



VEL  **X** [®]

THINK CYBER SECURITY... THINK VELOX

Enterprise-Grade Database Change Governance & Schema Monitoring Platform

PlanetGuardPro – DMS is a centralized Database DevSecOps platform designed to manage, govern, and automate database schema changes across environments. It ensures controlled deployments, real-time drift detection, compliance enforcement, and full audit visibility for enterprise databases.

Key Value Proposition

1. Centralized governance for all database projects
2. Secure, policy-driven schema change management
3. Automated drift detection and rollback readiness
4. End-to-end visibility across Dev → Prod
5. Audit-ready operations with full traceability

Key Value Proposition

1. Databases: MySQL, PostgreSQL, MS SQL Server, Oracle, and other enterprise databases
2. Change Formats: SQL, XML, YAML, JSON
3. Deployment Models: Multi-environment, multi-instance, role-based access

PlanetGuardPro – DMS

Features

Widely referenced in enterprise environments

Structured database change management is practiced across development, testing, and production systems

Commonly evaluated alongside industry-recognized database lifecycle and Devops practices adopted by large enterprises

Aligned with approaches recommended in database Devops and CI/ CD frameworks

Designed to support operational practices typically observed in organizations managing multiple database platforms at scale

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Features

Incorporates mechanisms consistent with change traceability

Reflects concepts generally associated with version-controlled database changes

Compatible with database governance practices commonly followed in large data center and enterprise IT operations

Evaluated in the context of industry-standard database platforms such as Oracle, PostgreSQL, MySQL, and SQL Server

Supports workflows aligned with internal change management, review, and approval processes typically adopted by large institutions

Roleback feature is available for specific changes as well as all changes.

Schema management for all types of database.

Core Features & Capabilities

1. Project Management

Provides a centralized view to manage, monitor, and govern all database projects with built-in DevSecOps controls.

Highlights

1. Central dashboard showing total, active, drift-detected, and rollback-enabled projects
2. Quick search by project name, status, or compliance state
3. Fast project creation with predefined governance controls
4. Single pane of control for all database initiatives

Business Value

1. Simplifies multi-project database governance
2. Improves visibility and accountability across teams

2. Instance Setup & Registration

Securely registers database instances and links them to projects and environments for controlled schema management.

Highlights

1. Multi-database and multi-instance support
2. Environment and role mapping (Primary / Replica)
3. Secure connectivity configuration
4. Deployment-ready integration for policy checks and drift detection

Business Value

1. Eliminates unmanaged database instances
2. Ensures consistent governance from day one

Core Features & Capabilities

3. Environment Setup & Control

Defines controlled deployment environments and maps them to database instances and schemas.

Highlights

1. Standard and custom environments (Dev, Test, SIT, UAT, Pre-Prod, Prod)
2. Instance-to-environment mapping
3. Controlled schema selection or provisioning per environment

Business Value

1. Enforces environment isolation and release discipline
2. Reduces production risks caused by uncontrolled changes

4. Environment View (End-to-End Visibility)

Provides a visual, lifecycle-based view of schema progression across environments.

Highlights

1. Clear Dev → Prod flow visualization
2. Environment health indicators (sync status, drift alerts)
3. Package visibility per environment with versioning

Business Value

1. Improves release confidence
2. Enables faster impact assessment and troubleshooting

Core Features & Capabilities

5. Schema Synchronization & Drift Detection

Continuously or on-demand compares live databases with managed baselines to detect schema drift.

Highlights

1. Detects added, modified, and deleted database objects
2. Schema explorer with hierarchical object view
3. SQL definition preview for verification
4. Manual or automated synchronization options

Business Value

1. Prevents unauthorized or accidental schema changes
2. Maintains production stability and compliance

6. Change Deployment & Packaging

Enables controlled, versioned, and auditable creation of database change packages.

Highlights

1. Versioned change packages for traceability
2. Multi-format schema change support
3. Inline script authoring or file upload
4. Pre-execution validation for syntax, dependencies, and policies
5. Cross-database compatibility
6. Rollback metadata association

Business Value

1. Standardizes database releases
2. Reduces deployment failures and rollback risks

Additional Features

Migration Engine & Execution Model

- Sequential execution of versioned migrations
- Pre-execution validation (order, integrity, consistency)
- Fail-fast mechanism to prevent inconsistent states
- Environment consistency across Dev, QA, and Production

CI/CD Integration

- CLI-driven execution within pipelines
- Integration in CI/CD pipeline as GitLab
- Standard exit codes for automation control
- Automatic pipeline failure on migration errors
- Seamless integration with tools like Jenkins, Azure DevOps

Dependency Management & Ordering

- Ordered execution (no skipping or reordering allowed)
- Validation checks for dependency integrity
- Prevention of execution if dependency chain is broken
- Handles complex multi-object schema dependencies

Idempotency & Repeatability

- Tracks execution in schema history table
- Skips already applied migrations
- Supports repeatable scripts (views, procedures)
- Ensures error-free re-deployments

Rollback Handling

- Automatic rollback for transactional databases
- Controlled rollback using versioned corrective scripts
- Stops execution immediately on failure
- Prevents partial or inconsistent deployments

Failure Handling & Recovery

- Immediate stop on failure
- Detailed logging of failed migrations
- No silent retries or skipped steps
- Recovery via corrective migration scripts
- Safe re-execution after issue resolution

Scalability (Enterprise Databases)

- Incremental execution (only pending changes applied)
- No full schema scans required
- Lightweight schema history tracking
- Performance independent of database size

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Multi-Developer Support

- Shared repository-based development model
- Conflict resolution during the merge process
- Strict version ordering to avoid execution conflicts
- Prevention of duplicate or out-of-order deployments

Key Benefits Summary

- Centralized database governance
- Automated drift detection and control
- Safer deployments with dry-run validation
- Faster releases with reduced risk
- Full audit and compliance visibility

Ideal Use Cases

- Enterprise database change management
- Regulated environments requiring audit trails
- Multi-team DevOps / DevSecOps organizations
- High-availability production databases

PlanetGuardPro – DMS enables organizations to move fast with database changes while staying secure, compliant, and in full control.





Brands That Trust Us



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