

Advanced Optical Bypass EX400 - Overview



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Agenda

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- Bypass Introduction
- Cubro Concept
- Hardware Options
- Use cases
- Feature Overview
- Conclusion













- Self-generating heartbeat packets
- Keeps network traffic flowing when the in-line appliance fails.
- The in-line appliance can be maintained without impacting the network stability
- Different bypass options to match every specific inline security devices.
- Flexible Deployments
- Fast "switching" Route Bypass (Software instead of Hardware based)
- In-line filtering of network traffic based on L2 to L4 criteria
- Supports link ratios from 1 to 100Gbit/s
- Easy to use WebUI
- Customizable trigger options









In our never-ending effort to meet the growing demands of high-speed networks, **Cubro** has launched the **advanced 100/40 Gbit Bypass solution**, which is based on its cutting-edge network packet broker technology.





Each port can be configured to 100 / 40 / 4 x 25 / 4 x 10 Gbit







Live mode - Inline is working fine



Bypass mode - Inline tool is out of order





Bypass Application



TAP / Aggregation / Load Balancing Application



Bidirectional Media and Bandwidth Converter





Bypass Load Balancing Application





The EX400 supports two connections options single and dual port. The dual port version is most common, but in cases when the inline tool does not have two ports then the one port connection is also supported (*in the single port connection the configuration is more complex, but still easy to do with the WEB UI*)







In this use case the EX400 acts in two roles.

First as Bypass for the live link in a power outage scenario and second to support service chaining to a hot standby appliance in the case of a software issue on the running unit.



Data Collector



SCALABLE | SUSTAINABLE

SIMPLE

Data Collector



In some cases the inline device cannot support 100 Gbit because of performance issues. In this case the bypass can support L3 load balancing on the device ports. As output 10 Gbit and 25 Gbit is supported.



SCALABLE | SUSTAINABL

The output for the inline device load balanced 4 x 25 Gbit or 4 x 10 Gbit







The configuration of the EX400 Advanced Optical Bypass is simple:



SIMPLE | SCALABLE | SUSTAINABLE



Each scenario is explained by a detailed 3D animated tutorial video which is liked on the WebUI.









The self-explanatory dashboard of the EX400 simplifies the understanding of the traffic flow and highlights errors or downtimes of services



SIMPLE | SCALABLE | SUSTAINABLE











Cubro EX400 switch between the Fortinet units if one fails or has to be taken offline due to maintenance activity.

The unique route bypass (software bypass) allows smooth switching between the Fortinets without service downtime or packet loss.

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