

# Rugged Ultimate X

Access to any data, any time, anywhere

## BENEFITS

- Workflow acceleration by leveraging data in-place to improve production workflows and collaboration without moving content
- Use of complete, fresher source datasets that can be moved or leveraged in-place by analytics/AI/ML engines
- Substantially faster data transfer speeds (compared to existing methods) accelerating data migration, replication, back-up, and disaster recovery
- Seamless connection of on-prem data to colo or cloud with full control of the data
- Cost savings with minimal copy sprawl which reduces storage requirements and enhances data security
- Dramatically reduced RTO/RPO improving recovery from system failures or data corruption independent of data growth and distance
- Reduced staff training and learning curve with intuitive, web-based management interface



### Executive Summary

Vcinity™ has provided innovative, patented technologies to enable the most mission-critical, complex data applications around the world. Purpose-built for harsh enterprise environments, Rugged Ultimate X™ (Rugged ULT X) provides unbounded access to data anywhere, any time, from any place. It supports unprecedented performance transparent to applications and seamless integration into a hybrid environment. Whether the enterprise data is mission-critical data for government and military applications, seismic and oil well performance data at an oil rig or production media in a mobile truck at a football stadium, Rugged ULT X creates a unified data platform across the MAN/WAN that makes geographically dispersed data available from anywhere – as if it were local.

### Challenges

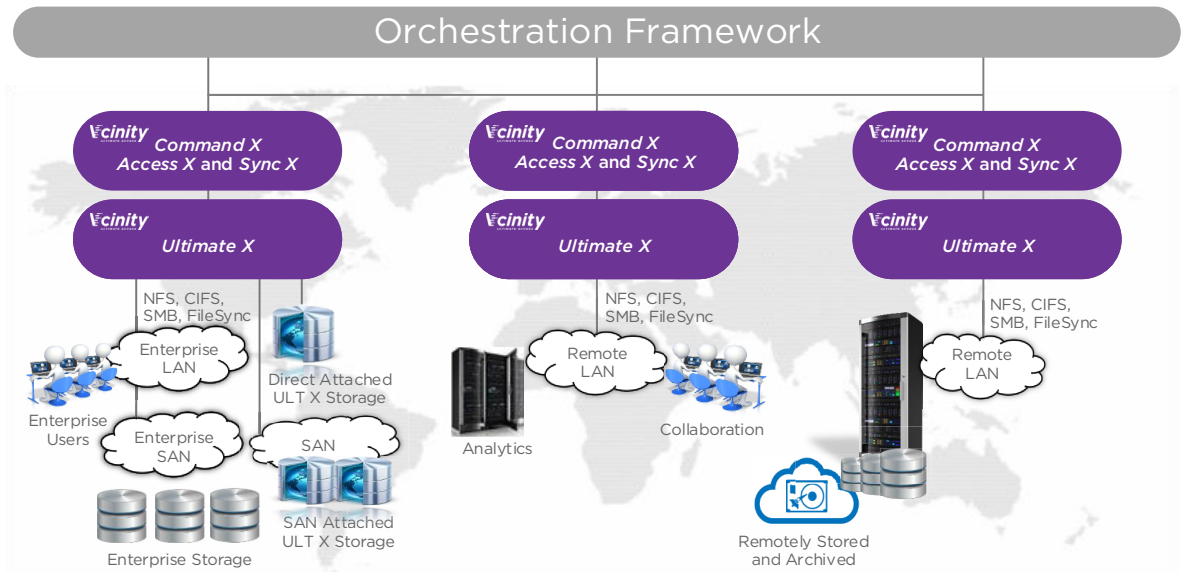
Accessing data within an enterprise spread across geo-diverse locations challenges work productivity, time, and bandwidth resources. Existing methods require data to be transferred and replicated leading to copy sprawl and compromised data security. Even with data transfer, data arrives at the destination in an unpredictable time and performance varies with data type/size and application. Utilizing network data mover appliances and applications is so cumbersome that even physical transportation of media or data is considered an acceptable solution. In summary, there is a need to access data with or without replication across any distance to support location-independent data centers, distributed workflow operations, content creation across geo-diverse locations, business continuity objectives and content distribution in predictable timeframes.

### The Vcinity Solution

The Vcinity ULT X solution attaches to an enterprise network as an industry-standard NAS or transitional high-speed storage tier and, when connected over the MAN/WAN, provides a high-performance, geo-diverse data exchange. ULT X essentially enables a global federated data platform for accessing data with or without replication, using global namespace and network-mapped drive volumes across geographically distributed enterprise storage. It utilizes high performance computing (HPC) technologies and tiered storage architecture to bring together the local, remote, and MAN/WAN environments over a converged infrastructure. Rugged ULT X is a ruggedized, shock-resistant, temperature hardened, light-weight, portable version of the original ULT X chassis.

Command X™ provides administrators, operators, and customers a web-based GUI to monitor health and performance and configure ULT X nodes across multiple sites within the converged environment. As an integral part of ULT X, it enables easy management and monitoring of infrastructure resources and data level operations enabled by the solution.

Access X™ is an easy-to-use, web-based comprehensive file management tool that allows ULT X users to copy or move folders/files. Sync X™ provides a web-based file synchronization and backup tool. Both Access X and Sync X are ideal for enterprises that want to fully leverage the file sharing capabilities that ULT X enables.



**Unprecedented Performance**

- Near-real-time access to remote data as if it were local
- Transfer of terabytes to petabytes of data at the speed of light over virtually any distance (e.g., 1PB in less than a day over a 100Gbps link)
- ~95% bandwidth utilization of terrestrial and satellite links independent of size of the network connection

**Maximum Scalability**

- Predictable low-latency performance over any distance
- Linear performance with the addition of ULT X nodes, links and bandwidth
- Policy-based multi-tenancy support
- Flexibility to deploy on premise, in the cloud, and within mobile units: Point-to-point, Point-to-multipoint, Multipoint-to-multipoint
- Comprehensive policy and security (LDAP credentials, FIPS AES network encryption features)
- Global Namespace support

**Integration with Existing Infrastructure**

- Industry Standard NAS with NFSv3/4 and SMBv3 connectivity
- Expandable tiered storage with embedded drives or external iSCSI/FC/IB attached storage for performance leveling across the network
- Compatible with various storage systems for file storage

- IT, LAN, WAN and transport protocol independence
- Integration with network managers via SNMP

**Ease of Operation**

- Data access through simple network-mapped storage
- Straightforward workload planning
- Light-weight, 2RU, 40 pound chassis for easy transport to remote sites
- AC powered, low power solution

**Command X**

- Web-based, graphical, multi-site management
- Dashboard with multiple widgets for overall status of ULT X including file system utilization, ULT X/ component status, ULT X LAN/WAN status
- Monitoring of system, storage nodes, and file system at each node; Notifications (severity, type, status, source, configurable thresholds); Account management with different levels of access; Logging (syslog, log status)

**Access X / Sync X**

- Comprehensive file management (copying and moving files/folders) and synchronization features
- Flexible scheduling modes (Manual, Scheduled and Continuous) and powerful synchronization modes
- Carefully designed GUI for seamless end user experience



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