

# Catalogic® ECX™: Software-Defined Copy Data Management for existing infrastructure

Manage, Orchestrate, and Analyze Copy Data

## Catalogic ECX Highlights

- Leverage existing infrastructure to automate the creation and use of copy data—snapshots, vaults, clones, and replication
- Enable instant data access with “In-Place” Copy Data Management
- Provide self-service capabilities to IT and App teams for provisioning, and copy data policies
- Maintain centralized catalog for all copy data; local, remote and in the cloud
- Orchestrate the use of copy data for DR, user self-service, Test/Dev, analytics, data protection, Hybrid Cloud and DevOps
- Deliver advanced insights into copy data environments across the enterprise:
  - Protection RPO / RTO compliance reporting
  - Service-level reporting
  - Identify orphaned storage volumes and virtual machines
  - Search and locate files and objects

Copies of production data are at the center of many critical IT and business functions. Disaster recovery, DevOps, Business Analytics and Data Protection all rely on the management and use of this copy data. Enterprise storage systems and virtualization technologies deliver efficient methods for creating copies—typically snapshots or clones. However, these technologies have not delivered an efficient means of managing the copies and orchestrating the use of those copies in support of key IT and business functions. Meanwhile data copy proliferation continues, often as a result of the difficulty of managing the use of the data. This growing two-fold problem—the inability to manage copies coupled with copy data proliferation—requires a comprehensive copy data management (CDM) solution that manages copy data creation, orchestrates instant recoveries for daily use cases, and analyzes data to improve business resiliency and business agility. Catalogic ECX is a software-only CDM solution that directly addresses today’s copy data challenge.



## Manage, Orchestrate and Analyze

### Manage and Streamline Copy Data

ECX is the only copy data management solution that is purpose-built to leverage the data copy services of customers' existing infrastructure. ECX is delivered as a virtual appliance that can be deployed in 15 minutes on existing infrastructure, and runs without agents to catalog the existing copy data environment and maintain the central master catalog for all copies created after its deployment. Once deployed, ECX creates an advanced copy data management environment that allows the IT team to significantly improve its ability to deliver key functions, while dramatically reducing the cost of infrastructure and ongoing operations.

ECX delivers the orchestration and automation of tasks that are typically done today with complex and 'brittle' scripting, and/or rely on a hodgepodge of existing tools. In contrast, with ECX, formerly complex workflows in the virtualization and storage environments can now be easily configured and tested through a simple 'point-and-click' interface.

Catalogic ECX streamlines the copy data creation process for enterprise storage platforms and virtual environments through an actionable catalog and an powerful policy workflow engine. Administrators can create clones, snapshots, vaults and replication policies and can define highly customizable retention schemes and schedules. Service level reports and compliance reports enable simplified management of these workflows helping the IT team to ensure that enterprise-wide SLAs are met.

By eliminating scripting, multiple tools and separate consoles, ECX unifies the workflows for creating and using copy data. This allows the IT team to streamline the overall number of data copies within the environment, and ensure that all copies are cataloged, monitored, reported against, and leveraged.

### Orchestrate and Leverage Copy Data

ECX allows IT to leverage the data copies created in the storage system and hypervisor layer to reduce costs and increase productivity. Administrators can bring up instant clones of their copy data for multiple use cases such as DR, forensics, DevOps, analytics, and next generation data protection. Leveraging fewer copies for multiple use cases is paramount to controlling copy data sprawl and improving the services that IT delivers which rely on copy data.

Additionally, ECX's ability to leverage data copies quickly and efficiently helps IT organizations to better capture the value of new platforms that typically make use of copy data-- Flash storage and the Hybrid Cloud.

### Templates and Self-Service

ECX further simplifies copy data management by allowing IT to pre-define storage workflows templates, that can be applied to a given application or set of applications. This simplifies the policy creation process, and ensures consistency of policies across the entire application portfolio. Combining Role Based Access Control (RBAC) and workflow templates enables IT to provide self-service to its business users and application teams, while maintaining control of the management of copy data across the organization. This enables faster delivery of solutions and accelerates time-to-market.

### Analyze and gain Insight into your Copy Data

ECX offers unique insight into existing copy data environments. Through a powerful search and analytics engine, ECX enables IT to see all assets associated with the storage systems and virtualized environments (volumes, LUNs, aggregates, clones, and Files) ECX provides over 30 pre-defined reports that include file analytics, protection compliance, storage utilization

and more. These reports help IT to better manage their environment and ensure that SLAs are being met.

## In-Place Copy Data Management and Off-Host Copy Data Management

ECX is built on a software-only architecture that leverages existing storage and virtual infrastructure technologies. This allows for flexibility in deployment approaches:

**In Place CDM:** ECX allows the IT team to manage copy data within the existing production storage environment, leveraging the APIs of both VMware and the storage systems to manage the creation and orchestrate the use of data copies (snapshots, vaults, mirrors, etc). This approach requires no new hardware, thereby allowing for simplified deployments and superior return on investment (ROI) and return on assets (ROA). This approach is also the most scalable. ECX's architecture allows for massive scale out to address large enterprise environments.

**Off-Host CDM:** ECX offers Copy Data Services for VMware delivering the full value of ECX for all VMware environments. With this approach ECX uses VMware VADP to capture application consistent images of the virtual machines, copying them from the production storage environment to an ECX-supported storage system, creating an off-host CDM environment.

VMware changed block tracking (CBT) technology keeps the copies up to date, and the full power of ECX allows the IT team to manage, orchestrate and analyze the VM copies in support of the IT and business functions that rely on them.

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