

Bandwidth Configuration on the 200/300 Series Managed Switches

Objective

The amount of traffic sent or received by the system is controlled by the bandwidth set. The bandwidth depends upon two values, Ingress Rate Limit and Egress Shaping Rate. You can adjust these values for each interface to adapt them to the network requirements.

This document showcases the procedure to configure Bandwidth on the 200/300 Series Managed Switches.

Applicable Devices

- SF/SG 200 and SF/SG 300 Series Managed Switches

Software Version

- v1.2.7.76

Configuring Bandwidth

This section explains how to configure the bandwidth of an interface.

Step 1. Log in to the web configuration utility and choose **Quality of Service > General > Bandwidth**. The *Bandwidth* window opens:

Bandwidth

Bandwidth Table Showing 1-20 of 20 **All** per page

Filter: *Interface Type* equals to **Port**

Entry No.	Interface	Ingress Rate Limit			Egress Shaping Rates		
		Status	Rate Limit (KBits/sec)	%	Status	CIR (KBits/sec)	CBS (Bytes)
<input checked="" type="radio"/>	1 GE1	Disabled			Disabled		
<input type="radio"/>	2 GE2	Disabled			Disabled		
<input type="radio"/>	3 GE3	Disabled			Disabled		
<input type="radio"/>	4 GE4	Disabled			Disabled		
<input type="radio"/>	5 GE5	Disabled			Disabled		
<input type="radio"/>	6 GE6	Disabled			Disabled		
<input type="radio"/>	7 GE7	Disabled			Disabled		
<input type="radio"/>	8 GE8	Disabled			Disabled		
<input type="radio"/>	9 GE9	Disabled			Disabled		
<input type="radio"/>	10 GE10	Disabled			Disabled		
<input type="radio"/>	11 GE11	Disabled			Disabled		
<input type="radio"/>	12 GE12	Disabled			Disabled		
<input type="radio"/>	13 GE13	Disabled			Disabled		
<input type="radio"/>	14 GE14	Disabled			Disabled		
<input type="radio"/>	15 GE15	Disabled			Disabled		
<input type="radio"/>	16 GE16	Disabled			Disabled		
<input type="radio"/>	17 GE17	Disabled			Disabled		
<input type="radio"/>	18 GE18	Disabled			Disabled		
<input type="radio"/>	19 GE19	Disabled			Disabled		
<input type="radio"/>	20 GE20	Disabled			Disabled		

Step 2. Click the radio button of the interface you wish to configure its bandwidth.

Step 3. Click **Edit**. The *Edit Bandwidth* window appears.

Interface: Port **GE1** LAG **1**

Ingress Rate Limit: **Enable**

Ingress Rate Limit: KBits/sec. (Range: 100 - 1000000, Default: 100)

Egress Shaping Rate: **Enable**

Committed Information Rate (CIR): KBits/sec. (Range: 64 - 1000000, Default: 64)

Committed Burst Size (CBS): Bytes (Range: 4096 - 16762902, Default: 128000)

Step 4. In the Ingress Rate Limit field, to enable ingress rate limit, check the **Enable** check box. Ingress Rate Limit limits ingress traffic on the interface.

Step 5. If you checked the Ingress Rate Limit check box in Step 4, in the Ingress Limit field, enter the maximum amount of bandwidth for ingress traffic on the particular interface.

Step 6. In the Egress Shaping Rate field, to enable egress rate limit, check the **Enable** check box. Egress Rate Limit limits the egress traffic on the interface.

Step 7. If you checked the Egress Shaping Rate check box in Step 6., in the Egress Shaping Rate field, enter the maximum amount of bandwidth for egress traffic on the particular interface.

Step 8. In the Committed Information Rate (CIR) field, enter the value in this field to set the maximum allowed bandwidth for the Egress Shaping Rate interface.

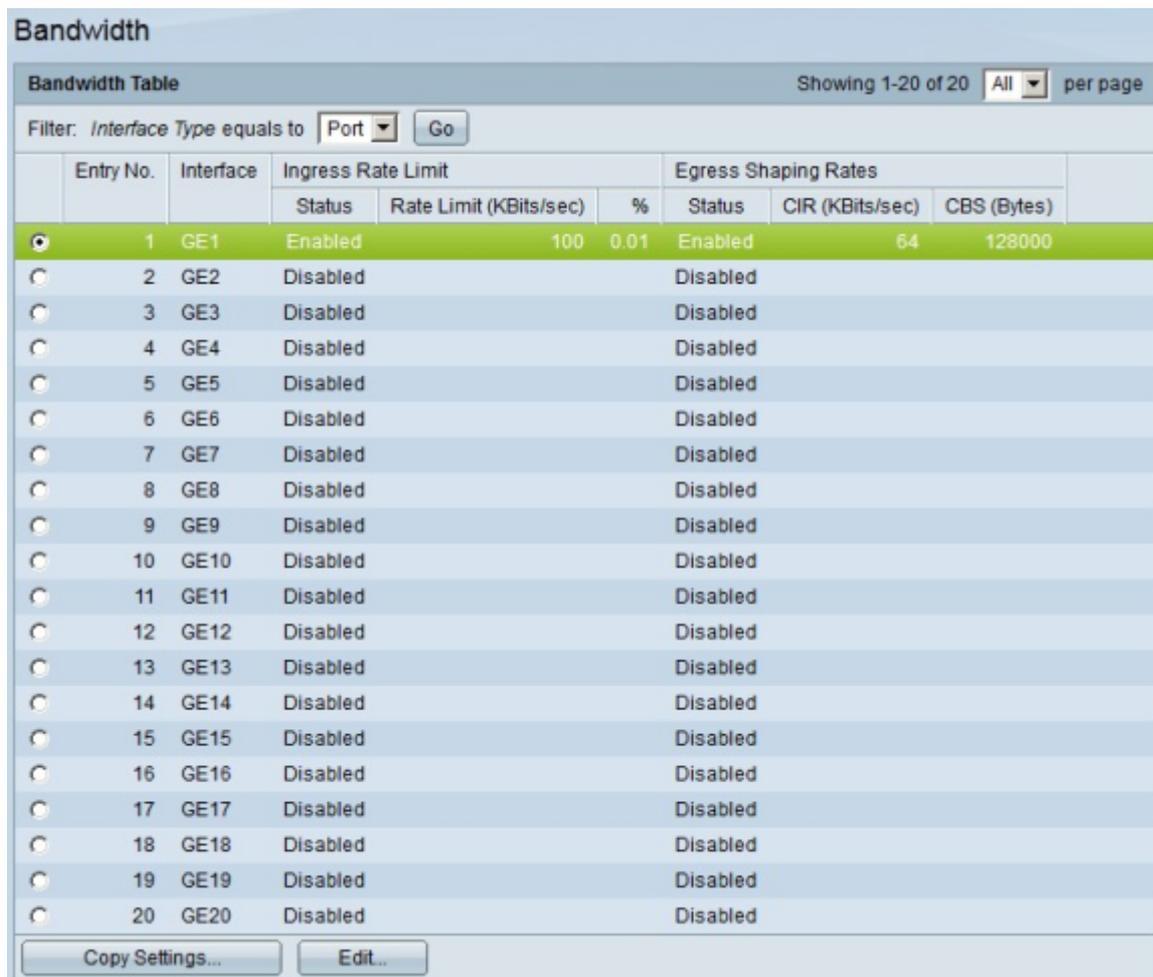
Step 9. In the Committed Burst Size (CBS) field, enter the maximum burst size of data in bytes allowed for the egress interface.

Step 10. Click **Apply** to apply the settings.

Apply an Interface configuration to Multiple Interfaces

This section describes how to apply an egress shaping configuration of a single interface to multiple interfaces.

Step 1. Log in to the web configuration utility and choose **Quality of Service > General > Bandwidth**. The *Bandwidth* page opens.

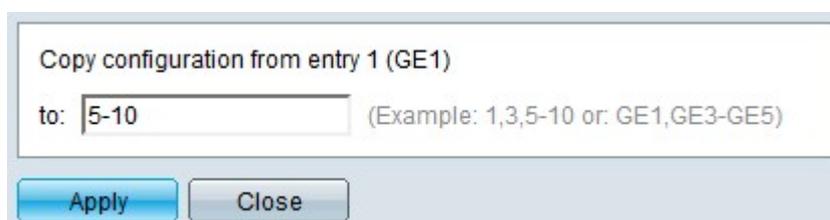


The screenshot shows the 'Bandwidth' configuration page. At the top, it says 'Bandwidth Table' and 'Showing 1-20 of 20 All per page'. Below this is a filter section: 'Filter: Interface Type equals to Port Go'. The main table has columns for 'Entry No.', 'Interface', 'Ingress Rate Limit' (with sub-columns for Status, Rate Limit (KBits/sec), and %), and 'Egress Shaping Rates' (with sub-columns for Status, CIR (KBits/sec), and CBS (Bytes)). The first row (Entry 1, GE1) is highlighted in green and shows 'Enabled' for Ingress Rate Limit (100 KBits/sec, 0.01%) and 'Enabled' for Egress Shaping Rates (64 KBits/sec CIR, 128000 Bytes CBS). All other rows (Entries 2-20, GE2-GE20) are disabled. At the bottom of the table are 'Copy Settings...' and 'Edit...' buttons.

Entry No.	Interface	Ingress Rate Limit			Egress Shaping Rates		
		Status	Rate Limit (KBits/sec)	%	Status	CIR (KBits/sec)	CBS (Bytes)
1	GE1	Enabled	100	0.01	Enabled	64	128000
2	GE2	Disabled			Disabled		
3	GE3	Disabled			Disabled		
4	GE4	Disabled			Disabled		
5	GE5	Disabled			Disabled		
6	GE6	Disabled			Disabled		
7	GE7	Disabled			Disabled		
8	GE8	Disabled			Disabled		
9	GE9	Disabled			Disabled		
10	GE10	Disabled			Disabled		
11	GE11	Disabled			Disabled		
12	GE12	Disabled			Disabled		
13	GE13	Disabled			Disabled		
14	GE14	Disabled			Disabled		
15	GE15	Disabled			Disabled		
16	GE16	Disabled			Disabled		
17	GE17	Disabled			Disabled		
18	GE18	Disabled			Disabled		
19	GE19	Disabled			Disabled		
20	GE20	Disabled			Disabled		

Step 2. Click the radio button of the interface you want to apply its bandwidth configuration to multiple interfaces.

Step 3. Click **Copy Settings**. The *Copy Settings* window appears.



The screenshot shows a 'Copy Settings' dialog box. It contains the text 'Copy configuration from entry 1 (GE1)'. Below this is a 'to:' label followed by a text input field containing '5-10' and a note '(Example: 1,3,5-10 or: GE1,GE3-GE5)'. At the bottom are 'Apply' and 'Close' buttons.

Step 4. In the to field, enter the range of interfaces that you want to apply the configuration of the interface chosen in Step 2. You can use the interface numbers or the name of the interfaces as input. You can enter each interface separated by a comma (For example: 1, 3, 5 or GE1, GE3, GE5) or you can enter a range of interfaces (For example: 1-5 or GE1-GE5).

Step 5. Click **Apply** to save your configuration.

The image below depicts the changes after the configuration.

Bandwidth

Bandwidth Table Showing 1-20 of 20 per page

Filter: *Interface Type* equals to

Entry No.	Interface	Ingress Rate Limit			Egress Shaping Rates		
		Status	Rate Limit (KBits/sec)	%	Status	CIR (KBits/sec)	CBS (Bytes)
<input type="radio"/>	1 GE1	Enabled	100	0.01	Enabled	64	128000
<input type="radio"/>	2 GE2	Disabled			Disabled		
<input type="radio"/>	3 GE3	Disabled			Disabled		
<input type="radio"/>	4 GE4	Disabled			Disabled		
<input type="radio"/>	5 GE5	Enabled	100	0.01	Enabled	64	128000
<input type="radio"/>	6 GE6	Enabled	100	0.01	Enabled	64	128000
<input type="radio"/>	7 GE7	Enabled	100	0.01	Enabled	64	128000
<input type="radio"/>	8 GE8	Enabled	100	0.01	Enabled	64	128000
<input type="radio"/>	9 GE9	Enabled	100	0.01	Enabled	64	128000
<input type="radio"/>	10 GE10	Enabled	100	0.01	Enabled	64	128000
<input type="radio"/>	11 GE11	Disabled			Disabled		
<input type="radio"/>	12 GE12	Disabled			Disabled		
<input type="radio"/>	13 GE13	Disabled			Disabled		
<input type="radio"/>	14 GE14	Disabled			Disabled		
<input type="radio"/>	15 GE15	Disabled			Disabled		
<input type="radio"/>	16 GE16	Disabled			Disabled		
<input type="radio"/>	17 GE17	Disabled			Disabled		
<input type="radio"/>	18 GE18	Disabled			Disabled		
<input type="radio"/>	19 GE19	Disabled			Disabled		
<input type="radio"/>	20 GE20	Disabled			Disabled		