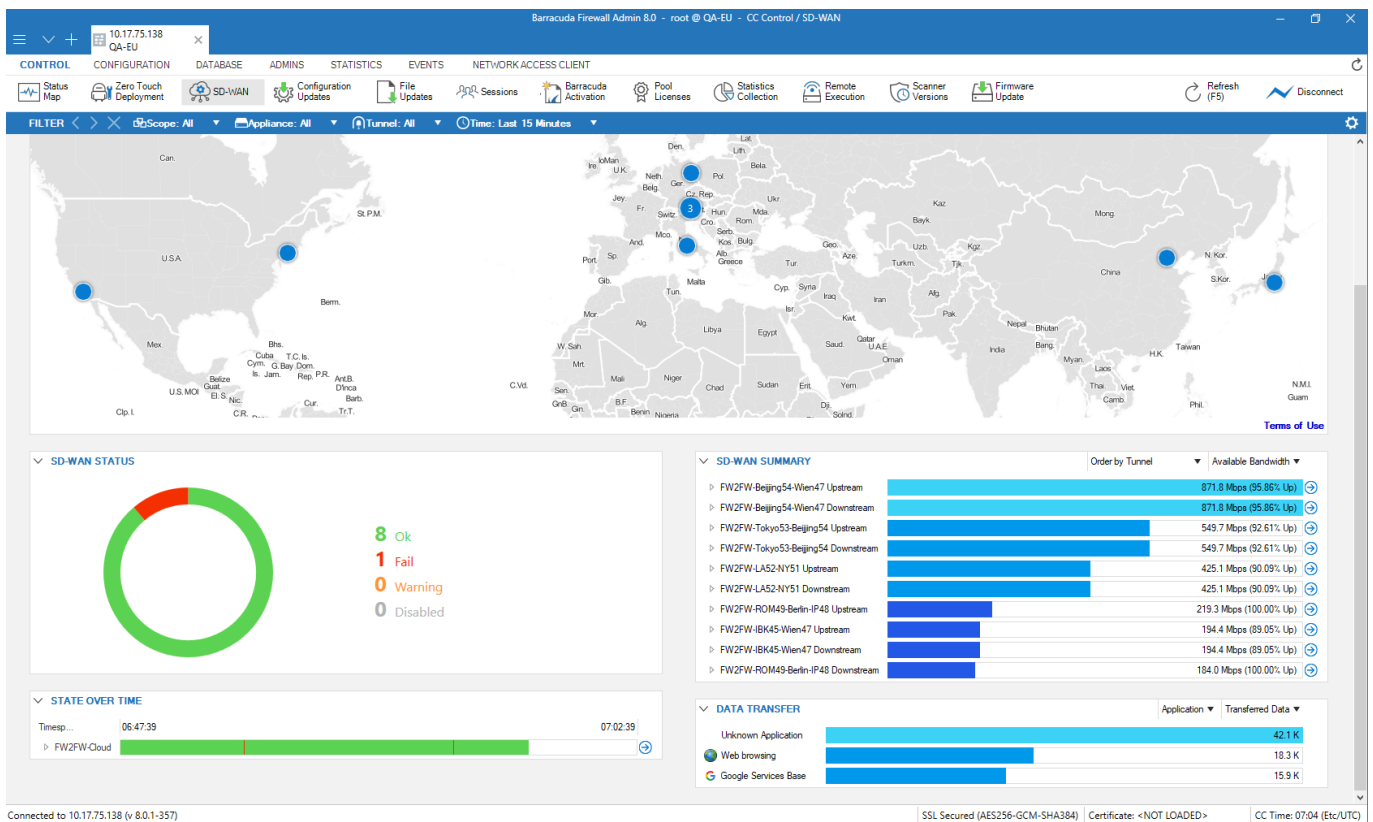


CC SD-WAN Page

<https://campus.barracuda.com/doc/86540572/>

The Control Center **SD-WAN** page provides a geographic map interface for fast access to frequently needed CloudGen Firewalls with configured site-to-site VPN tunnels, showing real-time statistics of SD-WAN traffic. To display tunnel status information on the **SD-WAN** page, go to **Global Settings > CC Parameters** and enable **Poll Box VPN Status**. To access the **SD-WAN** page, click the **CONTROL** tab and select the **SD-WAN** icon.



SD-WAN STATUS

8 Ok
1 Fail
0 Warning
0 Disabled

SD-WAN SUMMARY

Tunnel	Bandwidth	Available Bandwidth
FW2FW-Beijing54-Wien47 Upstream	871.8 Mbps	95.86% Up
FW2FW-Beijing54-Wien47 Downstream	871.8 Mbps	95.86% Up
FW2FW-Tokyo53-Beijing54 Upstream	549.7 Mbps	92.61% Up
FW2FW-Tokyo53-Beijing54 Downstream	549.7 Mbps	92.61% Up
FW2FW-LAS2-NY51 Upstream	425.1 Mbps	90.09% Up
FW2FW-LAS2-NY51 Downstream	425.1 Mbps	90.09% Up
FW2FW-ROM49-Berlin-IP48 Upstream	219.3 Mbps	100.00% Up
FW2FW-IBK45-Wien47 Upstream	194.4 Mbps	89.05% Up
FW2FW-IBK45-Wien47 Downstream	194.4 Mbps	89.05% Up
FW2FW-ROM49-Berlin-IP48 Downstream	184.0 Mbps	100.00% Up

DATA TRANSFER

Application	Transferred Data
Unknown Application	42.1 K
Web browsing	18.3 K
Google Services Base	15.9 K

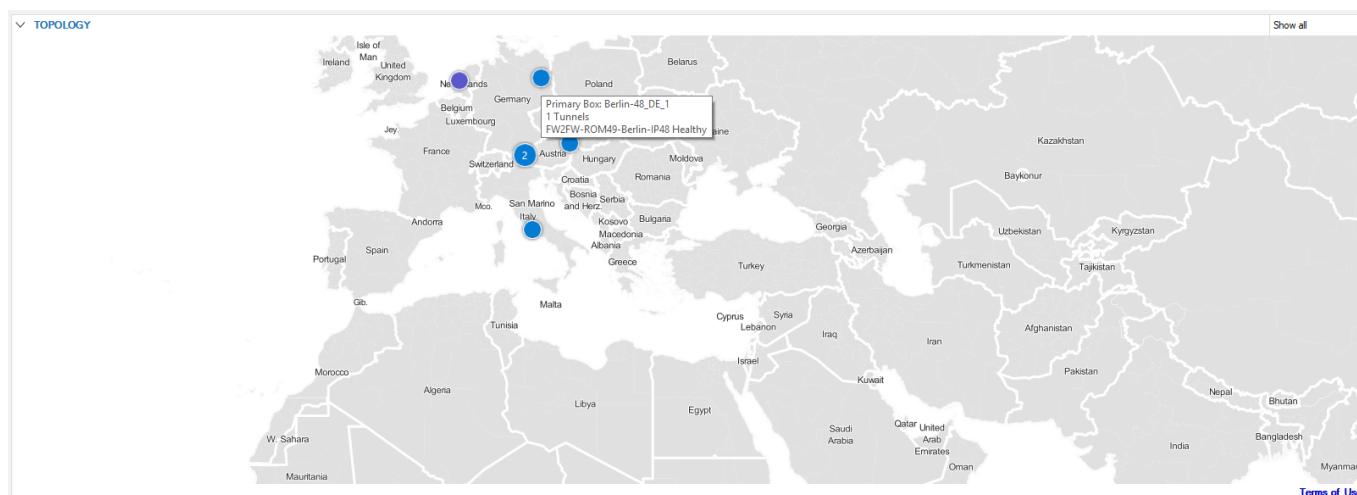
The following elements provide information on the SD-WAN dashboard:

- Topology
- SD-WAN Status
- SD-WAN Summary
- State Over Time
- Data Transfer

Topology

The **Topology** element provides a global overview of Control Center-managed Barracuda CloudGen

Firewalls with configured VPN tunnels that have been added to the **Status Map** page. For more information, see [CC Status Map Page](#). Locations with VPN tunnels are displayed as blue circles; firewalls that are deployed in a Cloud are displayed in violet. To view details such as firewall name and number and status of configured VPN tunnels, move the mouse over a point on the map. Use the mouse wheel to zoom the display in and out.



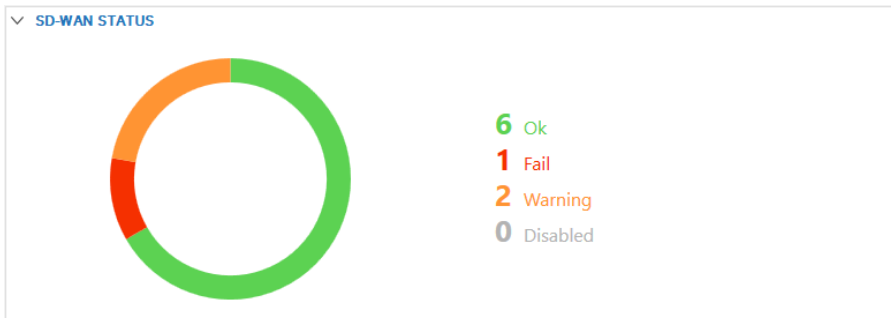
Right-clicking in the window directly on a location opens a dedicated context menu with the following entries:

- **Connect to Primary** – Opens the **VPN > Site-to-Site** window, displaying the details of the primary VPN tunnel of the selected appliance as a new tab inside the current Barracuda Firewall Admin instance. For more information, see [VPN Tab](#).
- **Connect to Secondary** (if configured) – Opens the **VPN > Site-to-Site** window of the selected appliance as a new tab, displaying the details of the secondary VPN tunnel. For more information, see [VPN Tab](#).

In case of HA, login is only possible for the active firewall.

SD-WAN Status

The **SD-WAN Status** element displays a graph showing the status of the configured VPN tunnels in numbers and percentage, indicated by different colors.



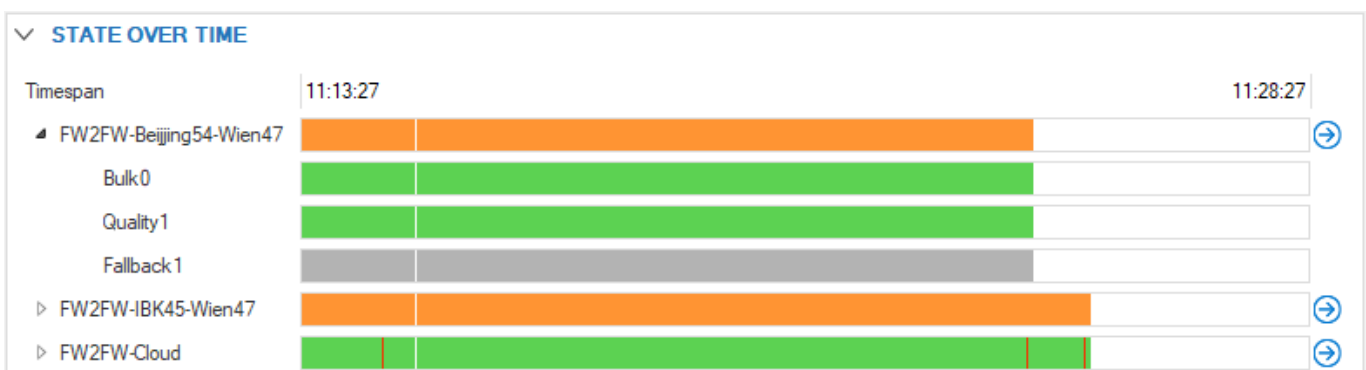
The chart provides the following details:

- **Ok** - Shows the number of active healthy VPN connections.
- **Fail** - Shows the number of VPN tunnels with status **Fail**.
- **Warning** - Shows the number of VPN tunnels with status **Warning**.
- **Disabled** - Shows the number of VPN tunnels with status **Disabled**.

For detailed information on the different VPN tunnel states, see the **Status Section** in [VPN Tab](#).

State Over Time

The **State Over Time** element provides time-based information on the traffic that flows through VPN tunnels on which issues have been detected, according to the configured filter. Healthy tunnels are not listed here.



When expanded for a VPN tunnel, additional lines display the traffic details according to configured VPN transport classes. Click the arrow icon on the left of an entry to expand the SD-WAN traffic details:

- **Bulk** - Shows the statistics for cheap and potentially unreliable connections classified as **Bulk** in the SD-WAN configuration.
- **Quality** - Shows the statistics for more reliable connections, classified as **Quality**.

- **Fallback** – Shows the statistics for the most expensive connections, classified as **Fallback**.

For more detailed information, see [SD-WAN](#).

The colors of the lines indicate the connection status.

Possible State over Time colors for tunnels:

- **White** – Unknown, no data from CC.
- **Grey** – Tunnel status is Offline.
- **Green** – Tunnel status is Healthy.
- **Orange** – Tunnel status is Degraded.
- **Red** – Tunnel status Down.

Possible state over Time colors for transports:

- **White** – Unknown, no data from CC.
- **Green** – All transports of the tunnel are up.
- **Grey** – Transport is down (disabled/switched off).
- **Red** – Transport status is Fail.
- **Blue** – Transport status is Standby.

SD-WAN Summary

The **SD-WAN Summary** element displays the bandwidth consumed by your top-10 VPN tunnels according to the configured filter.

SD-WAN SUMMARY		Order by Tunnel	Available Bandwidth
FW2FW-Beijing54-Wien47 Upstream		564.7 Mbps (0.00% Up)	→
Bulk0		367.8 Mbps ()	
Quality1		196.9 Mbps ()	
Fallback1		0.0 bps ()	
FW2FW-Beijing54-Wien47 Downstream		564.7 Mbps (0.00% Up)	→
FW2FW-Tokyo53-Beijing54 Downstream		549.7 Mbps (94.05% Up)	→
FW2FW-Tokyo53-Beijing54 Upstream		548.0 Mbps (94.05% Up)	→
FW2FW-LA52-NY51 Upstream		425.1 Mbps (89.11% Up)	→
FW2FW-LA52-NY51 Downstream		425.1 Mbps (89.11% Up)	→
FW2FW-ROM49-Berlin-IP48 Upstream		219.3 Mbps (100.00% Up)	→
FW2FW-ROM49-Berlin-IP48 Downstream		184.0 Mbps (100.00% Up)	→
FW2FW-Tokyo53-Wien47 Upstream		182.9 Mbps (99.34% Up)	→
FW2FW-Tokyo53-Wien47 Downstream		182.9 Mbps (99.34% Up)	→

Click the arrow icon on the left of an entry to expand the SD-WAN traffic details.

- **Bulk** – Shows the statistics for cheap and potentially unreliable connections classified as **Bulk** in the SD-WAN configuration.
- **Quality** – Shows the statistics for more reliable connections, classified as **Quality**.
- **Fallback** – Shows the statistics for the most expensive connections, classified as **Fallback**.

Available Actions

Clicking the menu in the top-right corner of the **SD-WAN Summary** element offers the following actions:

- **Order by Tunnel** – Orders the list of information entries by VPN tunnel name.
- **Order by Box Upstream** – Orders the list of information entries by traffic upstream.
- **Order by Box Downstream** – Orders the list of information entries by traffic downstream.

To filter the entries by traffic, select one of the following options:

- **Latency** – Orders the list by Round Trip Time (RTT).
- **Available Bandwidth** – Orders the list by available bandwidth.
- **Used Bandwidth** – Orders the list by the bandwidth consumed by your VPN tunnels.
- **Bandwidth usage** – Orders the entries by traffic usage.

Data Transfer

The **Data Transfer** element displays the summary of bandwidth consumed by applications and protocols.



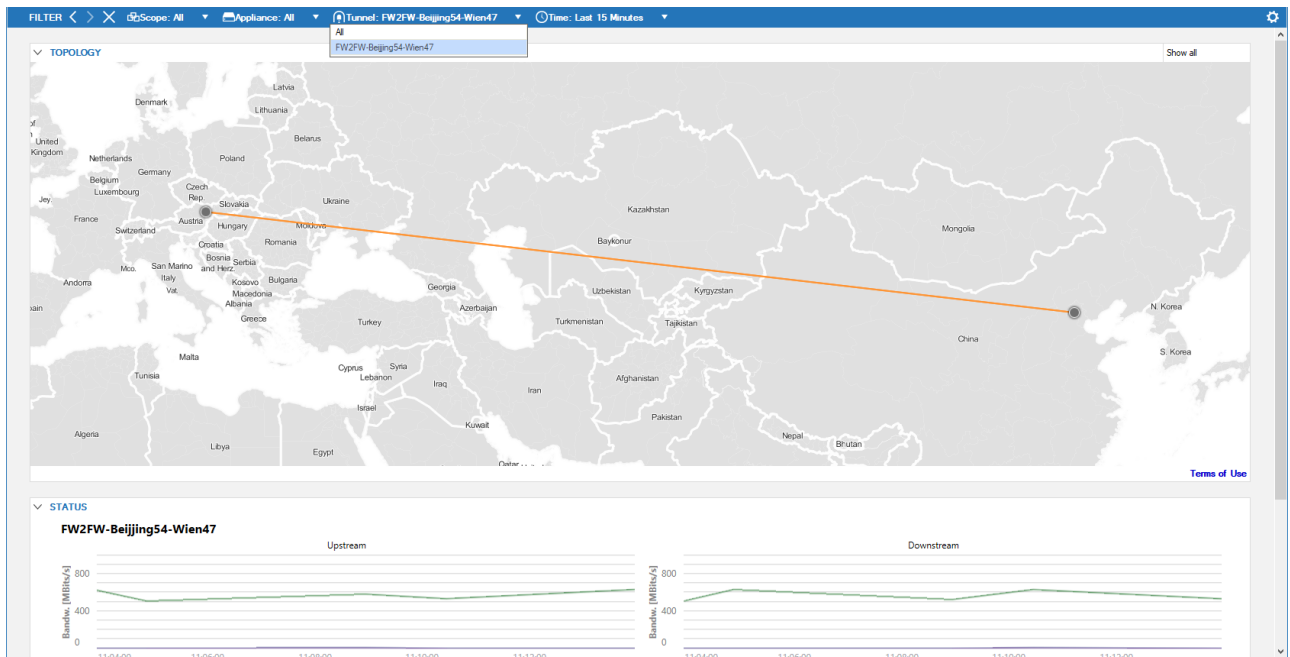
Click on the top right of the element to filter the selection according to:

- **Application** – Displays data consumption details according to applications used.
- **Protocol** – Displays data consumption details according to protocols used.
- **Transferred Data** – Displays traffic information showing the general data transfer.
- **Upstream** – Displays the amount of kilobytes used by upstream traffic.
- **Downstream** – Displays the amount of kilobytes used by downstream traffic.

Filter Options

The **Filter** bar on top of the page provides drop-down menus that allow you to filter for the following criteria:

- **Scope** – Show the statistics for all locations the Barracuda CloudGen Firewalls reside in, or select a scope to be displayed.
- **Appliance** – Show the statistics for all Barracuda CloudGen Firewalls, or drill down the displayed information to a selected number of appliances.



- **Tunnel** - Allows a filter to be set for a specific tunnel name.
- **Time** - Lets you select a time interval for VPN traffic information to be displayed.

To apply a filter and / or selection, click the white arrow on the right of each field, expand the context drop-down menu, and make a selection according to your requirements.

To apply a filter for a connection, click the arrow icon next to an entry in the **SD-WAN Summary** or **State Over Time** element and select **Set as Filter**.

Figures

1. sd-wan_db.png
2. topology.png
3. sd-wan_status.png
4. sd-wan_state_ot.png
5. sdwan_summary.png
6. sd-wan_transfer.png
7. sdwan_filter.png

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