

SG350XG和SG550XG交换机上的带宽配置

目标

“带宽”(Bandwidth)页面使用户能够定义两个值：入口速率限制(Ingress Rate Limit)和出口整形速率(Egress Shaping Rate)，这决定了系统可以接收和发送的流量。

本文档旨在向您展示如何在SG350XG和SG550XG交换机上配置带宽。

注意：本文档中的步骤在高级显示模式下执行。要更改高级显示模式，请转到右上角并在“显示模式”下拉列表中选择“高级”。

适用设备

- SG350XG
- SG550XG

软件版本

- V2.0.0.73

配置带宽

步骤1. 登录Web配置实用程序，然后选择Quality of Service > **General** > **Bandwidth**。“带宽”(Bandwidth)页面打开。

Bandwidth

Bandwidth Table

Filter: *Interface Type* equals to

| | Entry No. | Interface | Ingress Rate Limit | | | Egress Shaping Rates | | | |
|-----------------------|-----------|-----------|--------------------|------------------------|---|----------------------|----------|-----------------|-------------|
| | | | Status | Rate Limit (KBits/sec) | % | CBS (Bytes) | Status | CIR (KBits/sec) | CBS (Bytes) |
| <input type="radio"/> | 1 | XG1 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 2 | XG2 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 3 | XG3 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 4 | XG4 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 5 | XG5 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 6 | XG6 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 7 | XG7 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 8 | XG8 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 9 | XG9 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 10 | XG10 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 11 | XG11 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 12 | XG12 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 13 | XG13 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 14 | XG14 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 15 | XG15 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 16 | XG16 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 17 | XG17 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 18 | XG18 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 19 | XG19 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 20 | XG20 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 21 | XG21 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 22 | XG22 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 23 | XG23 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 24 | XG24 | Disabled | | | | Disabled | | |

步骤2.在过滤器中：接口类型等于下拉列表，选择所需的设备端口或LAG。Port of Unit选项表示您正在选择堆栈中特定设备上的端口，而LAG表示您正在选择链路聚合组。选择所需选项后，单击Go。

| Bandwidth Table | | | | | | | | | |
|---|-----------|---------|----------|------------------------|---|-------------|----------------------|-----------------|-------------|
| Filter: <i>Interface Type</i> equals to Port of Unit 1 Go | | | | | | | | | |
| Entry No. | Interface | Ingress | | | | | Egress Shaping Rates | | |
| | | | Status | Rate Limit (KBits/sec) | % | CBS (Bytes) | Status | CIR (KBits/sec) | CBS (Bytes) |
| <input checked="" type="radio"/> | 1 | XG1 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 2 | XG2 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 3 | XG3 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 4 | XG4 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 5 | XG5 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 6 | XG6 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 7 | XG7 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 8 | XG8 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 9 | XG9 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 10 | XG10 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 11 | XG11 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 12 | XG12 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 13 | XG13 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 14 | XG14 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 15 | XG15 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 16 | XG16 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 17 | XG17 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 18 | XG18 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 19 | XG19 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 20 | XG20 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 21 | XG21 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 22 | XG22 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 23 | XG23 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 24 | XG24 | Disabled | | | | | Disabled | |

注意：如果堆栈中有更多设备，您将有更多选项（例如，设备2的端口）。

步骤3.单击要配置带宽设置的接口的单选按钮，然后单击**编辑...**

| Bandwidth Table | | | | | | | | | |
|---|-----------|-----------|--------------------|------------------------|---|-------------|----------------------|-----------------|------------|
| Filter: <i>Interface Type</i> equals to <input type="text" value="Port of Unit 1"/> <input type="button" value="Go"/> | | | | | | | | | |
| | Entry No. | Interface | Ingress Rate Limit | | | | Egress Shaping Rates | | |
| | | | Status | Rate Limit (KBits/sec) | % | CBS (Bytes) | Status | CIR (KBits/sec) | CBS (Byte) |
| <input checked="" type="radio"/> | 1 | XG1 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 2 | XG2 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 3 | XG3 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 4 | XG4 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 5 | XG5 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 6 | XG6 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 7 | XG7 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 8 | XG8 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 9 | XG9 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 10 | XG10 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 11 | XG11 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 12 | XG12 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 13 | XG13 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 14 | XG14 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 15 | XG15 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 16 | XG16 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 17 | XG17 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 18 | XG18 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 19 | XG19 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 20 | XG20 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 21 | XG21 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 22 | XG22 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 23 | XG23 | Disabled | | | | | Disabled | |
| <input type="radio"/> | 24 | XG24 | Disabled | | | | | Disabled | |

Copy Settings...

系统将显示“编辑带宽”窗口：

| | | | |
|---|--|---|--|
| Interface: | <input checked="" type="radio"/> Unit <input type="text" value="1"/> | Port <input type="text" value="XG1"/> | <input type="radio"/> LAG <input type="text" value="1"/> |
| Ingress Rate Limit: | <input type="checkbox"/> Enable | | |
| * Ingress Rate Limit: | <input type="text" value="100"/> | KBits/sec (Range: 100 - 10000000, Default: 100) | |
| * Ingress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 3000 - 19173960, Default: 128000) | |
| Egress Shaping Rate: | <input type="checkbox"/> Enable | | |
| * Committed Information Rate (CIR): | <input type="text" value="64"/> | KBits/sec (Range: 64 - 10000000, Default: 64) | |
| * Egress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 4096 - 16762902, Default: 128000) | |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | | | |

注意：当接口类型为LAG时，“入口速率限制”(Ingress Rate Limit)字段不会显示。如果接口类型为LAG，请跳[至步骤7](#)。

步骤4.如果要启用入口速率限制，请在Ingress Rate Limit字段中选中**Enable**复选框。入口速率限制限制接口上的传入流量。如果不想启用它，请跳至[步骤7](#)。

| | | | |
|---|--|---|--|
| Interface: | <input checked="" type="radio"/> Unit <input type="text" value="1"/> | Port <input type="text" value="XG1"/> | <input type="radio"/> LAG <input type="text" value="1"/> |
| Ingress Rate Limit: | <input checked="" type="checkbox"/> Enable | | |
| Ingress Rate Limit: | <input type="text" value="100"/> | KBits/sec (Range: 100 - 10000000, Default: 100) | |
| Ingress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 3000 - 19173960, Default: 128000) | |
| Egress Shaping Rate: | <input type="checkbox"/> Enable | | |
| Committed Information Rate (CIR): | <input type="text" value="64"/> | KBits/sec (Range: 64 - 10000000, Default: 64) | |
| Egress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 4096 - 16762902, Default: 128000) | |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | | | |

步骤5.如果您选择在步骤4中启用入口速率限制,请在入口速率限制字段中输入接口上允许的所需最大带宽量。最小为100 KBits/sec,最大为10000000 KBits/sec。

| | | | |
|---|--|---|--|
| Interface: | <input checked="" type="radio"/> Unit <input type="text" value="1"/> | Port <input type="text" value="XG1"/> | <input type="radio"/> LAG <input type="text" value="1"/> |
| Ingress Rate Limit: | <input checked="" type="checkbox"/> Enable | | |
| Ingress Rate Limit: | <input type="text" value="200"/> | KBits/sec (Range: 100 - 10000000, Default: 100) | |
| Ingress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 3000 - 19173960, Default: 128000) | |
| Egress Shaping Rate: | <input type="checkbox"/> Enable | | |
| Committed Information Rate (CIR): | <input type="text" value="64"/> | KBits/sec (Range: 64 - 10000000, Default: 64) | |
| Egress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 4096 - 16762902, Default: 128000) | |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | | | |

步骤6.如果您选择在步骤4中启用入口速率限制,请输入入口接口所需的最大数据突发大小(以数据字节为单位)。即使临时将带宽增加到超出允许的限制,也可以发送此数量。最小范围为3000字节,最大范围为10000000字节。

| | | | |
|---|--|---|--|
| Interface: | <input checked="" type="radio"/> Unit <input type="text" value="1"/> | Port <input type="text" value="XG1"/> | <input type="radio"/> LAG <input type="text" value="1"/> |
| Ingress Rate Limit: | <input checked="" type="checkbox"/> Enable | | |
| Ingress Rate Limit: | <input type="text" value="200"/> | KBits/sec (Range: 100 - 10000000, Default: 100) | |
| Ingress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 3000 - 19173960, Default: 128000) | |
| Egress Shaping Rate: | <input type="checkbox"/> Enable | | |
| Committed Information Rate (CIR): | <input type="text" value="64"/> | KBits/sec (Range: 64 - 10000000, Default: 64) | |
| Egress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 4096 - 16762902, Default: 128000) | |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | | | |

步骤7.在Egress Shaping Rate字段中,如果要为传出流量启用限制,请选中Enable复选框。如果不想启用它,请跳至[步骤10](#)。

| | | | |
|---|--|---|--|
| Interface: | <input checked="" type="radio"/> Unit <input type="text" value="1"/> | Port <input type="text" value="XG1"/> | <input type="radio"/> LAG <input type="text" value="1"/> |
| Ingress Rate Limit: | <input checked="" type="checkbox"/> Enable | | |
| Ingress Rate Limit: | <input type="text" value="200"/> | KBits/sec (Range: 100 - 10000000, Default: 100) | |
| Ingress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 3000 - 19173960, Default: 128000) | |
| Egress Shaping Rate: | <input checked="" type="checkbox"/> Enable | | |
| Committed Information Rate (CIR): | <input type="text" value="64"/> | KBits/sec (Range: 64 - 10000000, Default: 64) | |
| Egress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 4096 - 16762902, Default: 128000) | |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | | | |

步骤8.如果选择在步骤7中启用出口整形速率，请在“承诺信息速率(CIR)”字段中输入出口接口所需的最大带宽。最小值为64 KB/s，最大值为10000000 KB/s。

| | | | |
|---|--|---|--|
| Interface: | <input checked="" type="radio"/> Unit <input type="text" value="1"/> | Port <input type="text" value="XG1"/> | <input type="radio"/> LAG <input type="text" value="1"/> |
| Ingress Rate Limit: | <input checked="" type="checkbox"/> Enable | | |
| Ingress Rate Limit: | <input type="text" value="200"/> | KBits/sec (Range: 100 - 10000000, Default: 100) | |
| Ingress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 3000 - 19173960, Default: 128000) | |
| Egress Shaping Rate: | <input checked="" type="checkbox"/> Enable | | |
| Committed Information Rate (CIR): | <input type="text" value="100"/> | KBits/sec (Range: 64 - 10000000, Default: 64) | |
| Egress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 4096 - 16762902, Default: 128000) | |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | | | |

步骤9.如果选择在步骤7中启用出口整形速率，请在出口承诺突发大小(CBS)字段中为出口接口输入所需的最大突发大小。即使临时将带宽增加到超出允许的限制，也可以发送此数量。最小范围为4096字节，最大范围为16762902字节。

| | | | |
|---|--|---|--|
| Interface: | <input checked="" type="radio"/> Unit <input type="text" value="1"/> | Port <input type="text" value="XG1"/> | <input type="radio"/> LAG <input type="text" value="1"/> |
| Ingress Rate Limit: | <input checked="" type="checkbox"/> Enable | | |
| Ingress Rate Limit: | <input type="text" value="200"/> | KBits/sec (Range: 100 - 10000000, Default: 100) | |
| Ingress Committed Burst Size (CBS): | <input type="text" value="128000"/> | Bytes (Range: 3000 - 19173960, Default: 128000) | |
| Egress Shaping Rate: | <input checked="" type="checkbox"/> Enable | | |
| Committed Information Rate (CIR): | <input type="text" value="100"/> | KBits/sec (Range: 64 - 10000000, Default: 64) | |
| Egress Committed Burst Size (CBS): | <input type="text" value="180000"/> | Bytes (Range: 4096 - 16762902, Default: 128000) | |
| <input type="button" value="Apply"/> <input type="button" value="Close"/> | | | |

步骤10.单击“应用”。带宽设置写入运行配置文件。

复制设置

步骤1.单击要从中复制带宽配置的接口的单选按钮。然后单击复制设置.....

| Bandwidth Table | | | | | | | | | |
|--|-----------|-----------|--------------------|------------------------|-------|-------------|----------------------|-----------------|-------------|
| Filter: Interface Type equals to <input type="text" value="Port of Unit 1"/> <input type="button" value="Go"/> | | | | | | | | | |
| | Entry No. | Interface | Ingress Rate Limit | | | | Egress Shaping Rates | | |
| | | | Status | Rate Limit (KBits/sec) | % | CBS (Bytes) | Status | CIR (KBits/sec) | CBS (Bytes) |
| <input checked="" type="radio"/> | 1 | XG1 | Enabled | 200 | 0.002 | 128000 | Enabled | 100 | 180000 |
| <input type="radio"/> | 2 | XG2 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 3 | XG3 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 4 | XG4 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 5 | XG5 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 6 | XG6 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 7 | XG7 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 8 | XG8 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 9 | XG9 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 10 | XG10 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 11 | XG11 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 12 | XG12 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 13 | XG13 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 14 | XG14 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 15 | XG15 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 16 | XG16 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 17 | XG17 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 18 | XG18 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 19 | XG19 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 20 | XG20 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 21 | XG21 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 22 | XG22 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 23 | XG23 | Disabled | | | | Disabled | | |
| <input type="radio"/> | 24 | XG24 | Disabled | | | | Disabled | | |

系统将显示“复制设置”窗口：

Copy configuration from entry 1 (XG1)

to: (Example: 1,3,5-10 or: XG1,XG3-XG5)

步骤2.在to字段中，输入要将所选端口的设置复制到端口或端口范围。然后单击 **Apply**。

Copy configuration from entry 1 (XG1)

to: (Example: 1,3,5-10 or: XG1,XG3-XG5)