Konfigurieren des Wireless Distribution Systems (WDS) auf der RV130W

Ziel

Ein Wireless Distribution System (WDS) ist ein System, das die Wireless-Verbindung von Access Points (APs) in einem Netzwerk ermöglicht. WDS ermöglicht die Erweiterung eines Wireless-Netzwerks mithilfe mehrerer Access Points, ohne dass ein kabelgebundener Backbone erforderlich ist. Um eine WDS-Verbindung herzustellen, müssen das Gerät und andere Remote-WDS-Peers im gleichen Modus für das Wireless-Netzwerk, den Wireless-Kanal, die Wireless-Bandauswahl und die Verschlüsselungstypen (Keine oder WEP) konfiguriert werden. Weitere Informationen finden Sie unter Konfigurieren der grundlegenden Wireless-Einstellungen auf dem RV130W.

In einer typischen Small Business-Umgebung können Sie WDS im Bridge- oder Repeater-Modus konfigurieren. Der Bridge-Modus ist nützlich, wenn die anderen APs das Netzwerksignal für Ihr Gerät erweitern möchten, das als gemeinsame Verbindung fungiert. Der Repeater-Modus ist nützlich, wenn Ihr Gerät über eine Wireless-Verbindung als Netzwerksignalwiedergabe für andere APs fungieren soll.

In diesem Dokument wird erläutert, wie Sie ein Wireless Distribution System auf der RV130W konfigurieren.

Anwendbare Geräte

·RV130W

Softwareversion

·v1.0.1.3

Konfiguration des Wireless Distribution Systems

Konfiguration von WDS im Bridge-Modus

Schritt 1: Melden Sie sich beim Webkonfigurationsprogramm an, und wählen Sie **Wireless > WDS aus**. Die Seite *WDS* wird geöffnet:

WDS				
WDS	AC Address: 3C:CE:7	/3:8E:04:1E		
WDS				
Mode	WDS Brid	lge		
		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	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		
		Remote Access Point's MAC Address (Select one from the site survey list or define your own):		
		Show Available Networks		
		MAC		
Sav	Cancel			

Schritt 2: Um WDS zu aktivieren, aktivieren Sie das Kontrollkästchen im Feld WDS.

WDS				
WDS MAC A	Address: 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			
	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			

Schritt 3: Klicken Sie im Feld *Modus* auf das Optionsfeld **WDS Bridge**. Wenn das WDS des Routers für den Bridge-Modus konfiguriert ist, legt das WDS den konfigurierten Access Point als gemeinsame Verbindung zwischen mehreren Access Points fest.

WDS				
WDS	AC Address: 3C:CE:73:8E:04:1E			
WDS	$\overline{\checkmark}$			
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			
	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			
Sa	Cancel			

Schritt 4: Geben Sie im Abschnitt *MAC-Adresse* der *Remote Wireless Bridge* die MAC-Adresse eines Access Points als Bridge in das *MAC 1*-Feld ein. Sie können auch zusätzliche Access Points konfigurieren, die als Bridges in den Feldern *MAC 2, MAC 3* und *MAC 4* verwendet werden.

WDS			
WDS MAC	ress: 3C:CE:73:8E:04:1E		
WDS			
Mode	WDS Bridge		
	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 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		

Schritt 5: Klicken Sie auf **Speichern**, um die Änderungen zu speichern.

WDS					
WDS MAC A	ddress: 3C:CE:73:8	8E:04:1E			
WDS					
Mode	WDS Bridge	e			
		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 Repea	ater			
	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 access A signal of access A signal of access A			
		Remote Access Point's MAC Address (Select one from the site survey list or define your own):			
		Show Available Networks			
		MAC			
Save	Cancel				

Konfiguration von WDS im Wireless Repeater-Modus

Schritt 1: Melden Sie sich beim Webkonfigurationsprogramm an, und wählen Sie **Wireless > WDS aus**. Die Seite *WDS* wird geöffnet.

WDS				
WDS	AC Address: 3C:CE:7	/3:8E:04:1E		
WDS				
Mode	WDS Brid	lge		
		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	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		
		Remote Access Point's MAC Address (Select one from the site survey list or define your own):		
		Show Available Networks		
		MAC		
Sav	Cancel			

Schritt 2: Um WDS zu aktivieren, aktivieren Sie das Kontrollkästchen im Feld 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			
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			

Schritt 3: Klicken Sie im Feld *Mode* auf das Optionsfeld **WDS Repeater**. Wenn das WDS des Routers für den Repeater-Modus konfiguriert ist, bestimmt das WDS den konfigurierten Access Point für die Verbindung mit mehreren Access Points ohne kabelgebundene Verbindung zum LAN, indem es Signale über eine Wireless-Verbindung wiederholt.

W	DS			^
w	DS MAC Ad	dress: 3C:CE:73	3:8E:04:1E	
w	/DS			
м	ode	© 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	Е
			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		-

Schritt 4: Wählen Sie die gewünschte Option für den WDS-Repeater-Modus aus. Die verfügbaren Optionen sind wie folgt definiert:

·Wireless-Signale können von einem Repeater wiederholt werden. Mithilfe von festgelegten Access Points wird das Wireless-Signal des Geräts wiederholt.

•Wiederholen des Wireless-Signals eines Remote-Access Points - Das Gerät wird verwendet, um das Wireless-Signal eines anderen Wireless Access Points zu wiederholen. Wenn Sie diese Option auswählen, fahren Sie mit Schritt 6 fort.

Schritt 5: Wenn Sie in Schritt 4 **zulassen** wählen, dass **ein Wireless-Signal von einem Repeater wiederholt wird**, geben Sie die MAC-Adresse eines Access Points als Repeater in das *MAC 1*-Feld ein. In den Feldern *MAC 2*, *MAC 3* und *MAC 4* können Sie zusätzliche Access Points als Wiederholer konfigurieren. Fahren Sie mit Schritt 9 fort.

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			
	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			

Schritt 6: Wenn Sie in Schritt 4 **das Wireless-Signal für einen Remote-Access Point wiederholen** auswählen, klicken Sie auf **Verfügbare Netzwerke anzeigen**, um verfügbare Wireless Access Points für die Verbindung zu finden.

۷	VDS			
	WDS MAC Add	Iress: 3C:CE:7	3:8E:04:1E	
	WDS			
	Mode	© WDS Brid	Ige	
			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	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	
	Remote Access Point's MAC Address (Select one from the site survey list or define your own): Show Available Networks			
			MAC	

Die Tabelle Verfügbare Netzwerke wird angezeigt:

Available 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	-

Schritt 7: Aktivieren Sie das gewünschte Kontrollkästchen des Netzwerknamens, um festzulegen, für welchen drahtlosen Zugangspunkt das Gerät das Signal wiederholen soll.

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	-

Schritt 8: Klicken Sie auf die Schaltfläche Verbinden, um die MAC-Adresse des ausgewählten Access Points dem *MAC*-Feld hinzuzufügen.

wailable 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

Das MAC-Feld wird mit der MAC-Adresse des ausgewählten Netzwerks aktualisiert.

vDS 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 surv	/ey list or defi	ne your own):			
	Remote Access Point's MAC Address (Select one from the site surv Hide Available Networks	vey list or defi	ne your own):			
	Remote Access Point's MAC Address (Select one from the site surv Hide Available Networks	/ey list or defi	ne your own):			
	Remote Access Point's MAC Address (Select one from the site survers) Hide Available Networks	vey list or defi	ne your own):	_		
	Remote Access Point's MAC Address (Select one from the site surverse) Hide Available Networks Available Networks Table Network Name (SSID)	vey list or defi	ne your own): Security	Signal	MAC Address	
	Remote Access Point's MAC Address (Select one from the site surverse) Hide Available Networks Available Networks Table Network Name (SSID) Cisco-3C9B	vey list or defi Channel 6	ne your own): Security ; WPA2-Personal	Signal 12%	MAC Address 00:01:36:11:3C:9D	•
	Remote Access Point's MAC Address (Select one from the site survers) Image: Hide Available Networks Available Networks Table Network Name (SSID) cisco-3C9B ciscosb1	vey list or defi Channel 6 6	ne your own): Security WPA2-Personal	Signal 12% 45%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33	•
	Remote Access Point's MAC Address (Select one from the site survers) Hide Available Networks Available Networks Table Network Name (SSID) cisco-3C9B ciscosb1 ciscosb1-KK	Vey list or defi Channel 6 6 6	ne your own): Security WPA2-Personal Disabled WPA2-Personal	Signal 12% 45% 43%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33 3C:CE:73:8E:00:2C	•
	Remote Access Point's MAC Address (Select one from the site survery) Image: Hide Available Networks Available Networks Table Network Name (SSID) image: ciscosb1 ciscosb1-KK inksys99	Vey list or defi Channel 6 6 6 8	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48%	MAC Address 00:01:36:11:3C:9D B8:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35	* III
	Remote Access Point's MAC Address (Select one from the site survery) Hide Available Networks Available Networks Table Network Name (SSID) ciscosb1 ciscosb1 ciscosb1 linksys99 1234567890	Vey list or defi Channel 6 6 8 11	Security WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 48%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D	* III
	Remote Access Point's MAC Address (Select one from the site surverse) Hide Available Networks Available Networks Table Network Name (SSID) ciscosb1 ciscosb1-KK linksys99 1234567890 SQA-1	Vey list or defi Channel 6 6 8 11 11	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 42% 42%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D 00:90:A9:F0:23:D3	• •
	Remote Access Point's MAC Address (Select one from the site surverse) Hide Available Networks Available Networks Table Network Name (SSID) ciscosb1 ciscosb1-KK linksys99 1234567890 SQA-1 52237	Vey list or defi Channel 6 6 8 11 11 10 6	Security Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 42% 45% 16%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D 00:90:A9:F0:23:D3 00:0F:66:D9:00:7C	* III -

Schritt 9: Klicken Sie auf Speichern, um die Einstellungen zu speichern.

C Allow wireles	ss signal to be repeated by a repeater						
MAC 1							
MAC 2							
MAC 3							
48.C. 4							
NAC 4							
Repeat wirele	ess signal of a remote access point						
Remote Access P	oint's MAC Address (Select one from the	e site survey list or defi	ne your own):				
📕 Hide Avai	lable Networks						
Available Ne	tworks Table						-
Available Ne	tworks Table Name (SSID)	Channel	Security	Signal	MAC Address		
Available Net Network	tworks Table Name (SSID) 98	Channel	Security WPA2-Personal	Signal	MAC Address 00:01:36:11:3C:9D	•	
Available Net Network	tworks Table Name (SSID) 9B	Channel E	Security WPA2-Personal Disabled	Signal 12% 45%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33		
Available Ne Network Cisco-3C ciscosb1	tworks Table Name (SSID) 98 -KK	Channel E E	Security WPA2-Personal Disabled WPA2-Personal	Signal 12% 45% 43%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33 3C:CE:73:8E:00:2C	• •	4 III
Available Net Network Cisco-3C ciscosb1 ciscosb1	tworks Table Name (SSID) 98 -KK	Channel 6 6 6 8	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35		* III
Available Ne Network Cisco-3C Ciscosb1 Ciscosb1 linksys99 1234567	tworks Table Name (SSID) 9B -KK 890	Channel E E E E 11	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 48%	MAC Address 00:01:36:11:3C:9D 88:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D	• Ш	A
Available Ne Network Cisco-3C ciscosb1 inksys98 1234567 SQA-1	tworks Table Name (SSID) 9B -KK 9 890	Channel 6 6 6 11 11	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 42% 42%	MAC Address 00:01:36:11:3C:9D B8:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D 00:90:A9:F0:23:D3	•	A E
Available Net Network Cisco-30 ciscosb1 inksys99 1234567 SQA-1 52237	tworks Table Name (SSID) 98 -KK 9 890	Channel 6 6 6 11 11 10 6	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 42% 42% 45% 16%	MAC Address 00:01:36:11:3C:9D B8:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D 00:90:A9:F0:23:D3 00:0F:66.D9:00:7C	• III •	E
Available Net Network Cisco-3C ciscosh1 linksys98 1234567 SQA-1 52237 Connect	tworks Table Name (SSID) 98 -KK 9 890 Refresh	Channel 6 6 6 11 11 10 6	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 42% 45% 16%	MAC Address 00:01:36:11:3C:9D B8:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D 00:90:A9:F0:23:D3 00:0F:66:D9:00:7C	• III	A E
Available Net Network Cisco-3C ciscosh1 linksys92 1234567 SQA-1 52237 Connect	tworks Table Name (SSID) 98 -KK 9 890 Refresh	Channel 6 6 8 11 10 6	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 42% 45% 16%	MAC Address 00:01:36:11:3C:9D B8:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D 00:90:A9:F0:23:D3 00:0F:66:D9:00:7C	4 III +	A E
Available Net Network Ciscosb1 ciscosb1 linksys98 1234567 SQA-1 52237 Connect	tworks Table Name (SSID) 98 -KK 9 890 Refresh 00:01:36:11:3C:9D	Channel 6 6 8 11 10 6	Security WPA2-Personal Disabled WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 42% 45% 16%	MAC Address 00:01:36:11:3C:9D B6:62:1F:50:07:33 3C:CE:73:8E:00:2C 00:11:22:22:33:35 00:01:36:11:3C:9D 00:90:A3:F0:23:D3 00:0F:66:D9:00:7C		