

AWS Interconnect - last mile

Delivered through Lumen Cloud Interconnect

What is AWS Interconnect - last mile?

AWS Interconnect - last mile is a fully managed connectivity service that extends AWS Direct Connect from the AWS edge to customer locations. Delivered through Lumen Cloud Interconnect, it removes the complexity of designing, deploying, and operating last-mile connectivity.

Co-developed by AWS and Lumen, the service enables customers to establish secure, high performance private connectivity from their sites to AWS in minutes, without manual network configuration or multi-vendor coordination.

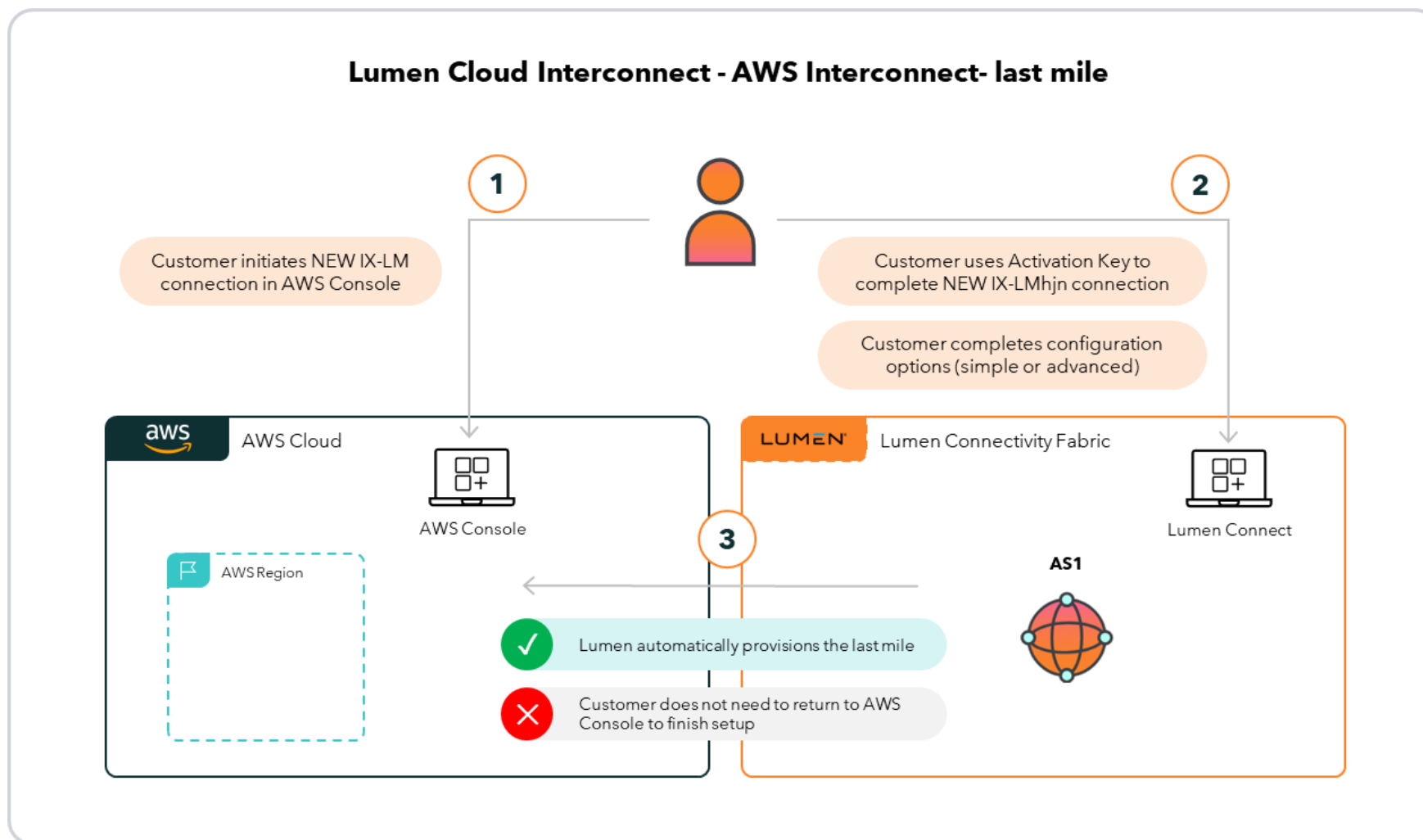


Figure 1

Interconnect - last mile to Lumen Cloud Interconnect Workflow

This diagram shows the streamlined last-mile provisioning workflow for Lumen Cloud Interconnect with AWS Interconnect (IX-LM).

The customer initiates the connection in the AWS Console (1) then completes configuration in Lumen Connect, where Lumen automatically provisions the last mile (2) eliminating manual steps and return actions in AWS (3).

For MLP, authentication is handled via a service-based key generated on the AWS console that customers must manually enter in the Lumen console to get a list of attach points

Key Benefits of AWS Interconnect - last mile



Fully managed last mile

Connectivity from the customer location to AWS is provisioned, monitored, and managed end-to-end



Built-in resiliency

High availability and redundancy are enforced automatically. No custom architecture required



Two Portal Experience

Ordered and managed directly from the AWS Console and Lumen Connect



Operational simplicity

Customers manage their single logical connection instead of multiple circuits, vendors, and configurations

What Sets Lumen Apart

First Provider of Interconnect - last mile

Lumen is the first provider to co-develop AWS Interconnect - last mile, shaping the architecture, automation, and customer experience directly with AWS

Deep last-mile infrastructure at enterprise scale

Lumen delivers last-mile connectivity over a massive global fiber footprint, extending AWS private connectivity directly to customer locations

Built-in resiliency by default

Multi-path redundancy and high availability automatically, eliminating the need for customers to design or manage failover

Fully automated, SLA-backed operations

API-driven integration between AWS and Lumen automates provisioning, routing, monitoring, and scaling with 99.99% service-level availability for production workloads

866-352-0291 | lumen.com | info@lumen.com

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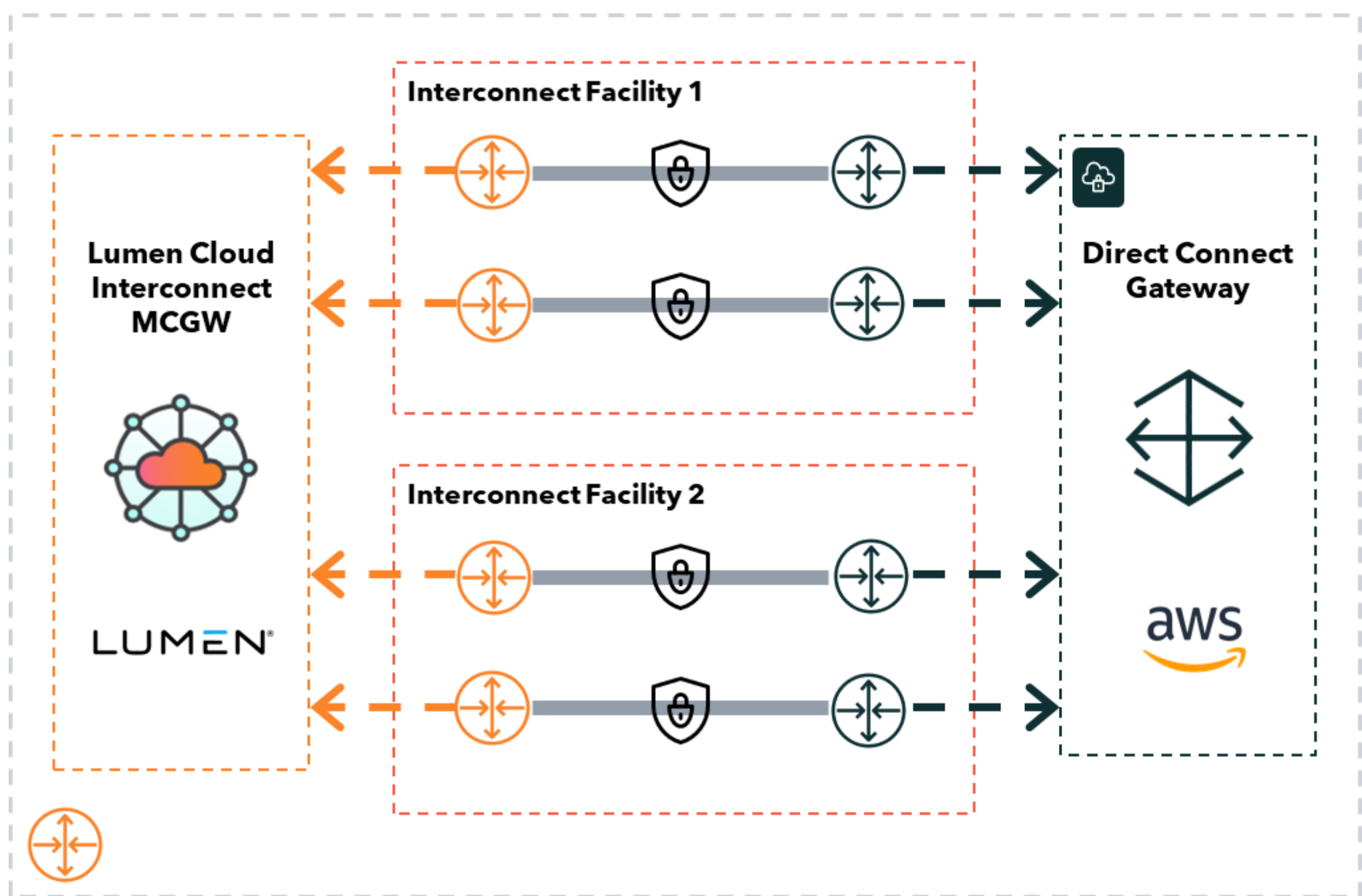


Figure 2

Pre-built for Resilient and High Bandwidth Connectivity

This diagram shows a high-availability private cloud connectivity architecture using Lumen Cloud Interconnect and MCGW with redundant interconnect facilities to provide secure, resilient access to cloud services via Direct Connect Gateway.

Multiple diverse paths and integrated security ensure consistent performance and fault tolerance.

Top Technical Use Cases

- **Hybrid Cloud Connectivity:** Connect enterprise sites directly to AWS for consistent performance and private access.
- **Mission-Critical Workloads:** Support applications that require high availability, predictable latency, and resilient connectivity.
- **Data-intensive & AI/ML Workloads:** Enable high-throughput data movement between customer environments and AWS services.
- **Rapid Site Enablement:** Enable Bring new locations online quickly without redesigning last-mile network architecture

What Customer Do Not Have to Manage

- No Manual VLAN, routing, or resiliency configuration
- No multi-vendor last-mile coordination
- No custom network design per site
- No separate monitoring or support models

AWS Interconnect - last mile abstracts operational complexity while preserving control and visibility

Key Considerations

- Initial launch in US East (NY/NJ), with additional expansion planned
- Customers can connect to any AWS region globally, regardless of attach location
- Connections delivered over 100G-400G LAG ports between AWS and Lumen
- Elastic bandwidth scaling from 1Gbps to 100Gbps in predefined increments

Why Lumen?

Lumen delivers the trusted network foundation enterprises rely on to connect their business to the cloud. By leveraging Lumen's expansive global fiber footprint, deep operational expertise, and automated cloud-ready infrastructure, customers gain secure, high-performance connectivity without the complexity of building or managing it themselves. Helping ensure reliability, scalability, and peace of mind as cloud demands grow.