

MDChange: Git and Change Management Working Together on IBM i



By combining the complementary strengths of Git for source management with an IBM i-specific change management solution like MDChange, you can achieve the best of both worlds: fast, collaborative development and safe, controlled deployments.

MDChange provides powerful support for IBM i Git users and automates the DevOps workflow. IT teams can embrace DevOps practices, maintain full compliance, and keep development and production environments in sync without sacrificing performance or reliability.

It's time to bridge the gap between Git's power and IBM i's unique requirements.

MDChange brings modern DevOps practices to IBM i without sacrificing the platform's legendary reliability and performance.



AUTOMATE GIT BRANCH CREATION

Automatically create Git feature branches based on task creation, approval, state transitions, or manual triggers. MDChange ensures that every change request gets its own isolated development branch with consistent naming conventions.



CREATE FEATURE-BRANCH TEST ENVIRONMENTS

MDChange can provide IBM i environments for each feature branch, maintaining libraries, IFS folders, test data, and all dependencies. It enables parallel development and testing without conflicts, matching container-based workflows used by cross-platform teams.



SIMPLIFY EXPORT OF SOURCE MEMBERS AND IFS DIRECTORIES INTO GIT

Users benefit from streamlined export capabilities through the MDSRC2IFS command and VS Code/RDi integration. MDChange automatically converts source members to UTF-8, normalizes line endings, and enables one-click IFS directory exports to Git with configurable filtering and branch management.



OPTIMIZE GIT REPOSITORY CLONING

Automatically distribute high-volume Git operations across service jobs with intelligent load balancing. This enables parallel processing from multiple repositories and eliminates bottlenecks during large clones and multi-developer branch operations.



AUTOMATE PULL REQUESTS

Bi-directional integration automatically creates and manages Git pull requests upon successful environment promotions, with fully customizable tags and configurable target branches for multiple merge levels.



SEAMLESS PROJECT MANAGEMENT INTEGRATION

Integrate directly with Azure DevOps, ServiceNow, and Jira to automatically synchronize task status throughout the development lifecycle. This eliminates manual updates and provides real-time visibility to project managers and stakeholders.



POST MERGE DEPLOYMENT TRIGGERING

MDChange can be triggered via webhook by successful Git merges to automatically start cross-platform deployment pipelines. It creates complete feature branch deployment sets including all non-Git components while tracking the original change request.



GRANULAR, TIME-SENSITIVE DEPLOYMENTS

Enable feature-based deployments on independent schedules rather than requiring monolithic maintenance windows, providing tracking and audit trails, MDRapid, our rapid database update solution, provides data conversions while keeping production systems live until planned switches.



AUTOMATIC ROLLBACK AND RISK MITIGATION

Automatic, object-level rollback capabilities instantly revert to previous stable states if deployment errors occur, reducing deployment risk and enabling frequent releases with confidence.



CROSS-PLATFORM DEPLOYMENT

MDChange coordinates with external CI/CD systems to ensure IBM i and non-IBM i components deploy simultaneously with atomic transactions, automatically rolling back both platforms if either deployment fails.



BIDIRECTIONAL ENTERPRISE INTEGRATION

REST APIs in MDChange enable true bidirectional communication with enterprise CI/CD pipelines, receiving triggers from external systems and sending status updates, making IBM i a first-class citizen in enterprise DevOps workflows.

Questions? Visit our website at www.md-na.com and schedule a demo!