



V10000

G5

10GbE

NIC

8.5.6

Installation Guide

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Cards and appliance models

Fiber upgrade kits are optional hardware add-ons, allowing to use fiber connectivity by replacing the existing copper ports on a PCI-E card. Each kit includes a single 2-ports card and can be used for either P1/P2 or E1/E2 replacement. V10000 G5 appliance supports a maximum of 2 kits while a C/N replacement is not supported.

The below mentioned type of 10GbE Fiber card will be used to upgrade the Appliance interfaces:

- Intel X710 2P Adapter (half-height PCI-E)

Appliance Model	P1/P2 Replacement	E1/E2 Replacement	C/N Replacement	First Supported Release
V10000 G5	X710 Half-height	X710 Half-height	Not applicable	8.5.6

V10000 G5 installation procedure

Opening the appliance

Pulling the appliance from the rack

The V10000 G5 Forcepoint Security Appliances are typically mounted in a standard 19" rack.

To remove the appliance from the rack:

Steps

- 1) Power off the appliance and remove the cables from the back of the unit.
- 2) Press the release mechanism on the front of the server rails.

- 3) Pull the appliance straight out from the rack.



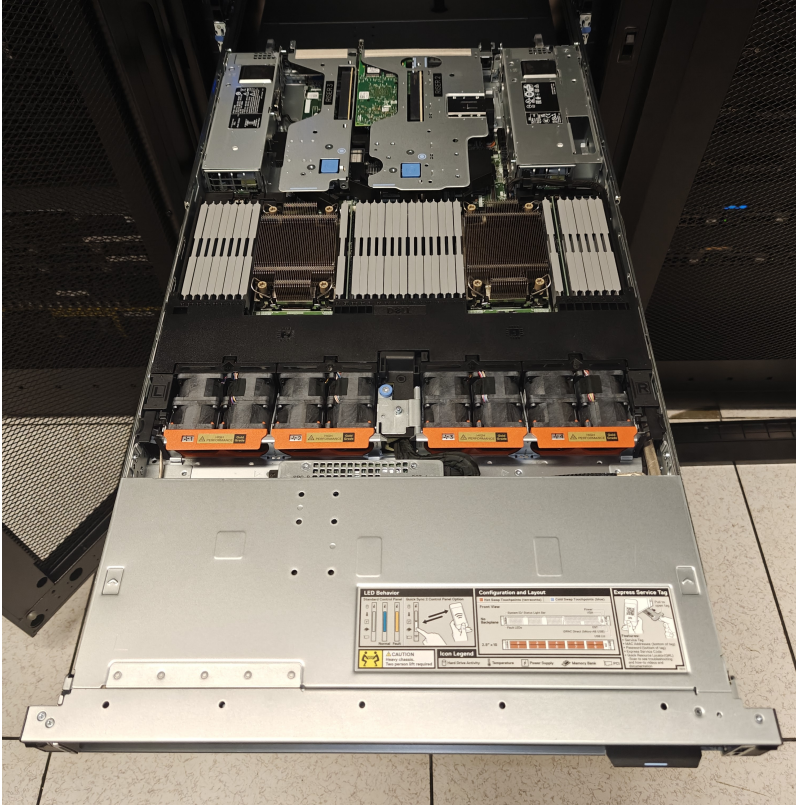
Opening the appliance top cover

To open the V10000 G5 appliance top cover:

Steps

- 1) Turn the case lock (black screw in the middle of the black tab on the lid) to the open position.
- 2) Lift the tab all the way up and the cover should slide back.

- 3) Remove the top cover completely and set aside.



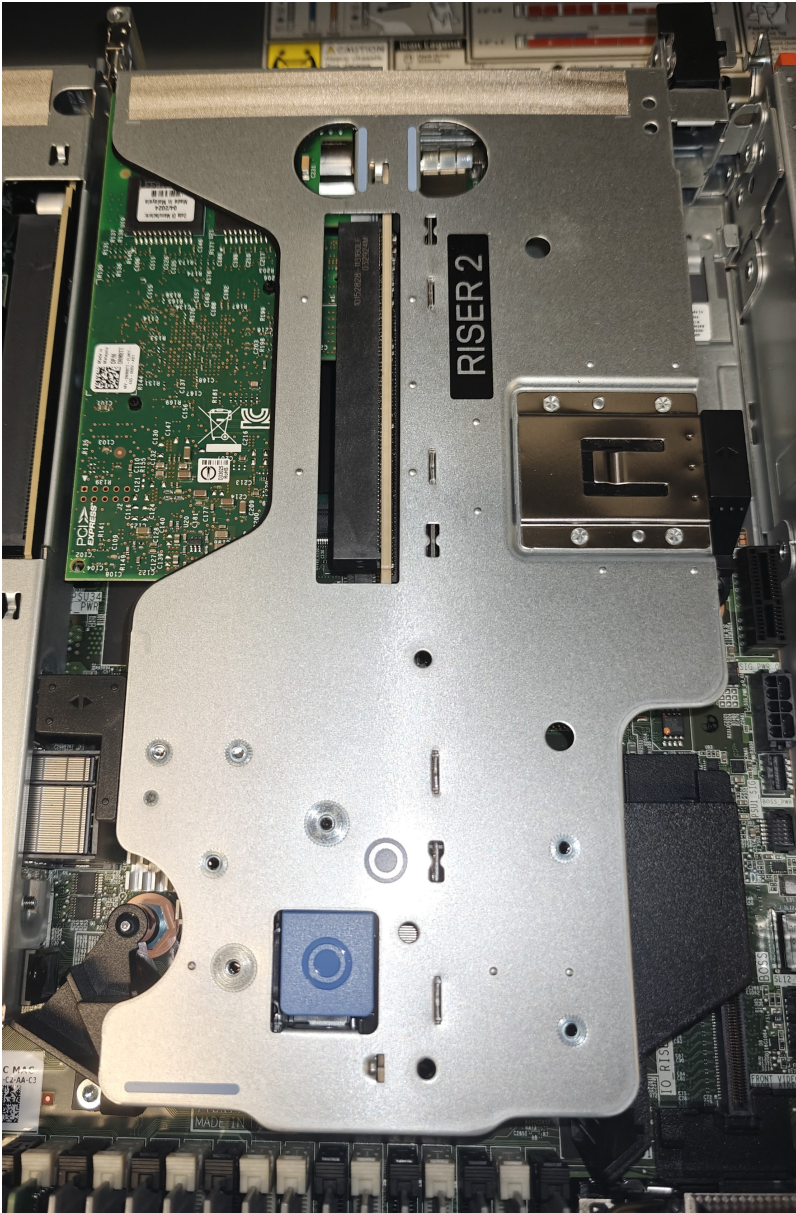
Removing the dual PCI-E card riser

To remove the PCI-Express expansion card riser, located at the back right side of the appliance (when viewing from the front):

Steps

- 1) Locate the two sets of blue tabs. In each set, place your thumb and index finger on either side.

- 2) With your other hand, press down on the blue release and with both hands, gently lift the PCI-E riser up and out of the appliance.



NIC upgrade and replacement

Replacing the P1 and P2 interfaces

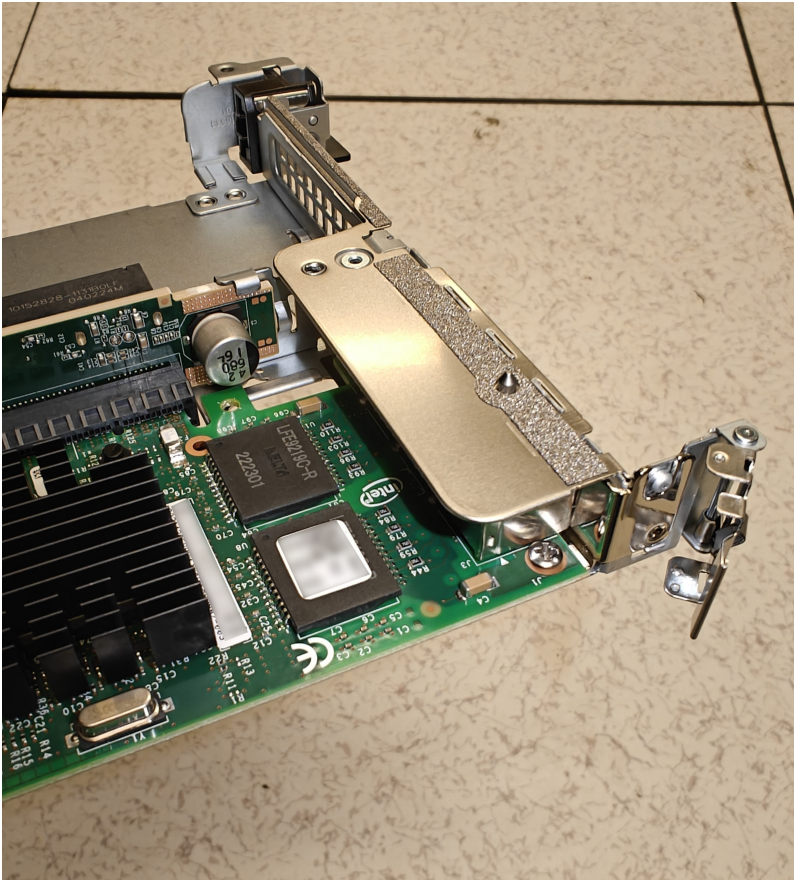


Note

- When upgrading only the P1/P2 interfaces, the 10GbE card will replace the existing 1Gb card in slot 2 of riser 2.
- When upgrading both the P1/P2 and E1/E2 interfaces, one 10GbE card will replace the existing 1Gb card in slot 2 of riser 2 and the second 10GbE card will be installed in slot 1 of riser 2.

Steps

- 1) Open the metal tab on the side.



- 2) Slide out the existing PCI-E card and store it safely. Note that this specific card model is what must be replaced if switching the ports back to 1GbE copper interfaces.
- 3) Insert the new dual-port 10GbE fiber card into its place and close the tab.

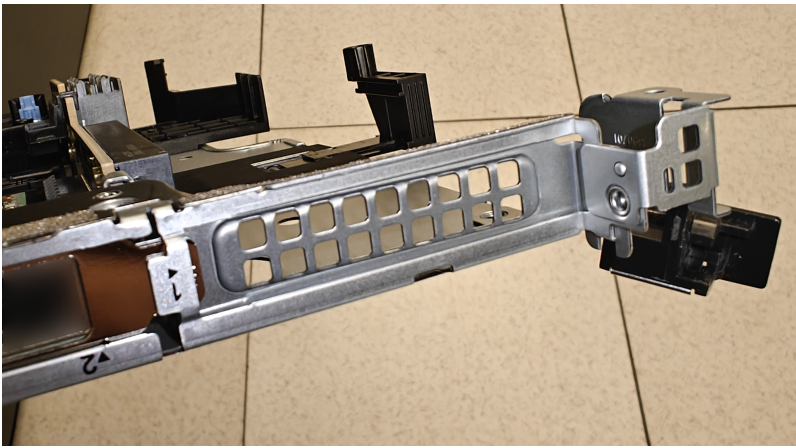
Installing a 10GbE card for the E1 and E2 interfaces

If you are also upgrading the E1 and E2 interfaces to use 10GbE fiber ports, this will require installing a new PCI-E card on the same riser as the P1/P2 interfaces. Once this card is installed, the existing copper E1/E2 interfaces will no longer be used.

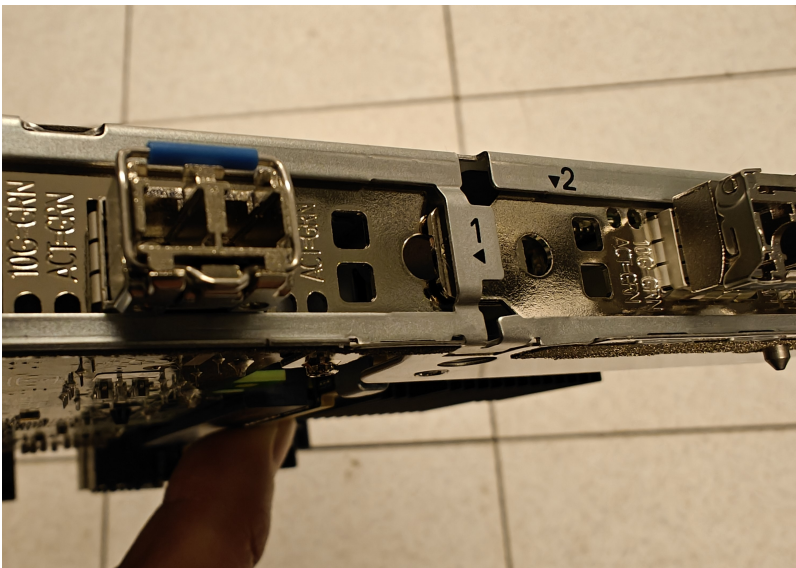
To install fiber NICs for the E1 and E2 interfaces:

Steps

- 1) On the opposite side of the riser card, lift the black tab and remove the blank insert from the back of the riser card. Slide out the black holder on the side.



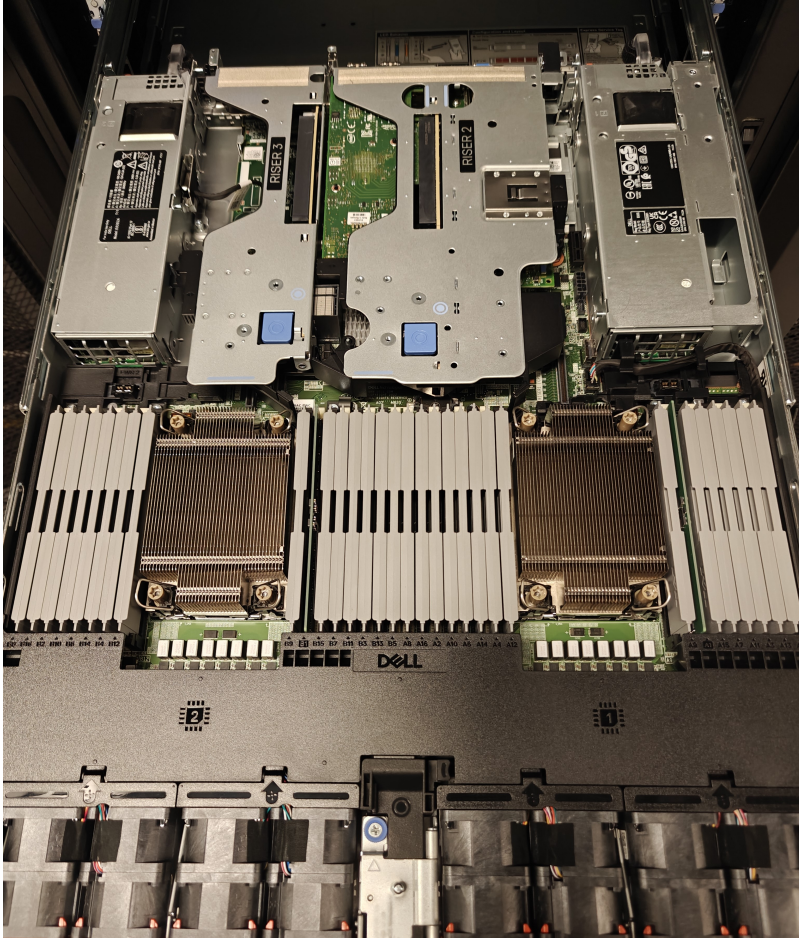
- 2) Insert the dual-port 10GbE fiber NIC into the slot. The card's bracket should slide under the existing P1/P2 card bracket.



- 3) Once the 10GbE card is installed, replace the black tab on the PCI-E bracket, slide in the black holder on the side, and the riser is ready to be reinstalled in the appliance.

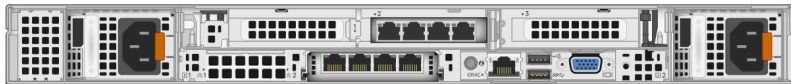


Reassembling the appliance

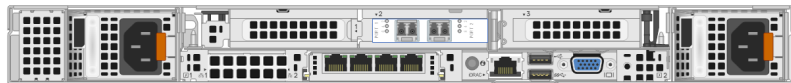


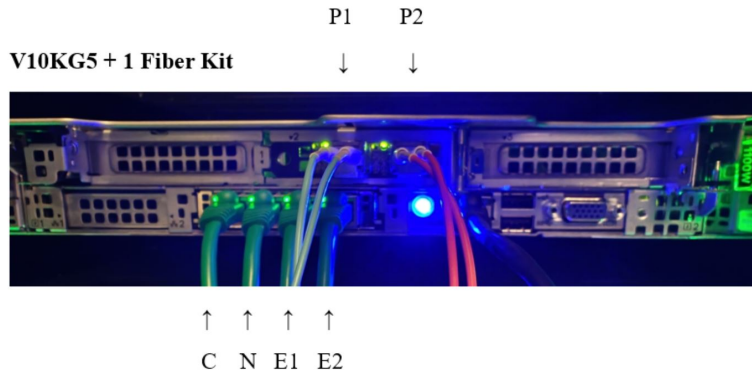
New rear port mappings

Back panel view (**before** fiber kit installation)

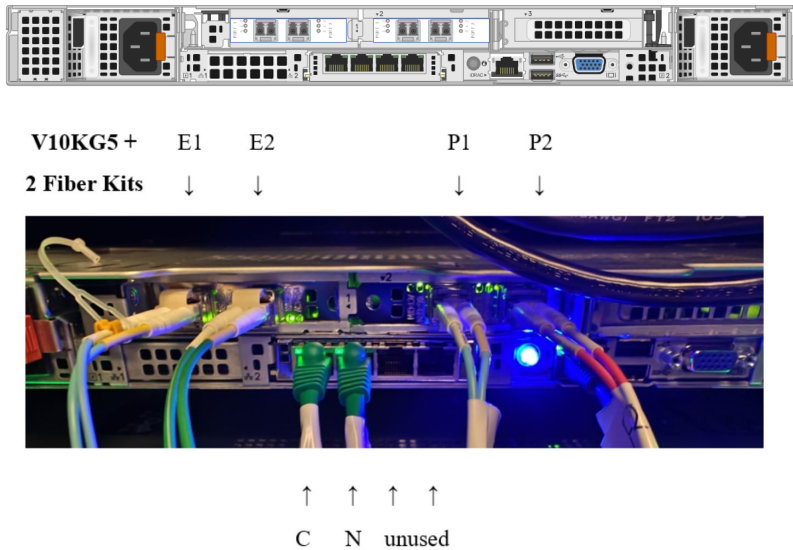


Back panel view (**after one** fiber kit installation)





Back panel view (**after two** fiber kit installation)



Replacing the cover

Slide the cover back onto the appliance and close the flap that was used to open it. The cover should be secured again on the appliance.

Rack and cable

Release the catches on the sides of the appliance rails and slide the appliance back into the rack until it locks into place. Reconnect the power cables and connect the network cables.

Post-upgrade steps

Configure network

When the appliance is turned back on, it will automatically detect the new hardware and remap the appliance interfaces to use the new hardware. If the new fiber network uses network settings (IP address, subnet mask, default gateway) that are different from what was configured for the copper networking, be sure to reconfigure the interfaces via the Appliance CLI or Forcepoint Security Appliance Manager (FSAM).

