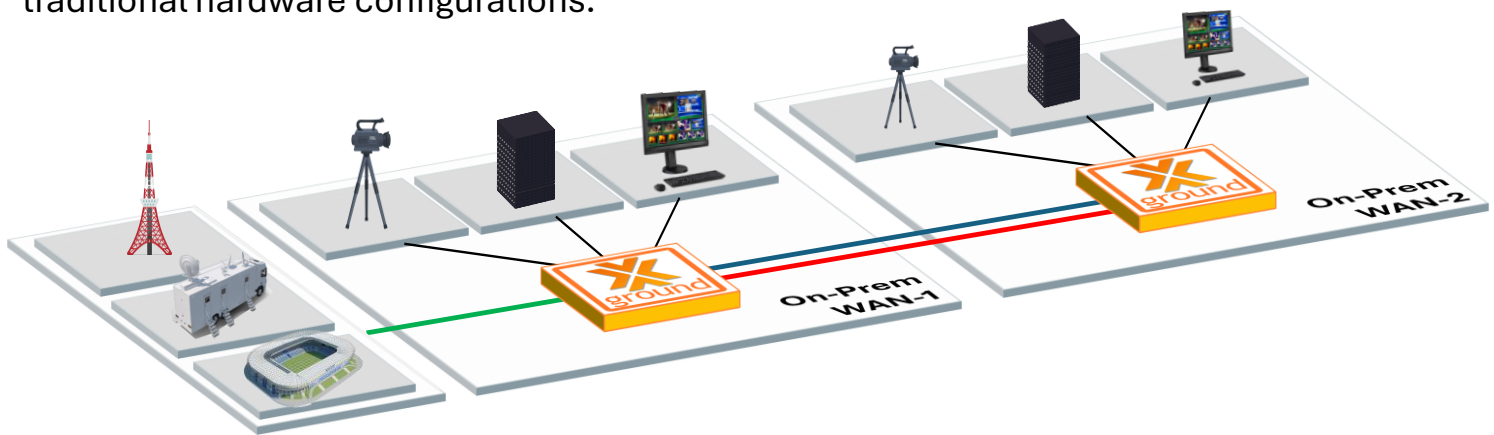


groundSwXtch

Product Description

Software-Defined Multicast for On-Prem Networks

groundSwXtch brings software-defined multicast capabilities directly to your physical on-premises environments. Connect your facilities into a unified global multicast network without the provisioning and management complexity of traditional hardware configurations.



Deployed as pure software on any infrastructure with network access, **groundSwXtch** revolutionizes multicast networking by removing the traditional barriers of hardware dependency.

Instead of labor intensive, complex configurations on switches and routers, deploy a software overlay that abstracts complexity and accelerates setup in your own environment. This also extends to modern containerized applications, unlocking even greater flexibility.

Why implement multicast as a software overlay?

It's important and it's hard. Configuring multicast on a physical network typically adds configuration and maintenance complexity. It is hard to control and increases the risk of security breaches, network congestion, and failure. **groundSwXtch** creates a controllable, scalable, managed network in software that is simple to configure, modify, and monitor.

Benefits

Simplified Network Management - Eliminate the need for multicast provisioning on physical devices, reducing configuration errors, downtime, and administrative overhead.

Cost Efficient - Avoid costly hardware upgrades or replacements. Leverage existing infrastructure to achieve multicast capabilities, lowering capital and operational costs while extending current asset life.

Flexible and Scalable - As pure software, add nodes, adjust flows, or expand globally without physical reconfigurations. The system further boosts this by enabling multicast in Kubernetes clusters, supporting dynamic container orchestration without native network modifications.

Reliable and Secure - Built-in packet protection safeguards data integrity on hybrid links, while protocol conversions ensure compatibility. **wXckedEye** monitoring provides real-time visibility, enabling proactive issue resolution and minimizing disruptions.

Built-in Cloud Connectivity - Bridge on-prem and cloud worlds into a single, high-performance network. This hybrid model supports bursting to the cloud during peak loads, optimizes bandwidth usage, and ensures consistent performance across environments.

Connect POPs to create a secure, scalable multicast network. Built-in path redundancy protects against packet loss even across unreliable links.



Faster Time-to-Value

Deploy in minutes. Accelerate project timelines, respond more quickly to business demands, and gain a competitive edge in data-intensive industries, including containerized ecosystems.

Compatibility

Deployable on any available infrastructure with access to the network.

Formats

Ingress and Egress:
SRT, multicast, unicast, and RIST.

Scalability

Deploy in a mesh to horizontally or vertically scale to global reach.

Security

Constrain multicast traffic using standard network encryption and security methods.

Deploying **groundSwXtch** as a software overlay creates an “island of multicast” that overcomes the challenges of using multicast on core networks. It provisions a managed network on top of *any* global network, one that is much easier to isolate, secure, provision, modify, and monitor.