

A Major EU Service Provider Migrates from Scality RING to XaasIO SDS

More than 2 billion objects migrated.
All ACLs and the storage schema preserved.

A large-scale object-storage transition to the XaasIO SDS Platform, completed with a near-zero-downtime switchover for a major service provider in the European Union.



CASE STUDY AT A GLANCE

Object-scale migration with access continuity and a near-zero-downtime switchover.

EXECUTIVE SUMMARY

A major service provider in the European Union migrated more than two billion objects from Scality RING to the XaasIO SDS Platform. The transition preserved all access control lists (ACLs) and the existing storage schema and completed with a near-zero-downtime switchover.

Beyond the payloads, the destination had to retain the access controls and logical organization on which the migrated services depended.

>2 billion	All ACLs	Preserved	Near-zero
OBJECTS MIGRATED	PRESERVED	STORAGE SCHEMA	SWITCHOVER DOWNTIME
Scalitiv RING to XaasIO	Existing access controls retained.	Logical organization retained.	Service interruption

CORE OPENSTACK CAPABILITIES

Move the object estate

Transition more than two billion objects to the replacement platform.

Preserve access

Retain all ACLs for the migrated storage estate.

Preserve the schema

Keep the existing logical storage organization.

Maintain service continuity

Complete the switchover with near-zero downtime.

PROJECT PROFILE

Customer

Major EU service provider; name withheld.

Source platform

Scality RING object storage.

Destination platform

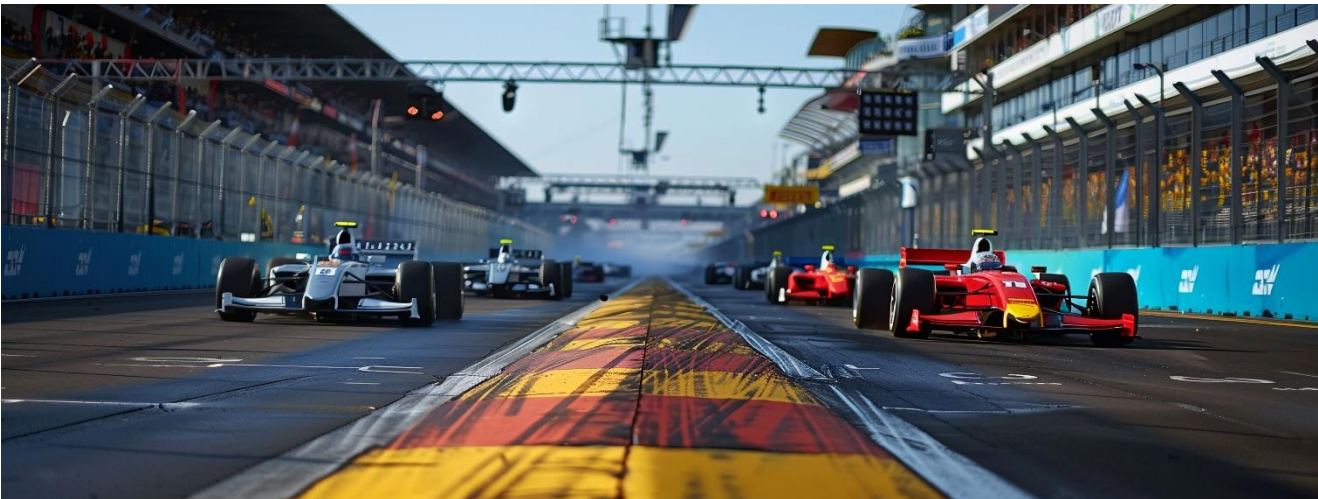
XaasIO Software-Defined Storage (SDS) Platform.

Scope

Object migration, ACL preservation, storage-schema preservation and service switchover.

THE OUTCOME

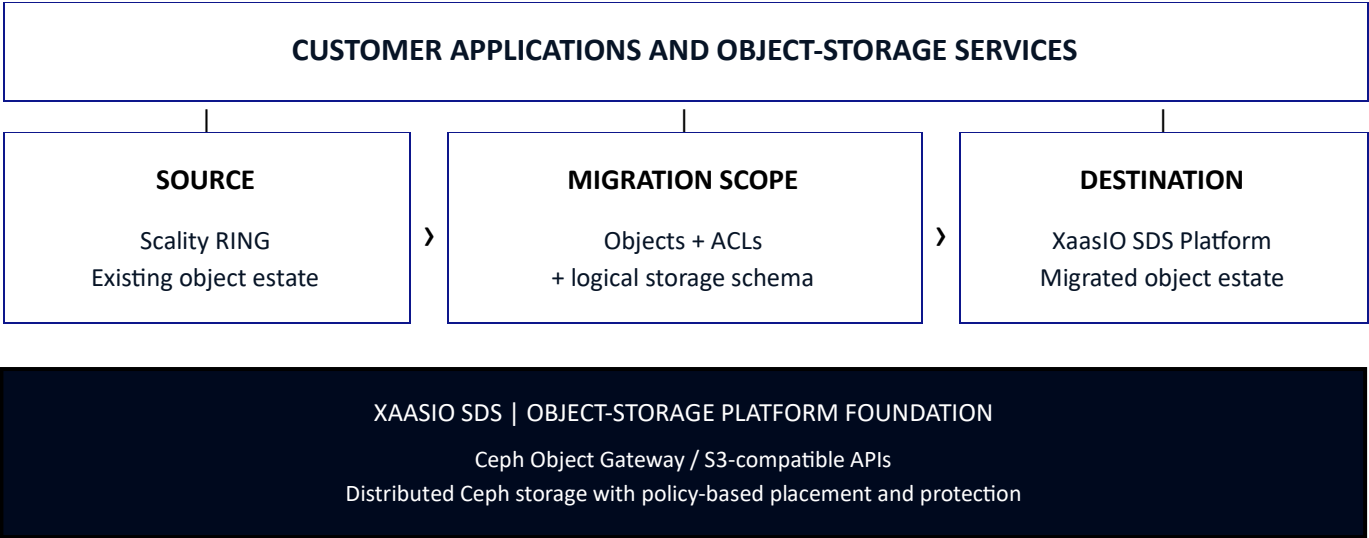
More than two billion objects moved to XaasIO SDS, with all ACLs and the storage schema preserved and near-zero downtime at switchover.



PRESERVE THE STORAGE CONTRACT

The platform changes; the migrated estate retains its access controls and logical schema.

Object migration has two preservation requirements alongside the data itself: who may access each resource and how applications identify and organize the stored objects. This project retained both while changing the storage destination from Scalify RING to XaasIO SDS.



PRESERVATION AT THE APPLICATION BOUNDARY

Access Control Lists

All ACLs were preserved for the migrated estate. The important continuity is the access relationship represented by those ACLs, rather than an assumption that different platforms share the same internal identity database.

For comparable migrations, validate both authorized access and denied access after identity mapping.

Storage Schema

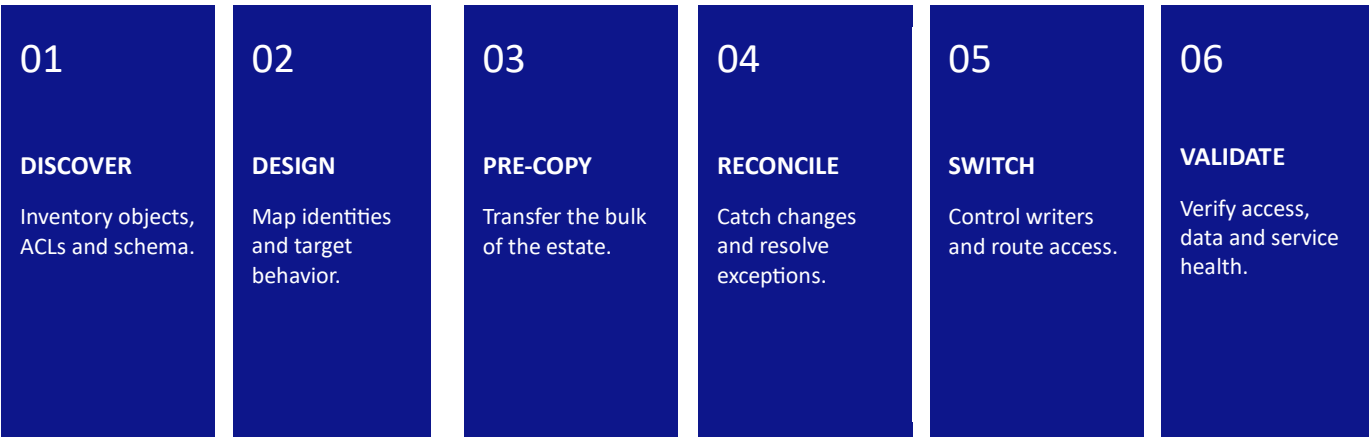
The existing storage schema was preserved. Here, schema means the logical storage organization exposed to consuming applications, not the source platform’s proprietary on-disk format.

An object-store migration must define the required namespace, object naming and metadata conventions explicitly.

A CONTROLLED ROUTE TO NEAR-ZERO DOWNTIME

Reference migration workflow. The project’s specific tools, phase durations and execution sequence are not disclosed.

SEPARATE THE BULK TRANSFER FROM THE FINAL SWITCHOVER



01 / DISCOVER THE FULL MIGRATION SCOPE

Inventory the object estate, access owners and logical schema. Identify live writes, deletes, versioning and API behaviors that affect reconciliation.

03 / PRE-COPY WITH CHECKPOINTS

Use restartable transfers and explicit exception tracking. Separate bulk data movement from the short, controlled activity required at final switchover.

05 / CONTROL THE WRITE TRANSITION

Establish which platform accepts writes at each stage. Complete the required final synchronization, apply the agreed write fence and switch client access under change control.

02 / DEFINE THE PRESERVATION MAPPING

Specify how object naming, required metadata and ACL identities map to the target. Test effective permissions rather than assuming that copied ACL text is sufficient.

04 / RECONCILE LIVE CHANGES

Account for new objects, overwrites, deletes and ACL changes during migration. Resolve failed transfers and verify the agreed completeness and consistency criteria.

06 / VALIDATE AND STABILIZE

Check object access, required metadata, permissions and service behavior. Monitor the destination, close exceptions and obtain operational acceptance before retiring the source.

PROTECT THE ROLLBACK BOUNDARY

A rollback design must account for writes already accepted by the destination. Returning clients to the source without reconciling those writes can reintroduce stale state. Set the return conditions before switchover.

SOLUTION AND BUSINESS OUTCOMES

A platform replacement measured by migration scale, preservation and service continuity.

SCALITY RING TO XAASIO SDS | REPORTED PROJECT RESULTS

DIMENSION	PROJECT RESULT	OPERATIONAL SIGNIFICANCE
Object estate	More than 2 billion objects migrated	The migrated object estate moved from Scality RING to XaasIO SDS.
Access controls	All ACLs preserved	The access-control relationships for the migrated estate were retained.
Storage schema	Existing schema preserved	The logical organization of the migrated storage estate was retained.
Service switchover	Near-zero downtime	The destination transition was completed with minimal service interruption.

WHY THE PRESERVATION OUTCOME MATTERS

ACCESS CONTINUITY

Moving object payloads alone does not preserve who may use them. Retaining ACLs keeps access controls part of the migration outcome rather than leaving permissions to be rebuilt afterward.

In this case, all ACLs were preserved alongside the migrated estate.

LOGICAL CONTINUITY

Preserving the storage schema keeps the existing logical organization part of the destination design. It avoids treating a platform change as permission to restructure application-visible storage.

The project preserved the schema while changing the underlying platform.

THE RESULT

The EU service provider migrated more than two billion objects from Scality RING to XaasIO SDS, preserving all ACLs and the storage schema while achieving a near-zero-downtime switchover.

CHANGE THE PLATFORM - PRESERVE THE STORAGE CONTRACT

Object scale. Access continuity. Near-zero-downtime switchover.

This case brings together three outcomes: more than two billion objects migrated, all ACLs and the existing storage schema preserved, and a near-zero-downtime switchover. XaasIO SDS became the destination for the migrated estate without sacrificing those preservation requirements.

SCALE

More than two billion objects migrated from Scality RING.

PRESERVE

All ACLs and the existing storage schema retained.

CONTINUE

Near-zero downtime during the service switchover.

XAASIO SOFTWARE DEFINED STORAGE

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