

Ultimate X-1000v for AWS

Powered by Vcinity Data Access Platform™ (VDAP)

BENEFITS

- Seamlessly deploys in any environment regardless of storage or LAN/WAN
- Enables real-time data access in support of time sensitive workloads no matter where data is created
- Reduces exposure to liabilities due to unprotected data copies
- Delivers highest levels of data security in flight with support for SIMON and AES256 encryption
- Provides unified view of data across data center, edge, and cloud
- Improves productivity, increases revenue potential, and reduces cost due to network inefficiencies
- Reduces storage footprint by eliminating the need to create copies and cache data near compute



ULTimate X-1000v

Up to 2.5Gbps per VM or 10Gbps per F1 FPGA Instance

Vcinity™ has made the impossible—possible. The old assumption that data must be collocated with the application has been shattered. Now, data can be accessed and processed in place regardless of distance or latency. The old just-in-time that had a time lag directly correlated to data movement is not good enough. Real-time data access is critical to success and Vcinity enables just-in-time to be real-time.

Vcinity Data Access Platform™ (VDAP) shatters the limits of connectedness, empowering organizations to derive value from data in real-time.

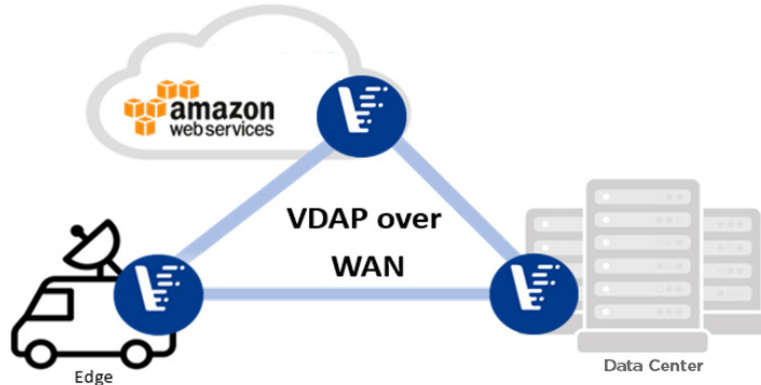


Figure 1. VDAP over WAN

The Connected Enterprise:

- **Accelerate compute cloud adoption:** Leverage the elasticity of the cloud to process data in real-time without the time penalty of having to first move data to the cloud.
- **Accelerate time to insights and business value:** Deploy compute resources on premises, at the edge, or in the cloud without having to move data. VDAP delivers data proximity over WAN in real-time, regardless of where data is created. Realize the value of data—don't fall victim to network inefficiencies.
- **Eliminate the necessity to copy and cache data near compute:** Whether data can't be moved or the enterprise won't move data, empower applications to access and process data at the point of creation. VDAP connects compute and data over WAN without performance consequences.
- **Lessen exposure to liabilities associated with compromised data:** Moving data and creating copies of data in every location where applications reside exposes data to cyber-security threats. Additional data protection tools must be deployed to ensure data security and integrity in every location.

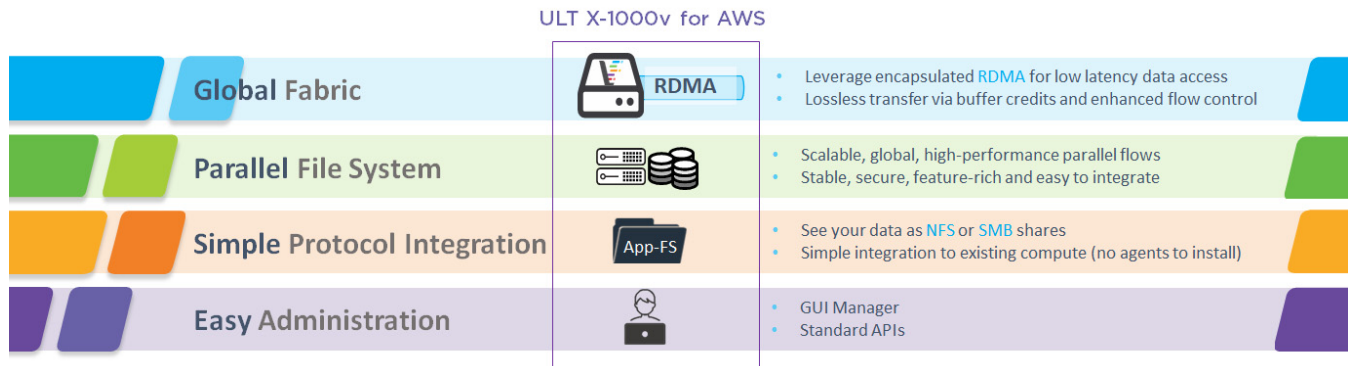


Figure 2. Minimizing the effects of latency

Vcinity’s unique, holistic approach outlined in the figure above addresses various layers of the overall stack through efficient transport, integration, and application transparency.

As shown in Figure 2, the important elements of the solution are:

- **Global Fabric**—A highly efficient and secure global fabric by leveraging High Performance Based protocols such as RDMA, advanced traffic engineering and flow control methods across any distance
- **Integrated Parallel File System**—Industry-proven parallel file system designed for high performance I/O of the global fabric, global names space views and distributed seamless access controls
- **Simplified Integration**—Open and well understood interfaces and APIs, easy-to-use tools and multi-site management system for easy integration into existing IT architectures

Vcinity offers unique capabilities:

Feature	Description/Benefit
DataPrizm™	Dispersing data across multiple (3-8) paths—adds a layer of security, and enables the use of multiple paths in aggregate throughput when a single path with adequate bandwidth is not available.
In-flight Encryption	Single or dual encryption with AES-GCM-256 and/or Lightweight SIMON 256. Each packet may be encrypted separately for ultimate security.
High Availability	Support up to a two-node failure with an N+2 Server configuration.
Any MAN/WAN Service	Point2point(s) full-rate or partial rate Ethernet service, layer 2 virtual private network service, MPLS-TE service, dark fiber
Concurrent, multiple LAN fabrics	1/10/40 Gbps RoCE (RDMA over Converged Ethernet) and FDR InfiniBand interfaces aggregating concurrently to a single network service
Open control and management interface	SNMP v2/3, NETCONF, REST API, HTTPS, SSH, CLI
Any Internet Connection	From Mbps to 60 Gbps terrestrial and satellite connections