OPENGEAR

Growing enterprise needs are driving a transformation at the network edge. Demanding a greater ease of use and reduced costs, SD-WAN has emerged as the go-to solution, replacing traditional WANs as the new standard deployment for enterprise networks.

Enabling a smarter, more agile network, SD-WAN provides reduced costs by minimizing the need for expensive private network circuits and leveraging dynamic load balancing to share network bandwidth across connections. SD-WAN does have many benefits, but the sophistication of these routers creates additional points of failure which can lead to small network events becoming large scale disruptions.

Potential SD-WAN Interruptions

Updates
Every time a firmware update is executed, there is a risk of an error or misconfiguration which can bring down the router. These complex routers require more frequent updates than the legacy equipment. Whether introducing new features or fixing bugs, outages can become catastrophic without an out-of-band solution in place.

Security
SD-WAN's basic security offerings aren't sufficient to protect an enterprise. Not only does the primary SD-WAN connection need to be secure - it must also be integrated into any other security solution that has been deployed. SD-WAN devices are often fully-meshed, which means that compromising one device can give attackers visibility into the traffic flow from across the enterprise.

Attach *Smart* Out-of-Band to Ensure Network Resilience

SD-WAN is not a stand-alone solution. Although these deployments provide flexibility, the routers introduce single points of failure that can result in potential downtime. *Smart* Out-of-Band supports SD-WAN deployments, providing staff the ability to access the network at all times.

Out-of-Band provides secondary access to the network in the event of a disruption. Separate to the production network, administrators are able to remotely monitor, manage and access all devices so disturbances don't affect the primary operation.

Smart Out-of-Band ensures continuity and uptime for mission-critical applications by utilizing automated intelligence. Adding a layer of protection beyond the standard hardware, it is designed to ensure resilience at the core and edge of the network. By embedding intelligence at the network edge, *Smart* Out-of-Band and Failover to Cellular™ enable always-on access, even during an outage.

Diagnose The Issue
If an outage occurs and the primary internet link is disconnected, engineers are able to identify and remediate issues.

Provide Network Resilience
Failover to Cellular provides enough bandwidth to ensure mission-critical applications can be run as issues are remediated.

Ensure Always-On Access
Devices in remote data centers and at the edge are constantly able to be accessed and resilient backup connectivity is ensured.

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What is *Smart* Out-of-Band?

Out-of-Band (OOB) provides secondary network access in the event of a disruption. By connecting to the remote equipment through an alternate path, it allows network administrators to securely manage devices during an upgrade or a failure of the primary network.

Smart OOB™ maximizes business continuity, adding a layer of protection beyond the standard hardware. Designed to ensure resilience at the core of the network, *Smart* Out-of-Band enables always-on access - even during a system or network outage. By embedding intelligence at the network edge, network resilience is increased with early warnings, remote access via *Smart* Out-of-Band and Failover to Cellular.

Protect your next deployment with:

• Automated alerts to instantly identify network issues
• Environmental sensors for temperature, humidity, vibration and door openings
• The capability to operate independently from the in-band network

SD-WAN + *Smart* Out-of-Band = Enterprise-Grade WAN
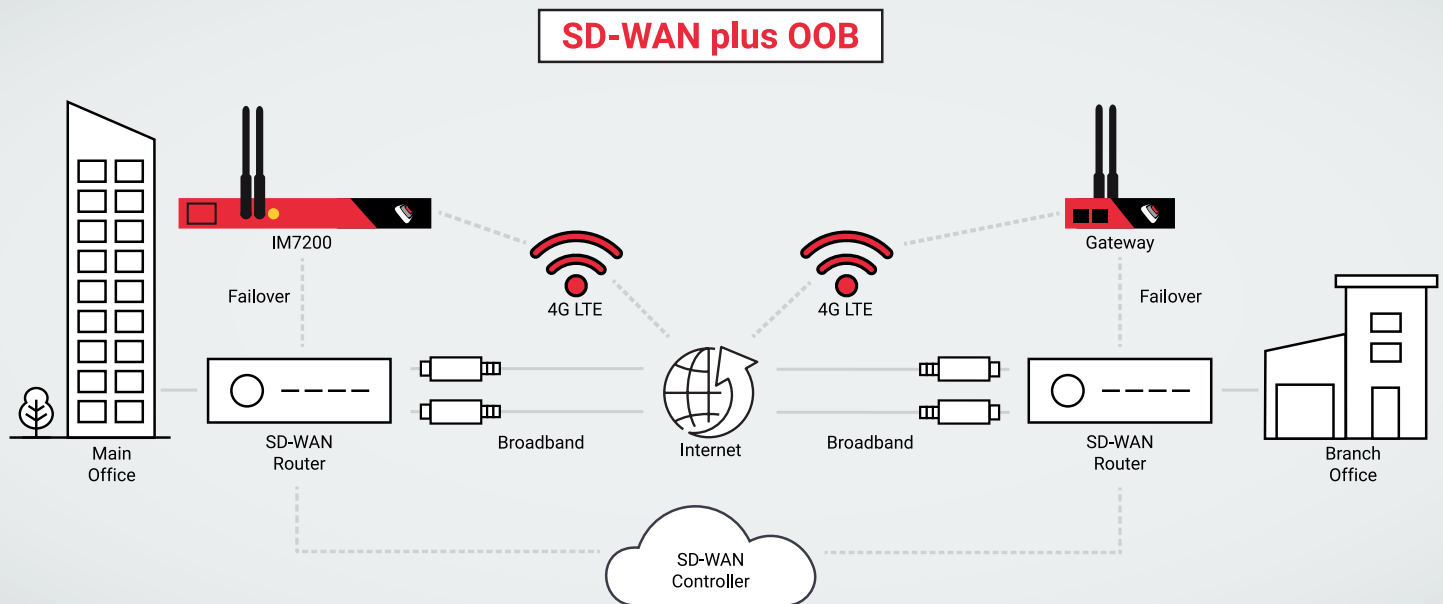
Enable remote monitoring, access and management from any network device – all from one console server.

Deploying SD-WAN? You need *Smart* Out-of-Band.