

Global Network HLD

1 - Syensqo Network Overview

Syensqo's Global Network spans four major regions:

- NAM - LAM: North & Latin Americas
- EMEA: Europe, Middle East & Africa
- APAC: Asia & Pacific
- CHINA

The backbone is primarily supported by Megaport, which interconnects the EMEA, NAM-LAM, and APAC regions through dedicated links.

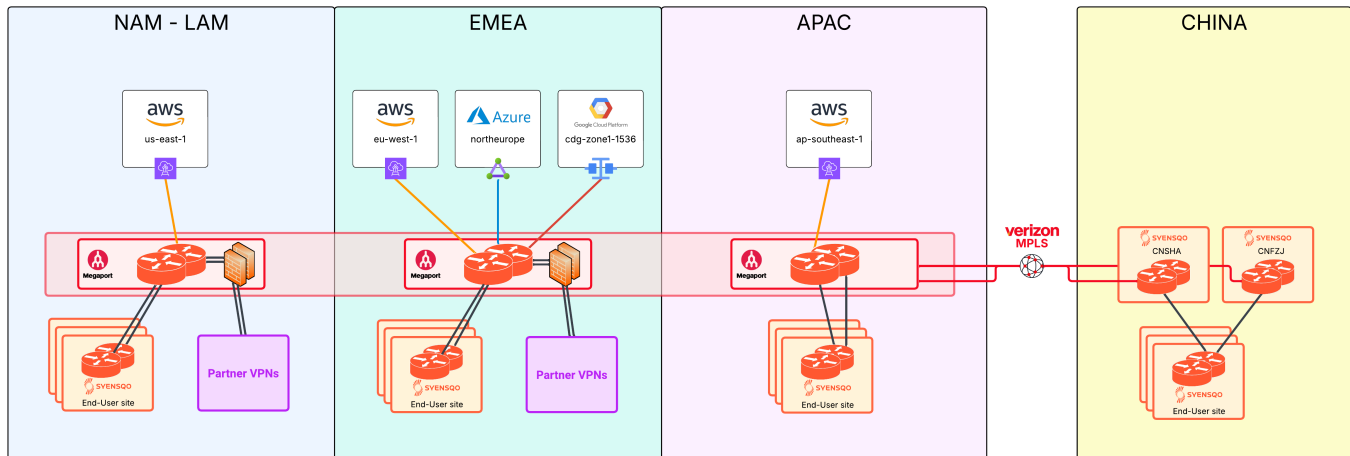
Each of the four regions relies on a Hub & Spoke SDWAN architecture, with two regional hubs hosted in Megaport datacenters.

These Megaport Hubs host:

- 2 x virtual SDWAN Routers serving as regional **SDWAN hubs**
- 2 x virtual PaloAlto Firewalls for secure **partner VPN** connectivity
- Direct interconnections to Syensqo's regional cloud tenants (AWS, Azure, or GCP)

There is a specificity for China which does not rely on Megaport backbone directly, and does not have dedicated Cloud Tenants or Partner VPN Firewalls.

Instead, China's SDWAN hubs —located at major sites in Shanghai and Zhangjiagang— connect to the APAC region's Megaport hubs via a Verizon MPLS link, relying on APAC's infrastructure for cloud and partner connectivity.



2 - Syensqo Backbone HLD

Syensqo's Backbone relies on Megaport services for NAM-LAM, EMEA and APAC regions while China's Hubs are hosted on end-user sites connected to Singapore's Megaport hubs via a Verizon MPLS.

1 - Region Interconnections

The bandwidth available to interconnect the different regions is:

NAM-LAM 2 x 500Mbps EMEA 2 x 100Mbps APAC 300Mbps CHINA

2 - Regional Hubs' Internet Access

Each region's Hubs has internet access supporting the **SDWAN overlays** to interconnect with the region's user sites:

- NAM-LAM: 500Mbps on each hub
- EMEA: 500Mbps on each hub
- APAC: 100Mbps on each hub
- CHINA: 400 Mbps on CNSHA, 300Mbps on CNFZJ

3 - Regional Hubs' Cloud Interconnections

Each Megaport hub is interconnected with its regional Cloud Tenants through a dedicated direct connection:

- NAM-LAM:
 - 2 x 1G Direct Connect to AWS us-east-1
- EMEA:
 - 2 x 1Gbps Direct Connect to AWS eu-west-1
 - 2 x 1Gbps Express Route to Azure northeurope
 - 2 x 500Mbps Partner Interconnect to GCP cdg-zone1
- APAC:
 - 2 x 1Gbps Direct Connect to AWS ap-southeast-1
- CHINA:
 - No Syensq cloud tenant in China as of now.

