



> TD/OMS

> IBM i APPLICATION LIFECYCLE MANAGEMENT

TD/OMS is a flexible and cost effective application lifecycle management solution supporting IBM i, Windows and UNIX/Linux.

TD/OMS incorporates fundamental IT business processes such as Application Life Cycle Management, Version Management, Release Management, and Software Distribution & Deployment. The IT organization is supported in streamlining the change process of any type of application, no matter the complexity of the environment.

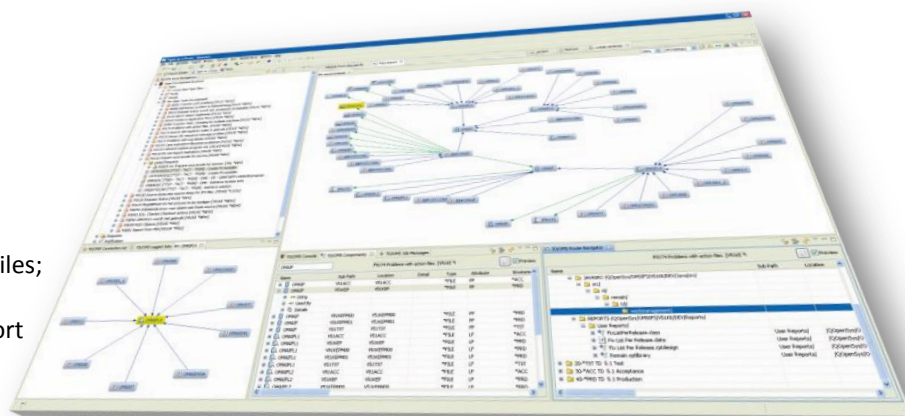
TD/OMS is a modular solution that gives complete control over the software life cycle process and provides a real time overview of software components and configuration. Compliance and auditing requirements can be easily met due to the registration of all component movements.

> FEATURES

- Flexible change cycle support
- Transfer and change history
- Request & Task Management
- Rules based process definition
- 'Real Time' configuration database
- Easy to use graphical impact analysis
- Component & relation repository
- Automatic or manual rollback
- Source compare & merge (version control incl. IFS files; peer review)
- IBM i off-the shelf applications' management support
- 'Green screen' or Graphical User interface
- Large data files management (MIMIX Promoter interface/Vision Solutions)
- (Continuous) deployment to IBM i, Windows, UNIX, Linux, Tomcat, WebSphere
- Technology supported: Gravity Task & Workflow Management, IBM Rational Team Concert, X-Analysis, RPG Toolbox, RDi, MIMIX Promoter, Java, PHP, 4GL (LANSA, CA Plex, CA 2E, AS/SET, Magic, IDDO, EGL, ProGen), etc.
- Integration with Eclipse and other open source tooling: Subversion (SVN), Mylyn, BIRT Reporting Tool, Maven

> TD/OMS BENEFITS

- > IT costs optimized
- > Significantly increased productivity
- > Shortened time to market
- > Teamwork improvement
- > Increased IT reliability and control; high quality code
- > Integration to all traditional IBM i and Eclipse based development platforms
- > Modularity - use and pay for only what you really need
- > Multi-methodology way of working
- > Support of laws & regulations (SOX, ISO, Basel II, etc.) and IT best practices compliance
- > Third party application software change support
- > Gained visibility
- > Workload predictability
- > Quick implementation time
- > Standardized way of working
- > Reduced risk in business continuity



> **IBM i application lifecycle management**



➤ APPLICATION MODERNIZATION SUPPORT

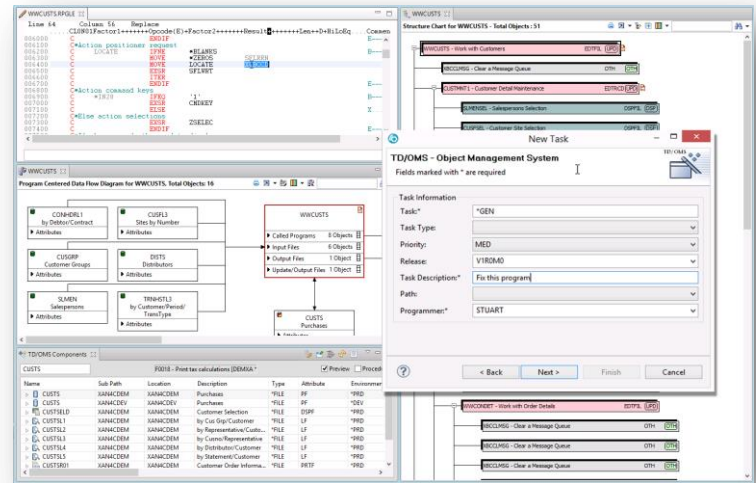
TD/OMS brings significant value to all customers that are not only looking at improving their software development process, but also analysis and modernization of legacy applications. TD/OMS is a key tool providing complete control of these processes; assuring security and delivery of high quality applications on time and within budget.

TD/OMS integrated with tools, such as X-Analysis (Fresche Legacy) or RPG Toolbox (Linoma Software) will help you to keep track of the entire modernization process. It helps analyzing your programs, registering changes and keeping the track/history of your application for reporting purposes, which also may be required for audit / SOX / ISO / HIPAA compliance. While converting your software to its modernized version, you need version control, test support and release and distribution management functionality that will help you get your modernized applications up and running quickly.

➤ IT COLLABORATION IMPROVEMENT

TD/OMS can be of great help for those development shops who need to improve collaboration among all team members. Integration with Gravity, Remain's helpdesk, collaboration and workflow management solution streamlines application maintenance and improves communication between IT and other departments which makes their work more structured and effective.

TD/OMS will help you to better combine business activities with software development. Any task or issue created in Gravity can be promoted to appear on the developers' dashboard as a new development task in TD/OMS.



"What can I add? All people working with TD/OMS have a positive opinion. TD/OMS is error-free software, which is an exception. People here have no fear for release implementation anymore, which is the biggest compliment I can make."

Carlson Wagonlit

"Not only did TD/OMS help us with our development issues, the tool is also easy to use and very friendly priced."

Resurs Bank



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> WHY IS SOFTWARE CHANGE MANAGEMENT SUPPORT IMPORTANT WHEN MODERNIZING LEGACY APPLICATIONS?

The process of modernization can be very complex. Despite the implementation of tooling dedicated to application modernization, your data, including old code versions should be stored and all changes made to software should be tracked and reported. Software change management tooling can help you take full control over your modernization project and deliver the old-new application with high quality and without risking data loss or other conversion problems. Deliver on time and within budget while remaining compliant to auditors' or other regulations' requirements.

> HOW DOES IT WORK?

Tooling such as TD/OMS will analyze your programs, register the change and copy the program into the developers' sandbox environment. Storing previous versions of your software is extremely important in case something goes wrong, for example when you have to roll back to a previous version of the modernized application. TD/OMS will also keep the track/history of your application for reporting purposes, which also may be required for audit / SOX / ISO / HIPAA compliance.

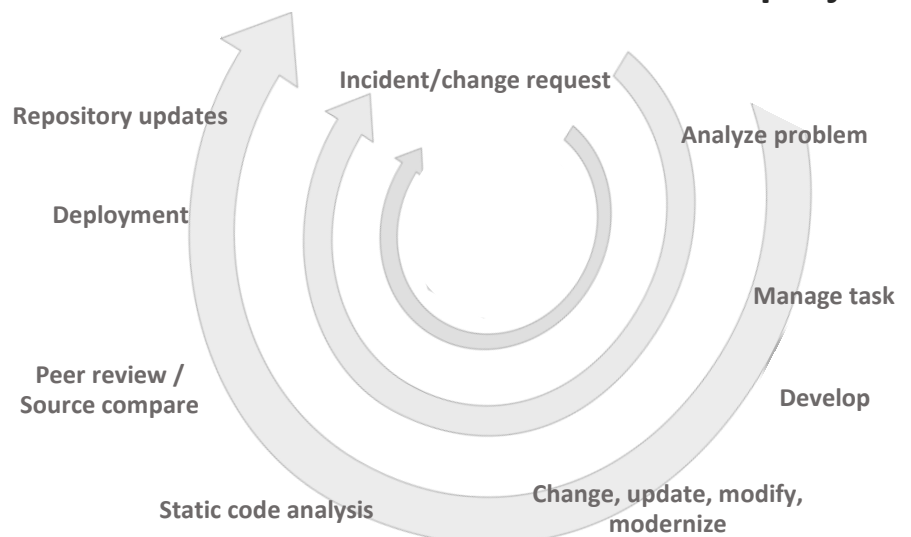
While converting your software to its modernized version, you need version control, test support and release and distribution management. Functionality that will help you get your modernized applications up and running quickly.

> TD/OMS

> BENEFITS

- > Productivity increase
- > Instead of switching through an array of views and functions, all functions are now hooked together by relevancy
- > Reduced cost of software maintenance and modernization
- > Changes can be done much quicker and without the need for manual processes (and with a lot more fun).
- > Easy maintenance and support of several software versions
- > In-depth graphical analysis of software assets and application change influence
- > Full control over the change process
- > Stable and secure development and deployment to production environment of a modernized software
- > Control and storage of application versions with source compare and merge and peer review functionality
- > Protected investments
- > Laws, regulations and auditors compliance

> Software Change Management to support your modernization projects





> TD/OMS and X-Analysis integration

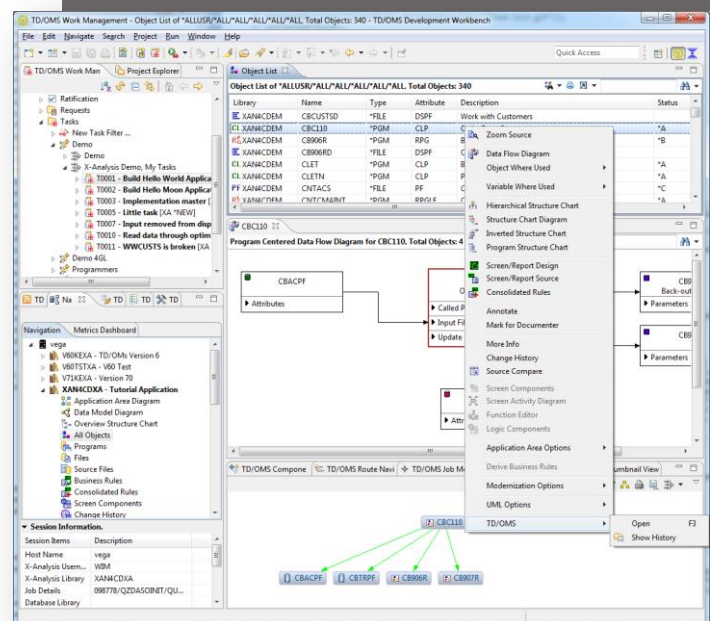
The core of the solution is industry-leading analysis and documentation from X-Analysis (Fresche Legacy) provided through Fresche's open API. Through a sophisticated interface, it combines with Remain Software's TD/OMS, and benefits from extensions to IBM's RDi LPEX editor. The result is an ultra-modern industry standard in development and management of IBM i applications. This Unified SCM Workflow solution provides developers with powerful impact analysis and automated code review during promotions to help maintain standards and resolve problems before they reach QA or production. Graphical analysis and documentation provide visual understanding for unfamiliar application areas with objects and code ring fenced for projects and assigned tasks. By integrating these features into the highly configurable but easy-to-implement TD/OMS SCM solution, developers have access to all the code analysis information they need, while the workflow is automated and controlled to provide consistent quality and productivity.

> HOW DOES INTEGRATION BETWEEN TD/OMS AND X-ANALYSIS WORK?

1. A Change Request is registered within TD/OMS.
2. Analysis of software assets changes impact on the software environment with graphical tooling.
3. Creation of tasks that contain the impacted software components.
4. State of the Art Change/Compile/Fix development workflow under TD/OMS control.
5. Application change, modernization and transformation by integrating X-Analysis in the development workflow.
6. Static code analysis with X-Analysis.
7. Code analysis with TD/OMS' peer review functionality or TD/OMS' source compare/ratification module.
8. Stable and secure deployment to production environment with TD/OMS.
9. TD/OMS and X-Analysis repositories' updates.

> FEATURES

- > Seamless Integration
- > X-Analysis Artifacts connected to TD/OMS
- > Drill down in X-Analysis from TD/OMS Artifacts
- > TD/OMS will keep X-Analysis repositories in sync
- > Create TD/OMS Tasks from X-Analysis with one mouse click
- > Runs TD/OMS' Interactive Impact Analysis from X-Analysis



Changing large business applications requires that you have detailed insight in the internals of the application. Many shops exclusively work with the tooling that IBM provides. To find information people default to source scanning, displaying database relations and programming references. Deployment is a manual and laborious task. In a sense this is a lot like driving in the dark on an unknown road. When you find yourself in this situation, you should invest in tooling that, just like in your car, helps you navigate and brings you to your destination in time.

Wim Jongman, Remain Software



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In cooperation with

FRESCHÉ
LEGACY

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Gravity

> TASK & WORKFLOW MANAGEMENT

Gravity is a perfect solution for organizations of any type or size that desire easier, faster, and more visible management of various kinds of processes across departments and teams. Gravity supports process automation, and streamlines and controls all changes taking place within your organization – regardless of the methodology you use.

Gravity can be extremely beneficial for:

- > Software developers,
- > IT executives,
- > Business analysts.

Within a very short period of time all departments (IT, sales, finance, customer service, warehouse, and others) can benefit from using Gravity.

> WEB OR RICH CLIENT

Next to the rich client version, Gravity is also available as a web-based application. This gives you free and easy access to your system whenever and wherever you need it.

> BENEFIT FROM USING GRAVITY

- > Workflow control
- > Time and money savings
- > Requirements management
- > Workload predictability
- > Improved collaboration
- > Modern and robust way of working
- > Significant increase in employee and machine productivity
- > Better team communication
- > Laws and regulations compliance
 - (SOX, ISO, COBIT, etc.)
- > Future-proof technology
- > Quick learning curve

> DESIGN YOUR WORKFLOW

Use Gravity to design a workflow with customized items, e.g. tasks, requests, issues (consisting of Attributes, Planning and Estimates, Description, etc.). This defined workflow will precisely show the end-to-end path of these items - from assignment to production. Once you have completed the design of your workflow, Gravity will enforce the whole process for you. Items can be easily assigned to the responsible people, and once processed within the workflow, immediately updated with the appropriate status.

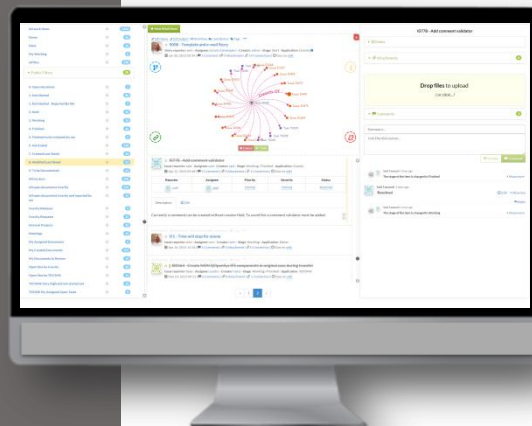
> EXTEND ACCORDING TO YOUR NEEDS

Tailor your workflow with customized activities, like sending e-mail or managing your calendar, or other, more complex tasks like starting a build on a build-server, enforcing users to enter sign-off information, and so on.

> CONTROL AND PREDICT WORKLOAD

Project management can be facilitated on both a detailed and summarized level. Project managers will benefit from the ability to manage individual task time estimates and team member workloads. This enables full control and visibility of project workloads and time requirements for an entire project. Single tasks as well as entire projects can be managed within Gravity.

In the Gravity rich client each user can manage their own work better by personalizing their views.



> Task and Workflow Management



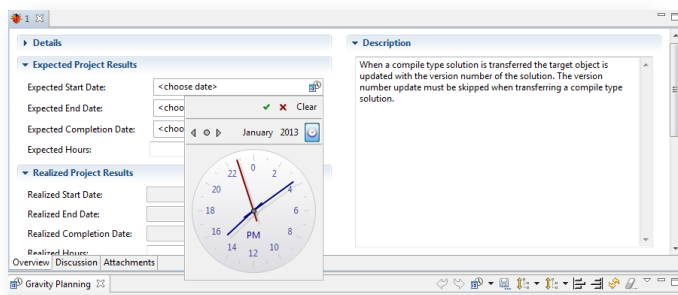
> IMPROVE COMMUNICATION FLOW

Gravity facilitates information flow between multiple teams and team members. It registers all changes that take place in your enterprise and sends notifications about these changes. You can easily define what kind of changes are important to you, and if you wish to be informed about them.

With Gravity you can specify notification receipt times and where you'd like to receive them – such as in your mailbox, on your smart phone or any other device.

Streamlining communication within Gravity also means that you can define and assign changes/requests/problems to the people involved. These changes can be described in stories and then split into multiple tasks with defined deadlines or time-frames. The user responsible for completing the task will be notified about it right away!

What's more, each Gravity user can see the work assigned to them and to other users and view task status and schedules.

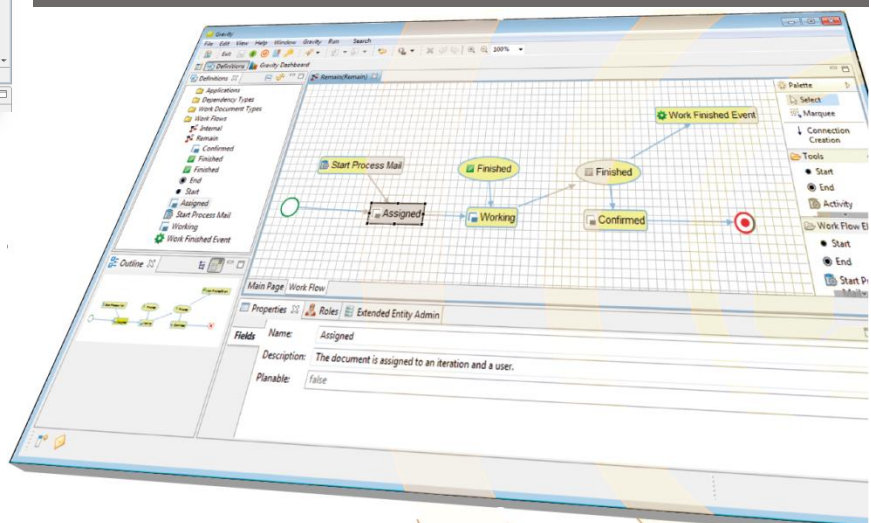


> Increased productivity

> Improved collaboration

> FEATURES

- > Methodology independent process automation (AGILE, Scrum, Waterfall, XP, "the next great thing"™, etc.)
- > Workflow design with customized documents, tasks and user roles
- > Support for project management
- > Task Management and process automation
- > Activity personalization (e.g.: sending e-mail, calendar management, starting a build on a build-server, enforcing users to enter sign-off information, etc.)
- > Event management (event processors to perform all sorts of tasks like auditing, process triggering, notification, e-mail and so on)
- > Access through web or rich client
- > Project management support with individual task time estimates and team member workloads
- > Notification system improving information flow between multiple teams and team members (changes/requests/problems defined and assigned to particular employees with defined deadlines or time-frames)
- > Integration with TD/OMS application lifecycle management
- > Strong security capabilities with users' authorization and authentication
- > Social features, like following or tagging
- > Eclipse, Service Oriented Architecture (SOA), OSGI, Multi-platform (Java) and Multi Data base
- > Graphical presentation of item relations



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