You can use the following steps to configure a VLAN with RocketLinx managed switches.

- Create a VLAN
- Add a port as a member of a VLAN (Page 3)
- Configuring VLAN ports (Page 4)
- Removing a VLAN (Page 5)
- <u>Note</u>: Although the images in this document illustrate an ES7510-XT, this procedure is the same on all RocketLinx managed switches.

# **Creating a VLAN**

Use the following steps to create a VLAN.

1. Open your web browser, login, and access the VLAN Configuration page.

ROCKETLINX	S7510-XT	
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□ ES7510-XT - □ System	VLAN Configuration	
<ul> <li></li></ul>	Management VLAN ID 1	
Can Set Configuration		
VLAN Port Configuration	VLAN ID Name	
Private VLAN     Traffic Prioritization     Multicast Filtering	Add	
	Static VLAN Configuration	
← ☐ Security ← ☐ Warning	VLAN ID         Name         1         2         3         4         5         6         7         8         9	10
<ul> <li>Monitor and Diag</li> <li>Device Front Panel</li> </ul>	1 VLAN1 U U U U U U U U	U ^
- Save		
		-
	Apply Remove Reload	

ROCKETLINX ES7510-XT

- 2. Under the **Static VLAN** section:
  - a. Enter the desired VLAN ID (1-4094).
  - b. Enter the VLAN Name, which is a string that cannot include spaces. If you do not enter a VLAN name, a VLAN name is assigned, for example, VLAN2.
  - c. Click Add.

The new VLAN appears in the **Static VLAN** section after clicking the **Add** button as highlighted in the next image.

COMTROL' 📑 ES7510-XT VLAN Configuration System 🔶 📑 Basic Setting Management VLAN ID 1 - 📑 Port Configuration 🗝 📑 Power over Ethernet Apply - 🗂 Network Redundancy - 📑 VLAN VLAN Port Configuration Static VLAN VLAN Configuratio VLAN ID Name GVRP Configuration Quad\_2 🗋 VLAN Table 🗝 📑 Private VLAN Add 🕶 🗂 Traffic Prioritization - 🗂 Multicast Filtering Static VLAN Configuration - C Security 1 2 3 4 5 6 7 8 9 10 VLAN ID Name - C Warning - 🗂 Monitor and Diag VLAN1 U U U U U U U U U 1 Device Front Panel Save Logout

Remove

Reload

Apply

 Click the Apply button in the Static VLAN Configuration section to apply changes. Make sure you Save the changes before exiting the web page if you want a permanent change.

ES7510-XT   System   Basic Setting   Pott Configuration   Network Redundancy   VLAN Port Configuration   VLAN Configuration   VLAN Configuration   VLAN Configuration   VLAN Configuration   VLAN Table   Private VLAN   Private VLAN   Multicast Filtering   SNMP   Security   Monitor and Diag   Device Front Panel   Save   Logout	<b>ROCKET</b> <i>LINX</i>	ES7510-2	ХT											
ES7510-XT VLAN Configuration   System Basic Setting   Port Configuration Management VLAN ID   Power over Ethernet Apply   Network Redundancy VLAN   VLAN VLAN Toonfiguration   VLAN Configuration Static VLAN   VLAN Table VLAN Table   VLAN Table Add   Multicast Filtering Static VLAN Configuration   Static VLAN Configuration VLAN ID   Multicast Filtering Static VLAN Configuration   Monitor and Diag 1   Device Front Panel 2   Save 3   Logout VLAN3	COMTROL'													
Basic Setting   Port Configuration   Power over Ethernet   Network Redundancy   VLAN   VLAN Port Configuration   VLAN Configuration   VLAN Configuration   VLAN Table   VLAN Table   Multicast Filtering   Static VLAN Configuration   Multicast Filtering   Security   Warning   Monitor and Diag   Device Front Panel   Save   Logout	ES7510-XT	VLAN Co	onfiguration	ı										
Prover over over over over over over over	Basic Setting     Ort Configuration	Managen	nent VLAN ID	1										
VLAN Port Configuration   VLAN Configuration   VLAN Configuration   VLAN Table   Private VLAN   Traffic Prioritization   Multicast Filtering   SNMP   Security   Warning   Outro and Diag   Device Front Panel   Save   Logout     VLAN ID     Nume   VLAN ID     Nume     VLAN ID     Nume   Quad_2   VLAN3     VLAN ID     VIAN ID <t< td=""><td>Control of the second and a second and</td><td>Apply</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Control of the second and a second and	Apply												
VLAN Configuration         GVRP Configuration         VLAN Table         Traffic Prioritization         Multicast Filtering         Security         Warning         Monitor and Diag         Device Front Panel         Save         Logout	VLAN Port Configuration	Static VL	AN											
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Multicast Filtering       SNMP         SNMP       Security         Warning       VLAN ID       Name       1       2       3       4       5       6       7       8       9       10         Monitor and Diag       1       VLAN ID       Name       1       2       3       4       5       6       7       8       9       10         Device Front Panel       2       Quad_2       -	Traffic Prioritization	Add												
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← ☐ Monitor and Diag       1       VLAN1       U<	<ul> <li>Getainty</li> <li>Warning</li> </ul>	VLAN ID	Name	1	2	3	4	5	6	7	8	9	10	
□ Device Front Panel     2     Quad_2     -	🕶 🚍 Monitor and Diag	1	VLAN1	U	U	U	U	υι	J	U	U	U	U	-
3 VLAN3	Device Front Panel	2	Quad_2			-	[			-	-			
	Save	3	VLAN3			-			-					
Apply Remove Reload		Apply	Remove	F	teloa	d	]						-	•

4. To add ports to the new VLANs, go to the next procedure.

# Adding a Port as a Member to a VLAN

The Static VLAN Configuration table lists each VLAN with a drop-down box for each port on the switch.

Each drop-down box has the options of **U** for untagged, **T** for tagged, and a dashed line that denotes the port is not a member of that VLAN.

Static VLAN Configuration

- <u>Untagged ports</u> do not attach VLAN tags to packets. Packets tagged for a particular VLAN are forwarded to all ports that are untagged members of that VLAN. Therefore any ports that are connected to devices that are not VLAN aware (almost all devices with the exception of networking devices such as switches and access points).
- <u>Tagged ports</u> attach VLAN tags to packets. Tagged packets are forwarded to other VLAN aware devices (for example, switches). Switches that received tagged packets for a VLAN forward those packets to any of its ports that are untagged members of that VLAN.

Use this procedure to add a port to a VLAN.

- 1. If you have not done so, navigate to the VLAN Configuration page.
- To add an <u>untagged</u> port to a VLAN set the drop-down box for that port and VLAN to U. The following image shows Port 1 being added as an untagged port to the VLAN named *Quad\_2*.
- 3. Click the **Apply** button or optionally configure additional ports before clicking the **Apply** button.

VLAN ID	Name	1	2	3	4	5	6	7	8	9	10	
1	VLAN1	U	Γ	U	U	U	U	U	U	U	U	1
2	Quad_2	-	l-									
3	VLAN3		F	-		-		-	-	-	-	
		Ę	/									•
Apply	Remove	F	Relo	ad								



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ES7510-XT - D System	VLAN C	onfiguratior	ı										
Gasic Setting     Gasic S	Manage	ment VLAN ID	ŀ	1		]							
Network Redundancy     VLAN     Over Configuration	Static VL	.AN											
VLAN Configuration     GVRP Configuration     VLAN Table	VLAN ID	Name											
Private VLAN     Traffic Prioritization     Multicast Filtering	Add												
	Static VL	AN Configura	tior	1									
• C Security	VLAN ID	Name	1	2	3	4	5	6	7	8	9	10	
🗠 🚍 Monitor and Diag	1	VLAN1	U	U	U	U	U	U	U	U	U	U	4
Device Front Panel	2	Quad_2	U										
	3	VLAN3											
						_							
(	Aroly	Remove	F	Reloa	ad								

- 4. To add a <u>tagged</u> port to a VLAN set the drop-down box for that port VLAN to **T**. The following image shows Port 2 being added as a tagged port to a VLAN named *Quad\_2*.
- 5. Click the **Apply** button or optionally configure additional ports



and

before clicking the **Apply** button.

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ES7510-XT  System  Port Configuration  Power over Ethernet  Network Redundancy  VLAN  VLAN VLAN Port Configuration  VLAN Configuration  VLAN Table  Private VLAN	VLAN Co Managem Apply Static VLA VLAN ID	nfiguration eent VLAN ID AN Name	1	1		]							
Traffic Prioritization  Multicast Filtering	Statio VII		<b>4</b> 1	_									
► 🗂 Security	Static VL/	AN Configura	uor									_	_
≻ 🗂 Warning	VLAN ID	Name	1	2	3	4	5	6	7	8	9	10	
🛏 📑 Monitor and Diag	1	VLAN1	U	U	U	U	U	U	U	U	U	U	-
Device Front Panel	2	Quad_2	U	Т									
- D Save	3	VLAN3											

6. Go to the next procedure to complete the process of setting up a VLAN.

# **Configure a Port for the VLAN**

Use the following steps to configure a port for a VLAN.

1. If necessary, open your web browser, login, and access the VLAN Port Configuration page.

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ES7510-XT  System  System  Pasic Setting  Port Configuration  City of the setting  City of t	VLAN VLAN	Port (	Configuration			
Power over Etnemet     Power over Etnemet	Port	PVID	Tunnel Mode	Accept Frame Type	Ingress Filtering	
	1	1	None	Admit All	Disable	
- 🗋 VLAN Port Configuration	2	1	None	Admit All	Disable	*
<ul> <li>VLAN Configuration</li> </ul>	3	1	None	Admit All	Disable	
GVRP Configuration	4	1	None	Admit All	Disable	ř.
	5	1	None	Admit All	Disable	ŕ
🔶 📑 Traffic Prioritization	6	1	None	Admit All	Disable	
Multicast Filtering	7	1	None	Admit All	Disable	ŕ
∽	8	1	None	Admit All	Disable	ŕ
• 📑 Warning	9	1	None	Admit All	Disable	i i
← 🗂 Monitor and Diag — 🗋 Device Front Panel	10	1	None	Admit All	Disable	-
- 🗋 Save - 🗋 Logout	Арр	ly				

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ES7510-XT

- 🗋 System

- 📑 Basic Setting

- Configuration

> Save 🗋 Logout

- 2. Double-click the existing PVID value for the port that you want to make a member, highlight the existing value and change the port PVID value to the VLAN. This image shows adding Port 2 to the VLAN named Quad\_2.
- 3. Click the Apply button
- 4. Make sure that you Save the changes if you want the changes to be permanent.

#### ROCKETLINX ES7510-XT

**VLAN Port Configuration** 

#### **VLAN Port Configuration**

Power over Ethernet     Detwork Redundancy	Port	PVID	Tunnel Mode	Accept Frame Type	Ingress Filtering	
	1	1	None	Admit All	Disable	
- 🗋 VLAN Port Configuration	2	2	None	Admit All	Disable	
VLAN Configuration	3	1	None	Admit All	Disable	
GVRP Configuration	4	1	None	Admit All	Disable	
Private VLAN	5	1	None	Admit All	Disable	
Traffic Prioritization	6	1	None	Admit All	Disable	
• 📑 Multicast Filtering	7	1	None	Admit All	Disable	
← ☐ SIMIP ← ☐ Security	8	1	None	Admit All	Disable	
🔶 📑 Warning	9	1	None	Admit All	Disable	
<ul> <li>Monitor and Diag</li> <li>Device Frent Banel</li> </ul>	10	1	None	Admit All	Disable	-
Save	Арј	ply 💡	)			

# **Removing a VLAN**

Use these steps to remove a VLAN.

- 1. Open your web browser, login, and access the VLAN Configuration page.
- 2. Highlight the VLAN in the Static VLAN Configuration table that you want to remove.

VLAN Co Managem Apply Static VL/	onfiguration Nent VLAN ID	ı E	1		]						
VLAN Co Managem Apply Static VL/	onfiguration Ient VLAN ID	ı E	1		]						
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Static VL/											
	AN										
VLAN ID	Name										
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Static VL/	AN Configura	tior	n								
VLAN ID	Name	1	2	3	4	5	6	7	8	9	10
	VEANT	0	U	U	U	υ	•	U			<u> </u>
3	VLAN3										
		``````````````````````````````````````	,								
	Add Static VLA VLAN ID 2 3	Add Static VLAN Configura VLAN ID Name VLAN ID Name VLAN ID Name Quad_2 Quad_2 VLAN3 Apply Remove	Add Static VLAN Configuration VLAN ID Name 1 1 VLAN ID Name 1 2 Quad_2 U 3 VLAN3 -	Add Static VLAN Configuration VLAN ID Name 1 2 1 VLAN ID Name 1 2 2 Quad_2 U - 3 VLAN3	VLAN ID         Name           Add           Static VLAN Configuration           VLAN ID         Name         1         2         3           1         VLAN I         U         U         U           2         Quad_2         U         -         -           3         VLAN3         -         -         -	VLAN ID         Name           Add           Static VLAN Configuration           VLAN ID         Name         1         2         4           1         VLAN ID         Name         1         2         4           1         VLAN ID         Name         1         2         4           1         VLAN ID         U         U         U         0           2         Quad_2         U         -         -         -           3         VLAN3         -         -         -         -           Apply         Remove         Reload         -	VLAN ID         Name           Add           Static VLAN Configuration           VLAN ID         Name           1         VLAN ID           2         Quad_2           3         VLAN3           -         -           Apply         Remove	VLAN ID         Name           Add           Static VLAN Configuration           VLAN ID         Name         1         2         3         5         6           1         VLAN ID         Name         1         2         6         0         0         0         0           2         Quad_2         U         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - 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        -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	VLAN ID         Name           Add           Static VLAN Configuration           VLAN ID         Name         1         2         3         4         5         6         7         8           1         VLAN ID         Name         1         2         0         0         0         0         0           2         Quad_2         U         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - 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