

Riverbed

Dashboard ?

📄 Save to Disk

🔄 Restart Services

Welcome to the Management Console for **glw-wx1**!

Any Changes to be Performed by CMC Policies Only

System Status

System Uptime: 3 weeks, 5 days

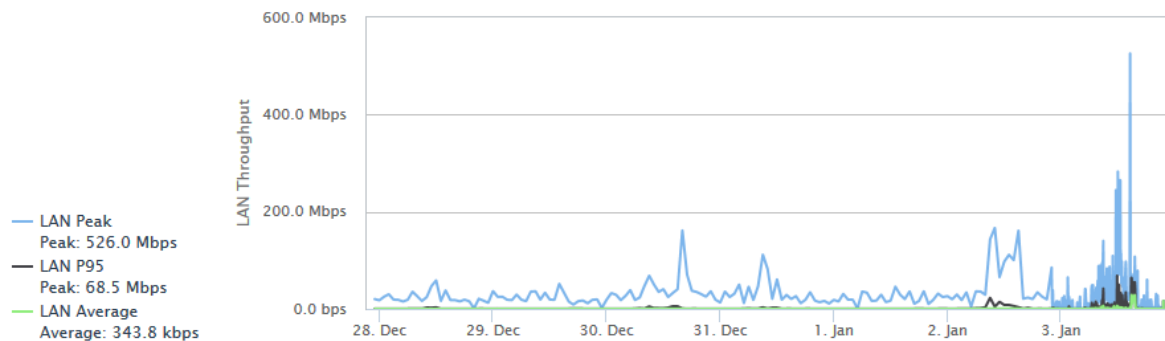
System Health: Healthy

Service Uptime: 3 weeks, 5 days

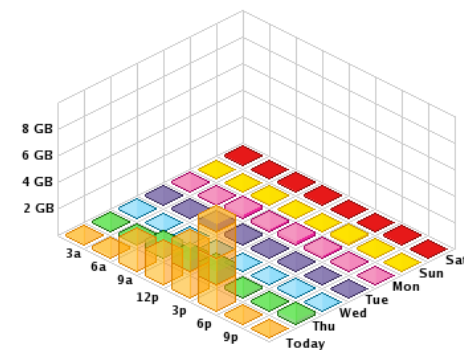
SCC: cdc-wx-cmc (10.128.100.47)

Temperature: 36°C

Optimized LAN Throughput Over Last Week



Bandwidth Summary Over Last Week



glw-wx1 Licenses

+

glw-wx1/mgmt/gui?p=setupAppliance_license

Search

riverbed

ip 10.60.223.133 • CX3070 (CX3070M) (x86_64) • 9.9.1 • uptime 3 weeks, 5 days • Fri 21:43 GMT +0000 admin | Sign out

DASHBOARDNETWORKINGOPTIMIZATIONREPORTSADMINISTRATIONHELP

LicensesMaintenance > Licenses

Save to DiskRestart Services

+ Add a New License✕ Remove Selected

License	Description	Status	Method
<input type="checkbox"/> LK1-SH10BASE-0000-0000-1-82C4-CED5-90F2	Base Optimization Service	Valid	Manual
<input type="checkbox"/> LK1-SH10EXCH-0000-0000-1-86CA-9E7A-E4BE	Microsoft(R) Exchange (MAPI) Optimization	Valid	Manual
<input type="checkbox"/> LK1-SH10CIFS-0000-0000-1-EE96-07A3-498D	Windows(R) File Servers (SMB/CIFS) Optimization	Valid	Manual
<input type="checkbox"/> LK1-MSPECCX3070M-0000-0000-1-024E-3E66-18C8	Model CX3070M Specification	Valid	Automatic
<input type="checkbox"/> LK1-SH40SSL-0000-0000-1-E300-8AEE-1398	SSL Optimization	Valid	Manual
<input type="checkbox"/> Included	Microsoft(R) SQL Server	Valid	Included
<input type="checkbox"/> Included	NFS	Valid	Included
<input type="checkbox"/> Included	HTTP	Valid	Included
<input type="checkbox"/> Included	Oracle Forms	Valid	Included

Fetch Updates Now

Hardware Specifications

☐ CX3070L: BW Limit: 50000 Kb/s Connection Limit: 3000 (runnable)

☒ CX3070M: BW Limit: 100000 Kb/s Connection Limit: 6000

☐ CX3070H: BW Limit: 100000 Kb/s Connection Limit: 9000 (runnable)

Apply

Asymmetric Routing

Network Integration > Asymmetric Routing ?

📁 Save to Disk

🔄 Restart Services

Asymmetric Routing Settings

- ☒ Enable Asymmetric Routing Detection
- ☒ Enable Asymmetric Routing Pass-Through

Apply

Asymmetric Routing Table:

✕ Remove Selected

<input type="checkbox"/> IP1 ⬇	IP2 ⬇	Reason ⬇	Timeout ⬇
<input type="checkbox"/> 10.60.215.7	10.34.208.11	SYN-rexmit(sfe-outer-incomplete)	27534
<input type="checkbox"/> 10.34.208.11	10.60.209.159	SYN-rexmit(sfe-outer-incomplete)	34733
<input type="checkbox"/> 170.64.120.133	10.24.130.232	invalid-SYNACK	31119
<input type="checkbox"/> 10.60.209.209	10.24.130.232	invalid-SYNACK	32842
<input type="checkbox"/> 10.38.80.64	170.64.120.78	invalid-SYNACK	79450
<input type="checkbox"/> 10.60.209.129	10.24.130.232	invalid-SYNACK	32249
<input type="checkbox"/> 10.60.209.121	10.24.130.233	invalid-SYNACK	31304
<input type="checkbox"/> 10.60.215.31	170.64.216.197	SYN-rexmit	4
<input type="checkbox"/> 10.60.209.87	10.24.130.233	invalid-SYNACK	28491

glw-wx1 Current Connect

→ ↺ 🏠

🔒 https://glw-wx1/mgmt/gui?p=reportConnections&ui_category=0&conn_type=0x317f

⋮ 🛡️ ⭐ 🔍 Search

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glw-wx1 / SteelHead™

riverbed

ip 10.60.223.133 • CX3070 (CX3070M) (x86_64) • 9.9.1 • uptime 3 weeks, 5 days • Fri 21:48 GMT +0000 admin | Sign out

DASHBOARDNETWORKINGOPTIMIZATIONREPORTSADMINISTRATIONHELP

Current Connections

Networking > Current Connections ?

💾 Save to Disk ↺ Restart Services

1,110100%All current connections

636%Established

636%➤ RiOS

00%🚦 TCP proxy

00%🌐 Web proxy

00%➤➤ Packet-mode optimized

00%🌐 Establishing

00%🔲 Opening

20%🔲 Closing

00%➤➤ Forwarded

1,04594%Passthrough (unoptimized)

83875%➔ Failed terminated

00%➔ Failed packet-mode

20719%➔ Intentional

ShowAll currentconnections

Matching all of these filters:

+ Add

Update

323%▲ Errors

showing 500 matching connections65 optimized, 0 denied, 0 discarded connections

🔍	▲	CT	Notes	Source:Port	Destination:Port	LAN kB	WAN kB	Reduction	Start Time	Application	User Identity
▶	▲	➤	🔍🔒🛡️📶	10.128.11.202:60381	10.60.208.13:445	208	183	12% <div></div>	2019/12/09 06:14:21	SMB31	
▶	▲	➤	🔍🔒🛡️📶	10.128.11.202:60382	10.60.208.13:445	211	184	12% <div></div>	2019/12/09 06:14:21	SMB31	
▶	▲	➤	🔍🔒🛡️📶	10.128.11.202:60383	10.60.208.13:445	200	177	11% <div></div>	2019/12/09 06:14:21	SMB31	
▶	▲	➤	🔍🔒🛡️📶	10.45.169.14:56081	10.60.208.5:445	41	36	12% <div></div>	2019/12/23 14:27:22	SMB21	
▶	▲	🔲	🔍🔒🛡️📶	10.128.24.64:35470	10.60.208.8:443	5	10	0% <div></div>	2020/01/03 20:46:26	HTTP	
▶	▲	➤	🔍🔒🛡️📶	10.60.209.175:61132	10.58.148.22:445	34,969	25,202	27% <div></div>	2020/01/02 10:15:48	SMB31	
▶		➤	🔍🔒🛡️📶	10.60.208.12:58348	10.58.148.22:445	11	1,744	0% <div></div>	2020/01/03 11:24:26	SMB21	
▼	▲	➤	🔍🔒🛡️📶	10.76.51.53:52753	10.60.208.5:445	8,745,631	2,584,916	70% <div></div>	2020/01/03 14:45:12	SMB31	

glw-wx1 Current Connect X

←→↻🏠

🔒 https://glw-wx1/mgmt/gui?p=reportConnections&ui_category=0&conn_type=0x317f

⋮🔒🌟🔍 Search

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▶	▲	⏏️	🔒🔒🔒🔒🔒	10.128.11.202:60382	10.60.208.13:445	211	184	12%	<div></div>	2019/12/09 06:14:21	SMB31
▶	▲	⏏️	🔒🔒🔒🔒🔒	10.128.11.202:60383	10.60.208.13:445	200	177	11%	<div></div>	2019/12/09 06:14:21	SMB31
▶	▲	⏏️	🔒🔒🔒🔒🔒	10.45.169.14:56081	10.60.208.5:445	41	36	12%	<div></div>	2019/12/23 14:27:22	SMB21
▶	▲	⏏️	🔒🔒🔒🔒🔒	10.128.24.64:35470	10.60.208.8:443	5	10	0%	<div></div>	2020/01/03 20:46:26	HTTP
▶	▲	⏏️	🔒🔒🔒🔒🔒	10.60.209.175:61132	10.58.148.22:445	34,969	25,202	27%	<div></div>	2020/01/02 10:15:48	SMB31
▶		⏏️	🔒🔒🔒🔒🔒	10.60.208.12:58348	10.58.148.22:445	11	1,744	0%	<div></div>	2020/01/03 11:24:26	SMB21
▼	▲	⏏️	🔒🔒🔒🔒🔒	10.76.51.53:52753	10.60.208.5:445	8,745,631	2,584,916	70%	<div></div>	2020/01/03 14:45:12	SMB31

Connection type: ⏏️ RiOS

Connection age: 7 hours, 2 minutes

Application: SMB31

Application error: SMB3_DISABLED

Transport: TRANSPORT_ID_NONE

Notes: In-path
SDR optimized
LZ compressed

Refresh Data

Send Keep-Alive

Reset Connection

Log for this SteelHead

Source 10.76.51.53:52753

SH

SteelHead CX5070 9.7.0a

10.128.248.235:61384

☁️

Transparency mode: Full Transparency

Congestion control: Highspeed TCP

SH

SteelHead CX3070 9.9.1 (YOU ARE HERE)

10.60.223.27:24228

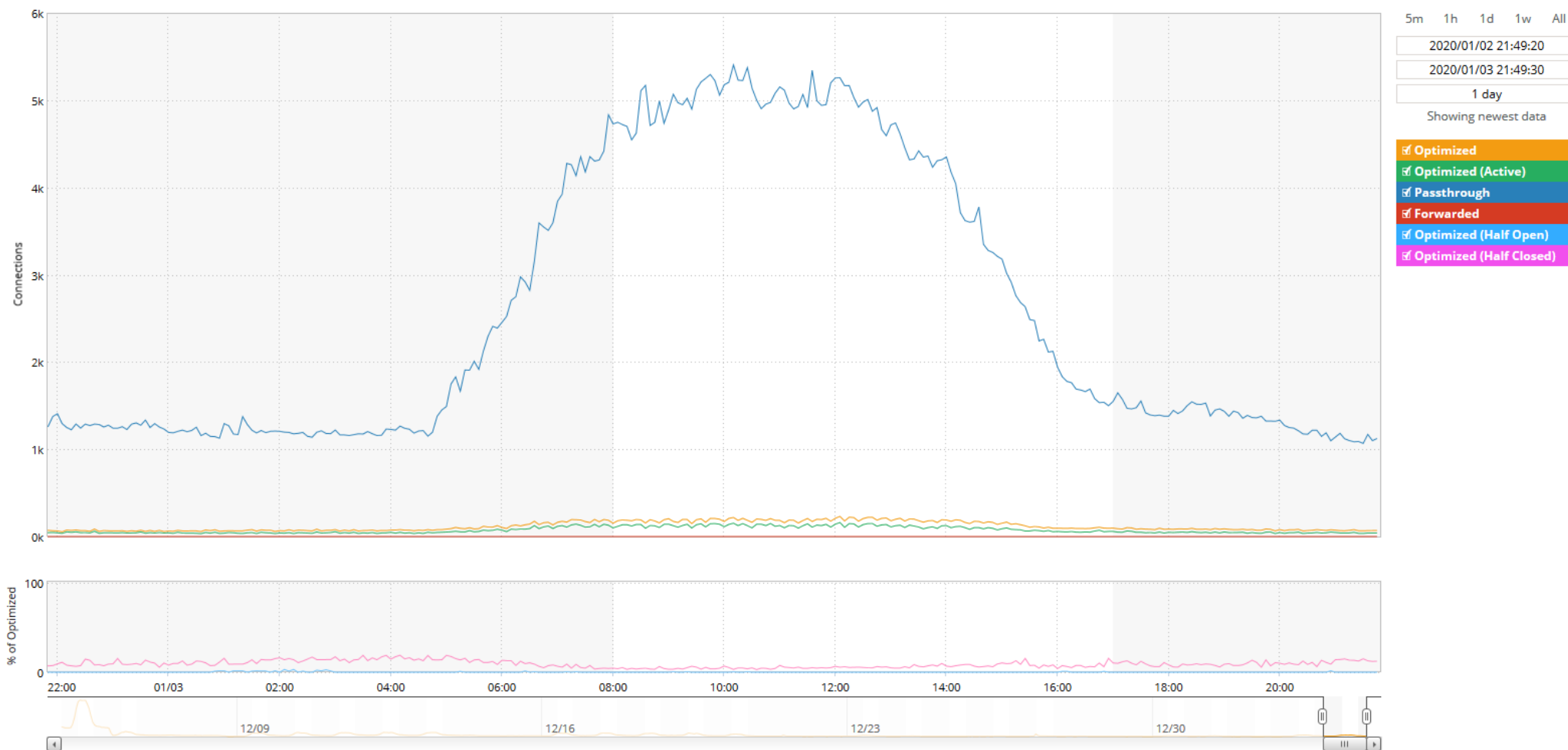
Destination 10.60.208.5:445

	LAN side	WAN side
Bytes	8,955,526,568	2,646,954,118
Packets	6,610,081	2,079,600
Retransmitted	205	1
Fast retransmitted	204	0
Timeouts	1	1
Congestion window	10	10

▶		⏏️	🔒🔒🔒🔒🔒	10.60.215.96:61766	10.128.10.206:80	4	3	27%	<div></div>	2020/01/03 21:45:57	OCSP
▶	▲	⏏️	🔒🔒🔒🔒🔒	192.55.165.56:58714	10.60.208.5:445	2,075	1,313	36%	<div></div>	2019/12/18 10:24:39	SMB30
▶	▲	⏏️	🔒🔒🔒🔒🔒	10.61.217.35:52771	10.60.208.5:445	1,300	969	25%	<div></div>	2019/12/16 12:42:12	SMB31
▶		⏏️	🔒🔒🔒🔒🔒	170.64.120.94:63630	10.128.12.11:80	18	5	71%	<div></div>	2020/01/03 21:46:17	SCCM

Connection History Networking > Connection History ?

Save to Disk Restart Services



glw-wx1 Top Talkers

← → ↺ 🏠

🔒 https://glw-wx1/mgmt/gui?p=reportTopTalkers

⋮ 🛡️ ☆ 🔍 Search

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glw-wx1

/ SteelHead™

ip 10.60.223.133 • CX3070 (CX3070M) (x86_64) • 9.9.1 • uptime 3 weeks, 5 days • Fri 21:50 GMT +0000 admin | Sign out

DASHBOARDNETWORKINGOPTIMIZATIONREPORTSADMINISTRATIONHELP

Top Talkers

Networking > Top Talkers

🔗

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Display Data By:ConversationPeriod:Last DayCount:50Protocol:BothTraffic Type:BothGo

Top Conversations:

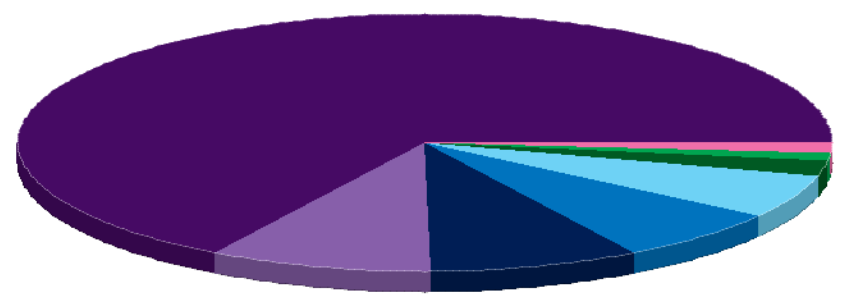
Rank ↕	IP Address 1:Port ↕	IP Address 2:Port ↕	WAN Data ↕
1	10.60.208.5:62244	10.56.13.30:9997	4.2 GB
2	10.60.208.5:445	10.76.51.53:52753	941.4 MB
3	10.60.223.133:19586	10.32.4.221:9995	938.9 MB
4	10.56.13.30:9997	10.60.209.55:53786	565.0 MB
5	10.60.208.13:49665	10.128.12.73:49958	455.4 MB
6	10.60.208.47:42910	10.56.1.92:443	449.2 MB
7	165.225.84.32:443	170.64.120.156:61111	414.9 MB
8	165.225.84.32:443	10.60.209.96:58288	403.2 MB
9	10.60.208.5:445	10.63.131.27:63695	369.7 MB
10	165.225.84.32:443	10.60.209.96:58819	366.4 MB
11	165.225.84.32:443	10.60.209.96:58290	359.9 MB
12	165.225.84.32:443	10.60.209.96:58280	326.6 MB
13	165.225.84.32:443	10.60.209.96:58304	325.7 MB
14	165.225.84.32:443	10.60.209.96:58287	321.0 MB
15	10.60.215.39:50721	10.56.1.60:80	300.8 MB

Traffic Summary

Networking > Traffic Summary ?

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🔄 Restart Services



Period: Custom

Type: Optimized

Traffic: Bi-Directional

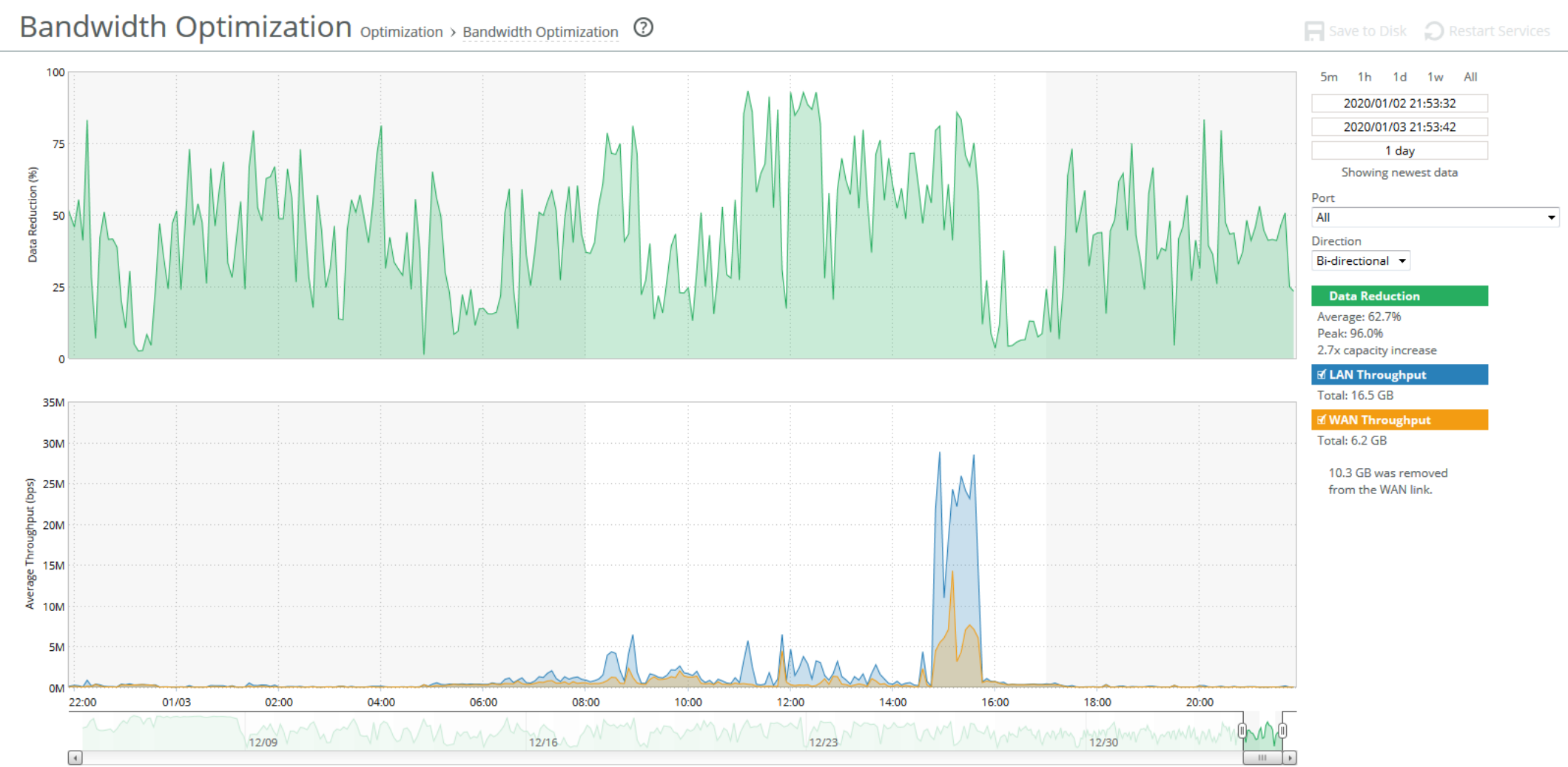
Refresh: Off

Go

Start Time: 2020/01/02 21:51:26

End Time: 2020/01/03 21:51:36

Port	Reduction	LAN Data	WAN Data	Traffic %
Total Optimized Traffic	<div><div></div></div> (62.83%)	15.3 GB	5820.5 MB	--
8781 (SMB3)	<div><div></div></div> (66.01%)	10.2 GB	3543.0 MB	66.56%
8779 (SMB2)	<div><div></div></div> (78.03%)	1421.1 MB	312.3 MB	9.07%
443 (SSL)	<div><div></div></div> (0.00%)	1325.7 MB	1361.6 MB	8.47%
80 (HTTP)	<div><div></div></div> (77.49%)	1060.8 MB	238.8 MB	6.77%
1352 (Lotus Notes)	<div><div></div></div> (78.77%)	888.8 MB	188.7 MB	5.68%
1090 (ff-fms)	<div><div></div></div> (66.59%)	321.1 MB	107.3 MB	2.05%
8014 (Symantec Updates)	<div><div></div></div> (75.89%)	168.8 MB	40.7 MB	1.08%
2967 (Symantec Group Policy)	<div><div></div></div> (57.28%)	33.3 MB	14.2 MB	0.21%
445 (CIFS:TCP)	<div><div></div></div> (0.00%)	6845.6 kB	8494.3 kB	0.04%
9100 (jetdirect)	<div><div></div></div> (99.35%)	4211.1 kB	27.3 kB	0.03%
21 (FTP)	<div><div></div></div> (0.00%)	3322.4 kB	3726.3 kB	0.02%
25 (smtp)	<div><div></div></div> (22.15%)	2791.7 kB	2173.2 kB	0.02%



System Logs

Diagnostics > System Logs

?

📁 Save to Disk

🔄 Restart Services

«First

Prev

1 2 3 4 5 ... 16 17 18 19 20

Next

Last»

Show:

Current Log

Lines per page:

100

Jump to:

Page

blank for the last page

Launch Continuous Log

Filter:

Regular Expression

Go

Log Font Size:

11

Jan 3 21:15:34 glw-wx1 sport[15041]: [sslinnerchan/SrvAccept.WARN] 4543758 {10.32.6.150:56520 10.60.208.44:443} SSL connection from an untrusted Steelhead appliance at IP address: 10.128.248.235 while attempting to optimize the end-to-end SSL connection between client: 10.32.6.150:56520 and

Jan 3 21:15:34 glw-wx1 sport[15041]: [sslinnerchan/SrvAccept.WARN] 4543758 {10.32.6.150:56520 10.60.208.44:443} server: 10.60.208.44:443

Jan 3 21:15:34 glw-wx1 sport[15041]: [sslinnerchan/SrvAccept.WARN] 4543758 {10.32.6.150:56520 10.60.208.44:443} Informing the client-side steelhead about failure to verify its peering certificate, so that future connections are temporarily bypassed.

Jan 3 21:15:34 glw-wx1 sport[15041]: [sslmodule.WARN] 4543758 {10.32.6.150:56520 10.60.208.44:443} Beware: server verification flag in sport configuration is set to false, so servers with expired/revoked/corrupted certificates could be accepted.

Jan 3 21:15:34 glw-wx1 sport[15041]: [sslmodule.WARN] 4543758 {10.32.6.150:56520 10.60.208.44:443} If this isn't the intended behavior, reset the server_verification flag in sport configuration to be true

Jan 3 21:15:34 glw-wx1 sport[15041]: [ssl/SrvAdvInitial.WARN] 4543758 {10.32.6.150:56520 10.60.208.44:443} Received a message from the client-side steelhead appliance. But the inner channel between the steelhead appliances is not secure. So bypassing all data on this connection without opti

Jan 3 21:15:34 glw-wx1 sport[15041]: [ssl/SrvAdvInitial.WARN] 4543758 {10.32.6.150:56520 10.60.208.44:443} mization to the server. Please look for any inner-ssl handshake errors on both the client-side and server-side steelhead appliances

Jan 3 21:17:01 glw-wx1 sport[15041]: [sslmodule.WARN] 4543814 {10.128.12.29:62475 10.60.210.44:443} Beware: server verification flag in sport configuration is set to false, so servers with expired/revoked/corrupted certificates could be accepted.

Jan 3 21:17:01 glw-wx1 sport[15041]: [sslmodule.WARN] 4543814 {10.128.12.29:62475 10.60.210.44:443} If this isn't the intended behavior, reset the server_verification flag in sport configuration to be true

Jan 3 21:17:01 glw-wx1 sport[15041]: [ssl/SrvAdvInitial.WARN] 4543814 {10.128.12.29:62475 10.60.210.44:443} Received a message from the client-side steelhead appliance. But the inner channel between the steelhead appliances is not secure. So bypassing all data on this connection without opt

Jan 3 21:17:01 glw-wx1 sport[15041]: [ssl/SrvAdvInitial.WARN] 4543814 {10.128.12.29:62475 10.60.210.44:443} imization to the server. Please look for any inner-ssl handshake errors on both the client-side and server-side steelhead appliances

Jan 3 21:18:14 glw-wx1 snmpd[14766]: unknown interface in /proc/net/ipv6_route ('♦♦w♦♦ ')

Jan 3 21:18:14 glw-wx1 snmpd[14766]: unknown interface in /proc/net/ipv6_route ('♦♦w♦♦ ')

Jan 3 21:18:32 glw-wx1 sport[15041]: [smb2cfe.WARN] 4543884 {170.64.120.89:56854 10.32.8.108:445} Adding blacklist entry for pair Client ip: 170.64.120.89 Server ip: 10.32.8.108. Reason: Client is performing secure protocol negotiation, SteelHead was unable to sign the connection

Jan 3 21:18:38 glw-wx1 kernel:[intercept.WARN] it appears as though probes from 10.60.215.7 to 52.114.132.73 are being filtered. Passing through connections between these two hosts.

Jan 3 21:21:35 glw-wx1 kernel:[intercept.WARN] it appears as though probes from 10.60.209.175 to 52.96.73.50 are being filtered. Passing through connections between these two hosts.

Jan 3 21:26:58 glw-wx1 kernel:[intercept.WARN] it appears as though probes from 10.60.215.7 to 52.96.79.146 are being filtered. Passing through connections between these two hosts.

Jan 3 21:35:34 glw-wx1 sport[15041]: [ssl.WARN] - {- -} Failure in certificate verification: error num: 18 error string: self signed certificate depth: 0 subject name: /CN=Steelhead LDBG5000FD706/O=Riverbed Technology, Inc./L=San Francisco/ST=California/C=--

Jan 3 21:35:34 glw-wx1 sport[15041]: [keystore/0x7f5328441000.WARN] - {- -} Failure in certificate verification, subject: "/CN=Steelhead LDBG5000FD706/O=Riverbed Technology, Inc./L=San Francisco/ST=California/C=--"

Jan 3 21:35:34 glw-wx1 sport[15041]: [keystore/0x7f5328441000.WARN] - {- -} Failed with error num: 18, error string: "self signed certificate", depth: 0

Jan 3 21:35:34 glw-wx1 sport[15041]: [sslinnerchan/SrvAccept.WARN] 4544701 {10.45.169.27:58706 10.60.223.133:443} SSL connection from an untrusted Steelhead appliance at IP address: 10.45.160.35 while attempting to optimize the end-to-end SSL connection between client: 10.45.169.27:58706 an

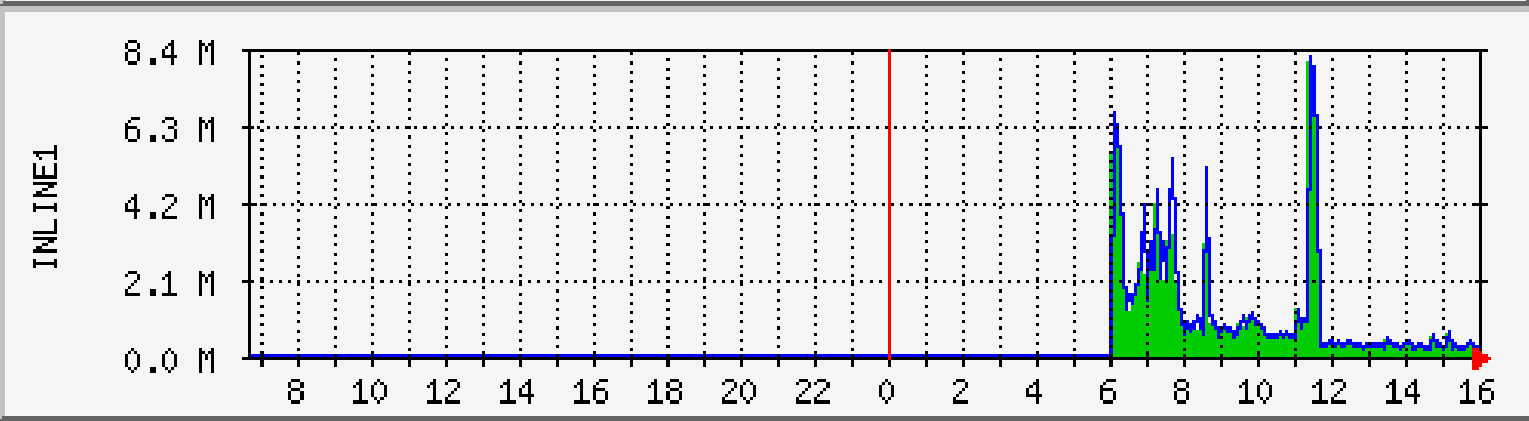
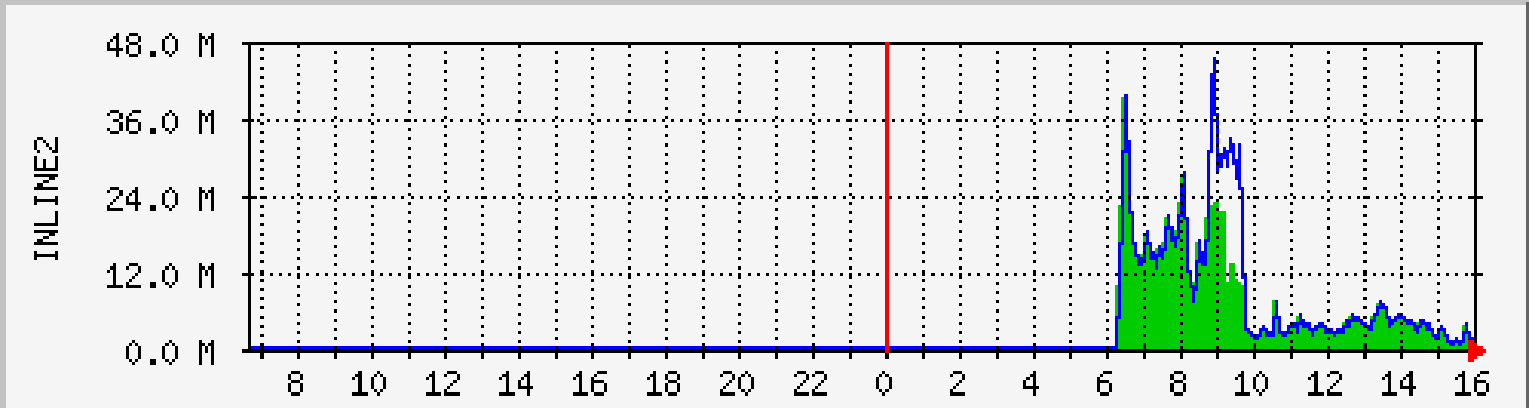
Jan 3 21:35:34 glw-wx1 sport[15041]: [sslinnerchan/SrvAccept.WARN] 4544701 {10.45.169.27:58706 10.60.223.133:443} d server: 10.60.223.133:443

Jan 3 21:35:34 glw-wx1 sport[15041]: [sslinnerchan/SrvAccept.WARN] 4544701 {10.45.169.27:58706 10.60.223.133:443} Informing the client-side steelhead about failure to verify its peering certificate, so that future connections are temporarily bypassed.

Jan 3 21:35:53 glw-wx1 PAM-tacplus[14764]: auth failed: TACACS+ authentication failed

Jan 3 21:35:54 glw-wx1 PAM-tacplus[14764]: last message repeated 3 times

Jan 3 21:35:54 glw-wx1 ce[14764]: Arg[0] = conf=/etc/opt/tms/output/pam_tacplus_server.conf



Najczęstsze problemy

- Problem z autoryzacją użytkowników,
- Problem z dostępem do O365 (outlook – nowa konfiguracja)
- Problem z dostępem do systemów SAP (dostęp, drukowanie)
- Problem z routingiem asymetrycznym,
- Problem z certyfikatami,