如何在RV130W上配置無線分佈系統(WDS)

目標

無線分佈系統(WDS)是在網路中實現接入點(AP)無線互連的系統。WDS允許使用多個接入點 來擴展無線網路,而無需使用有線骨幹鏈路來連線它們。要建立WDS鏈路,裝置和其他遠端 WDS對等體必須在相同的無線網路模式、無線通道、無線頻帶選擇和加密型別(None或 WEP)中配置。有關詳細資訊,請參閱<u>在RV130W上配置基本無線設定</u>。

在典型的小型企業環境中,您可以在網橋模式或中繼器模式下配置WDS。如果您希望其他 AP擴展裝置的網路訊號(充當公共鏈路),網橋模式非常有用。如果希望裝置使用無線連線 充當其他AP的網路訊號中繼器,中繼器模式將很有用。

本文檔旨在向您展示如何在RV130W上配置無線分佈系統。

適用裝置

·RV130W

軟體版本

·v1.0.1.3

無線分佈系統配置

在網橋模式下配置WDS

步驟1.登入到Web配置實用程式並選擇Wireless > WDS。WDS 頁面隨即開啟:

| WDS | |
|--------|--|
| WDS MA | C 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 |
| Jave | |

步驟2.要啟用WDS,請選中WDS欄位中的覈取方塊。

| /DS |
|--|
| WDS MAC Address: 3C:CE:73:8E:04:1E |
| NDS 🕖 |
| 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 |

步驟3.在*Mode*欄位中,按一下**WDS Bridge**單選按鈕。當路由器的WDS配置為網橋模式時 ,WDS會將配置的接入點指定為多個接入點之間的公共鏈路。

| ٧ | VDS | | | | |
|---|---|--|--|--|--|
| | WDS MAC A | ddress: 3C:CE:73:8E:04:1E | | | |
| | WDS | V | | | |
| | Mode | | | | |
| | | 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 | | | |

步驟4.在*遠端無線網橋的MAC地址*部分,在*MAC 1欄位中輸入要用作網橋的接入點的MAC地* 址。您還可以在*MAC 2、MAC 3*和*MAC 4*欄位中配置要用作網橋的其他接入點。

| WDS | | | | | | |
|---------|--|--|--|--|--|--|
| WDS MAC | Address: 3C:CE:73:8E:04:1E | | | | | |
| WDS | V | | | | | |
| Mode | WDS Bridge | | | | | |
| | Remote Wireless Bridge's MAC Address | | | | | |
| | s: 3C.CE:73:8E:04:1E WDS Bridge Remote Wireless Bridge's MAC Address MAC 1 00:11:3E:8E:44:55 MAC 2 MAC 3 MAC 4 WDS Repeater MAC 1 MAC 2 MAC 3 MAC 4 WDS Repeater MAC 3 MAC 4 @ Repeat wireless signal to be repeated by a repeater 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): Image: Show Available Networks MAC MAC | | | | | |
| | 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 | | | | | |

步驟5.按一下Save以儲存變更。

| 1 | WDS | |
|---|-------------|--|
| | WDS MAC Add | ss: 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 |
| | | D 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 |

無線中繼器模式下的WDS配置

步驟1.登入到Web配置實用程式並選擇Wireless > WDS。WDS頁面隨即開啟。

| WDS | |
|--------|--|
| WDS MA | C 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 |
| Jave | |

步驟2.要啟用WDS,請選中WDS欄位中的覈取方塊。

| /DS |
|--|
| WDS MAC Address: 3C:CE:73:8E:04:1E |
| NDS 🕖 |
| 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 |

步驟3.在*Mode*欄位中,按一下**WDS Repeater**單選按鈕。當路由器的WDS配置為中繼器模式時,WDS會指定已配置的接入點通過無線連線重複訊號,連線到多個無線接入點,而無需有線連線至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 | | н | | |
| | 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 | | Ŧ | | |

步驟4.為WDS中繼器模式選擇所需的選項。可用選項定義如下:

·允許中繼器重複無線訊號 — 指定接入點用於重複裝置的無線訊號。

·重複遠端接入點的無線訊號 — 該裝置用於重複另一個無線接入點的無線訊號。如果選擇此 選項,請跳至步驟6。

步驟5.如果您在步驟4中選擇Allow wireless signal to be repeated by a repeater (允許中繼器 重複無線訊號),請在MAC 1欄位中輸入要用作中繼器的接入點的MAC地址。您可以在MAC 2、MAC 3和MAC 4欄位中配置要用作中繼器的其他接入點。跳至步驟9。

| WDS | |
|-----------|--|
| WDS MAC A | ddress: 3C:CE:73:8E:04:1E |
| WDS | |
| Mode | © WDS Bridge |
| | Remote Wireless Bridge's MAC Address |
| | ess: 3C:CE:73:8E:04:1E 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 Remote Access Point's MAC Address point Remote Access Point's MAC Address (Select one from the site survey list or define your own): MAC Cancel |
| | 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 |

步驟6.如果您在步驟4中選擇**重複遠端接入點的無線訊號,請按一下顯示可用網路**以查詢要連 線的可用無線接入點。

| 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 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 | | | |

系統將顯示Available Networks表:

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): 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 . 6 Disabled 45% B8:62:1F:50:07:33 ciscosb1 Ξ 6 WPA2-Personal 43% 3C:CE:73:8E:00:2C Ciscosb1-KK Ξ 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

步驟7.選中所需的網路名稱覈取方塊,以指定希望裝置為其重複訊號的可用無線接入點。

|--|

Remote Access Point's MAC Address (Select one from the site survey list or define your own):

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 | 1 |
| 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 | T |

步驟8.按一下Connect按鈕將所選接入點的MAC地址新增到MAC欄位。

| 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欄位將使用所選網路的MAC地址更新。

| WDS Repeater | |
|--------------|--|
|--------------|--|

| C Allow wireles | s 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):

Hide Available Networks

| | Network Name (SSID) | Channel | Security | Signal | MAC Address | |
|---|---------------------|---------|-----------------|--------|-------------------|---|
| V | cisco-3C9B | ε |) WPA2-Personal | 12% | 00:01:36:11:3C:9D | - |
| | ciscosb1 | e |) Disabled | 45% | B8:62:1F:50:07:33 | = |
| | ciscosb1-KK | ε |) WPA2-Personal | 43% | 3C:CE:73:8E:00:2C | - |
| | linksys99 | ε | 3 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 | | | | | |

步驟9.按一下Save以儲存設定。

| WDS Repeate | | | |
|-------------|--|------------------------------|-----------------------|
| | Allow wireless signal to be repeated by a repeater | | |
| | MAC 1 | | |
| | MAC 2 | | |
| | MAC 3 | | |
| | MACA | | |
| | WAC 4 | | |
| | Repeat wireless signal of a remote access point | | |
| | Remote Access Point's MAC Address (Select one from the site surv | 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 |
| | ciscosb1 | 6 Disabled | 45% B8:62:1F:50:07:33 |
| | ciscosb1-KK | 6 VVPA2-Personal | 43% 3C:CE:73:8E:00:2C |
| | linksys99 | 8 WPA2-Personal | 48% 00:11:22:22:33:35 |
| | 1234567890 | 11 VVPA2-Personal | 42% 00:01:36:11:3C:9D |
| | SQA-1 | 10 VVPA2-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 | | |
| Save Cancel | | | |