DELL Technologies

Dell PowerMax vs. Pure FlashArray //X

Dell PowerMax		Pure FlashArray //X
Active/active All controllers working all the time transferring data between devices and hosts.		**Active/standby** A single active controller to the back-end media may create I/O and latency bottlenecks.
Software upgrades – without controller failover <6 seconds to upgrade SW on the entire array,* designed fornon-disruptive upgrades.		**Software upgrades – needs controller failover** SW upgrades require controller failover which may be disruptive to users.
Multi-controller architecture, scale-out and up PowerMax 8000 offers up to 16 active controllers.		**Dual controller architecture, scale-up only** No ability to scale beyond dual controllers.
Broad platform support Supports open system apps, mainframe, block and native file.		**Limited platform support** No mainframe support.
Delivers persistent SCM storage Persistent SCM tier, with intelligent tiering using machine learning intelligence.		**SCM storage as read-only cache** SCM as Read-only cache, supported only in //X70 and //X90 models.
Intelligent array-based storage tiering Automated data placement based on machine learning (ML) on array.		**No storage tiering** No tiering, no I/O performance tuning.
Automated HW-assisted data reduction Data is deduped & compressed, inline, designed to not compromise user performance.		**Adaptive data reduction** At high utilization, it prioritizes the serving of IO reducing resources allocated for data reduction.

*Based on Dell Technologies internal analysis of PowerMax OS software updates on PowerMax arrays, July 2019. Based on publicly available information, September 2019.