

CYBERSECURITY INNOVATIONS POWERED BY AI



Database Schema Management (DBSM)

AI-driven database schema management with real-time visibility, controlled changes, and compliance assurance.

THE CHALLENGE

Top 5 Industry Challenges (if DBSM is NOT implemented)

- **Uncontrolled Database Changes → Production Failures** - Without structured schema control, ad-hoc changes directly hit production, leading to outages and broken applications.
- **Lack of Visibility Across Environments** - No centralized tracking of Dev → Test → Prod schema evolution creates inconsistencies and hidden risks.
- **Compliance & Audit Gaps** - Manual or undocumented schema changes make it impossible to prove compliance (RBI, SEBI, DPDP).
- **Schema Drift & Configuration Inconsistency** - Production environments deviate from baseline due to unauthorized or missed changes.
- **High Risk of Deployment Failures & Rollbacks** - No version control or rollback strategy leads to failed releases and prolonged recovery times.

100%

Change Traceability

90%

Improvement in Audit Readiness

80%

Reduction in Deployment Failures

KEY BENEFITS

- ✓ **Controlled & Secure Schema Changes**
Policy-driven deployments ensure only validated changes reach production.
- ✓ **Real-Time Drift Detection & Prevention**
Continuous comparison of live vs baseline schemas detects unauthorized changes early.
- ✓ **Faster & Reliable Releases (DevOps Alignment)**
Automated pipelines and versioning accelerate release cycles.
- ✓ **Audit-Ready Compliance & Traceability**
Every change is logged, versioned, and traceable end-to-end.
- ✓ **Reduced Downtime with Rollback Readiness**
Automated rollback mechanisms ensure quick recovery from failed deployments.



KEY CAPABILITIES

One Unified Agent

01 Centralized Governance & Visibility

- › Unified dashboard for all database projects
- › Real-time tracking of:
 - Active / drifted / rollback-ready environments
 - Compliance status
- › Role-based access control (RBAC)

02 Multi-Database & Environment Management

- › Supports:
 - MySQL, PostgreSQL, Oracle, MS SQL
- › Environment mapping:
 - Dev, SIT, UAT, Pre-Prod, Prod
- › Instance-to-environment linkage
- › Multi-instance, multi-project scalability

03 Schema Version Control & Change Packaging

- › Versioned schema change packages
- › Multi-format support:
 - SQL, XML, YAML, JSON
- › Inline scripting & file uploads
- › Dependency-aware execution ordering

04 Drift Detection & Synchronization

- › Continuous or on-demand schema comparison
- › Detects:
 - Added / modified / deleted objects
- › Auto/manual sync options
- › Prevents unauthorized production changes

05 DevSecOps & CI/CD Integration

- › CLI-based execution in pipelines
- › Integration with:
 - Jenkins, GitLab, Azure DevOps
- › Automated validation:
 - Syntax
 - Dependencies
 - Policy compliance

06 Deployment Control & Validation

- › Pre-execution validation (dry run capability)
- › Controlled release pipelines
- › Environment-specific deployment rules
- › Policy enforcement before execution

07 Rollback & Failure Management

- › Automated rollback for transactional DBs
- › Version-based rollback scripts
- › Fail-safe execution (stops on error)
- › Recovery workflows with detailed logs

08 Audit, Compliance & Traceability

- › Full audit logs of all schema changes
- › Change history tracking (idempotency)
- › Compliance alignment with regulated industries
- › End-to-end traceability (Dev → Prod)



09 Enterprise Scalability & Performance

- > Incremental deployments (only pending changes)
- > No full schema scan required
- > Lightweight tracking → performance independent of DB size
- > Supports large-scale, multi-team environments

ADD-ON AVAILABLE

Need 24/7 coverage? Add Velox MDR.

- India-based SOC analysts, 24x7x365
- 15-minute SLA for critical incidents
- Seamless activation — no new agent required

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Velox Solutions is a Global cybersecurity OEM delivering advanced, AI-powered technologies that strengthen Security Operations and enterprise resilience since 14+ years. Our solutions enable faster threat detection, automated response, and deep visibility across users, endpoints, and infrastructure. Leveraging AI-driven SIEM, SOAR, and behavioural analytics, Velox builds proactive, intelligence-led SOC environments, empowering government and enterprise sectors to stay ahead of evolving cyber threats.

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