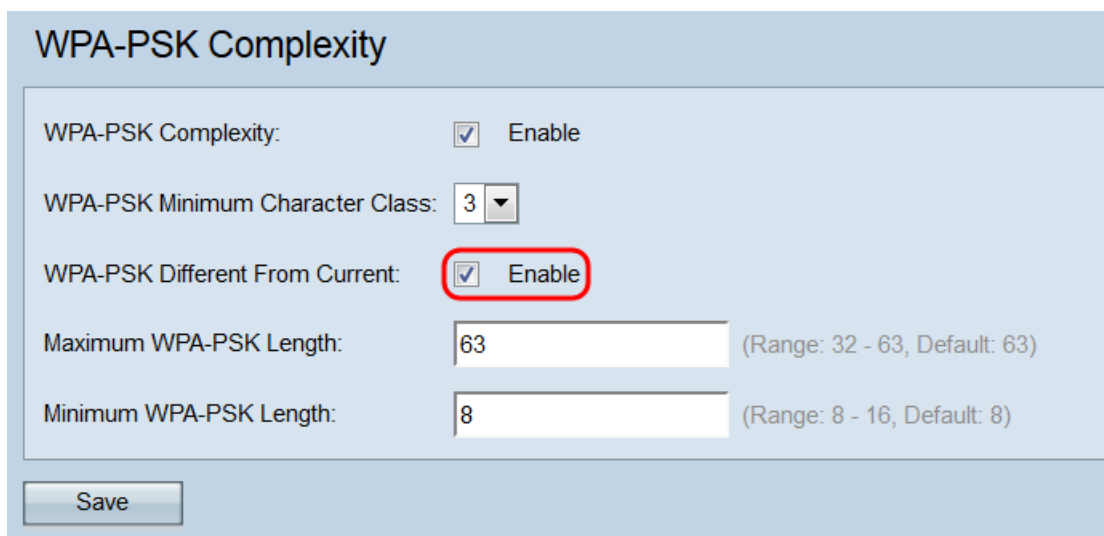
WPA-PSK Different From Current: ☐ Enable

Maximum WPA-PSK Length: 3 (Range: 32 - 63, Default: 63)

Minimum WPA-PSK Length: 8 (Range: 8 - 16, Default: 8)

Save

Step 4. Check the **Enable** checkbox in the *WPA-PSK Different From Current* field to force users to make a different key when the current one expires. The default is disabled, which lets users use their old or previous key when the current one expires.



WPA-PSK Complexity

WPA-PSK Complexity: ☒ Enable

WPA-PSK Minimum Character Class: 3 ▼

WPA-PSK Different From Current: ☒ Enable

Maximum WPA-PSK Length: 63 (Range: 32 - 63, Default: 63)

Minimum WPA-PSK Length: 8 (Range: 8 - 16, Default: 8)

Save

Step 5. In the *Maximum WPA-PSK Length* field, enter the maximum key length in number of characters. The range is 32 – 63, with 63 as the default.

WPA-PSK Complexity

WPA-PSK Complexity:

☒ Enable

WPA-PSK Minimum Character Class:

3 ▾

WPA-PSK Different From Current:

☒ Enable

Maximum WPA-PSK Length:

(Range: 32 - 63, Default: 63)

Minimum WPA-PSK Length:

(Range: 8 - 16, Default: 8)

Save

Step 6. In the *Minimum WPA-PSK Length* field, enter the minimum key length in number of characters. The range is 8 – 16, with 8 as the default.

WPA-PSK Complexity

WPA-PSK Complexity:

☒ Enable

WPA-PSK Minimum Character Class:

3 ▾

WPA-PSK Different From Current:

☒ Enable

Maximum WPA-PSK Length:

(Range: 32 - 63, Default: 63)

Minimum WPA-PSK Length:

(Range: 8 - 16, Default: 8)

Save

Step 7. Click **Save**.

WPA-PSK Complexity

WPA-PSK Complexity:	<input checked="" type="checkbox"/> Enable
WPA-PSK Minimum Character Class:	3 ▼
WPA-PSK Different From Current:	<input checked="" type="checkbox"/> Enable
Maximum WPA-PSK Length:	<input type="text" value="63"/> (Range: 32 - 63, Default: 63)
Minimum WPA-PSK Length:	<input type="text" value="16"/> (Range: 8 - 16, Default: 8)

Save