

IBM Rational DOORS and IBM Rational Change Integration

Highlights

- **Accessible, repeatable processes for requirements capture and analysis.**
- **Support for a configurable process so you can implement best practices and facilitate compliance.**
- **Scalable, consistent approach to managing requirements change using flexible change processes.**
- **Round-trip traceability across your development lifecycle.**
- **Efficient requirements-driven development process.**
- **Measurements and metrics providing management by exception, visibility across the development lifecycle and the ability to leverage best practices and compliant processes.**
- **Streamlined development and project progress monitoring via automation and enhanced visibility features.**

Requirements change lifecycle management can help you solve some of your most critical business challenges. It enables comprehensive impact assessment of a change throughout the system and enhances visibility across the development lifecycle.

For many organizations, IBM® Rational® DOORS® is the first major step in process improvement. The next step is building on that success with lifecycle change management.

Requirements change management

The integration of IBM Rational DOORS and IBM Rational Change delivers comprehensive requirements change control for Rational DOORS users and automates the process of requirements workflow management. It provides the flexibility needed to implement virtually any process for managing, tracking and reporting on proposed changes against critical requirements, links, requirements structures, specifications, test plans and other information maintained in your Rational DOORS database. The integration now supports the enhanced lifecycle capabilities provided by the IBM Rational enterprise change process (ECP), built on the Rational Change platform.

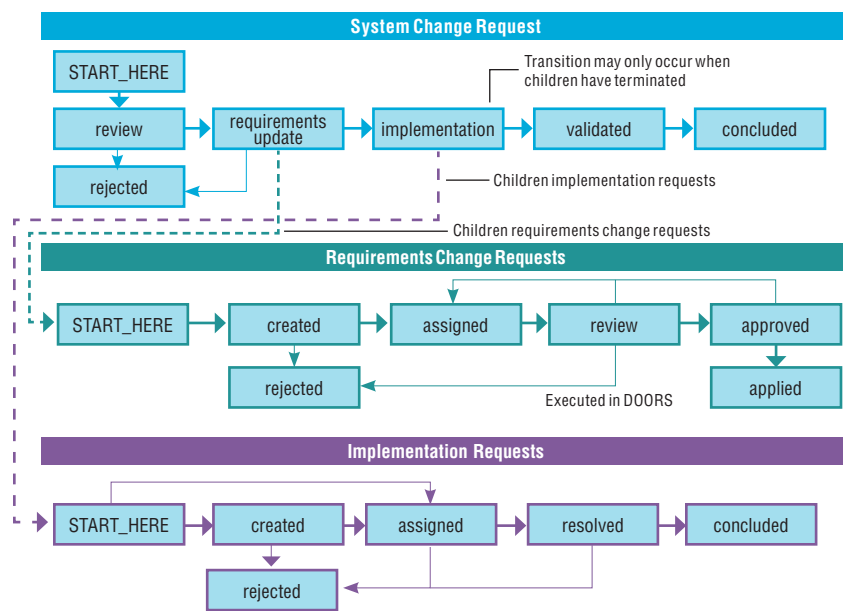


Figure 1. Requirements lifecycle management with IBM Rational DOORS and IBM Rational Change.

You can clearly define and communicate requirements changes through an easy-to-use and configurable Web interface, create and browse relationships and format reports on changes that help reduce rework, and improve productivity and process control by implementing repeatable compliance processes such as Capability Maturity Model Integration (CMMI) or IT Infrastructure Library® (ITIL®) processes.

Requirements implementation

The requirements implementation interface brings comprehensive round-trip traceability from business requirements to change requests to code. This interface reduces scope creep, streamlines development and provides realtime visibility of the relationships between requirements and development activities.

Activity reports run from the Rational DOORS interface provide visibility from requirements to change request to code, including enterprise change process change requests to code, allowing analysts to quickly view the effect of their changes on the entire system. IBM Rational Change charts, reports and trend analysis metrics will show development activities associated with requirements, and with IBM Rational Synergy and IBM Rational ClearCase® software, teams can have bottom-up traceability back to the original change request and requirements.

Requirements gathering

The requirements gathering interface between the IBM Rational DOORS and IBM Rational Change automates the start of the product definition phase so that requirement suggestions and proposals can be gathered using an easy-to-use, personalized Web interface. These proposals can be reviewed through configurable workflows and, once approved, pulled into a Rational DOORS module for further analysis and propagation.

How it works

The integration between the Rational Change platform and Rational DOORS software now supports the ECP lifecycle, providing powerful requirements change management compatibility and implementation request lifecycle capability integration. Furthermore, the integration with the IBM Rational Change platform provides powerful CMMI Level 3 and 4 reporting capabilities such as phase containment effectiveness and phase screening effectiveness.

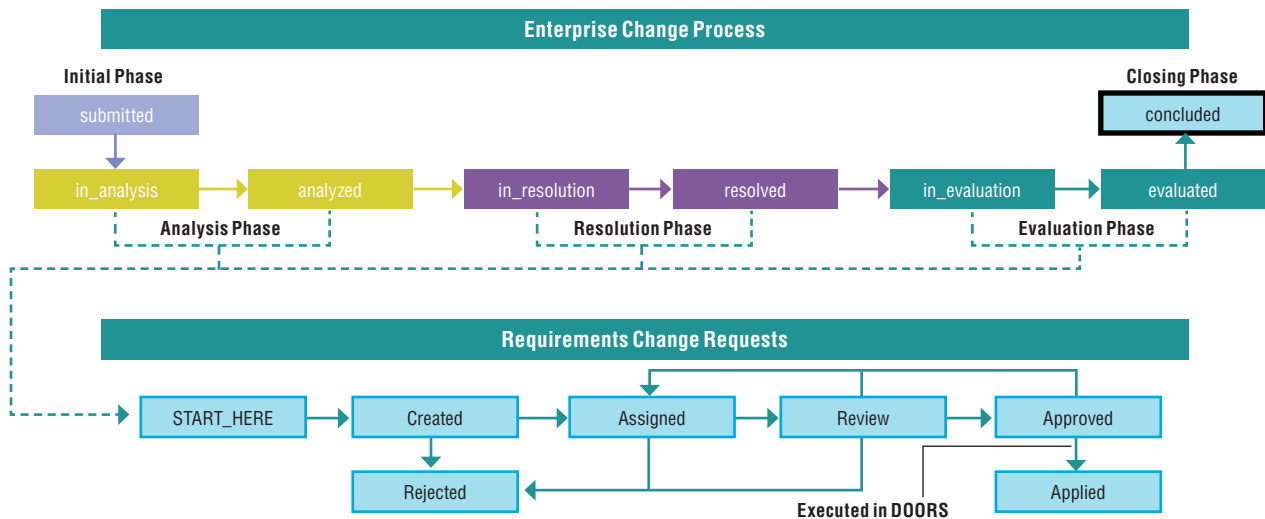


Figure 2. Integration of the enterprise change process with IBM Rational DOORS software.

The integration between the Rational Change platform and Rational DOORS software also provides you with comprehensive management of user requirements. Requirements worked on in IBM Rational DOORS software go through an elaborate, configurable, role-based change lifecycle in IBM Rational Change software, with users working in their familiar environment. Users have the required Rational Change data available to them via a Web browser. Activity reports run from the Rational DOORS interface provide visibility from requirements to change request to code, allowing analysts to view the effect of their changes on the entire system.

For more information

To learn more about IBM Rational software, contact your IBM representative or IBM Business Partner, or visit:

ibm.com/software/rational



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