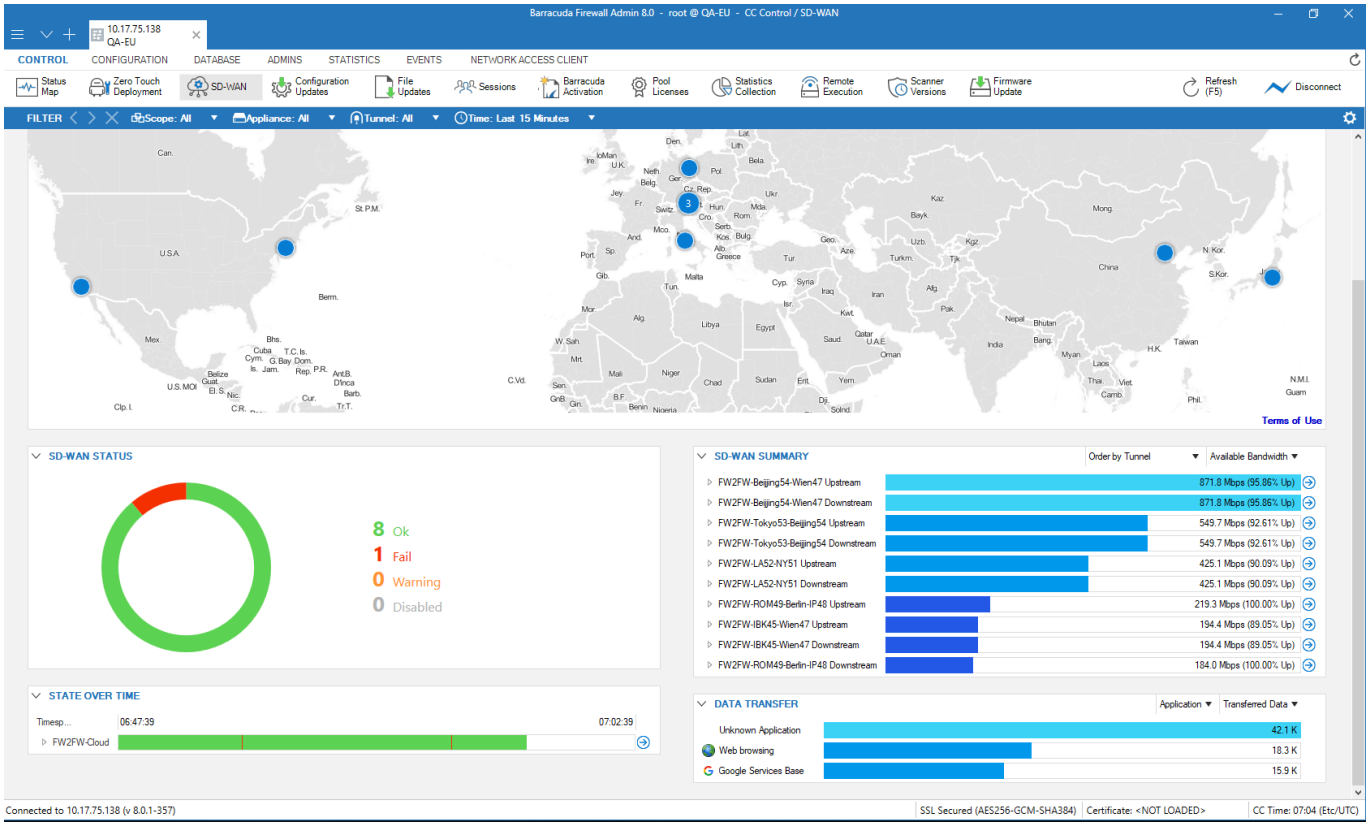
CC SD-WAN Page

https://campus.barracuda.com/doc/96026531/

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.



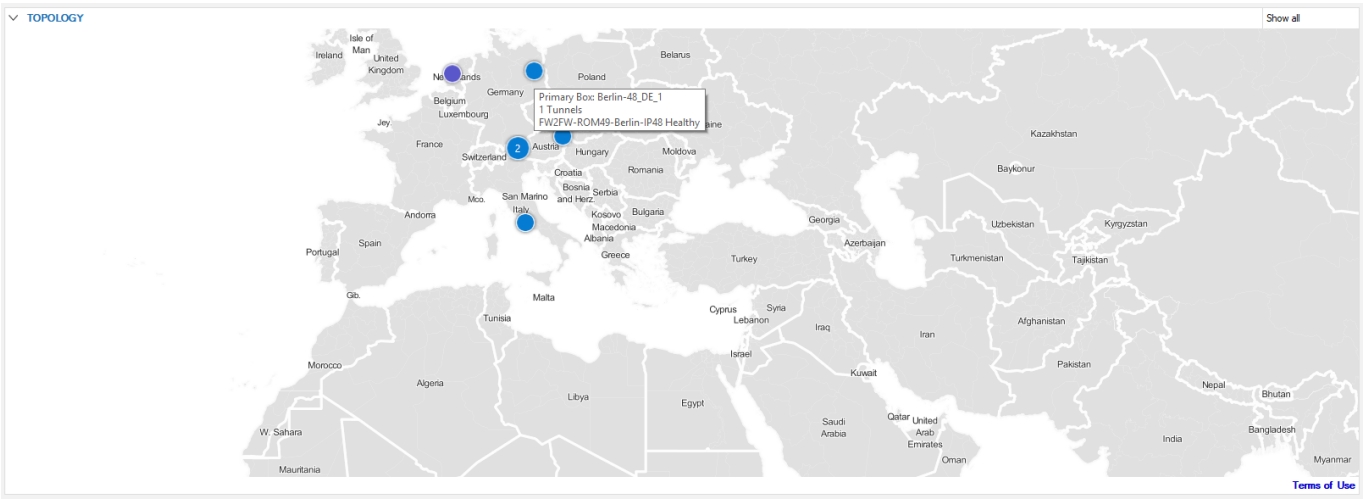
The following elements provide information on the SD-WAN dashboard:

- 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.



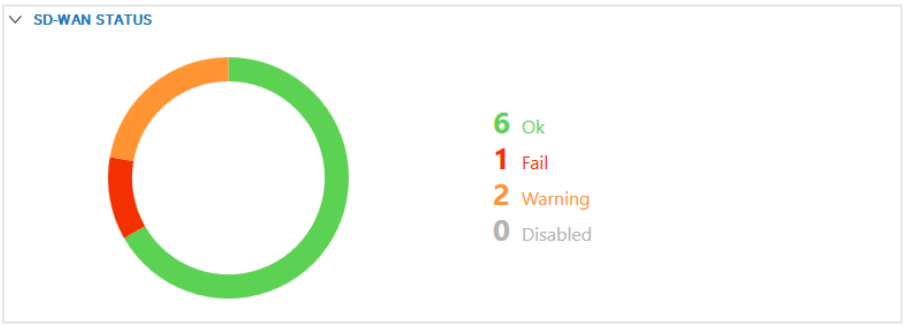
Right-clicking in the window directly on a location opens a dedicated context menu with the following entries:

- **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.



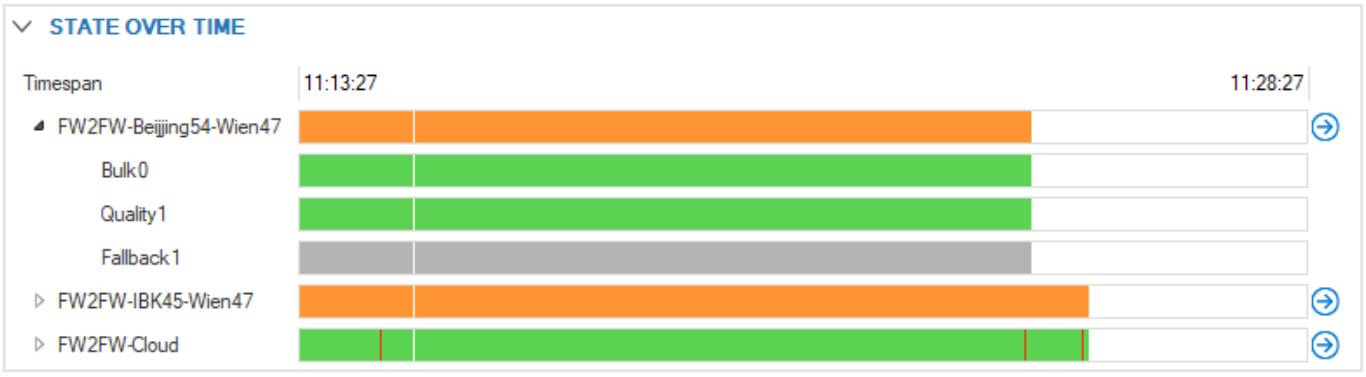
The chart provides the following details:

- **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:

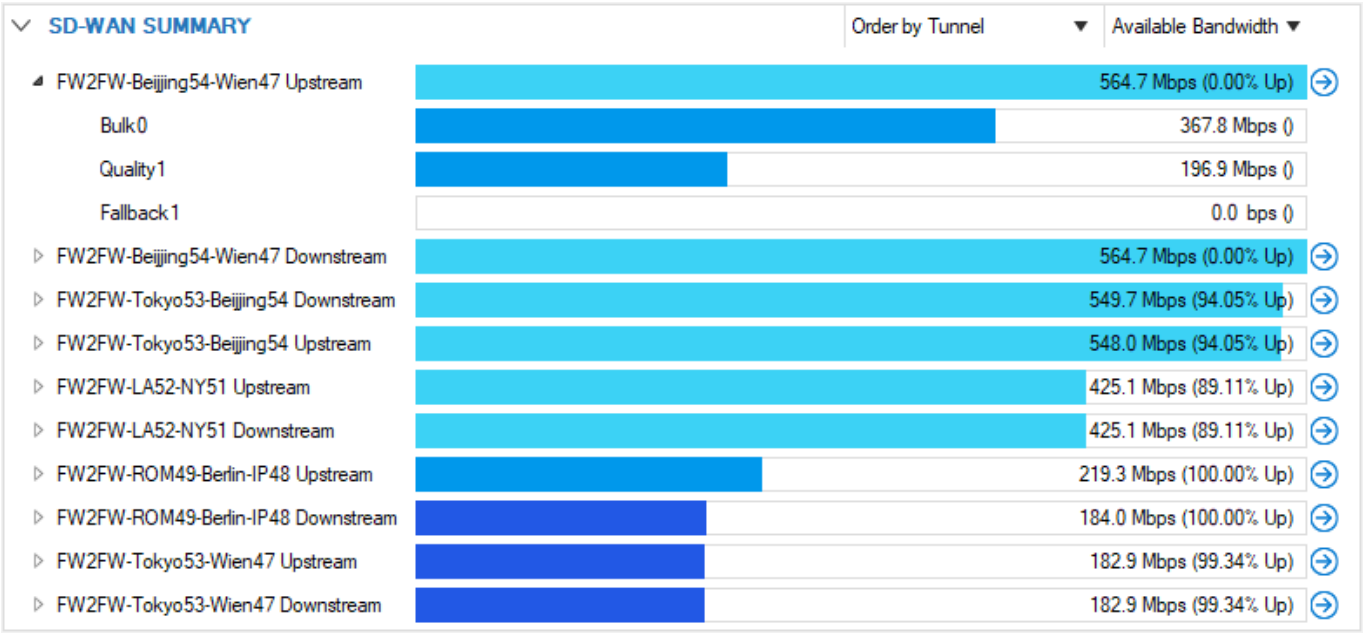
- **White** – Unknown, no data from CC.
- **Green** – All transports of the tunnel are up.
- **Grey** – Transport is down (disabled/switched off).
- **Red** – Transport status is Fail.
- **Blue** – Transport status is Standby.

SD-WAN Summary

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

The following screenshot shows a list of appliances in the SD-WAN. Note that the left column contains entries with the terms 'Upstream' and 'Downstream'.

- **Upstream** – Relates to the source appliance where traffic is sent from, e.g., 'FW2FW-Beijing54-Wien47 Upstream'.
- **Downstream** – Relates to the destination appliance where traffic is received, e.g., 'FW2FW-Beijing54-Wien47 Downstream'.



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

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- **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.

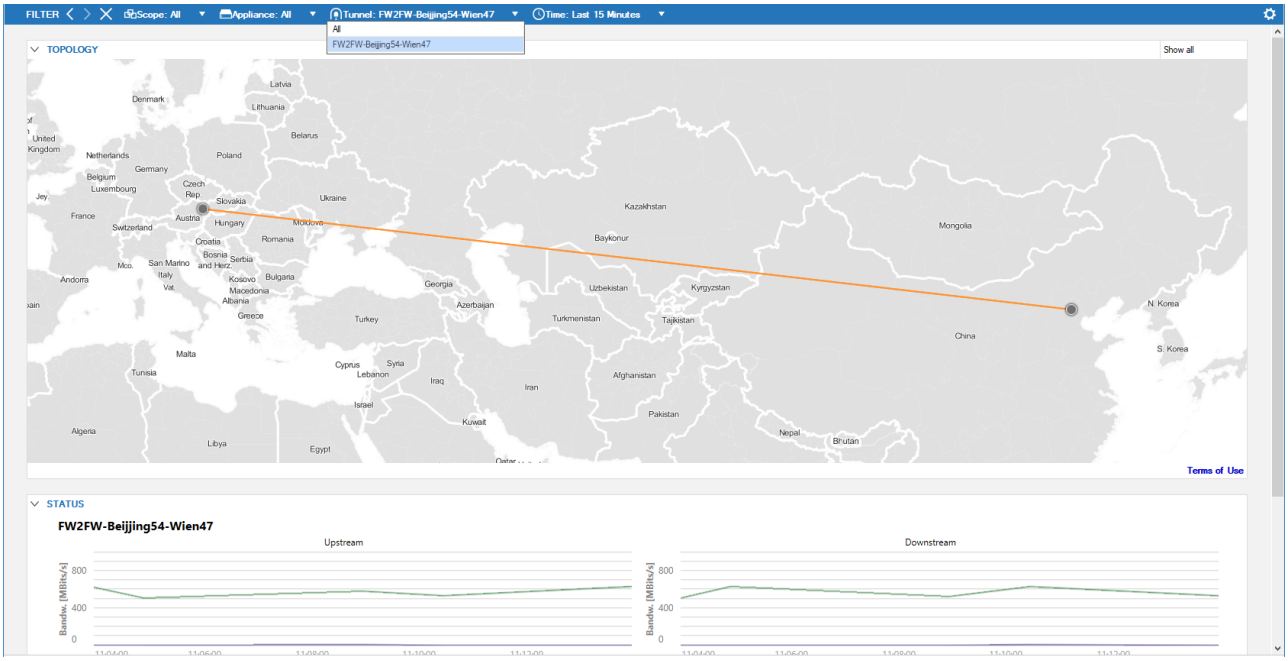
Click on the top right of the element to filter the selection according to:

- **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