

Radical X-1010e with ULT X Software Bundle

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, 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

Vcinity™ has provided innovative, patented technologies to enable the most mission-critical complex data applications around the world. Purpose-built for today's enterprise, Radical X™ in compact PCIe form factor (RAD X-1010e) along with Ultimate X™ (ULT X) software bundle 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 data is on-demand digital media, enterprise Big Data, complex genome or pharmaceutical datasets, financial records, data objects of mission-critical workflows, backed-up data for disaster recovery, or just shared files, RAD X-1010e with ULT X software enables a unified data platform across the MAN/WAN that makes geographically dispersed data available from anywhere – as if it were local. When integrated with a compact and portable server, the combined solution is ideal for fly-away and SWaP transit capabilities for controlled and rugged environments.



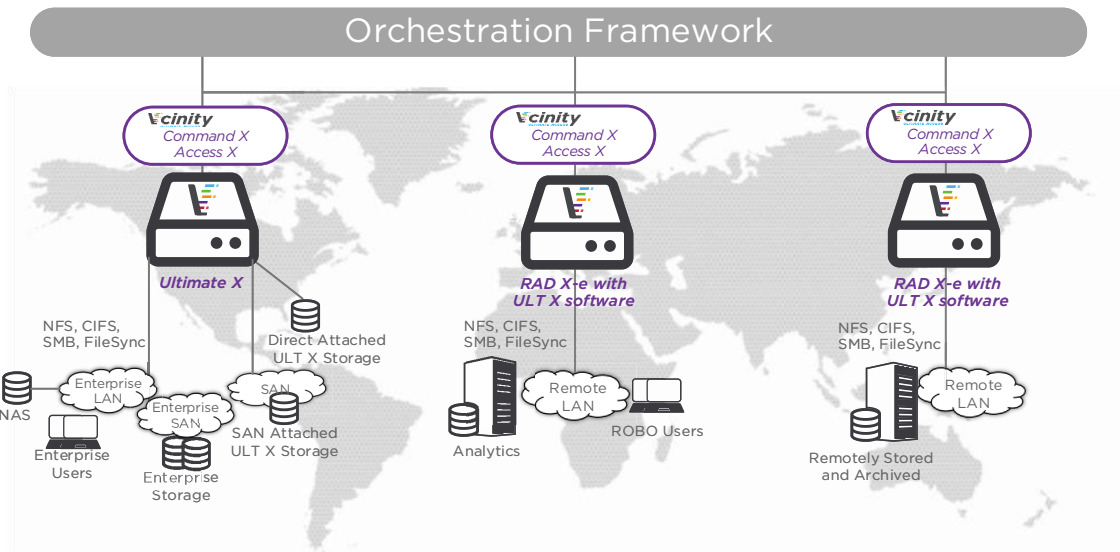
Challenges

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

RAD X-1010e with ULT X software bundle installed on a server 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. The solution 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.

RAD X-1010e integrates Global Fabric Extension technology with an open software architecture to provide highly scalable, high efficiency, low latency connectivity between high performance data center fabrics. Command X™ is an integral part of the solution and provides administrators, operators, and customers a web-based GUI to monitor health/performance and configure multiple nodes across multiple sites within the converged environment. 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., 100 TB in less than a day over a 10Gbps link)
- ~95% bandwidth utilization of terrestrial and satellite links independent of size of the network connection

Ease of Operation

- Data access through simple network-mapped storage
- Straightforward workload planning
- Rack-mount or light-weight, portable form factor for easy transport to remote sites
- AC powered, low power solution

Maximum Scalability

- Predictable low-latency performance over any distance
- Linear performance with the addition of 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)
- Global Namespace support

Integration with Existing Infrastructure

- Industry Standard NAS with NFSv3/4 and SMBv3 connectivity

- Compatible with various storage systems for file storage
- IT, LAN, WAN and transport protocol independence
- Integration with network managers via SNMP

RAD X-1010e

- Compact, pluggable PCI-e card
- Two speed-selectable WAN interfaces with auto-negotiate/auto-detect up to 10Gbps
- RDMA over any layer 2/2.5/3 network with advanced traffic engineering and congestion management of flows across the network
- Open control and management with SNMPv2/3, NETCONF, RESTCONF, HTTPS, and CLI

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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