

Hyperscale Compliance

Mask Large-Scale Datasets in Hours, Not Weeks

Protecting sensitive data at scale can bottleneck analytics, AI, and software development. Enterprise security teams are laser-focused on protecting production data in customer-facing applications, but non-production environments also present a security risk. As data volume grows in production systems, sensitive data like PII/PHI multiplies in large-scale data sources in development, analytics, and AI. These environments are less governed and secured than production systems, causing regulatory and breach vulnerabilities.

Using native, manual, or transaction-intensive approaches to mask large-scale, complex enterprise data systems takes weeks. Delays in software and AI development and business analysis reduce revenue potential, competitive edge, and customer satisfaction. But compliance exceptions are not an option due to risks of data theft, penalties, and reputational damage.

How Hyperscale Compliance Helps Meet SLAs

Hyperscale Compliance from Perforce Delphix provides masking at unparalleled speeds, starting at 2 billion records per hour, to meet business-critical SLAs for DevOps, analytics, and AI initiatives.

Optimized for Large Data Sets

Hyperscale Compliance is designed for masking large sets of data used in software development, analytics, or AI initiatives that demand tight SLAs. It rapidly delivers compliant data that protects PII and other sensitive information to meet corporate compliance and security needs in a timeframe the business requires while preserving business value and referential integrity across databases. A large-scale masking job that would have taken weeks or months to complete takes only hours with Hyperscale Compliance.

Mask Faster At Scale for CI/CD and Analytics

Traditional approaches mask data using transactional read-write operations, which are not optimized for large-scale data sources and therefore bottleneck CI/CD and analytics. Hyperscale Compliance substantially reduces the time to mask large databases using an automated, parallel processing masking workflow. It splits large amounts of data into digestible file chunks that are then masked in parallel across multiple Delphix masking engines, re-assembled, and bulk-loaded as compliant data into the target system.



Hyperscale Compliance Benefits

Ensure Compliance for Development, Analytics, & AI

Discover and irreversibly mask sensitive data for business-critical initiatives.

Meet SLAs for Large-Scale Data Compliance

Protect data sources of over 10TB in hours, not weeks, when waiting is not an option.

Deliver Quality, Compliant Data

Deliver realistic, compliant data, preserving data utility and referential integrity.

Hyperscale Compliance Key Features

Sensitive Data Discovery: Automatically and consistently discover sensitive information — such as names, email addresses, and credit card numbers — across data sources.

Automated Masking: Irreversibly mask data values with realistic data that remains fully functional to develop high-quality code and accurate analytics and AI models.

Parallel Processing: Automate and horizontally scale and load-balance sensitive data discovery and masking workflows for sources larger than 10TB, at speeds starting at 2 billion rows/hour.

Referential Integrity: Produce realistic values that stay consistent within and across sources.

Algorithms/Frameworks: Use preconfigured and customizable algorithms for data types and regulatory requirements.

Support for Large and Complicated Data Sets: Enable masking of large data sets and data warehouses as well as specialized structures that require intense compute to achieve throughput.

Support for High Volume Cloud Stores: Workflows can utilize on-premises storage or public cloud object stores (like Amazon S3, Azure Blob or Google Cloud Platform cloud storage) for intermediary storage.

Deploy On-Premises or in the Cloud: Hyperscale Compliance offers flexibility to run on-premises or ephemerally in the cloud.

Customer Example

A major healthcare provider needed to address a compliance board mandate to protect 100 terabytes of Oracle data, containing HIPAA information, that was being used in development. The data needed to be masked within 24 hours in order to deliver it to developers in a timely manner. Hyperscale Compliance allowed them to:

- Mask 100TB of data in ~17 hours.
- Deliver compliant, realistic test data.
- Maintain trust with clients while continuing to innovate.

They were able to quickly meet compliance while enabling agility at scale for mission-critical applications.

Get Started with Hyperscale Compliance

Have questions about Hyperscale Compliance or AI and analytics solutions from Perforce Delphix? Our experts are here to help you speed up compliance, enhance data security, and ensure high-quality data for downstream teams.

Talk to an Expert ▶

perforce.com/products/delphix/contact-us/ai