



**SIEMENS**

*Ingenuity for life*

# Polarion for specifications management

## Reducing costs and simplifying project management

### Benefits

- Reduce cost of operations
- Simplify project management
- Improve information exchange, risk control and increase predictability
- Deliver flexible, customizable workflows
- Provide workflow-driven change management
- Maintain compliance and reduce risk

### Features

- Document authoring and management
- Easy re-use of requirements and specifications to maintain consistency
- Customizable project templates and workflows get new projects started fast
- Verification and validation of specifications and documents
- Minimize project risk by identifying and resolving aspects of risk early in the project
- Email alerts and digital signatures

### Summary

Owner operators, EPCs and OFS companies face a variety of challenges, including expanding project scopes and complexities, timelines that exceed established schedules, partnering with the supply chain and vendors, unwieldy

change management, reliance on disappearing tribal knowledge from an aging workforce, confusion among project teams and adherence to regulatory compliance

Our customers tell us these kinds of problems are rooted in flawed, disconnected or incomplete requirements. Other challenges are found in managing changing specifications and ensuring changes are captured and communicated with different teams in all versions of project documents. The implications of not addressing these problems are huge, affecting costs, profits and potentially safety since a strong lifecycle management tool can minimize the occurrence of catastrophes, which could have a major impact on an organization.



# Polarion for specifications management

## Accelerate collaboration

The Polarion™ portfolio is designed from the ground up to provide a contextual tool for highly effective, transparent collaboration that enables teams to work in their familiar environments. Our collaborative platform enables fast reaction and resolution to design changes. A web-based interface allows easy interaction between geographically dispersed teams, and a familiar interface for all users brings different disciplines together on a common platform.

## Produce quality results quickly

Fully customizable workflows in Polarion map easily to existing processes at a project-, group- and organization-wide level. Robust project templates speed adoption and reduce training time. Live branches and document re-use enables you to manage commonalities in your project document variants, eliminating cumbersome copy/paste methodologies.

## Ensure compliance and governance

To enforce governance and ensure compliance, the questions of who did what when, where and why has to be quickly answered and documented. This is easily accomplished in Polarion with traceability that is implemented via automatic change control of every requirement, from inception and re-use to derivatives and archiving.

Multiple levels of security can be established by role, user, project or group, including access administration and provisioning using external repositories with support for standard protocols such as Lightweight Directory Access Protocol (LDAP) and Security Assertion Markup Language (SAML) in a variety of flexible authentication options.

## Traceability, versioning and audit trails

Take advantage of change management and impact analysis as vital parts of the requirements management process:

- Easily implement wide and deep traceability with customizable link types and roles, applicable to any or all artifact types
- Determine the potential change impact on other requirements, project timelines, resource allocations, etc.
- Visually compare older document versions with newer ones and clearly highlight the changes
- Create one-to-many or many-to-one links across documents or projects
- Browse, search and report any historical state of your project as easily as the current state
- Achieve and prove compliance with a wide spectrum of industry standards to pass audits with greater ease.

## Supports any methodology and workflow

Polarion supports the full range of engineering development environments and methodologies. On top of traditional (V-model and waterfall) approaches to specifications lifecycle management, Polarion also supports next-generation agile methodologies such as Scrum, Kanban, lean, hybrid, feature-driven development (FDD) and the rational unified process (RUP). Many of our customers combine methodologies to fit their unique processes.

The customizable project templates with established workflows in Polarion enable you to easily manage projects according to industry standards, including Capability Maturity Model Integration (CMMI), International Standards Organization (ISO), International Electrotechnical Commission (IEC), CPI International and Software Process Improvement and Capability Determination (SPICE).

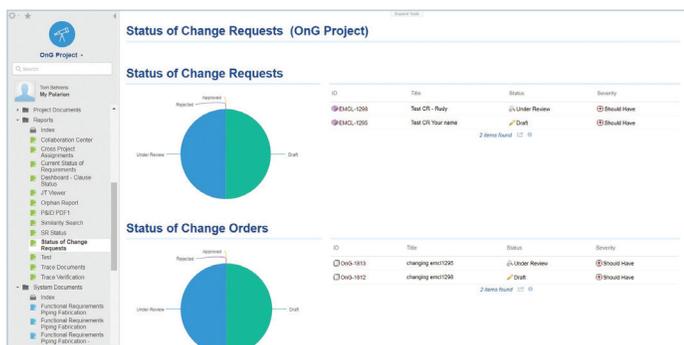


Figure 1: Easily manage workflow-driven change requests.

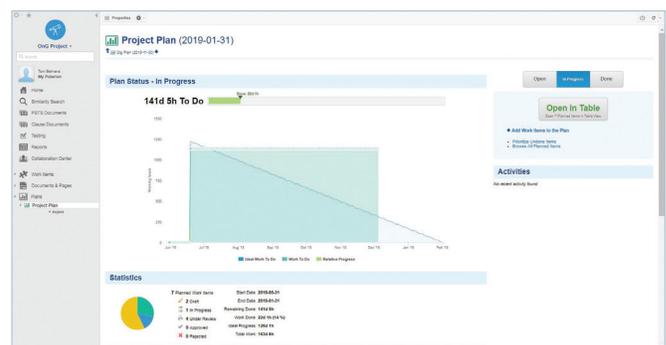


Figure 2: Accurately track project status and dependencies.

### Reduce total cost of ownership

With Polarion, customers can reduce time-to-value and cut project costs associated with system administration, implementation, training, integrations, annual maintenance, as well as hardware and infrastructure management. This is because Polarion is based on a single, web-based architecture that can be rapidly deployed with minimal infrastructure demands. The intuitive user interface of Polarion is a popular choice with familiar looking tools and methods, reducing training costs and catalyzing adoption.

### Online authoring with LiveDoc web documents

An exclusive innovation, the Polarion LiveDoc™ is a virtual web-based document serving as a container for individual artifacts. This interface makes it easy to gather, author, approve, validate and manage requirements because of its familiar word processor and spreadsheet look and feel.

Easily import existing documents and assets using a rule-based import wizard. Legacy artifacts like requirements, clauses, procedures and other project components contained in Microsoft Word or Excel spreadsheet software, are categorized during the import process into Polarion, preserving project structure.

- Pre-import preview promotes accuracy and speed during the import process
- Document round-trip capability, which enables you to seamlessly import and synchronize changes made outside of Polarion while preserving your original formatting for engaging external stakeholders in the process
- Built-in support of the Requirements Interchange Format (ReqIF) for exchange with customers and suppliers

- Diagram editor enables text and diagrams to describe requirements
- Export to portable document format (PDF), Word, Excel, extensible markup language (XML), or hypertext markup language (HTML) for distribution of working and final documents.

### Browser-based performance and scalability

With Polarion, everything is unified on a secure platform using the latest web technologies. You can use a single server or clustered servers (physical and/or virtual) over a regular network or virtual private network (VPN). Start small and scale up easily and affordably. Grow into an enterprise solution that delivers full verification and validation – just add licenses to your installation; there is nothing additional to install or integrate.

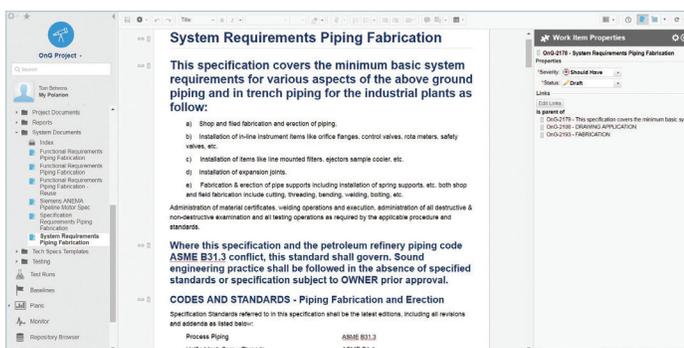


Figure 3: Polarion LiveDoc interface for authoring and editing specifications in a user friendly format that preserves full traceability.

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