Delphix

Wrangling Data Sprawl How to shrink your data protection footprint

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Enterprise Data Sprawl

What and Why

- Uncontrolled / unintended proliferation of data across systems repositories and locations
- Uncontrolled = risk

 Risk of Breach / Leakage
 Compliance Violations
 Insider Misuse
 Reputational Damage



Enterprise Data Sprawl

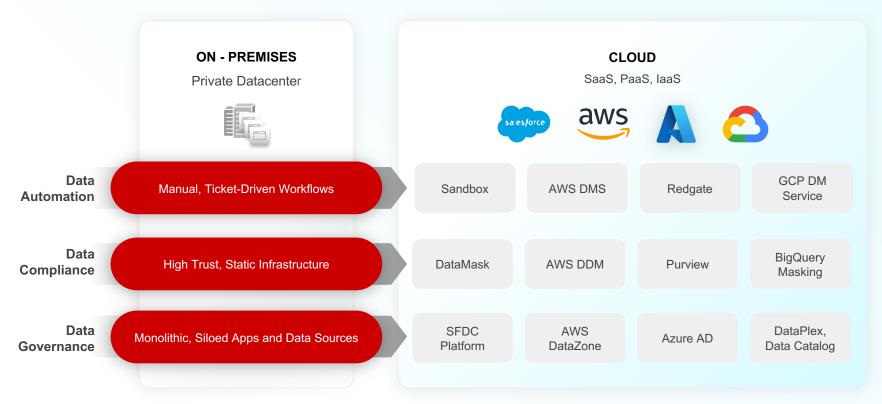
It's not getting any easier

- Data Growth
- Shadow IT
- Data Silos
- Data Democratization
- Cloud Adoption
- Constantly Increasing Regulations
- AI



MULTICLOUD INCREASES DATA COMPLEXITY

Clouds offer proprietary point solutions with differing functionality, APIs—lack of consistent controls



Ever Increasing Regulations

Data	Gramm– Leach–Bliley Act (GLBA)	General Data ProtGection Regulation (GDPR)	California Consumer Privacy Act (CCPA)	Health Insurance Portability & Accountability Act (HIPAA)	Brazilian General Data Protection Law (LGPD)
Full Name	х	Direct	Direct	х	Direct
First Name	х	Indirect	Indirect	х	Indirect
Middle Name	х	Indirect	Indirect	х	Indirect
Last Name	х	Indirect	Indirect	х	Indirect
Email Address	х	Direct	Direct	х	Direct
Gender	х	Indirect	Indirect	х	Indirect
Date of Birth	х	Indirect	Indirect	х	Indirect
Age	х	Indirect	Indirect	х	Indirect



All content subject to change.

Data Governance Objectives

- Data Quality Assurance
- Data Lifecycle Management
- Data Stewardship and Ownership
- Data Process Standardization and Optimization
- Data Security and Privacy
- Regulatory Compliance



Infosec Leadership Needed in Data Governance Initiatives

Data Democratization

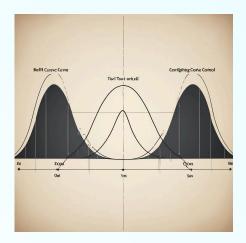
VS

Data Control

Compliance / Security

VS

• Agility / Innovation

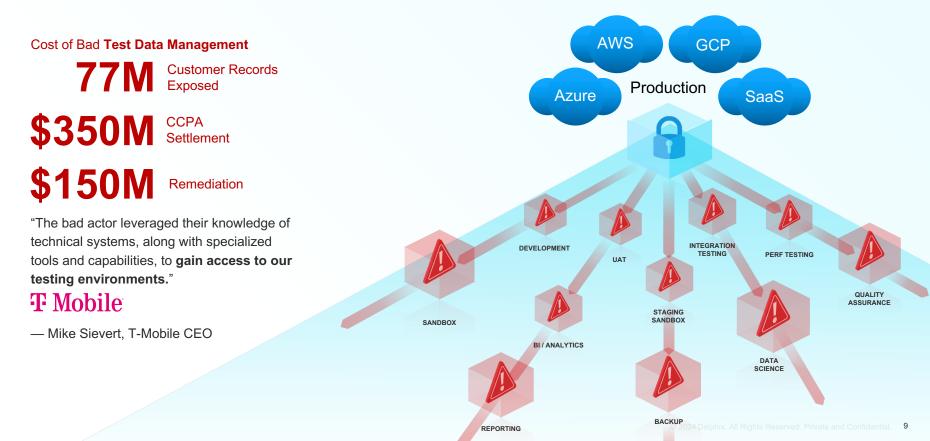


Data Security at Risk: The Non-Prod Back Door

- Lack of Security Controls in Dev Environments
- Use of Production Data
- Vulnerabilities in Dev Tools
- Misconfiguration and Weak Security Practices
- Data Retention and Disposal Risks



DATA SECURITY, COMPLIANCE RISK

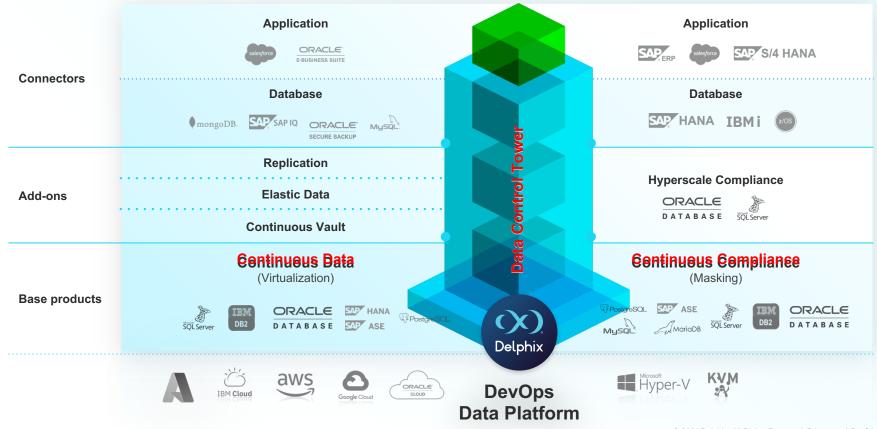


Data Compliance Needs to Extend to Non-Prod



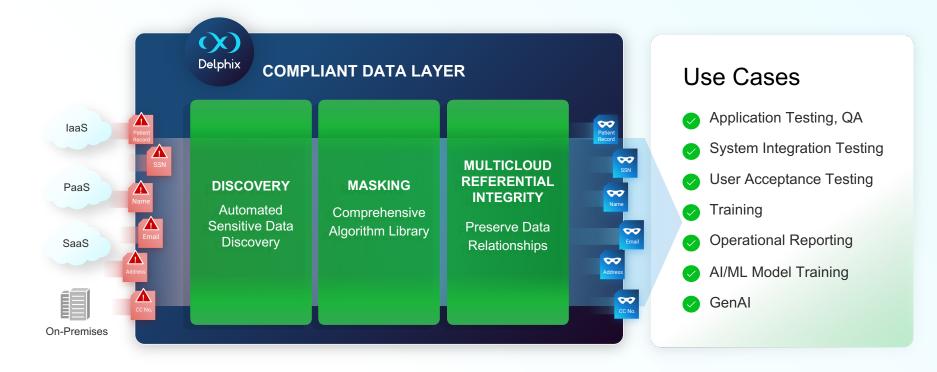
- Eliminate Sensitive Data from Non-Prod Environments
- Improve the Quality of Sanitized Data
- Facilitate Rapid Refreshing of Schemas and Data to match Production
- Deploy Protections at Enterprise Scale and Speed

Introducing The Delphix DevOps Data Platform



ELIMINATING RISK FROM DATA INNOVATION

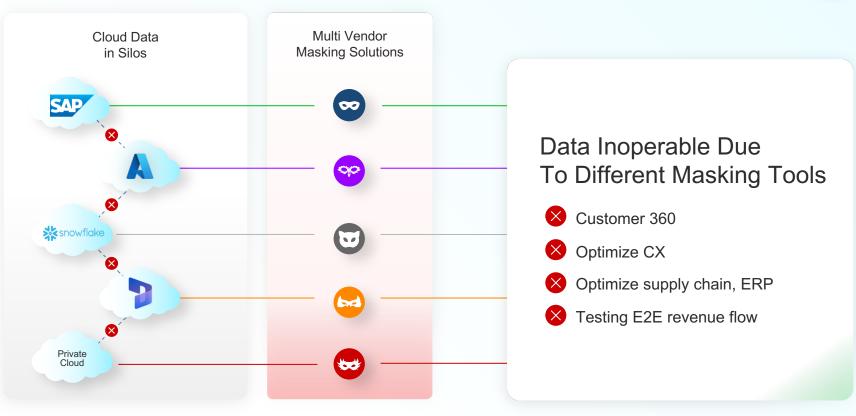




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COMPLIANCE IN SILOS BLOCKS INNOVATION





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How Does Delphix Work?

integration / continuous testing

Continuous Compliance

CHEF 🚯 git A **e** Jenkins Terraform servicenow Integrations Automated sensitive data discovery, masking with referential integrity INTEGRATION ORIGINAL MASKED DEV QA PROD TESTING Customers Customers APP last_name last_name cust ic cust id 1 简 APP APP APP 150 150 Lee Yang DB Server 151 151 Rogers Williams DB Server DB Server DB Server CRM 60 152 Johnson 152 Haas Products Discover and transform Products prod_id activation code sensitive data values prod_id activation_code Ø A12 Preserve referential integrity Alpha A12 Automated testing, real data · Use real, masked data for tests Beta B23 Yankee PLM * * * API-driven data operations D63 Delta D63 Zulu (X) Delphix Non-disruptive, continuous change data · Provision / refresh / tear down Orders Orders Profile / mask 9am 10am 11a 12pm · Bookmark / branch / share activation code 俞 prod_id quant last_name activation_code prod id quant last_name · Environment cleanup X23 5 Yang Helo 5 Lee Gamma Þ Immutable data time machine 15 ERP A42 15 Jones Charlie D63 Zulu D63 Dach Delta Lin "GOLD COPY" **On-Prem and/or Cloud. APIs to AUTOMATE** Delphix Automates Data in DevOps Pipelines Centrally Automate Ephemeral Data at CI/CD Scale SRE Code CI CD _ --22 **DEV Environment** Commit Build Unit Integration Deploy Monitor. code environment tests tests to prod recover Provision Refresh Test Environment **Delphix Integrations** Delphix Integrations Delphix Integrations Bookmark Terraform Jenkins 3 Progress Chef Ødvnatrace 🔘 New Relic. servicenow Rewind **d**ocker O APPDYNAMICS Teardown Jira ANSIBLE puppet Share QA Environment Branch (X) Delphix (X) Delphix Integrate (\mathbf{X}) Central Management Deliver test data for continuous Deliver data when issues

occur to recover rapidly

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(X) Delphix

How It Works: Accelerate App Releases

FAST, SCALABLE, COMPREHENSIVE CONTINUOUS COMPLIANCE

cust_id last name CRM 150 Lee 151 Rogers 152 Johnson Products prod id activation code A12 Alpha '**→** PLM B23 Beta D63 Delta

PROD



- Consistent, automated discovery
- Replace sensitive data with synthetic data
- Comprehensive library of algorithms
- Preserve data relationships
- Fast, scalable
- Full, realistic data for high quality testing

prod id quant last_name activation_code '**→** ERP X23 5 Lee Gamma A42 15 Jones Charlie D63 11 Dach Delta

NON-PROD

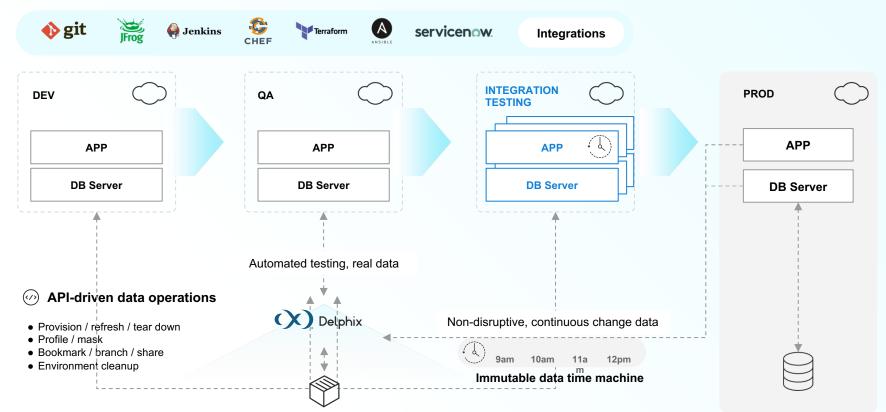
Contacts				
cust_id	last_name			
150	Yang			
151	Williams			
152	Haas			

Products					
prod_id	activation_code				
A12	Xray				
B23	Yankee				
D63	Zulu				

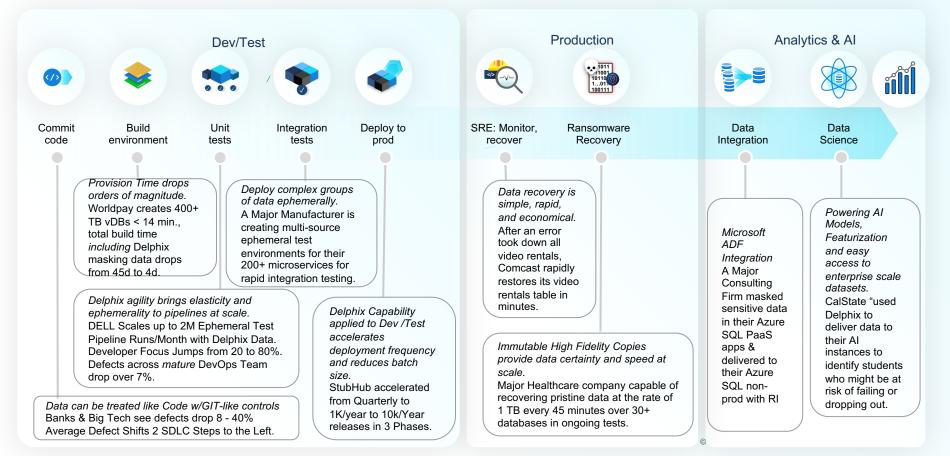
Orders							
prod_id	quant	last_name	activation_code				
X23	5	Yang	Helo				
A42	15	Williams	Echo				
D63	11	Lin	Zulu				



How It Works: Accelerate App Releases



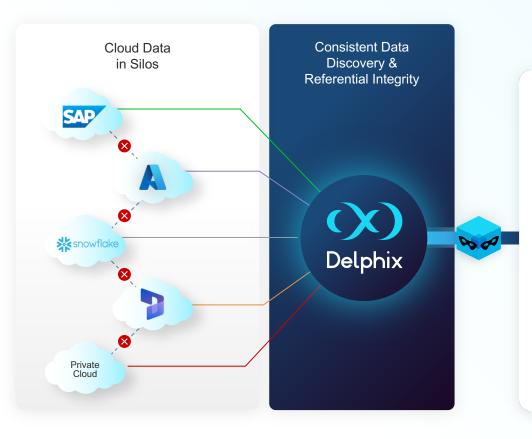
Delphix Automates Data in Devops Pipelines





MULTICLOUD REFERENTIAL INTEGRITY

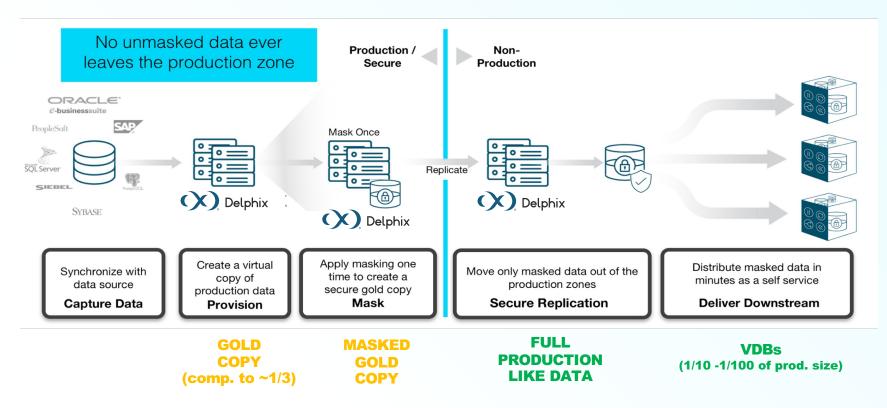
DATA COMPLIANCE



Enable Unified Development, Analytics

- Customer 360
- Optimize CX
- Optimize supply chain, ERP
- Testing E2E revenue flow

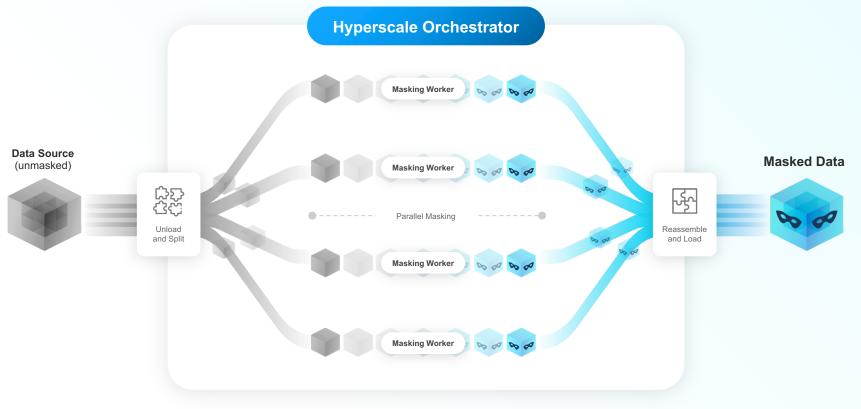
Delphix Data Flow – Secure Data Use Case



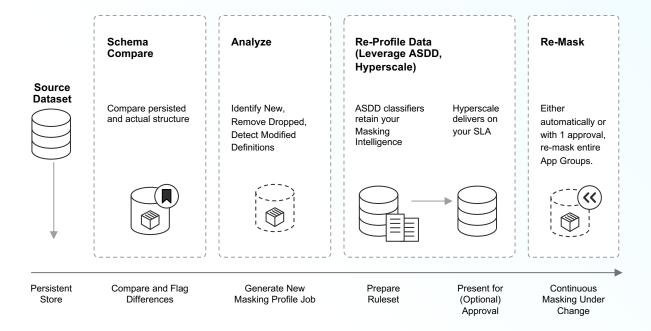
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Hyperscale Compliance: How It Works

10X Masking Speed for Massive Data Volumes: Datasets Over 10TB or 1B Rows



Masking Automation: Large Healthcare Software Provider





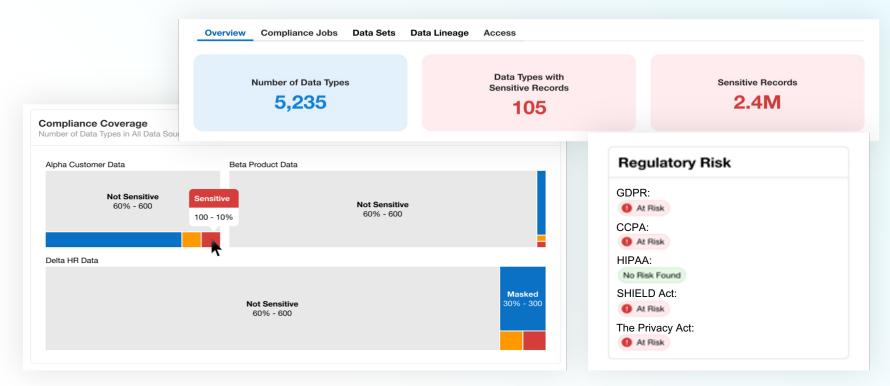
Delphix Capabilities

- In use at scale for a large Healthcare software provider.
- Leverages most advanced features of Delphix: ASDD, Hyperscale
- Could be easily integrated with your own Catalog (DB Maestro, Liquibase, Collibra)
- Automated End to End.

Key Benefits

- Maintains High Protection AND velocity for Developers
- Can be used on a single app or a set of apps.

CISO Governance



All content subject to change.

UNLOCK REAL BUSINESS VALUE



- Devs access full data sets, deliver higher quality releases
- Data masking time reduced from days to just 30 minutes
- 2X faster release cycles and faster time-to-market



- Accelerated Agile and DevOps development pipelines
- 5 months to GDPR compliance for Dev/Test environments
- 90% reduction in infrastructure footprint for test data



- Cloud portable test data for 42+ virtual mainframe instances
- Refresh, mask ML training data monthly (vs. once per year)
- Achieved HIPAA compliance for dev/test environments







"Data is the life blood of our business, and Delphix has been instrumental in empowering us to use our data faster and more productively."

> Katherine Wetmur International CIO Morgan Stanley

PAYS FOR ITSELF WITH HARD SAVINGS

Data API Users: App Dev & DevOps

Faster, Quality Releases

- 40% increase in development productivity
- 70% fewer errors in production applications

Risk Management: Compliance & Security

Reduction in Business Risk

- 100% of non-production data masked
- Ransomware protection and recovery

Delphix Operators: IT Operations

Better Resiliency, Lower Costs

- 38% reduction in MTTR
- 72% reduction in infrastructure cost

IDC ANALYZE THE FUTURE

560% Average 5 Year ROI

\$15M Average Savings

DATA TRANSFORMATION TIMELINE

