

# Database Security & Compliance Transformation for a Regulated Money Exchange Enterprise

IBM Guardium-based database activity monitoring, PCI reporting, vulnerability management and managed support.



## Executive Summary

COMnet helped a regulated money exchange enterprise strengthen database security and compliance by deploying IBM Guardium agents for 50 databases, building DC/DR collectors and central management, enabling PCI reporting, vulnerability scans and S1/S2/S3 managed support.



**50**

Databases protected



**3**

Database platforms



**DC + DR**

Guardium deployment



**PCI**

Compliance reporting



**24x7**

S2/S3 remote support

## IMPACT



### Business and Compliance Impact

- Established database activity monitoring across Oracle, PostgreSQL and Microsoft SQL platforms in a regulated money exchange environment.
- Deployed IBM Guardium agents for 50 databases with Central Manager and Collector architecture across DC and DR.
- Improved PCI-aligned compliance evidence through controlled policies, activity trails and reporting workflows.



### Security Operations Impact

- Enabled vulnerability manageability for databases through scheduled scans, findings visibility and remediation tracking.
- Created a managed support model with 24x7 remote support for S2/S3 incidents and onsite escalation for S1 severity.

## MAJOR ISSUES



### Visibility Across Databases

- Database activity was business-critical but required stronger visibility across heterogeneous database platforms.



### PCI Reporting Pressure

- Compliance and reporting needed repeatable, evidence-ready controls aligned to PCI obligations and audit cycles.



### Database Vulnerability Risk

- Vulnerability manageability for databases required structured scanning, prioritization and remediation governance.



### DC/DR Resiliency Need

- The environment needed DC/DR deployment resiliency with centralized administration and consistent security policy enforcement.



### Severity-Based Support

- Severity-based support expectations required accountable remote operations and onsite intervention for critical incidents.

**HIGHLIGHTS**

COMnet converted the original business requirement into a controlled database security program covering agent deployment, centralized Guardium administration, compliance reporting, vulnerability scanning and operational support.

**Solution Delivered**

- IBM Guardium agent installation for 50 databases covering Oracle, PostgreSQL and Microsoft SQL workloads.
- Deployment of Central Manager and Collector components in DC and DR setup for resilient administration and event collection.

**Controls Enabled**

- Data security policies configured as per industry standards to monitor privileged access, sensitive activity and policy exceptions.
- Database vulnerability scans executed to identify risk exposure and improve remediation visibility.

**Support and Assurance**

- Compliance reporting enabled for PCI-driven control evidence and database security governance.
- 24x7 remote support for S2/S3 severity incidents and onsite engineer visits for S1 severity events.

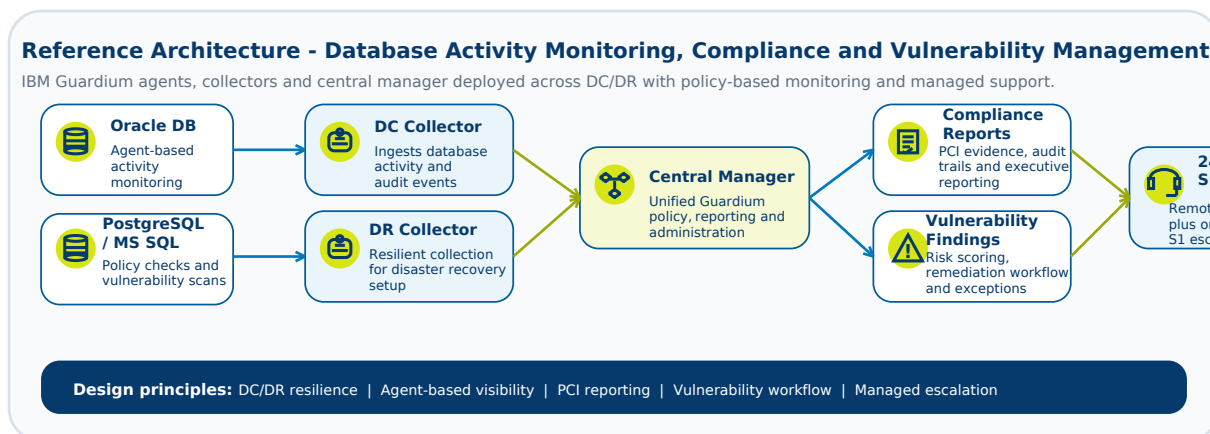
**Use Cases Addressed**

- Database Activity Monitoring (DAM) for regulated financial data stores.
- PCI compliance reporting, audit support and policy evidence generation.
- Database vulnerability management across Oracle, PostgreSQL and Microsoft SQL.
- Centralized Guardium administration across DC/DR security architecture.
- Severity-based managed support model for database security operations.

**Core Technical Outcomes**

- Controlled monitoring for privileged and sensitive database activity.
- Centralized policy and reporting using Guardium Central Manager.
- Vulnerability management inputs for database remediation governance.
- Operational continuity through remote and onsite severity-based support.

**ARCHITECTURE AND DEPLOYMENT SCOPE**



Scope Area	Deployment / Technical Scope	Business or Security Outcome
<b>Database Estate</b>	Oracle, PostgreSQL and Microsoft SQL databases monitored through Guardium agents across 50 databases.	Cross-platform visibility for regulated transaction and customer data stores.
<b>Collection Layer</b>	Collectors deployed in DC and DR setup for database activity ingestion and monitoring continuity.	Resilient collection and reduced single-point operational dependency.
<b>Central Management</b>	IBM Guardium Central Manager used for policy administration, reporting and enterprise oversight.	Consistent policy enforcement and centralized governance.
<b>Policy and Reporting</b>	Data security policies configured per industry standards with PCI-aligned reporting outputs.	Audit-ready evidence, exception tracking and improved compliance posture.
<b>Vulnerability Management</b>	Database vulnerability scans executed and findings routed into remediation workflow.	Improved risk visibility, prioritization and remediation accountability.
<b>Managed Support</b>	24x7 remote support for S2/S3 and onsite engineer visits for S1 severity events.	Faster escalation, service continuity and support predictability.

**KEY STRATEGIES**

The engagement should be positioned as a database security and compliance modernization program, not only a tool deployment. The strategies below make the model suitable for CEOs, CISOs, audit leaders and cybersecurity experts evaluating measurable risk reduction.

<p><b>Policy-First DAM</b></p> <ul style="list-style-type: none"> <li>Design activity monitoring policies around privileged users, sensitive objects, anomalous behavior and business-critical database activity.</li> </ul>	<p><b>PCI Evidence Readiness</b></p> <ul style="list-style-type: none"> <li>Map controls to audit evidence requirements so reporting can be produced consistently during audit and review cycles.</li> </ul>	<p><b>DC/DR Resilience</b></p> <ul style="list-style-type: none"> <li>Place collectors and central management in a resilient deployment model to sustain monitoring and administration during service events.</li> </ul>	<p><b>Risk-Based Vulnerability Workflow</b></p> <ul style="list-style-type: none"> <li>Prioritize database vulnerabilities by criticality, exposure, business process dependency and compensating controls.</li> </ul>
<p><b>Agent Rollout Governance</b></p> <ul style="list-style-type: none"> <li>Plan installation windows, compatibility checks, validation steps and rollback procedures to reduce impact on production databases.</li> </ul>	<p><b>Severity-Based Operations</b></p> <ul style="list-style-type: none"> <li>Use S1/S2/S3 response model with 24x7 remote support and onsite intervention for critical incident handling.</li> </ul>	<p><b>Centralized Reporting</b></p> <ul style="list-style-type: none"> <li>Standardize dashboards, reports, exception workflows and stakeholder cadence for IT, audit and security leadership.</li> </ul>	<p><b>Continuous Optimization</b></p> <ul style="list-style-type: none"> <li>Tune policies, reduce noise, refine scan schedules and update controls as the threat, audit and database landscape changes.</li> </ul>

**GOVERNANCE AND OPERATING MODEL**

Governance Area	Operating Criteria
<b>Control Ownership</b>	Define owners for database policies, reports, scan cadence, exceptions and remediation actions.
<b>SLA / Severity Model</b>	Maintain S1 onsite escalation with 24x7 remote support for S2/S3 events and transparent escalation paths.
<b>Audit Cadence</b>	Run periodic PCI evidence reports, review exceptions and maintain traceability for audit cycles.
<b>Optimization Loop</b>	Tune DAM policies, scan schedules, thresholds and alert volumes to reduce noise and improve detection value.

Technical stack: IBM Guardium Central Manager and Collectors, database agents, Oracle, PostgreSQL, Microsoft SQL, PCI-aligned reports, vulnerability scans, S1/S2/S3 support workflow.

**Executive Takeaway**  
 COMnet delivered a database security control layer that improved visibility, compliance evidence, vulnerability manageability and operational support for a regulated money exchange enterprise. The model combines IBM Guardium architecture, PCI-aligned governance and managed severity-based operations.