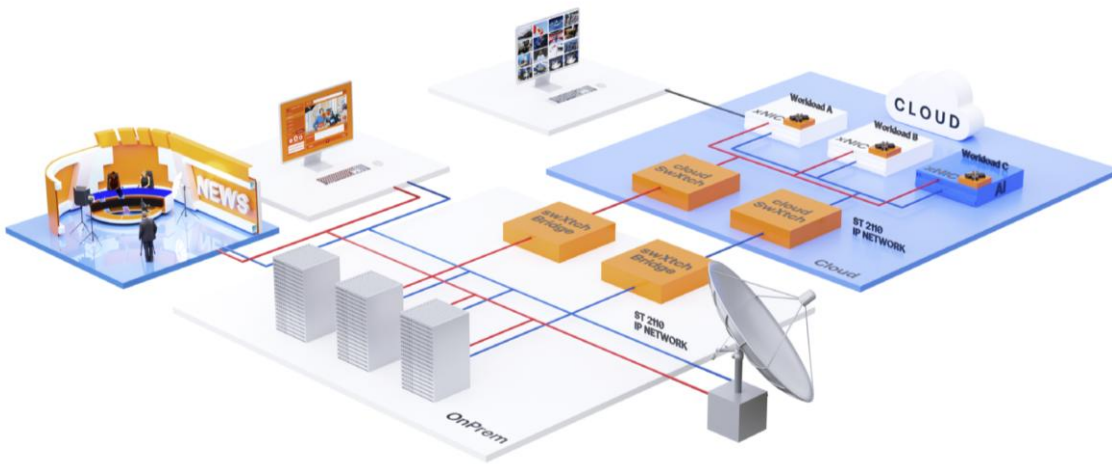# swXtch.io

Meet cloudSwXtch

Product Description

The Cloud Wasn't Built for Multicast. Until Now.

Multicast and reliable transport are essential for many workflows and applications – yet cloud networks fall short. Roadblocks like high latency, packet loss, low network visibility, and scaling limitations stall workflows from moving seamlessly to the cloud.

That's why we built cloudSwXtch -- because the networking piece shouldn't be the reason you can't move your workflows to the cloud.

Benefits

- **Plug-and-play** across AWS, Azure, GCP, and OCI: No software changes to third-party workflows, no vendor lock-in, and no extra hardware, unlike Zixi and SRT
- **True multicast** and reliable transport between ground to cloud: Validated at scale, so your cloud and on-prem networks work as one
- **High availability** mode that stays stable under load, which struggle in real-world conditions
- **Simplified network management** & streamlined media flows in the cloud with NMOS
- **High-bandwidth workflows** like ST 2110 JPEG XS with zero compromises
- **Total packet visibility** and signal observability with an extensive channel view

Networks in Software

Benefits: How cloudSwXtch Transforms Your Network

cloudSwXtch solves the cloud's multicast and reliability gap, providing the critical networking foundation needed to migrate enterprise workflows. cloudSwXtch is designed to finally allow cloud networks to perform with parity to traditional on-premise environments, without compromises.

Performance and Features

Proven Performance

- Up to 100 Gb/s egress throughput
- Up to 15 Gb/s per flow
- Up to 1,000 endpoints (xNICs)
- Up to 10,000 simultaneous flows
- Ultra-low <10µs latency
- Lossless UDP transport

Cloud Networking Features

- Unicast, Multicast and Broadcast
- SMPTE ST 2022-7
- SMPTE ST 2110
- Ground to Cloud/Cloud to Ground
- Live Standards Conversion
- Protocol Conversion and Fanout
- Precision Time Protocol

Choose exactly where your applications live

cloudSwXtch is a virtual overlay network that seamlessly bridges on-prem and cloud environments, enabling reliable multicast for IP-Video and other high-performance applications. By layering multicast workflows onto your unified network, cloudSwXtch gives you the flexibility to choose exactly where your applications live -whether on the ground or in any cloud. The result is a truly unified networking solution.

Bridge on-prem and cloud networks with reliable multicast for IP-video

Run the same workflows on-prem or in the cloud

Harness a unified network

Let's connect to discuss how cloudSwXtch can support your transition to the cloud.