Como configurar o sistema de distribuição sem fio (WDS) no RV130W

Objetivo

Um sistema de distribuição sem fio (WDS) é um sistema que permite a interconexão sem fio de pontos de acesso (APs) em uma rede. O WDS permite que uma rede sem fio seja expandida usando vários pontos de acesso sem a necessidade de um backbone com fio para vinculá-los. Para estabelecer um link WDS, o dispositivo e outros pares WDS remotos devem ser configurados no mesmo modo de rede sem fio, canal sem fio, seleção de banda sem fio e tipos de criptografia (Nenhum ou WEP). Para obter mais informações, consulte *Configurando configurações sem fio básicas no RV130W*.

Em um ambiente típico de pequena empresa, você pode configurar o WDS no modo Bridge ou no modo Repetidor. O modo de bridge é útil se você quiser que os outros APs estendam o sinal de rede para seu dispositivo, que atua como o link comum. O modo de repetidor é útil se você deseja que o dispositivo atue como um repetidor de sinal de rede para outros APs usando uma conexão sem fio.

O objetivo deste documento é mostrar como configurar um Wireless Distribution System no RV130W.

Dispositivos aplicáveis

RV130W

Versão de software

•v1.0.1.3

Configuração do sistema de distribuição sem fio

Configuração do WDS no modo bridge

Etapa 1. Faça login no utilitário de configuração da Web e escolha **Wireless > WDS**. A página *WDS* é aberta:

WDS	
WDS MAC	Address: 3C:CE:73:8E:04:1E
WDS	
Mode	O WDS Bridge
	Remote Wireless Bridge's MAC Address
	MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)
	MAC 2
	MAC 3
	MAC 4
	WDS Repeater
	Allow wireless signal to be repeated by a repeater
	MAC 1
	MAC 2
	MAC 3
	MAC 4
	Repeat wireless signal of a remote access point
	Remote Access Point's MAC Address (Select one from the site survey list or define your own):
	Show Available Networks
	MAC
Save	Cancel

Etapa 2. Para habilitar o WDS, marque a caixa de seleção no campo WDS.

WDS				
WDS MAC Add	Iress: 3C:CE:73:8E:04:1E			
WDS				
Mode	© WDS Bridge			
	Remote Wireless Bridge's MAC Address			
	MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)			
	MAC 2			
	MAC 3			
	MAC 4			
	WDS Repeater			
	$^{\odot}$ Allow wireless signal to be repeated by a repeater			
	MAC 1			
	MAC 2			
	MAC 3			
	MAC 4			
	Repeat wireless signal of a remote access point			
	Remote Access Point's MAC Address (Select one from the site survey list or define your own):			
	Show Available Networks			
	MAC			
Save	Cancel			

Etapa 3. No campo *Mode*, clique no botão de opção **WDS Bridge**. Quando o WDS do roteador é configurado para o modo Bridge, o WDS designa o ponto de acesso configurado como o link comum entre vários pontos de acesso.

W	DS				
w	DS MAC A	ddress: 3C:CE:73:8E:04:1E			
w	DS	V			
M	ode	WDS Bridge			
		Remote Wireless Bridge's MAC Address			
		MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)			
		MAC 2			
		MAC 3			
		MAC 4			
	© WDS Repeater				
		Allow wireless signal to be repeated by a repeater			
		MAC 1			
		MAC 2			
		MAC 3			
		MAC 4			
		Repeat wireless signal of a remote access point			
		Remote Access Point's MAC Address (Select one from the site survey list or define your own):			
		Show Available Networks			
		MAC			
	Save	Cancel			

Etapa 4. Na seção *Endereço MAC da Remote Wireless Bridge*, insira o endereço MAC de um ponto de acesso a ser usado como uma bridge no campo *MAC 1*. Você também pode configurar pontos de acesso adicionais a serem usados como bridges nos campos *MAC 2*, *MAC 3* e *MAC 4*.

WDS		
WDS MAC A	ddress: 3C:CE:7	3:8E:04:1E
WDS		
Mode	WDS Brid	Ige
		Remote Wireless Bridge's MAC Address
		MAC 1 (00:11:3E:8E:44:55 (Hint: 00:11:22:33:44:55 or 001122334455)
		MAC 2
		MAC 3
		MAC 4
	© WDS Rep	peater
		Allow wireless signal to be repeated by a repeater
		MAC 1
		MAC 2
		MAC 3
		MAC 4
		Repeat wireless signal of a remote access point A signal of a remote access A signal of acce
		Remote Access Point's MAC Address (Select one from the site survey list or define your own):
		Show Available Networks
		MAC
Save	Cancel]

Etapa 5. Clique em **Salvar** para salvar as alterações.

1	WDS					
	WDS MAC Add	ess: 3C:CE:73:8E:04:1E				
	WDS					
	Mode	WDS Bridge				
		Remote V	Vireless Bridge's MAC Address			
		MAC 1	00:11:3E:8E:44:55 (Hint: 00:11:22:33:44:55 or 001122334455)			
		MAC 2				
		MAC 3				
		MAC 4				
		© WDS Repeater				
	Allow wireless signal to be repeated by a repeater					
		MAC 1				
		MAC 2				
		MAC 3				
		MAC 4				
		Repe	at wireless signal of a remote access point			
		Remote A	access Point's MAC Address (Select one from the site survey list or define your own):			
		SI SI	now Available Networks			
		MAC				
(Save	Cancel				

Configuração do WDS no modo de repetidor sem fio

Etapa 1. Faça login no utilitário de configuração da Web e escolha **Wireless > WDS**. A página *WDS* é aberta.

WDS	
WDS MAC	Address: 3C:CE:73:8E:04:1E
WDS	
Mode	O WDS Bridge
	Remote Wireless Bridge's MAC Address
	MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)
	MAC 2
	MAC 3
	MAC 4
	WDS Repeater
	Allow wireless signal to be repeated by a repeater
	MAC 1
	MAC 2
	MAC 3
	MAC 4
	Repeat wireless signal of a remote access point
	Remote Access Point's MAC Address (Select one from the site survey list or define your own):
	Show Available Networks
	MAC
Save	Cancel

Etapa 2. Para habilitar o WDS, marque a caixa de seleção no campo WDS.

DS			
DS MAC Address: 3C:CE:73:8E:04:1E			
DS 🕡			
ode O WDS Bridge			
Remote Wireless Bridge's MAC Address			
MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)			
MAC 2			
MAC 3			
MAC 4			
WDS Repeater			
$^{\odot}$ Allow wireless signal to be repeated by a repeater			
MAC 1			
MAC 2			
MAC 3			
MAC 4			
Repeat wireless signal of a remote access point			
Remote Access Point's MAC Address (Select one from the site survey list or define your own):			
Show Available Networks			
MAC			
Save Cancel			

Etapa 3. No campo *Mode*, clique no botão de opção **WDS Repeater**. Quando o WDS do roteador é configurado para o modo Repetidor, o WDS designa o ponto de acesso configurado para se conectar a vários pontos de acesso sem uma conexão com fio à LAN, repetindo sinais usando conexão sem fio.

W	DS			1
N N	VDS MAC	ress: 3C:CE:73:8E:04:1E		
1	VDS	V		
N	lode	© WDS Bridge		
		Remote Wireless Bridge's MAC Address		
		MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)		
		MAC 2		
		MAC 3		
		MAC 4		
		WDS Repeater		
		$^{\odot}$ Allow wireless signal to be repeated by a repeater	Ξ	
		MAC 1		
		MAC 2		
		MAC 3		
		MAC 4		
		Repeat wireless signal of a remote access point		
		Remote Access Point's MAC Address (Select one from the site survey list or define your own):		
		Show Available Networks		
		MAC		
	Save	Cancel	Ţ	

Etapa 4. Escolha a opção desejada para o modo Repetidor WDS. As opções disponíveis são definidas da seguinte forma:

Permita que o sinal sem fio seja repetido por um repetidor — Os pontos de acesso designados são usados para repetir o sinal sem fio do dispositivo.

Repetir o sinal sem fio de um ponto de acesso remoto — O dispositivo é usado para repetir o sinal sem fio de outro ponto de acesso sem fio. Se você selecionar essa opção, vá para a Etapa 6.

Etapa 5. Se você escolher **Permitir que o sinal sem fio seja repetido por um repetidor** na Etapa 4, insira o endereço MAC de um ponto de acesso a ser usado como um repetidor no campo *MAC 1*. Você pode configurar pontos de acesso adicionais para usar como repetidores nos campos *MAC 2, MAC 3* e *MAC 4*. Vá para a Etapa 9.

WDS					
WDS MAC A	ddress: 3C:CE:73:8E:04:1E				
WDS	V				
Mode	© WDS Bridge				
	Remote Wireless Bridge's MAC Address				
	MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)				
	MAC 2				
	MAC 3				
	MAC 4				
	WDS Repeater				
	Allow wireless signal to be repeated by a repeater Allow wireless signal to be repeater Allow wireless si				
	MAC 1 00:01:32:23:3C:9D				
	MAC 2				
	MAC 3				
	MAC 4				
	Repeat wireless signal of a remote access point				
	Remote Access Point's MAC Address (Select one from the site survey list or define your own):				
	Show Available Networks				
	MAC				
Save	Cancel				

Etapa 6. Se você escolher **Repeat wireless signal of a remote access point (Repetir sinal sem fio de um ponto de acesso remoto)** na etapa 4, clique em **Show Available Networks (Mostrar redes disponíveis)** para encontrar pontos de acesso sem fio disponíveis para conexão.

W	DS		
v	DS MAC Add	ress: 3C:CE:7	3:8E:04:1E
v	/DS		
N	lode	© WDS Brid	ge
			Remote Wireless Bridge's MAC Address
			MAC 1 (Hint: 00:11:22:33:44:55 or 001122334455)
			MAC 2
			MAC 3
			MAC 4
		WDS Rep	eater
			Allow wireless signal to be repeated by a repeater
			MAC 1
			MAC 2
			MAC 3
			MAC 4
			Repeat wireless signal of a remote access point
			Remote Access Point's MAC Address (Select one from the site survey list or define your own): Show Available Networks
			MAC

A Tabela de redes disponíveis é exibida:

Channel Security	Signal MAC Address	
6 WPA2-Personal	12% 00:01:36:11:3C:9D	*
6 Disabled	45% B8:62:1F:50:07:33	E
6 WPA2-Personal	43% 3C:CE:73:8E:00:2C	
8 WPA2-Personal	48% 00:11:22:22:33:35	
11 WPA2-Personal	42% 00:01:36:11:3C:9D	
10 WPA2-Personal	45% 00:90:A9:F0:23:D3	
6 WPA-Personal	16% 00:0F:66:D9:00:7C	Ŧ
	Channel Security 6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal 10 WPA2-Personal 6 WPA-Personal	Channel Security Signal MAC Address 6 WPA2-Personal 12% 00:01:36:11:3C:9D 6 Disabled 45% B8:62:1F:50:07:33 6 WPA2-Personal 43% 3C:CE:73:8E:00:2C 8 WPA2-Personal 43% 00:11:22:22:33:35 11 WPA2-Personal 42% 00:01:36:11:3C:9D 10 WPA2-Personal 45% 00:09:A9:F0:23:D3 6 WPA-Personal 16% 00:0F:66:D9:00:7C

Passo 7. Marque a caixa de seleção desejada do nome da rede para designar qual ponto de acesso sem fio disponível deseja que o dispositivo repita o sinal.

Repeat wireless signal of a remote acce:	ss point i
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Remote Access Point's MAC Address (Select one from the site survey list or define your own):

A Hide Available Networks

Network Name (SSID)	Channel Security	Signal MAC Address	
cisco-3C9B	6 WPA2-Personal	12% 00:01:36:11:3C:9D	*
ciscosb1	6 Disabled	45% B8:62:1F:50:07:33	=
ciscosb1-KK	6 WPA2-Personal	43% 3C:CE:73:8E:00:2C	-
linksys99	8 WPA2-Personal	48% 00:11:22:22:33:35	
1234567890	11 WPA2-Personal	42% 00:01:36:11:3C:9D	
SQA-1	10 WPA2-Personal	45% 00:90:A9:F0:23:D3	
52237 Connect Refresh	6 WPA-Personal	16% 00:0F:66:D9:00:7C	Ŧ

Etapa 8. Clique no botão **Connect** para adicionar o endereço MAC do ponto de acesso selecionado ao campo *MAC*.

vailable Networks Table				
Network Name (SSID)	Channel Security	Signal	MAC Address	
cisco-3C9B	6 WPA2-Personal	12%	00:01:36:11:3C:9D	*
ciscosb1	6 Disabled	45%	B8:62:1F:50:07:33	=
ciscosb1-KK	6 WPA2-Personal	43%	3C:CE:73:8E:00:2C	
linksys99	8 WPA2-Personal	48%	00:11:22:22:33:35	
1234567890	11 WPA2-Personal	42%	00:01:36:11:3C:9D	
SQA-1	10 WPA2-Personal	45%	00:90:A9:F0:23:D3	
52237	6 WPA-Personal	16%	00:0F:66:D9:00:7C	Ŧ

O campo MAC será atualizado com o endereço MAC da rede selecionada.

WDS Repeater							
	C Allow wireless signal to be	e repeated by a repeater					
	MAC 1						
	MAC 2						
	MAC 3						
	MAC 4						
	Repeat wireless signal of a	a remote access point					
	Remote Access Point's MAC A	ddress (Select one from the site s	urvey list or defi	ne your own):			
	Hide Available Netwo	rks					
	Available Networks Tabl	e	Channel	Contraction	Circal		
	Network Name (SSID)		Channel	Security	Signal	MAC Address	
	CISCO-3C9B		6	WPA2-Personal	12%	00:01:36:11:30:90	Â
	CISCOSb1		6	Disabled	45%	B8:62:1F:50:07:33	Ξ
	ciscosb1-KK		6	WPA2-Personal	43%	3C:CE:73:8E:00:2C	=
	linksys99		8	WPA2-Personal	48%	00:11:22:22:33:35	
	1234567890		11	WPA2-Personal	42%	00:01:36:11:3C:9D	
	SQA-1		10	WPA2-Personal	45%	00:90:A9:F0:23:D3	
	52237		6	WPA-Personal	16%	00:0F:66:D9:00:7C	-
	Connect Refresh						
	MAC 00:01:36:11:	3C:9D					

Etapa 9. Clique em **Salvar** para salvar suas configurações.

eater		
\bigcirc Allow wireless signal to be repeated by a repeater		
MAC 1		
MAC 2		
MAC 3		
MAC 4		
Repeat wireless signal of a remote access point		
Remote Access Point's MAC Address (Select one from the si	ite survey list or define your own):	
Hide Available Networks		
Available Networks Table		^
Network Name (SSID)	Chappel Security	
	Channel Security	Signal MAC Address
Cisco-3C9B	6 WPA2-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D
✓ cisco-3C9B─ ciscosb1	6 WPA2-Personal 6 Disabled	Signal MAC Address 12% 00:01:36:11:3C:9D 45% B8:62:1F:50:07:33
cisco-3C9B ciscosb1 ciscosb1-KK	6 WPA2-Personal 6 Disabled 6 WPA2-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D 45% B8:62:1F:50:07:33 43% 3C:CE:73:8E:00:2C
cisco-3C9B ciscosb1 ciscosb1-KK linksys99	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 8 WPA2-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D 45% B8:62:1F:50:07:33 43% 3C:CE:73:8E:00:2C 48% 00:11:22:22:33:35
 cisco-3C9B ciscosb1 ciscosb1-KK linksys99 1234567890 	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D ▲ 45% B8:62:1F:50:07:33 ■ 43% 3C:CE:73:8E:00:2C ■ 48% 00:11:22:22:33:35 ■ 42% 00:01:36:11:3C:9D ■
cisco-3C9B ciscosb1 ciscosb1-KK linksys99 1234567890 SQA-1	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal 10 WPA2-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D ▲ 45% B8:62:1F:50:07:33 ■ 43% 3C:CE:73:8E:00:2C ■ 48% 00:11:22:22:33:35 ■ 42% 00:01:36:11:3C:9D ■ 45% 00:01:36:11:3C:9D ■
 ✓ cisco-3C9B ciscosb1 ciscosb1-KK linksys99 1234567890 SQA-1 52237 	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal 10 WPA2-Personal 6 WPA-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D ▲ 45% B8:62:1F:50:07:33 ■ 43% 3C:CE:73:8E:00:2C ■ 48% 00:11:22:22:33:35 ■ 42% 00:01:36:11:3C:9D ■ 45% 00:01:36:11:3C:9D ■ 45% 00:01:36:11:3C:9D ■
 ✓ cisco-3C9B ciscosb1 ciscosb1-KK linksys99 1234567890 SQA-1 52237 Connect Refresh 	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal 10 WPA2-Personal 6 WPA-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D • 45% B8:62:1F:50:07:33 • 43% 3C:CE:73:8E:00:2C • 48% 00:11:22:22:33:35 • 42% 00:01:36:11:3C:9D • 45% 09:0:43:F0:23:D3 • 16% 00:0F:66:D9:00:7C •
✓ cisco-3C9B ciscosb1 ciscosb1-KK linksys99 1234567690 SQA-1 52237 Connect Refresh	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal 10 WPA2-Personal 6 WPA-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D 45% B8:62:1F:50:07:33 43% 3C:CE:73:8E:00:2C 46% 00:11:22:22:33:35 42% 00:01:36:11:3C:9D 45% 00:90:A9:F0:23:D3 16% 00:0F:66:D9:00:7C
Image: cisco-3C9B ciscosb1 ciscosb1-KK linksys99 1234567690 SQA-1 52237 Connect Refresh	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal 10 WPA2-Personal 6 WPA-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D 45% B8:62:1F:50:07:33 43% 3C:CE:73:8E:00:2C 48% 00:11:22:22:33:35 42% 00:01:36:11:3C:9D 45% 00:09:A3:F0:23:D3 16% 00:0F:66:D9:00:7C
Image: ciscologic ciscol	6 WPA2-Personal 6 Disabled 6 WPA2-Personal 8 WPA2-Personal 11 WPA2-Personal 10 WPA2-Personal 6 WPA-Personal	Signal MAC Address 12% 00:01:36:11:3C:9D 45% B8:62:1F:50:07:33 43% 3C:CE:73:8E:00:2C 48% 00:11:22:23:35 42% 00:01:36:11:3C:9D 45% 00:90:A3:F0:23:D3 16% 00:0F:66:D9:00:7C