# 如何在RV130W上配置无线分布系统(WDS)

# 目标

无线分布系统(WDS)是一种在网络中实现接入点(AP)无线互连的系统。WDS允许使用多个接入点扩展无线网络,而无需有线主干来连接它们。要建立WDS链路,设备和其他远程WDS对 等体必须配置在相同的无线网络模式、无线通道、无线频段选择和加密类型(无或WEP)中 。有关详细信息,请参阅*在RV130W上配置基本无线设置*。

在典型的小型企业环境中,您可以在网桥模式或中继器模式下配置WDS。如果希望其他AP扩 展设备的网络信号(充当公共链路),网桥模式非常有用。如果希望设备通过使用无线连接充 当其他AP的网络信号中继器,中继器模式非常有用。

本文档旨在向您展示如何在RV130W上配置无线分布系统。

# 适用设备

·RV130W

## 软件版本

•v1.0.1.3

## 无线分布系统配置

#### 在网桥模式下配置WDS

步骤1.登录Web配置实用程序并选择Wireless > WDS。WDS页面打开:

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				

步骤2.要启用WDS,请选中WDS字段中的复选框。

DS				
DS MAC Address: 3C:CE:73:8E:04:1E				
os 🕡				
ode OWDS 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				

步骤3.在"模式"字段中,单击"**WDS网桥**"单选按钮。当路由器的WDS配置为网桥模式时 ,WDS将配置的接入点指定为多个接入点之间的公共链路。

١	NDS				
	WDS MAC A	ddress: 3C:CE:73:8E:04:1E			
	WDS				
	Mode	VDS 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				

步骤4.在*远程无线网桥的MAC地址*部分,在MAC 1字段中输入要用作网桥的接*入点的*MAC地 址。您还可以在MAC 2、MAC 3和MAC 4字*段中配*置用*作网*桥的其*他接入*点。

WDS				
WDS MAC	ddress: 3C:CE:73:8E:04:1E			
WDS	V			
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			

步骤5.单击"**保存**"保存更改。

١	NDS					
	WDS MAC Add	s: 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				

# WDS在无线中继器模式下的配置

步骤1.登录Web配置实用程序并选择Wireless > WDS。"WDS"页面打开。

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				

步骤2.要启用WDS,请选中WDS字段中的复选框。

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				

步骤3.在Mode字*段中*,单击WDS Repeater**单选按钮**。当路由器的WDS配置为中继器模式时 ,WDS通过使用无线连接重复信号来指定已配置的接入点以连接到多个接入点,而无需有线 连接到LAN。

WDS			^			
WDS MAC	ress: 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	Save Cancel					

步骤4.为WDS中继器模式选择所需选项。可用选项定义如下:

·允许中继器重复无线信号 — 指定接入点用于重复设备的无线信号。

·重复远程接入点的无线信号 — 设备用于重复另一个无线接入点的无线信号。如果选择此选 项,请跳至步骤6。

步骤5.如果在**步骤4中选择允许中继器重复无线信号**,请在MAC 1字段中输入要用作中继器的 接入点*MAC地*址。您可以在MAC 2、MAC 3和MAC 4字*段中配*置其*他接入*点作为*中继*器。跳 至步骤9。

WDS					
WDS MAC	ddress: 3C:CE:73:8E:04:1E				
WDS	$\checkmark$				
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     Allow wireless signal to be repeater     Allow				
	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				

步骤6.如果在步骤4中**选择"重复远程接入点的无线信号"**,请单击"**显示可用网络**"以查找要连接 的可用无线接入点。

١	NDS					
	WDS MAC Add	dress: 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 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			

#### 系统将显示Available Networks表:

Auailable 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	E
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

步骤7.选中所需的网络名称复选框,以指定您希望设备为哪个可用无线接入点重复信号。

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):

Hide Available Networks

0

Network Name (SSID)	Channel Security	Signal MAC Address	
cisco-3C9B	6 WPA2-Personal	12% 00:01:36:11:3C:9D	4
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	-

### 步骤8.单击"连**接"**按钮,将所选接入点的MAC地址添加到"*MAC"*字段。

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

MAC字段将用所选网络的MAC地址更新。

)S Repeater						
	$\bigcirc$ Allow wireless signal to be repeated by a repeater					
	MAC 1					
	MAC 2					
	MAC 3					
	MAC 4					
	Reneat wireless signal of a remote access point					
	Concerns and the second s					
	Remote Access Point's MAC Address (Select one from the site surve	w list or defi	ine vour own):			
	Remote Access Point's MAC Address (Select one from the site surve	y list or defi	ine your own):			
	Remote Access Point's MAC Address (Select one from the site surve	y list or defi	ine your own):			
	Remote Access Point's MAC Address (Select one from the site surver	y list or defi	ine your own):			
	Remote Access Point's MAC Address (Select one from the site surver Hide Available Networks  Available Networks Table	y list or defi	ine your own):			
	Remote Access Point's MAC Address (Select one from the site surver Hide Available Networks  Available Networks Table  Network Name (SSID)	y list or defi Channel	ine your own): Security	Signal	MAC Address	
	Remote Access Point's MAC Address (Select one from the site surver         Hide Available Networks         Available Networks Table         Network Name (SSID)         Cisco-3C9B	y list or defi Channel E	ine your own): Security 3 WPA2-Personal	Signal 12%	MAC Address 00:01:36:11:3C:9D	
	Remote Access Point's MAC Address (Select one from the site surver         Hide Available Networks         Available Networks Table         Network Name (SSID)         cisco-3C9B         ciscosb1	y list or defi Channel E	ine your own): Security WPA2-Personal S Disabled	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 surver         Hide Available Networks         Available Networks Table         Network Name (SSID)         ciscosb1         ciscosb1-KK	Channel E E E	ine 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 surver         Hide Available Networks         Available Networks Table         Network Name (SSID)         ciscosb1         ciscosb1-KK         linksys99	Vist or defi Channel E E E	ine your own): Security WPA2-Personal SWPA2-Personal 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	
	Remote Access Point's MAC Address (Select one from the site surver Hide Available Networks  Available Networks Table  Network Name (SSID)  cisco-3C9B  ciscosb1  ciscosb1  ciscosb1  linksys99  1234567890	V list or defi Channel E E E 11	ine your own): Security WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 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	,
	Remote Access Point's MAC Address (Select one from the site surver Hide Available Networks  Available Networks Table  Network Name (SSID)  cisco-3C9B  ciscosb1  ciscosb1  ciscosb1  ciscosb1  SQA_1	Vist or defi Channel E E E 11	ine your own): Security WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 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 surver         Hide Available Networks         Available Networks Table         Network Name (SSID)         cisco-3C9B         ciscosb1         ciscosb1         linksys99         1234567890         SQA-1         52237	y list or defi Channel 6 6 8 11 11 10 6	Security Security WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal WPA2-Personal	Signal 12% 45% 43% 48% 48% 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 00:0E:68:D9:00:7C	
	Remote Access Point's MAC Address (Select one from the site surver         Image: Hide Available Networks         Available Networks Table         Network Name (SSID)         cisco-3C9B         ciscosb1         ciscosb1         ciscosb1         surves         Inksys99         1234567890         SQA-1         52237         Connect	y list or defi Channel 6 6 8 11 10 10 6	ine your own): Security WPA2-Personal WPA2-Personal 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	

### 步骤9.单击"保**存"**保存设置。

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 surve	ey list or define your own):		
	Hide Available Networks			
	Available Networks Table			
	Network Name (SSID)	Channel Security	Signal MAC Address	
	Cisco-3C9B	6 WPA2-Personal	12% 00:01:36:11:3C:9D	<u> </u>
	Ciscosb1	6 Disabled	45% B8:62:1F:50:07:33	E
	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			
	MAC 00:01:36:11:3C:9D			