

Application Lifecycle Management Solution Guide

Application Lifecycle Management

Overview

The ALM template provides an example of how PTC Integrity platform capabilities can be configured to solve challenges within the application lifecycle. The template uses integrated processes to link all aspects of the application lifecycle, including requirements management, test management, defect management, project management and portfolio management, and provides access to data across these disciplines through a common repository.

Before the template can be implemented for your organization, it needs to be modified to meet your business needs. Some concepts in the template are implemented in several different ways in order to demonstrate different techniques for addressing a business need. For example, metrics are calculated using computed fields in some cases and triggers in others. Both are valid methods for computing metrics, and each has pros and cons that need to be evaluated when the template is implemented.

Features of the template include:

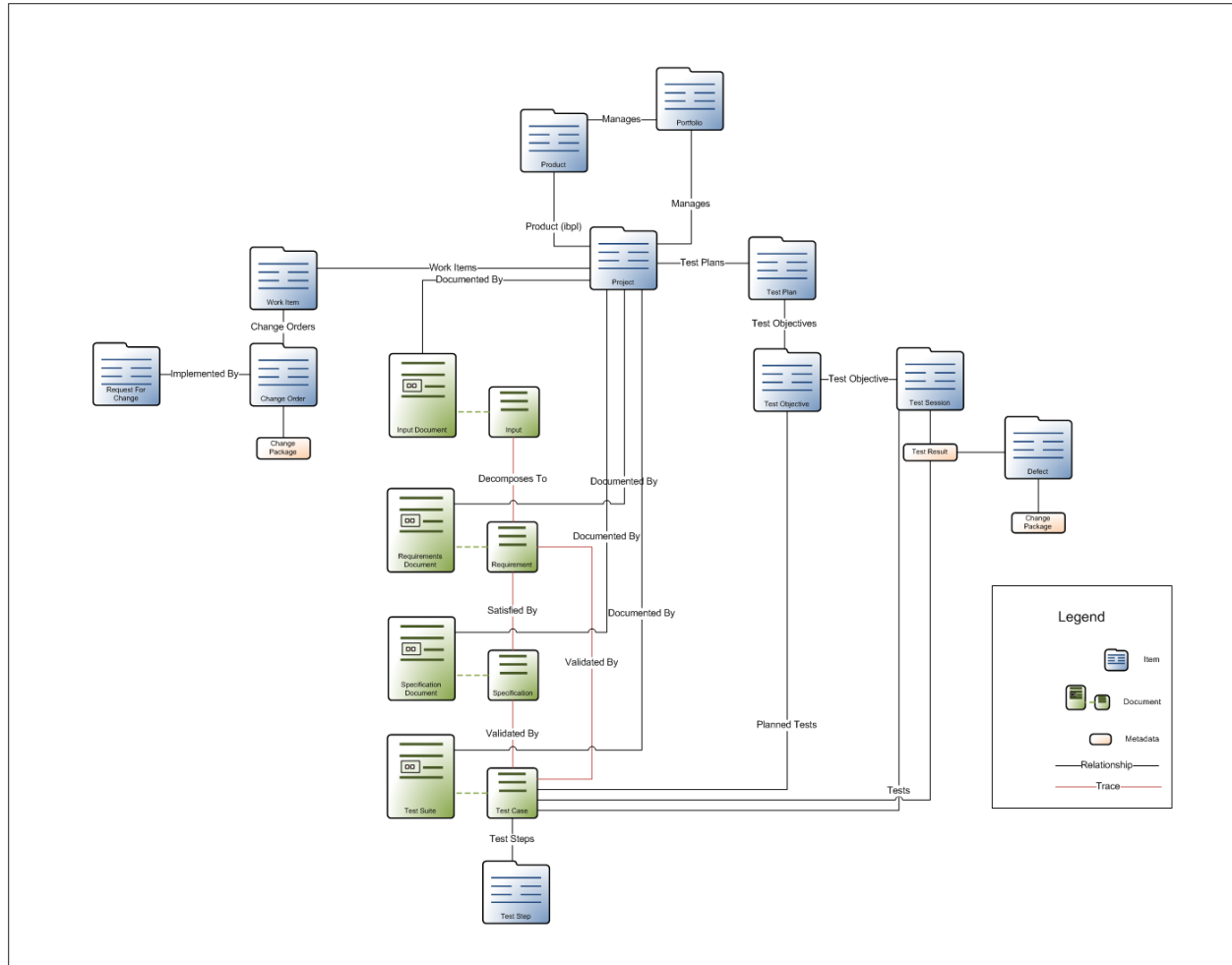
- Process types representing the different aspect of the application lifecycle, and relationships between the types. Types in the ALM template consist of items with a relatively short lifecycle, such as a Specification or Task; items with a much longer lifecycle, such as a Projects; and items that are not normally perceived as having an extensive lifecycle, such as Products.
- Work assignment types for grouping logical areas of effort or testing to specific areas.
- Collaboration types like Discussion threads, Wikis and Wiki Articles for capturing and sharing ideas among a team or throughout the organization.
- Process control through type workflows with integrated rules that enable or constrain the modification of other items, ensuring a coordinated effort across the application development lifecycle. For example, Change Orders authorize specific users to make changes to specific requirements documents or sections of those documents.
- Templates and libraries for standardization and to enable the reuse of artifacts, documents, test cases, and requirements across the organization.
- Metrics based on the analysis of artifacts and processes, source code data, direct user entry, or third party products.
- Calculated metrics from data manipulation or rollup through the relationship hierarchy.
- Charts, queries, and reports embedded in dashboards to provide a high-level view of the underlying data for a collection of components.

The ALM template covers the following domains:

- [Product or Application management](#)
- [Portfolio management](#)
- [Project management](#)
- [Requirements management](#)
- [Development](#)
- [Test management](#)
- [Defect management](#)
- [Release management](#)

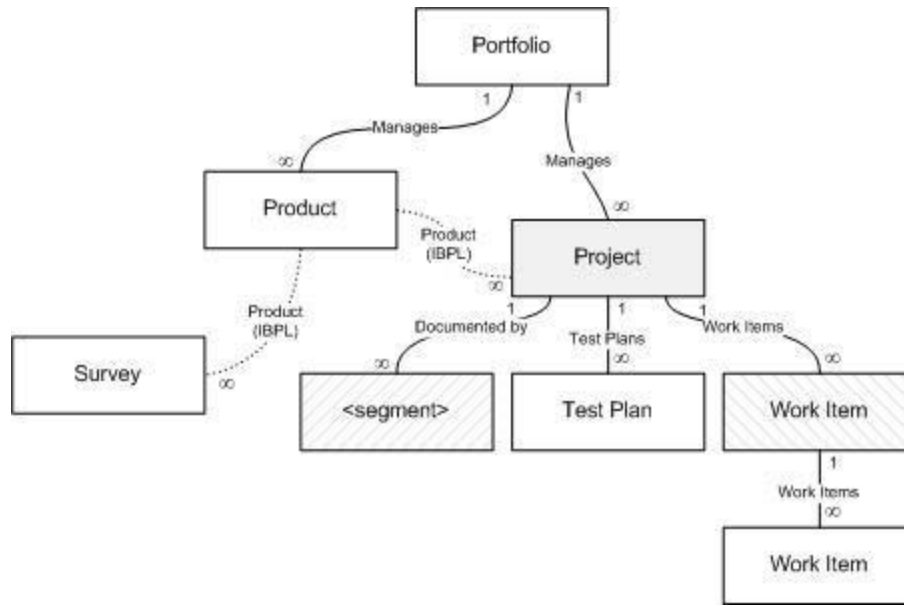
Solution Model

The following diagram provides a detailed overview of the ALM Solution Model. This is meant to provide information about the model and type of relationships that connect each item in the solution.



Type relationships

The following diagram summarizes the type relationships at the top of the hierarchy:



Portfolios amalgamate projects or products. There are two types that back PTC Integrity projects: Project (as discussed above) and Library.

Project type

The Project item in the above hierarchy backs PTC Integrity projects. Each project has a backing item. The set of relationships and metrics fields exposed on Portfolio depends on the category of portfolio. Products are placeholders for metrics. Projects may be related to products via the *Product* IBPL relationship. Surveys are also related to products via the same IBPL relationship. Projects are related to root documents. Test plans can be added to projects via the *Test Plans* relationship. Test plans can't be nested to support a work breakdown structure. Work items belong to projects via the *Work Items* relationship. Work items can be nested to support a WBS via the *Work Items* relationship. Because products, portfolios, and surveys are outside of the Project hierarchy, the Project field on those types is disabled.

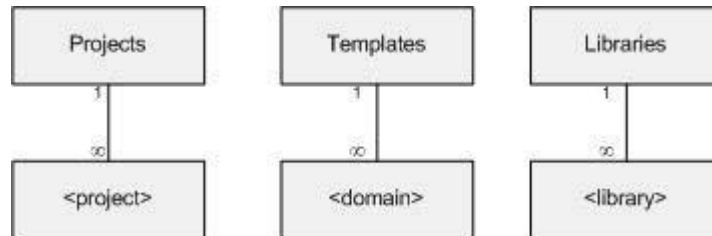
Library type

There are no particular constraints on the nesting of instances of the three project backing types. As a result, a business unit may publish template documents as a sub-project backed by an instance of Library, or it may put the template documents in a company-wide project tree backed by instances of Library. In the case of nested subprojects, explicit relationships between the backing items are not supported. However, you may wish to have such a relationship so the Finder dialog box can navigate not only into documents but also into subprojects.

Projects

In the sample data, we will have four top-level projects: Projects, Libraries, and Templates.

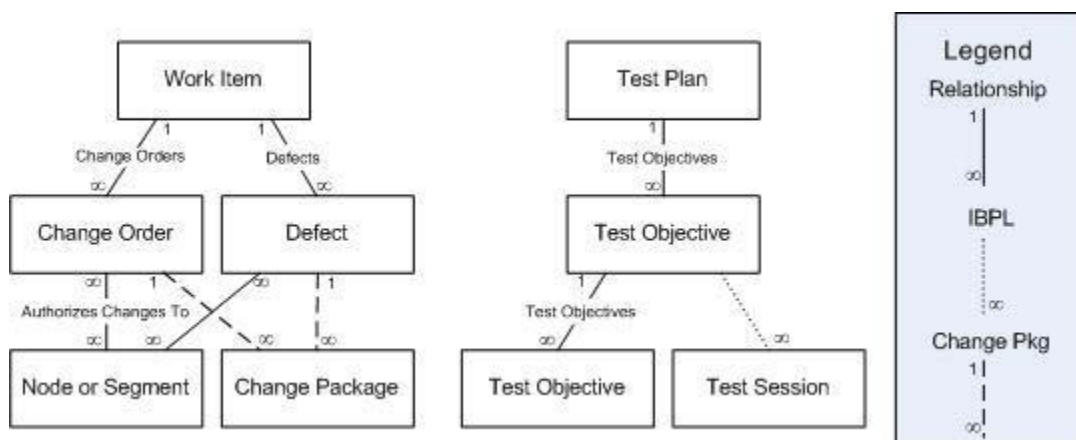
- Projects named \Projects\xxx are traditional projects related to application or product development.
- Library instances named \Libraries\xxx contain documents published by business units.
- Library instances under the \Templates tree are named after each of the domains and contain any artifact that can be copied as a template.



Tasks

Tasks are comprised of one type of Change Order and one type of Defect for all domains in ALM. A documented customization point shows how to remove the Defect type in order to simply make it a category of Change Order. Both types have a single-valued picklist field called *Domain* containing the list of domains available. When you choose a value in a domain, only documents in that domain can be modified as the hierarchical editability rules enforce this rule. You are permitted to make both code and document changes in the same task. The Domain field is editable only by a member of the Senior Project Team. It can't be modified once the task is in development. One documented customization point is to allow the Domain field to be multi-valued. Another is to relax the condition so that the domain field can be modified once the task is in development.

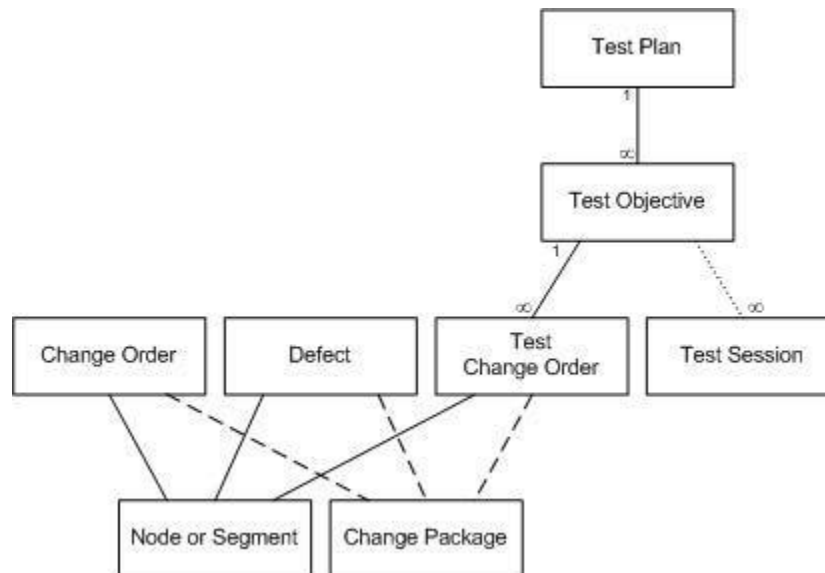
Standard authorizing structures:



- Work Items contain Change Orders and Defects and are by default only related to (but do not contain) Test Objectives via the *Tested by* relationship.

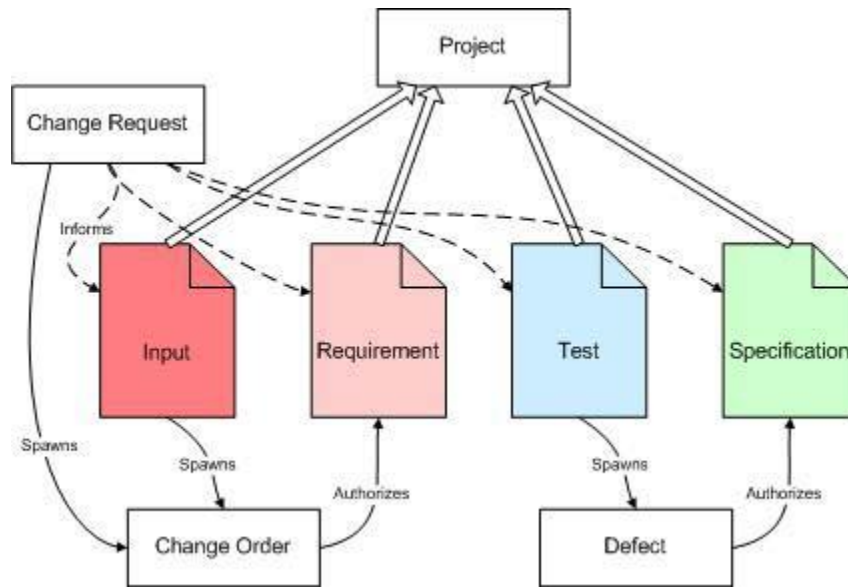
- Change Orders and Defects (tasks) authorize development work on documents and source artifacts via change packages.
- Test Objectives:
 - Authorize the creation of Test Sessions.
 - May relate to a Test Plan instead of a Work Item but not both.
 - Do not authorize tasks.
 - Can be nested to create a testing WBS.
- Tasks do not have any states related to QA validation of the changes. If the project manager wants to track the work related to a particular task or set of tasks, including the related test sessions, then he should create a new containing work item - this is a documented use case.

A variation of the above task structure may be employed by a stand-alone Test solution. While this is not within the scope of our solution, we should at least confirm that we don't overcount in this situation:



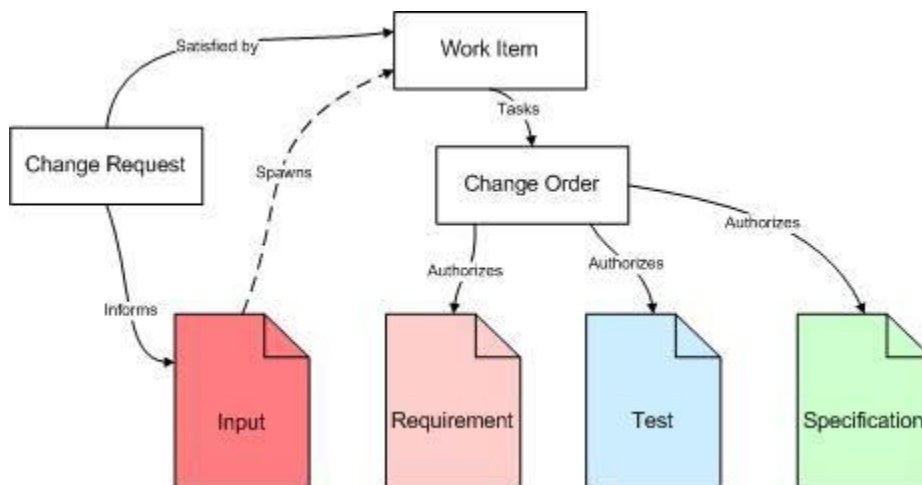
The use of Container relationships down the hierarchy allows metrics to be rolled up to the Project root by following the relationship. In the default implementation, the process of constructing Test Objectives is assumed to be done in parallel with the Work Item analysis and WBS. As a result, testing metrics are **rolled up to the Project root via the Test Plan**, not via the Work Item. At the same time we recognize that certain Test Objectives would not exist if it were not for a particular Work Item. In those cases the *Tested by* relationship is intended to inform the Work Item of this special relationship. In this case, the change orders and defects are driven by defects posted from the Test domain and change orders required to modify test cases are attached to the Test Objective object. As before, change orders and defects authorize work on documents or source code. In this model change orders and defects need not be driven solely from the Test domain - they can also be spawned from other domains per the usual RM 2007 process. The difference here is that the Work Item is not necessarily the container for the authorization items.

Change requests are the mechanism by which both planned and unplanned changes are requested. Change requests have two categories: *New feature* and *Defect*. Change requests do not authorize work. They can inform artifacts in any domain via the *Informs* relationship.



In this model, change requests can spawn change orders and change orders authorize work. Also, change requests can inform artifacts in the analysis domains. The new features of the ALM model are that there is only one Change Order type, and that there is now a Defect type that can also authorize work as already discussed. In the illustration above, a Change Order can authorize work in any domain, not just the Requirement domain as illustrated, and can be spawned from any domain, not just the Input domain. Similarly, the Defect can authorize work in any domain and can be spawned from any domain. Senior project team members can use a change requests to spawn change orders. All domains belong to a Project. Change orders and defects spawned by this mechanism must also belong to a Project so they can be tracked. Change requests do not have to be assigned to specific projects but in practice they will be.

The planned mechanism for using change requests looks like this:



As shown above, the change request informs the Input domain artifacts and it is in the Input domain that the various feature requests are sorted, scheduled, and organized. Once the features or work units

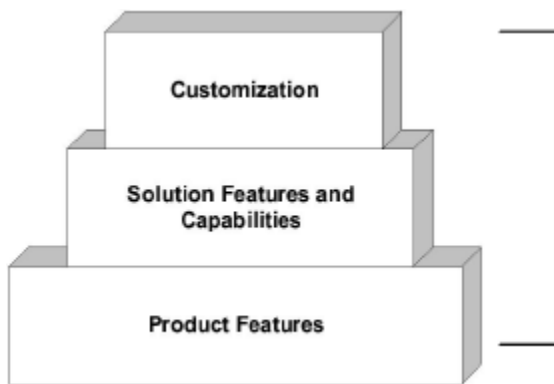
are understood and the project has been created, the senior project team can spawn work items from the Input domain artifacts. Multiple change requests can be related to the same work item. The Spawns relationship between the Input artifact and the work item is not required, but it could be helpful and is configured by default in the solution. The work item must be related to the project via its Project field. The senior project team creates change orders from the work item and these change orders authorize work in the non-input domains.

Installing the Solution

The Role of Solutions

PTC Integrity solutions build on PTC Integrity core product features by adding solution-specific capabilities and features. Core product and solution-specific features are pre-configured in a template to illustrate how the PTC Integrity solution can meet the needs and challenges of a given domain, such as Application Lifecycle Management, Agile Scrum or ITIL.

A solution template typically includes pre-defined workflows, types, relationships, ViewSets, reports, charts, and dashboards. You can customize a solution template to define a process or set of processes that work for your business environment. Think of PTC Integrity solutions as starting points or examples for the implementation of the PTC platform within your organization.



Installing the Application Lifecycle Management Solution

Before installing the solution, make sure you have the necessary permissions and users and groups set up.

Mandatory ACL Permissions

Before beginning, the administrative user installing the solution template must be granted certain permissions under the Access Control Lists (ACLs) for mks:im and mks:si. The ACLs store security, configuration, and administrative information for the PTC Integrity Server, workflows and documents, and configuration management. They work in conjunction with your network's authentication system to provide control over features and functions. Granting the necessary permissions ensures the installer can perform all the operations required to set up the solution on your system. To install the solution template, the following permissions are required:

Workflows and Documents (mks:im)

- Admin
- Login

Configuration Management (mks:si)

- AddMember
- ApplyProjectLabel
- Checkin
- Checkpoint
- CreateChangePackage
- CreateProject
- CreateSubProject
- Lock
- Login
- ModifyAuthor
- ModifyMemberRev
- OpenProject

For more information on configuring the ACL permissions, see the PTC Integrity Server Administration Guide.

Users and Groups

The users in the template reflect the role they have in an organization and define what activities they can perform. For example, a member of the Project Managers group creates Project items and has responsibility for creating the work breakdown structure. In addition, the column sets and ViewSets included in the template focus on user specific requirements information and tasks. The template contains a set of default groups which can be mapped to your organization's specific roles. An administrator can modify, add, or hide users and groups (and in some circumstances delete them). For information on PTC Integrity users and groups, see the PTC Integrity Server Installation and Configuration Guide.

Installing the Solution

Once the required permissions are in place, you can begin the installation process. The solution installer configures the system by mapping permissions for predefined users and group roles to your existing users and groups in PTC Integrity. For administering the solution, the installer also loads certain projects, states, fields, types, triggers, queries, reports, charts, ViewSets, and dashboards. As part of the installation process, you can choose to have a prefix applied to all workflow and document objects created by the installer.

You can also install the solution template from the command line interface. For more information on the `im installsolution` command, see PTC Integrity Server Administration CLI Reference Guide.

NOTE: Before you install the PTC solution template, you should back up your existing database and server files located in the Integrity Server/data directory. Follow the vendor's recommended procedures for the database you are using.

Installation Steps

1. Open the Administration Client and right-click the Workflows and Documents node in the tree pane. From the shortcut menu, select Install Solution. The Solution Installer wizard displays the Select Solution for Installation panel. The solution template file is pre-selected in the Select Solution field. From the drop down list, choose the solution template you want to install.
2. To continue, click Next. The Confirm Selection panel displays. This panel provides summary information about the solution you are installing.
3. Review the information to confirm your selection and click Next. The Select Solution Prefix panel displays.
4. Choose a prefix to apply to all created administrative objects. The template creates certain projects, states, fields, types, triggers, as well as other workflow and document objects. To distinguish the new objects from your existing ones, a prefix can be applied to the newly created objects. If your current database is not already configured, then you may also choose to set a blank prefix; however, if you set a blank prefix, subsequent templates may require a prefix upon installation. If you are working on a test system, you can choose to install with a blank prefix.
5. To continue, click Next. The Select Solution Group Mappings panel displays. **NOTE** If the solution you are installing contains fields with the same name as the machine you are installing on you may receive an error due to conflicts. Using the available lists, map each defined group on your system to the appropriate predefined group in the solution template. **NOTE** Ensure that the everyone group exists in PTC Integrity. If you need to create a new group to map to a pre-defined group role, you may create it in PTC Integrity and then return to this panel of the Solution Installer. To make the new group available for selection, click Refresh Realm.
6. To continue, click Next. The Select Solution User Mappings panel displays. Using the available lists, map each defined user on your system to the appropriate predefined user in the solution template.

NOTE: If you need to add a new user or modify group membership to map to a predefined user role, you can perform those tasks in PTC Integrity and then return to this panel of the Solution Installer. To make the new user available for selection, click Refresh Realm.

7. To continue, click Next. The Sample Data panel displays. Some PTC solution templates give you the choice to install sample data. Sample data includes items and (depending on the solution you are installing) can include configuration management data and other associated data. Sample data can be helpful if you intend to use this installation for evaluation and training; however, if you plan to use this installation for production work, PTC recommends that you clear the option and install without the sample data. Sample data is not easily deleted after installation. If you are installing sample data, you need the appropriate configuration management permissions.
8. If you are not installing sample data, clear the option for Install sample data, click Next, and continue to step 12. If you are installing sample data, select the option for Install sample data and type the name of the target directory for installing the sample configuration management data. Click Next to continue.

NOTE: The path specified must be the fully qualified directory path (case sensitive) on the PTC Integrity Server where the sample configuration management projects are saved. Use forward slashes when specifying the directory path. A panel displays the connection information for the PTC Integrity Server that hosts your configuration management data.

9. Review the information and click Next to continue.

NOTE: If your preferences include Prompt for Host Name and Port, the Select Server Connection panel displays. To connect to the PTC Integrity Server that hosts your configuration management data, do one of the following:

 - a. Choose the appropriate host name and port from the Connections list.
 - b. Specify a new connection by clicking New and typing the server host name and port number. To accept the information, click OK.
10. The Confirm Installation Parameters panel displays the parameters for installing the solution. Review the selected parameters and complete the installation by clicking Finish.
11. The required PTC Integrity objects are installed. If you chose to install sample data, additional PTC Integrity objects and pre-defined PTC Integrity projects and members are also installed.

IMPORTANT If the template installation fails, the PTC Integrity Server database can be left in an inconsistent state. Check the server and client-side logs and record the error. After recording the error, contact PTC Technical Support and restore your database and Integrity Server/data files from the backup.

Once the installation is complete, you may need to re-start your Administration Client in order for certain cached type properties to initialize.

12. Enable the revisioning trigger 'MKS.ALM: Increment Revision Major' by removing condition 'ID < 0' from the rule definition. The solution installer required that trigger to be ineffective, but it should be made effective when using the solution. This will automatically update revisions on changed requirements and test cases when their documents and test suites are set to state "In Review".

Solution Detail

Product or Application management

Overview

Product lifecycle management is performed by engineering and is the process of managing the entire lifecycle of a product from its conception, through design and manufacture, to service and disposal. A product is a group of hardware and/or software components that come together and are delivered to market.

Application management is performed by IT and is the process of deploying, monitoring, supporting, and decommissioning business applications and services throughout their lifecycle. An application is a group of software components designed around meeting a specific set of needs or functions.

Both products and applications are requested, planned, designed, developed, tested, and staged before they are brought to market by being deployed into a production or environment or sold directly to the consumer. Through the duration of its active use, the product or application as a whole, or the components and/or services that make it up, are created and changed through change requests and development projects. In this way, development projects move a product or an application from one version or release to another.

In addition, there are often many variations of the base product that are developed for different markets, such as specific regions, manufacturers, or carriers. The complexities of producing these variants in an efficient and cost effective manner, through reusing components and overall managing of the variants, only adds to the underlying challenges across the lifecycle.

In the ALM template, the Product type is used to track product related activities over the entire lifecycle. IT shops can equate the Product type to the Application type, which serves the same purpose. Product metrics such as cost, business value, and complexity help you decide whether to initiate new development for, continue maintaining, or end the life of the product.

Items of the Product type include the following information:

- metrics for the overall health of the projects for the product
- actual cost and effort to date for the product
- metrics for budget estimates, actuals, and averages for planned work
- metrics for effort estimates, actuals, and averages for planned work
- source code metrics to measure the complexity of the product's software components, including the number of lines of code, files, subprojects, and checkpoints
- customer satisfaction information in the form of survey data

Within the template, for example, in dashboards, reports and charts, users can drill down to the projects associated with the product, and review project activities and project metrics.

The fields, data, and metrics defined in the template Product type is an example of the type of information you may want to collect. You can add to or modify this information to suit the needs of your business or group.

Portfolio Management

Overview

Portfolio management is the process of managing a group of items that captures and reports on metrics over time. The collection of items being managed is called a portfolio. Senior executives such as CIOs, VPs, and Directors typically perform portfolio management activities.

Portfolio management helps CIOs and senior executives achieve four key goals:

- understand what products and applications cost in terms of the effort to develop and maintain them
- assist in prioritizing projects: deciding to decommission applications that are too costly or discontinue products that are not producing a good return in the market
- ensure a consistent and single-integrated view into project status and metrics
- use day-to-day work management activities to provide the information for decisions

Portfolio management makes product and application development more open to established business management practices by bridging the cultural divide between the technical developers and the project owners. Although a portfolio is typically project, product or application centered, you can customize the functionality illustrated in the ALM template to create portfolios of any object you want to manage with PTC Integrity, for example, services, work items, test objectives, tasks, or assets.

Portfolio Management in the ALM Template

The ALM template demonstrates project and product centered portfolios. Products are concrete offerings with many variants and versions that directly align to a market need. Projects follow a process from proposal and definition through execution and rollout. Projects can be used to manage the creation of a new product, variant, release or component, or simply manage a set of related actions or tasks. Metrics exposed at the project level are different than those exposed at the product level; however, the two sets are closely related. Project portfolio metrics feed into Products and roll up to the product portfolio. Together, the two metric types help support decisions, such as which projects to fund or which products to evolve or replace.

The portfolio capabilities demonstrated in the ALM template are tightly integrated with the product and application lifecycle process as well as the data repository, and are able to provide a window into the lifecycle by collecting the valuable information generated through daily application development transactions and processes. Users can drill down from the product level through projects, REQUIREMENTS, test cases and specifications to the change, work item, and test results level without leaving the system.

This enables you to generate status information on a portfolio, present real-time metrics across products, applications and projects, and report on historical trends at a variant, version and project level. For example, a CIO looks at her dashboard, which displays information about the various products

under her charge. Noticing that one of the charts is reporting metrics that fall outside of the acceptable range, she uses the PTC drill-down technology to open a more detailed graph on the active projects within the scope of the affected product. Immediately, she can recognize the individual project that is causing the red flag and by drilling down further can identify the requirement or work item that is out of alignment.

Product and Application Portfolio Management

Product and application portfolio management (PAPM) allows for analysis and reporting on the lifecycles of multiple products and their variants or applications. PAPM is used to manage a group of products or applications that are often loosely coupled to each other, but tightly aligned by business strategy or related to the same product family. It provides a way to create and analyze business-oriented metrics around the organizations assets, such as how diverse the product line is, how many variants are in play, how large the software applications are, how much value they bring to a company, or how much money it costs to maintain them.

PAPM looks at all products (or applications) together: comparing them to each other, assigning relative value, analyzing relative costs, and assessing overall satisfaction of business or market and company objectives. This is the top level of analysis, where the high-level business plan and Engineering or IT plan are created and evaluated. The analysis activities can result in changes to an individual product or product lines value, priority, scope, and projects. In the ALM template, product portfolios identify which products are under a given user's charge. They provide real-time metrics about the products in the user's portfolio and their associated projects. Product portfolios track information such as:

- total cost and effort to date for the products
- planned budget and effort for the currently active product projects
- budget and effort for product maintenance
- actual budget and effort for maintenance task for products and their components

Users can drill down to review details on each application and their associated projects. Using this data, decisions can be made whether to rebuild or replace a product, or even outsource a product's development work. Users can begin to prioritize and monitor variant or maintenance projects. They can review trends by creating charts that look at metrics such as estimated cost/effort, actual cost/effort and total cost/effort variance and plotting the change in these values over time.

Senior executives are also interested in measuring customer satisfaction with a product or product line. The ALM template provides one method of capturing this type of metric through the use of the Survey type. Individual customer survey data is captured in surveys that are linked to the product or project. By aggregating the survey results, you can show how a given product meets the needs it was designed for, compare its customer satisfaction rating with other products within the product line, and track the customer satisfaction trend over time to see if enhancements to the product release over release are improving customer satisfaction. The Product type shows the average satisfaction rating for each product over time. The template also captures product metrics and information in many other categories, for example, average budget and effort variance; the number of proposed, active, at risk, and completed projects; and maintenance data, such as the number of maintenance tasks, and the total maintenance cost and effort to date. Additional categories can be set up that allow you to analyze your product portfolio in many different ways to enable better decision making at a high level.

Project Portfolio Management

Project portfolio management (PPM) organizes a series of projects into a single portfolio that captures project objectives, costs, timelines, accomplishments, resources, risks, and other critical factors. Executives can regularly review project portfolios, allocate resources appropriately, and adjust projects to produce the highest departmental returns. PPM acts as a bridge between the operations group, whose priorities include strategies, business performance, stockholder satisfaction, and cash flow/income, and the projects group, whose priorities include schedules, project cost, project performance, scope/change control, and resources.

PPM also assesses the impact of each project on the overall business. If business drivers change, entire projects may have their resources, schedules, or scope revisited. Activities of individual projects also affect other projects, since an over budget, high-priority project takes resources from a lower-priority project.

Using the ALM template, you can compare metrics on various projects by reviewing metrics data for all the projects in your portfolio, including:

- estimates and actuals for project budgets
- estimates and actuals for project effort
- budget and effort variance for all projects
- health of all projects

Users can drill down into individual projects to review status, risk, cost, effort, and business value. They can also compare project details using reports such as the Project Overview report or charts like Active Projects per Product Cost Summary and Active Projects per Product Effort Summary. You can use historical reports and charts to monitor the projects and products in your portfolio across the business and view trends across time to ensure that efficiencies are being gained, not lost. For example, the Product Manager dashboard shows all the active projects for each of the products in your portfolio. This dashboard highlights product health, cost, and effort with the ability to drill deeper into the details of the product lifecycle to analyze quality, status of current projects, and information contributing to product health.

After analyzing current project data and trends, you can balance resources and schedules appropriately to produce the highest departmental returns.

For more information on how to work with the PTC Integrity platform capabilities that support the solution discussed in this section, read about:

- computed fields and query backed relationship fields in the *Integrity Server Administration Guide*
- creating charts and dashboards in the *Integrity Client User Guide*

Project Management

Overview

Project management is a methodical approach to planning and guiding project processes from start to finish. The focus of project management is to group development activities into a project and manage them as a single unit. Development activity data is used to generate additional information about the project as a whole. Project managers manage project and team efficiency, and measure tangible project variances and performance against milestones.

Project management includes such subdisciplines as demand management, resource management, document management, workflow support, billing and invoicing, and project contract management and support. Many of these areas can be managed using the capabilities of the PTC Integrity platform. Other areas are best managed using specific tools for specific tasks, for example, using Microsoft Project for defining the resources and schedule dependencies within a project.

Using the PTC Integrity integration with Microsoft® Office (MS) Project, you can make key project dates and cost information defined in MS Project visible in the PTC Integrity project item. As the project progresses, you can use the metrics data collected in the project to measure the status of the project against its milestone dates, and review progress details such as the total percentage of complete features. You can measure team efficiency by reviewing the cost, schedule, and effort variances provided for the project. You can drill down into the associated data, including requirements, functional specifications, source code, test plans, and documentation.

There are many industry guidelines and practices supporting project management, for example, the Project Management Institute Body of Knowledge. These guidelines can provide more information on the structure and management of projects.

For more information on how to work with the MS Project integration, see the *Integrity Integrations User Guide*.

Requirements Management

Overview

Requirements are defined during the early stages of a system development project as a specification of what should be implemented. They are descriptions about how the system should behave, a system property or attribute, or they may outline a constraint on the development process of a system. Requirements management is a term used to describe the creation, storage, and control, as well as the process surrounding the usage of individual requirements and sets of requirements.

A requirement might describe a:

- user-level facility (for example, “the word processor must include a spell checking and correction command”)
- general system property (for example, “the system must ensure that personal information is never made available without authorization”)
- specific constraint on the system (for example, “the sensor must be polled ten times per second”)
- constraint on the development of the system (for example, “the system must be developed using Ada”)

In the software development lifecycle, requirements identify the functions needed to meet a business objective and may provide details of their design and implementation. Because requirements drive development, they need to be linked to other parts of the software lifecycle such as design, development, testing, and deployment.

This linkage is called *traceability* and is essential to determine answers to value-add questions such as:

- What requirement or set of requirements describes this design?
- How is this requirement implemented within our source repository?
- What systems are impacted by these test failures?

Equally important is knowing which requirement introduced the instability in this component, or which customers need to be notified about the implementation changes in the design and what requirements are impacted.

An effective requirements management solution should:

- provide a way to capture and categorize requirements as needed by business
- provide a way to relate requirements and their associated artifacts with other requirements
- allow for any proposed changes to requirements to be analyzed for their impact on related requirements or development activities.
- allow for changes to be made easily, completely, and consistently while retaining the existing structure of the requirement set
- provide a requirement revision id for simplified identification, review and communication of changing requirements

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- provide automated communications of changes to requirements and when project requirements are complete
- provide a way to trace the origin of each component requirement and be able to refer to that requirement in future development efforts
- provide a useful way to leverage existing requirements, and their related artifacts, for use in other projects

Requirements management demonstrates how PTC Integrity can be configured to implement Requirements Configuration Management (RCM) concepts. The solution demonstrates requirements reuse and persistence as well as specific functionality like versioning and baselines all within a change management controlled, document-centric environment.

In this solution, requirements are artifacts in a repository that:

- are organized into structural hierarchies
- support branching and development paths
- belong to one project of many
- like PTC Source, have a rather limited workflow

With requirements as managed artifacts, the requirements management solution can demonstrate complex parallel development and RCM concepts, as well as address the needs and challenges of process driven software development organizations.

Additional information about requirements management:

- [Document Domains](#)
- [Requirements Management Models](#)
- [Requirements Authoring](#)
- [Document Authorization and Permissions](#)
- [Document Collaboration](#)
- [Requirement Reuse](#)
- [Requirements Publishing](#)
- [Requirements Change Control](#)
- [Requirements Traceability](#)

Learn More

View independent learning video: [Document View Overview](#)

Document Domains

Each domain consists of its own data model types that allow users to capture and organize information and control change to that information using a document structure. For example, the Requirement domain makes use of the Requirement Document, Requirement and Shared Requirement. These three types can be configured to suit the needs of specific users and groups from the Types view in the PTC Integrity Administration Client.

Each requirement item is represented in the system by a shared item, which contains the bulk of the information on the artifact and a reference to the shared item which stores document or project-specific information. The user sees the shared item and the reference to the shared item as a single requirement.

Change orders are attached to documents or content and direct users to make specific changes.

The following domains are represented in requirements management:

- **Input:** Requests for product changes often originate from many sources. Change requests, along with any customer documentation, such as industry standards documentation and other collateral, are considered the input for requirements documents. Logically, the first domain the solution introduces is called the Input domain. Input items are generally expressed in the voice of the customer.
- **Requirement:** After inputs are gathered, a requirements document can begin to evolve. Business analysts review inputs, author requirements, and then create logical traces between requirements and their related inputs. This next domain is called the Requirement domain and is the primary focus of the ALM solution template. Requirements are generally written in the voice of the manufacturer.

Downstream of requirements are two additional domains: the Specification domain and the Test domain, each of which can develop documentation and create traces to the requirements and requirements documents.

- **Specification:** The Specification domain is used by architects, designers, and software engineers who are creating technical or functional specifications from which tasks are assigned and developers can access and change source code. These artifacts describe how requirements will be implemented.
- **Test:** The Test domain is used for the test plans and test cases created to validate the associated requirements and specifications.

Requirements Management Models

There are several approaches to the way requirements and requirements documents can be created and shared within an organization; however, the focus is on the publish-subscribe model where one group produces specific artifacts for others to consume and the more free-form developer model where groups are able to share and reuse all artifacts.

Although the two models may seem to reside on opposite ends of the spectrum with respect to how they use requirements management solutions, there is often a crossover with one model making use of the other. Many organizations tend toward a balance of the two and end up using a hybrid of the two models.

Publish-Subscribe Model

In the Publish-Subscribe model, each publisher is a group of users who are focused on a particular technology or task. This model relies on the concept of business units or groups. The publisher makes snapshots (baselines) of their documents available, and for each snapshot there are a number of subscribers who refer to the document. These consumers never change the document and generally will not want it to change over time. The requirements author generally works within a document and does not look much further. This model requires tight process controls applied at the root of the document to guide usage of the entire structure.

Users tend to work in their own areas with few procedural controls needed. This model works well at a company where developers (programmers, requirements analysts, business analysts, QA analysts) tend to create products or components that are consumed by many users. It also works best if the developers work on similar schedules. The disadvantage of this approach is that the relationships created between documents must be managed carefully each time the published document is branched.

Developer Model

The Developer model is a highly concurrent, free-form model where every document is a potential starting point of a new document. Requirements are not packaged into manageable chunks for consumption by particular users or groups. Instead, each contributes to the understanding of the project and should be considered in its overall context, not strictly in isolation. The contributor's focus is the project, not just the document he or she is working on. Process controls can be applied to elements in the structure, rather than at the root. The majority of users work within a particular project for only a short while, then they move on to other projects. Users come and go within the lifetime of a project.

The concurrent development model works best when analysts and developers collaborate closely. The products or components they develop are generally developed most intensively for a specific project. After development is complete the project enters maintenance mode.

Requirements may be reused in subsequent releases, and they may be branched, but each independent branch has essentially one subscriber to the information: the project.

Requirements Authoring

Under the banner of a given project and directed by one or more change requests, the requirements author needs to create a Software Requirements Specification (SRS) document to capture the needs of a project.

You can import a requirement document from an external application, for example, MS Word, MS Excel, or MS Project, and prepare it for downstream use. After working with requirements in PTC Integrity, you can export them to an external application, print them, or turn them into Adobe Acrobat format (PDF) documents.

You can also create your own requirements using the Document view in PTC Integrity, or you can draw from the repository and blend existing and new requirements to create a document. Existing requirements may come from documents that were created for:

- past releases of the software (persistence)
- other projects which may be unrelated but that share needs (reuse)
- components specifically published by the business for reuse

Requirements can then change and evolve without affecting those original documents or their users, and projects after they are in the scope the new document.

The genealogy of each requirement and how it evolved is maintained within the system to provide complete traceability of that item.

Changing requirements are reflected in the requirement revision id. This provides a simple way to identify and communicate the exact revision of a requirement as they are changed during the authoring process and revised and discussed during a review. The revision id's are updated to reflect the specific process of the company, not every time there is an edit. In this way, they capture the meaningful points in the life of a requirement or document and can be used to easily view that point in the requirements history. This simplifies audits and communication between collaborating companies like an OEM and its suppliers.

Document Authorization and Permissions

In terms of permissions, editability, and visibility, the Document view (like every other PTC Integrity view) requires all of the applicable settings at the system, project, item and field level. If a given user is not able to see an item in a query, he or she will not be able to see it in the Document view either.

The Document view is described in detail in the *Integrity Client User Guide*.

Basic Permissions Mechanisms

The basic permissions mechanism is based on the PTC Integrity project the document or process item is found in. The document root and all of its content always belong to the same project. The triggers and data model commands enforce this rule. On the other hand, the shared item referenced by a domain may belong to a different project, usually because the content was copied from a document in a different project. A user who has permission to read a document also has permission to see contents exposed on the shared item, even if the user does not normally have permission to see contents in the shared item project.

Users are assigned to project-specific dynamic groups such as the Senior Project Team or the Project Team. Belonging to these groups grants privileges beyond the standard project permissions. In particular, a member of the senior project team can change a document's state.

Hierarchical Editability

A user must have permission to view the document before he or she can edit it. The authorization to edit a document applies to one or more documents and all content in the documents. Authorization is granted by relating a change order to the artifact using the Authorizes Changes To relationship. Generally, only a member of the senior project team can create such a relationship.

For example, to authorize changes to any content inside a document, the change order is related to the document root. However, the authorization can be granted to any requirement within the document, to multiple requirements in the same document, and even to requirements in different documents by way of similar multiple relationships.

If a user is granted authority to edit a document and makes changes, a synopsis of each change is recorded in the Changes Authorized logging field. When a user has multiple authorizations to change a document, changes are logged against the first change order the application encounters searching up the document hierarchy.

Multiple users may be granted authority to edit the same contents. In case of a concurrent edit collision, the application allows the first save to go through and the second saver is asked to resolve the conflicts, if there are any. Edit permissions need not be granted to all fields in the item. The change order permissions can be as broad or specific as you want. The sample change orders provided in the solution are intended as a starting point for further changes. Most likely you will want to impose custom requirements and other variations on your change order workflows.

Hierarchical editability is configured through solution definitions and base product configurations.

Document Editability

Document editability is similar to hierarchical editability except that the editability rule is established at the document root only. As a result, if authorization is denied at the document root it is denied throughout the entire document. Generally, document editability is related to criteria other than just being related to a change order; however, change order authorizations can also be calculated at the document level.

Document editability is configured through solution definitions and through base product configurations.

Document Collaboration

Using PTC ALM, many people can simultaneously contribute to the creation and maintenance of a document. For example, you are the primary author of a Requirements document and you want your colleague Ann Smith to work on a portion of it. There are a couple of ways you can collaborate with Ann:

- Ann could work on her portion of the document independently and at some point in the process send you a reference to it.
- You and Ann could both work on the same document at the same time. In this case you could minimize the possibility of both making changes to the same portion at the same time by relating change orders to different parts of the document.

You can assign one change order to the portion of document you are working on while Ann uses a different change order to indicate the portion of the document she is working on. If the change order authorities overlap, then there is the potential for edit conflicts. The editor minimizes this possibility by saving edits as soon as the user leaves the current row. In addition, PTC Integrity has conflict resolution features to address those rare situations when simultaneous edits do occur.

See your *Integrity Client User Guide* to learn about conflict resolution in items.

Requirements Reuse

Generally, a set of requirements change minimally from one release of a product to the next. Of course, some requirements change from one release to the next, but typically the changes are a small portion of the total requirements. A good requirements management solution makes it easy not only to introduce new requirements, but also to maintain and reuse the majority of unchanged requirements. A requirement that was introduced in one version or release of a product must continue in all subsequent versions until it is either modified or dropped. Each intervening version or release must be able to account for how the requirement was satisfied.

You can reuse requirements by copying one or more individual requirements or by selecting the root project or document and copying the entire hierarchy. The requirement or document is branched and the new version of each item references the old item. Performing a copy (or cut and paste) performs reuse within the solution. The system manages the underlying items and artifacts to appropriately reuse and share those items between documents and projects; as a result, unnecessary duplication in the repository is prevented while providing revision history and usage information.

To learn how to copy requirements content into different sections of the same document and other documents, see *Modifying Content*, in the Documents chapter of the *Integrity Client User Guide*.

Reusing Requirements From Other Projects

In addition to reusing requirements from one release to the next, you can also reuse requirements by sharing them across projects that are distinct but that share a common set of requirements. Reusing requirements allows you to leverage the work products and activities of similar projects. Your business may also create requirements that are specifically designed for reuse and make use of a publish-subscribe model to facilitate sharing.

Learn More

View independent learning video: [Reusing Requirements](#)

Requirements Publishing

A Requirements document is baselined when the current stakeholders agree that it has passed some threshold and is ready for the next phase of its evolution. When baselining, a label is used to associate a string value to an item at a particular point in time. Baselines are used to mark major release or milestone and apply to the entire tree under the baselined item. If a document that was previously baselined must be changed, it involves review/sign-off permissions. When a document is published it is made available to others.

Publishing is governed by your usage model. In a publish-subscribe environment, sharing permissions are only attributed to items in a certain state or phase. This is controlled through editability and project permissions. In the developer model publishing is not a concern at all as any point in time and any artifact can be shared and reused between documents and projects.

Requirements Change Control

After a document or an individual requirement is accepted, it needs to be locked down from further change. In the PTC ALM solution, the appropriate actions and notifications are assigned and addressed so that change to individual requirements can flow through the change request process. You could also configure the solution to have more detailed workflow on the requirements themselves. Under this scenario, the requirements stay in the Accepted state and any further change will force a branch of the requirement and reset the state on the branch so that new work can begin.

Requirements are governed by the process, workflow, and constraints surrounding the change order items. Change orders drive change in requirements just as tasks drive change in the source code for the development organization. More than one person can be assigned to a requirement and their workflow states completely independent of each other. Multiple users can edit a requirement and be notified of and resolve conflicts upon submission of item edits. An example of a model for requirements management might be the use of a limited workflow due to the fact that each requirement in the PTC ALM solution is contained in a repository.

Your business needs may require the configuration to behave differently. For example, the developer model discussed earlier would make use of more complex workflows for individual requirements. The PTC Integrity product is flexible in that it will allow you to configure your environment to suite your needs in this area.

The solution includes this change management functionality as a unified part of the overall requirements management tool rather than a separate solution that may or may not be integrated with the requirements. PTC's ALM architecture provides greater control over change to your requirements assets as well as full authorization, delegation, and traceability of all activities.

Changing Requirements

During the initial phases of a project it is likely that the requirements documents will be constantly changing. The logical model for this phase is the developer model that allows for multiple contributors who can author and manage the organization of the individual requirements. At some point during the development phase, the document will be baselined for communication beyond the requirements

domain. At this time, a more closed contribution model will be put in place. You will want to control what changes get into the document and how the document evolves over time.

During the later phase of the project, if a change to a document is required, an analyst or architect can submit a request for change and relate it to the specified document. It is likely that the project has a review board that would review the incoming request for change items and either approve or reject as appropriate.

Requests that are granted are communicated by the manager to the analyst through a change order. The manager then assigns the change order and attaches it to the applicable document or requirements. The change order grants the assigned user the authorization to make the necessary modifications. This significantly reduces the administrative overhead and simplifies the act of assigning work to individuals.

Once the changes are made, for example, additions or deletions, branches, or other modifications, the assigned user can then progress the change order along its workflow. At this time they can also associate the requirements themselves to the original request for change to notify the creator of the request as to how that request will be satisfied. Creating these links to requirements is called tracing.

The state transition of the requirement can occur when all attached change orders transition to their respective completed states. You can have a number of different workflows for change orders that reflect the differing needs of users. For example, one user might need a manager's signature to make a change, while another user does not.

Changing Shared Requirements

The process for changing a shared requirement is identical to one that is not shared. A change request is created and assigned through a change order. The difference with shared requirements is seen at the level of the system and how the system handles the underlying artifacts. When a requirement is shared between projects, if either project requires a modification to the version of the requirement that they are sharing, the requirement is branched and modifications continue along that branch.

Branching happens automatically when a user makes a modification to a significant field that causes the version of a document or related item to increment. Your administrator can determine which fields in your specific configuration are significant. A new copy of the requirement is created and added to the item history. The full history of a particular item can be reconstructed in a report that includes information about document branches. The ability to refer to known points in time for a given requirement provides the ability to use these versions as starting points for future work. Users with the applicable permissions can branch documents using the Document menu. For example, a project manager who wants to use an existing requirements document as a basis for a new requirements document in a new project.

When a requirement is shared between projects, changes to it are immediately seen and available to both projects through the use of suspect links.

Learn More

View independent learning video: [Viewing and Managing Changes in Your Requirements \(Baselines & Branches\)](#)

Requirements Traceability

Because PTC Integrity uses a common repository, you can access data from the different disciplines by linking individual items. You can then navigate the hierarchy of items through the Relationships view or through reports, and open and review individual items in the hierarchy.

This navigation of linked items provides traceability that is important for compliance, accountability, impact analysis, and audits. It enables you to root out individual components that consistently cause problems or confirm that all requirements have functional specifications and test cases so that they are developed and tested before the product is released or project milestones are reached.

In a complex, parallel-development environment, each SRS document is linked to a test plan as well as a functional or design specification. Individual requirements within the SRS are linked to other requirements in the same document, to more detailed requirements in other documents, and to individual functional specifications and test cases downstream.

During the lifecycle of a development project, changes may occur that have a potential impact on other aspects of the project. Business climates change, priorities shift, and environments evolve, and these fluctuations are felt throughout the application lifecycle. For example, if a change is made to a requirement, it could affect the functional specifications, tasks, and test cases associated with it; if code development is running late, it could affect the functional specification it is associated with, which in turn could affect other tasks and tests associated with the specification.

The hierarchy of linked items facilitates analyzing and communicating the impact of change. Relationship flags and e-mail notifications are PTC Integrity features that can be used to indicate when a linked item has changed.

Learn More

For more information about the Relationship view, relationship flags, or e-mail notification, see your *Integrity Client User Guide*.

View independent learning video: [Working with Relationships](#)

Development

Overview

The development capabilities of the ALM solution include support for Software Configuration Management as well as Change Management process for managing the evolution of source code artifacts.

By default, the solution template is configured to support the change management of source code with the Change Order and Defect process. These items are related to the project planning activities Work Items.

The central use case in this solution template is for Project Managers to create a work breakdown structure of Work Items to represent the development activity required for a given Product release. Developers assigned to Work Items will create Change Order tasks to modify the source code and implement the changes necessary to support a given specification or design. Throughout the project Defects may be discovered and assigned to developers which can also be used to modify the source code to implement resolutions.

The development model demonstrated in the ALM solution may also be substituted with other development methodologies such as the Agile solution template.

Test Management

Overview

Test management manages the process of testing a system or application that is being prepared for a release. Test management provides the QA manager, test engineers, and business analysts, as well as project managers and stakeholders, the necessary information to help assess the quality and readiness of the application or system under development.

The role of test management is to ensure that all bases for testing receive adequate test coverage, and defects discovered during testing are accurately tracked, evaluated, and resolved. This ensures the end product meets the stated requirements and meets acceptable functional and performance criteria.

Most organizations manage their testing effort either manually or through the use of commercial test management products. Manual test management techniques tend to be time consuming, error prone, and often do not ensure adequate test coverage. Manual systems also do not easily provide the necessary metrics or audit records.

Most commercial test management products are delivered as standalone solutions, creating an island within QA, disconnected from the rest of the team. Requirements management is typically performed via an external system requiring integration and duplication of data. Defect management is typically either delivered as a separate component requiring integration or as a module of the test management system that is not appropriate for use by the developers who must fix the defects. Project managers looking for complete information on the status of their project have no single system available that provides the comprehensive picture they require.

In the ALM Solution, test management is an integral part of the application lifecycle. This integrated approach ensures complete test coverage of all requirements; stimulates collaboration between developers, quality assurance, and business analysts; and maximizes efficiency, collaboration and traceability. The solution manages the process of test case development, test planning, and test execution, and reports data and metrics from all phases of the testing process.

Requirements-based Testing

The PTC ALM template provides an example of requirements-based testing. Requirements-based testing ensures that all requirements have tests planned and executed against them. The template can be customized to perform test planning and execution against other artifacts in the development process, such as functional specifications.

Grouping test cases by requirements helps in the breakdown and delegation of tasks by making it clear which items are related so they can be assigned to the same resources. It also gives test designers a good base to start test planning; they are not starting with a blank sheet every time, but already have a clear definition of what needs to be validated. Business analysts can provide high-level descriptions for the test cases for their requirements. Their input into test case specifications ensures that their requirements will be adequately tested. Being able to trace test results back to the requirements that they are verifying makes test cases more visible in the system, which helps with planning and

accountability. It also provides insight into the overall quality and completeness of deliverables through monitoring of test case completion and defect postings as a result of testing. All development changes made to fix the problem are directly linked to the defect, thus providing complete traceability back to the test case and the requirement.

Planning and Monitoring Testing

The test plan is used by QA managers to outline the overall test strategy for a project and provide status information on the progress of testing at a project level.

QA managers plan their overall test strategy for a project in a test plan. They can monitor test coverage and the ongoing status of the QA effort against the stated test plan, and evaluate the level of maturity of the software through defect management and other key test-related metrics. QA managers can use the following reports and charts:

- The Test Result Status chart shows the progression of test results against plan over a defined interval.
- The Requirements Test Coverage and Specification Test Coverage reports provide test coverage details of one or more requirement or specification documents.

Project managers for the application development project can use the following charts:

- The Project Total Defects Comparison and Open Defects By Priority charts assist in evaluating risk to the project.
- The Open vs. Closed Defects chart provides a clear indication of the progress being made over time by comparing defect trends to past projects.

Test Case Development and Execution

Test cases are authored as part of a test suite. Test suites can be grouped into a suite of suites and re-organized for execution purposes using a test group. Typically a test suite runs multiple times during the life of a project.

Test cases can be used to manage both manual and automated testing. For manual testing, test steps, expected results, and pass/fail criteria are detailed in the test case. For automated testing, a link to the external test script, prepared in an external automated test execution product, is detailed in the test case. The authoring of automated test procedures and test scripts is outside the scope of the solution.

Using revision ID's (ie like '2.1') during test case development aids in their authoring and management similar to revision id's on requirements. Revisions on both, simplify traceability by allowing easy identification of the revision level of a requirement or test case being traced.

Testing is carried out using a test session, which will reference the test suite, test group or test cases which are being tested. Like a test suite, the test session identifies the set of tests (fully detailed test cases) that need to be executed. For manual testing, the tester follows the documented test steps to execute the tests. For automated testing, the automated test execution framework provides adapter based integrations with external automated test execution tools. It connects with external automated

test execution products, runs the test cases that are included in the test session, and gathers and records the test results.

The Test Results Editor provides a focused environment where test engineers work. Results of manual testing can be entered, and test case failures can be related to existing defects or newly created defects. Attachments and annotations are also recorded. Test results captured via automation may also be displayed and reviewed within this editor. When a test session is complete, test engineers mark the test session as complete to publish the results. This updates metrics information on the test session which is used for reporting purposes.

Based on the test results, testers may create defects that are assigned to developers for resolution. Defect management involves prioritizing defects and assigning them or deferring them. Developers receive real-time notification of tasks assigned to them to resolve defects in the same system where they are created. The testers need to be told when the fixes are in place so that the test case can be re-tested.

Defect Management

Overview

Defect Management is a fundamental process for managing the introduction, acceptance, prioritization and resolution of defects discovered during development and after development has completed. PTC Integrity provides robust support for managing the defect process. Process and workflow capabilities allow defects to be properly managed and routed.

The ALM solution template demonstrates some of the basic concepts of Defect Management. More advanced Defect Management concepts may also be implemented for supporting activities such as the propagation of defects across releases, the measurement of defect density, as well as other metrics and indicators.

Logging

Defects can be logged directly by creating an item of type Defect or as a relationship to a failed Test Case. In either scenario, the person submitting the Defect may log important information to identify the way in which the Defect was discovered including a Summary, a Description, as well as any file attachments that provide additional information.

Categorization

Defects can be further classified and categorized to identify key attributes. The Affected Area field can be used to differentiate between Hardware, Software and Documentation defects. The Introduced During field can be used to specify the phase of development the Defect was introduced in: this helps to identify the root cause of a Defect. The Detected During field can be used to specify the phase of development in which the Defect was discovered: this helps to identify the number of phases this Defect has slipped. A Defect introduced during the requirements phase but not detected until the Production phase will be a very costly and significant Defect to resolve.

Acceptance and Prioritization

The Priority and Risk fields can enable a review board to identify the importance of the Defect and the overall risk it poses to the component affected. Once prioritized and reviewed by a review board, it will potentially be accepted and subsequently be counted as an accepted defect in various metrics.

Resolution

To resolve a Defect the type of fix is usually categorized by the Domain field. This could be a Requirements domain if it involves rewriting requirements, the Specification domain if it involves any redesign, the Test domain if a test case needs to be modified, or the Source domain if a code change is required. Once the domain is determined a user may be assigned. The assigned user will then use the Defect to authorize changes to the affected artifacts which are typically under change control.

Verification

Once a Defect is resolved, the person reporting it or a member of the testing team should be notified. Most Defects will be candidates for verification, requiring at a minimum some unit testing, but often requiring manual verification to ensure the Defect is completely resolved.

Release Management

Overview

The focus of release management is on deploying changes into an IT environment in a reliable, repeatable, and secured manner. As changes are developed and independently tested, they are packaged into a release for deployment. Release management ensures that the package is managed through each environment on its path to production.

Release management also contributes to the efficient introduction of changes by combining them into one release and deploying them as a unified package. The aim is to ensure all changes are released successfully in the least disruptive manner. In addition, release management acts as a hand-off point between application development teams who develop as well as test changes and the IT operations staff responsible for production implementation and monitoring.

The release management process is also vital to ensuring that a sufficient level of compliance is adhered to when introducing change to a live environment. Traceability from a source code change to its associated requirement is often key for demonstrating compliance.

Release management consists of several phases, including:

- release planning for the design, plan, and approach for production deployment
- packaging for bundling one or more changes into a unified package that can be deployed and, if needed, backed out
- testing release packages in pre-production environments ensures that the overall integration of components and acceptance by the stakeholders occurs before the production deployment can be approved
- communication to end users or stakeholders ensuring adequate notice and warning is given about the impact of a release
- distribution and installation to ensure that the release is physically distributed to the desired environments and that any installation tasks are executed making the release available to the consumers of the product or service

The process and workflow capabilities combined with the development operations technology partners, such as Electric Cloud, provide an ideal platform for implementing a release management solution. The process and workflow engine of PTC Integrity can manage the planning, communications, and approvals associated with a release while the development operations tools offer the ability to package, distribute, and install a release into your IT environment.

Solution Components

Type	Description
Change Request	Request changes to an existing product. Change requests do not authorize work directly but they can inform work items and document artifacts via the Informs relationship.
Change Order	Authorize changes to code and documents. Created mostly during project planning and as part of the analysis chain so that downstream work can be requested based on information in the upstream artifacts. Work can be requested upstream based on downstream analysis too, but often this kind of work is the result of a defect in the upstream analysis and therefore a Defect item is more appropriate.
Defect	Authorizes changes to code and documents. Created when test cases fail. Spawned from document artifacts if a defect is discovered during analysis. Created if code inspection discovers a problem. Defects can be anticipated during planning in a general sense but are created only during the latter stages of the product lifecycle in response to problems discovered in the product.
Work Item	Container for work having common characteristics. Often the work item is a feature being implemented. Sometimes it is a container for miscellaneous activities like bug fixing that has no other container.
Test Session	Process item for test execution tasks.
Test Objective	Captures a specific goal of testing and the scope of that testing. Primarily used by a Test Manager to assign testing work and to track progress of testing. Each test engineer will then relate their Test Sessions to the Test Objective they are intending to satisfy.
Test Plan	Describes the high level goals of testing and aggregates the testing metrics from each of the related Test Objectives. This type is used primarily by the Test Manager to describe the scope of testing and to measure the progress of testing.
Test Step	A specific procedure of a test case. Test Steps may be created uniquely for a Test Case or published to the Library project to be shared across multiple Test Cases.
Survey	Customer satisfaction during and after the completion of a project is important for continuous improvement of process and delivery. This type demonstrates how a simple user survey could be implemented to track this metric for projects and product (or application) deliverables.
Risk	Documents project risks and tracks mitigation activities.
Portfolio	Tracks a group of projects or products and exposes metrics associated with those objects
Product	A long-lived application or collection of source code whose capabilities are built, maintained and expanded by a series of projects.

Project	Represents a project having a schedule, a budget and deliverables.
Library	A container for reusable assets or templates.
MKS Solution	This type holds properties common to the application lifecycle management solution
Input Document	Solutions use instances of this Type to designate the root of the document
Input	Input documents contain instances of this type to create the document structure and to reference shared content. This is a node type in the document model.
Shared Input	Shared content in the solutions data model
Requirement Document	Solutions use instances of this Type to designate the root of the document.
Requirement	Requirements documents contain instances of this type to create the document structure and to reference the shared content. This is a node type in the document model.
Shared Requirement	Shared content in the solutions data model
Specification Document	Solutions use instances of this Type to designate the root of the document
Specification	Specification documents contain instances of this type to create the document structure and to reference shared content This is a node type in the document model.
Shared Specification	Shared content in the solutions data model
Test Suite	Solutions use instances of this Type to designate the root of the document
Test Case	Test suites and test groups contain instances of this type to create the document structure and to reference shared content. This is a node type in the document model.
Shared Test Case	Shared content in the solutions data model
Test Group	Document root type for views on test suites.

Type Properties

Type Properties for type: Change Order

Key	Value	Description
MKS.RQ.Class	Change Order	(PTC Only) Identifies to triggers that this type of item can authorize document changes and can create change packages.
MKS.RQ.ProjectIsReassignable	via relationship	(PTC Only) The project to which this change order belongs is determined ultimately by the container hierarchy having the Project item at the root.
MKS.RQ.WBSUpRelationship	Change Order For	(PTC Only) The containing relationship for the container hierarchy having the Project item at the root.

Type Properties for type: Change Request

Key	Value	Description
MKS.RQ.Class	Change Request	(PTC Only) Identifies to triggers that this type of item is used to request changes to the product.

Type Properties for type: Defect

Key	Value	Description
MKS.RQ.Class	Change Order	(PTC Only) Identifies to triggers that this type of item can authorize document changes and can create change packages.
MKS.RQ.ProjectIsReassignable	via relationship	(PTC Only) The project to which this task belongs is determined ultimately by the container hierarchy having the Project item at the root.
MKS.RQ.WBSUpRelationship	Defect For	(PTC Only) The containing relationship for the container hierarchy having the Project item at the root.

Type Properties for type: Input

Key	Value	Description
MKS.RQ.Editability.1	Project,Contains,References,Contained By,Text,Category,Text Attachments	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.1	Project,Contains,References,Contained By,Validated By,Text,Category,Text Attachments,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.2	Decomposes To	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.2 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".

Type Properties for type: Input Document

Key	Value	Description
MKS.RQ.Domain	Input	(Configurable) The solution domain this document type is used with. Change this value only if you are copying this type to create a new domain.
MKS.RQ.Editability.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true".
MKS.RQ.Editability.Document.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".
MKS.RQ.item.editissue.title	Properties for {Summary}	(Configurable) Edit item title override. The application substitutes field names in curly braces with the value.

Type Properties for type: Library

Key	Value	Description
MKS.RQ.DocumentedByFieldName	Documented By	(Configurable) The name of the relationship field containing references to all the top-level documents in this project.

Type Properties for type: MKS Solution

Key	Value	Description
MKS.isRQ		(PTC Only) Flag indicating that this type contains solution-wide properties for the PTC ALM solution
MKS.RQ.AcceptChangeRequestsFieldName	Accept Change Requests	(Configurable) Name of boolean field exposed on the item backing the project which, when true, indicates that the project accepts change requests.
MKS.RQ.AuthorizedChangeCountFieldName	Authorized Change Count	(PTC Only) Name of the integer field that is incremented each time a task authorizes a document change.
MKS.RQ.AuthorizingChangeOrderFieldName	Authorizing Change Order	(PTC Only) Name of the field containing the ID of the change order that authorized the most recent change.
MKS.RQ.BackwardChangeOrderRelationshipFieldName	Authorizes Changes To	(PTC Only) Name of the relationship from change order to document or content indicating which items the change order authorizes changes to.
MKS.RQ.BaselineLabelSt	In Review:In	(Configurable)

ates	Review,Published:Published,Delivered:Delivered,Retired:Retired	States that trigger automatic document baseline labelling. For each state, the label to apply. Syntax: [State:Label][,State:Label][, ...]. See MKS.RQ.BaselinePrefix for how the label is constructed.
MKS.RQ.BaselinePrefix	Baseline:	(Configurable) Automatic labels start with this prefix. First time document transitions to the state the label is constructed + " " + where is defined in BaselineLabelStates. Subsequently 2, 3, etc are added to the end.
MKS.RQ.ChangeOrderClosedReport	Change+Order+Detail	(Configurable) The name of the report that the notification email links to when the "Notify When Change Order is Closed" trigger is invoked. Note we must use + instead of " " because of a javascript limitation.
MKS.RQ.ChangeOrderPhaseFieldActivePhase	Open	(PTC Only) The name of the active phase for change

		orders. The pertinent phase field is named in ChangeOrderPhaseFieldName.
MKS.RQ.ChangeOrderPhaseFieldName	Task Phase	(PTC Only) The name of the phase field for change orders. This is not necessarily the primary phase field.
MKS.RQ.ChangeOrderRelationshipFieldName	Changes Authorized By	(PTC Only) The name of the relationship field between documents and contents and the change orders that authorize changes on the artifacts.
MKS.RQ.ChangeOrderReopenedStateName	Reopened	(PTC Only) The name of the reopened state for change orders.
MKS.RQ.ChangeOrderRestrictedStateName	Restricted	(PTC Only) The name of the restricted state for change orders - used in PTC triggers.
MKS.RQ.ChangeRequestAllocatedStateName	Allocated	(PTC Only) The name of the allocated state for change requests.
MKS.RQ.ChangeRequestUnallocatedStateName	Unallocated	(PTC Only) The name of the unallocated state for change requests.
MKS.RQ.ChangesAuthorizedFieldName	Changes Authorized	(PTC Only) The name of the

		logging field on the change order that lists artifact changes attributable to the change order.
MKS.RQ.CoupletRelationshipFieldName	References	(PTC Only) The name of the relationship field from a node to a shared item or segment root.
MKS.RQ.DecomposesToFieldName	Decomposes To	(PTC Only) Name of the trace field between inputs and requirements.
MKS.RQ.DocInReviewReport	Document+Content	(Configurable) The name of the report that the notification email links to when the "Notify When Document is In Review" trigger is invoked. Note we must use + instead of " " because of a javascript limitation.
MKS.RQ.DocNeedsChangesReport	Document+Content	(Configurable) The name of the report that the notification email links to when the "Notify Executives When Document Needs New Changes" trigger is invoked. Note we must use + instead of " " because of a javascript limitation.

MKS.RQ.DocumentChurnFieldName	Document Churn from Initial Baseline	(PTC Only) The name of the churn field whose running total is calculated once the initial baseline field is set.
MKS.RQ.DocumentDeltaChurnFieldName	Yesterday Document Churn	(PTC Only) The name of the daily churn field which is added to the running total once the initial baseline field is set.
MKS.RQ.DocumentedByFieldName	Documented By	(PTC Only) The name of the relationship field between the project item and the root segments. Items related via this field are considered top-level documents.
MKS.RQ.DocumentInReviewStateName	In Review	(PTC Only) The name of the In Review document state.
MKS.RQ.DocumentReviewPendingStateName	Review Pending	(PTC Only) The name of the Review Pending document state.
MKS.RQ.DocumentsFieldName	Documents	(PTC Only) The name of the relationship field between segment roots and items backing the project. Items related via this field are considered top-

		level documents.
MKS.RQ.DocumentShortTitleFieldName	Document Short Title	(PTC Only) The short version of the document title. Whenever this field is changed the full name is constructed in the Document Name script based on this field's value and stored in the Summary and Shared Text fields.
MKS.RQ.DocumentTitleFormat	{Document Short Title}	(Configurable) The default prefix used to construct the full name of the document. This property is used by the Document Name trigger.
MKS.RQ.EditabilityField.1	Valid Change Order	(PTC Only) The boolean field that determines whether the user may edit the segment due to an attached Change Order assigned to the current user and in the correct state.
MKS.RQ.EditabilityField.Document.1	Allow Edits	(PTC Only) The boolean field that determines whether the user may edit the main text fields on the contents of the document.
MKS.RQ.EditabilityField.	Allow Traces	(PTC Only) The

Document.2		boolean field that determines whether the user may edit the trace relationships to the contents of the document.
MKS.RQ.EditabilityField. Document.3	Allow Links	(PTC Only) The boolean field that determines whether the user may edit the external relationships to the contents of the document.
MKS.RQ.Finder.Relation ship	Contains,References,Documented By,Tests	(PTC Only) Comma-separated list of relationships to follow when presenting the Finder dialog
MKS.RQ.IncludeReferen ceFieldName	IncludeReference	(PTC Only) Name of boolean field indicating that the subsegment reference is an inclusion rather than a reference.
MKS.RQ.IncludeSubseg mentInMetricsFieldNam e	Include Subsegment in Metrics	(PTC Only) Field which, if set on a node that references a subsegments, indicates that the subsegment's metrics are to be included in the metrics for the project.
MKS.RQ.InformsFieldNa me	Change Request For	(PTC Only) Name of the relationship

		field that contains work items or test objectives that are informed by this change request.
MKS.RQ.InitialBaselineFieldname	Initial Baseline	(PTC Only) The name of the field which, when set, signals to start accumulating churn metrics and other metrics.
MKS.RQ.item.addrelatedtests.findersettings	"title=Select tests to run","query=Finder Projects and Test Objectives","additionalFilter=((subquery[Finder Projects]) or (field[ID] = {{ID}}))","focusIssueID={{ID}}","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when adding test suites, test groups or test cases to a test objective or test session using the GUI. See the Solutions Guide for more information.
MKS.RQ.LastVerdictType	Last Verdict Type	(PTC Only) The name of the field containing the type of the last verdict: pass, fail, other or "not run".
MKS.RQ.NeedsNewChangesFieldName	Needs New Changes	(PTC Only) Name of field on segment root that, when set to True, sends a notification to members of the executive group indicating that changes are needed on the document.
MKS.RQ.OpenUnassigned	Open Change Order Count	(PTC Only) The

dCOCOUNTFieldName		name of the document field containing the open change order count.
MKS.RQ.postbranch.edit.field	Post Branch Edit	(PTC Only) Needed by the REQUIREMENTS solution to help enforce naming conventions.
MKS.RQ.recordSharedTestCaseIDFieldName	Record Results As Shared	(PTC Only) The logical field on a test case to control results sharing. When false, results recorded for a test case with reference mode share will not be listed as results on the test case that is being shared. Otherwise they will be listed.
MKS.RQ.RelationshipTraceFieldName	Is Related To	(PTC Only) The name of the peer trace relationship.
MKS.RQ.ReportFooterText	Confidential - For Internal Use Only	(Configurable) This text will appear in the footer of all reports included in this solution
MKS.RQ.RequireChangeOrdersFieldName	Change Order Authorizations In Effect	(PTC Only) The field on the project's backing item that indicates whether change orders are used in the project.
MKS.RQ.RetiredStateIna	Inactive	(PTC Only) The

ctivePhase		name of the phase which indicates that the item is retired or inactive.
MKS.RQ.RetiredStatePhaseFieldName	Retired States	(PTC Only) The name of the phase field which is used to indicate that an item is in one of its retired, or inactive states.
MKS.RQ.ReuseFieldAuthorValue	Author	(PTC Only) The 'author' reference mode pick value as declared on the reference mode field.
MKS.RQ.rm.content.createtrace.finderSettings	"title=Find item(s) to trace to","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when creating traces via Content Trace menu. See the Solutions Guide for more information.
MKS.RQ.rm.content.includecontent.finderSettings	"title=Find a document to include","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when including a document into the current document via Content Include menu. See the Solutions Guide for more information.
MKS.RQ.rm.content.includedocument.finderSettings	"title=Find a location to include the current document into","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when including the selected document into

		another document via Content Include Into menu. See the Solutions Guide for more information.
MKS.RQ.rm.content.insert.content.finderSettings	"title=Find content to insert","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when inserting content from another document into the current document via Content Insert Content From Document... menu. See the Solutions Guide for more information.
MKS.RQ.rm.content.insertcontent.finderSettings	"title=Find a document to insert","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when inserting a document into the current document via Content Insert menu. See the Solutions Guide for more information.
MKS.RQ.rm.content.insertdocument.finderSettings	"title=Find a location to insert the current document into","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when inserting the selected document into another document via Content Insert Into menu. See the Solutions Guide for more

		information.
MKS.RQ.rm.content.trace.item0.type	separator	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item1.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.content.trace.item1.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.content.trace.item1.name	Downstream Traces	(Configurable) Custom menu name
MKS.RQ.rm.content.trace.item1.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.content.trace.item1.SimpleRequirementsChecker.Cardinality	1+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.content.trace.item1.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item1.ViewRef	rm.view8	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.content.trace	"title=Downstream	(Configurable)

e.item1.viewSettings	Traces","tabTitle=Downstream Traces","traverseFields=Contains,Decomposes To,Satisfied By,Validated By","structureFieldDisplayFormat={Category}{Text}{Summary}","structureFieldIconDisplayField=Category","displayForwardFields=false","displayBackwardFields=false","expandLevel=3","saveSettings=false"	Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.content.trace.item2.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.content.trace.item2.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.content.trace.item2.name	Upstream Traces	(Configurable) Custom menu name
MKS.RQ.rm.content.trace.item2.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.content.trace.item2.SimpleRequirementsChecker.Cardinality	1+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.content.trace.item2.type	item	(Configurable) Type of menu entry: Either item or separator.

MKS.RQ.rm.content.trace.item2.ViewRef	rm.view9	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.content.trace.item2.viewSettings	"title=Upstream Traces","tabTitle=Upstream Traces","traverseFields=Contains,Decomposed From,Satisfies,Validates","structureFieldDisplayFormat={Category}{Text}{Summary}","structureFieldIconDisplayField=Category","displayForwardFields=false","displayBackwardFields=false","expandLevel=3","saveSettings=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.content.trace.item3.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.content.trace.item3.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.content.trace.item3.name	Peer Traces	(Configurable) Custom menu name
MKS.RQ.rm.content.trace.item3.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.content.trace.item3.SimpleRequirement	1+	(Configurable) Command

entsChecker.Cardinality		cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.content.trace.item3.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item3.ViewRef	rm.view10	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.content.trace.item3.viewSettings	"title=Peer Traces", "tabTitle=Peer Traces", "traverseFields=Contains,Is Related To,Is Related To", "structureFieldDisplayFormat={Category}{Text}{Summary}", "displayForwardFields=false", "displayBackwardFields=false", "expandLevel=3", "saveSettings=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.content.trace.item4.type	separator	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item5.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.content.trace.item5.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.content.trace.item5.name	Authorizations	(Configurable) Custom menu name

MKS.RQ.rm.content.trace.item5.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.content.trace.item5.SimpleRequirementsChecker.Cardinality	1+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.content.trace.item5.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item5.ViewRef	rm.view11	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.content.trace.item5.viewSettings	"title=Authorizations","tabTitle=Authorizations","traverseFields=Contained By,Changes Authorized By,Change Order For,Defect For","structureFieldDisplayFormat={Category}{Text}{Summary}","displayForwardFields=false","displayBackwardFields=false","expandLevel=3","saveSettings=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.content.trace.item6.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im		

viewsegment)		
MKS.RQ.rm.content.trace.item6.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.content.trace.item6.name	Spawned Tasks	(Configurable) Custom menu name
MKS.RQ.rm.content.trace.item6.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.content.trace.item6.SimpleRequirementsChecker.Cardinality	1+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.content.trace.item6.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item6.ViewRef	rm.view12	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.content.trace.item6.viewSettings	"title=Spawned Tasks","tabTitle=Spawned Tasks","traverseFields=Contains,Spawns","structureFieldDisplayFormat={Category}{Summary}{Text}","displayForwardFields=false","displayBackwardFields=false","expandLevel=3","saveSettings=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.content.trace.item7.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im		

issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.content.trace.item7.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.content.trace.item7.name	References	(Configurable) Custom menu name
MKS.RQ.rm.content.trace.item7.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.content.trace.item7.SimpleRequirementsChecker.Cardinality	1+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.content.trace.item7.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item7.ViewRef	rm.view13	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.content.trace.item7.viewSettings	"title=References","tabTitle=References","traverseFields=References,ReferencedBy","structureFieldDisplayFormat={Category}{Text}{SharedText}","displayForwardFields=false","displayBackwardFields=false","expandLevel=3","saveSettings=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the

		comma separating the settings.
MKS.RQ.rm.content.trace.item8.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.content.trace.item8.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.content.trace.item8.name	Shares	(Configurable) Custom menu name
MKS.RQ.rm.content.trace.item8.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.content.trace.item8.SimpleRequirementsChecker.Cardinality	1+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.content.trace.item8.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.content.trace.item8.ViewRef	rm.view18	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.content.trace.item8.viewSettings	"title=Shares", "tabTitle=Shares", "traverseFields=Shares,SharedBy", "structureFieldDisplayFormat={Category}{Text}", "displayForwardFields=false", "display	(Configurable) Settings used by this command, in the format

	BackwardFields=false","expandLevel=3","saveSettings=false"	"setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.createfromtemplate.finderSettings	"title=Find a template document","query=Finder Template Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when copying a template document via the Document Create From Template menu.
MKS.RQ.rm.document.includedocument.finderSettings	"title=Find a location to include the current document into","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when including the current document into another document via Document Include Into menu. See the Solutions Guide for more information.
MKS.RQ.rm.document.insertdocument.finderSettings	"title=Find a location to insert the current document into","query=Finder Projects","fields=Structure","nodeDisplayFields={ID} {Category}-{Text}{Summary}","showFieldNodes=false"	(Configurable) Settings for finder dialog when inserting the current document into another document via Document Include Into menu. See the Solutions Guide for more information.
MKS.RQ.rm.document.open.finderSettings	"title=Find a document to open","query=Finder	(Configurable) Settings for finder

	Projects","fields=Structure","nodeDisplayFields={ID} {Category}- {Text} {Summary}","showFieldNodes=false"	dialog when opening a document via Document Open menu. See the Solutions Guide for more information.
MKS.RQ.rm.document.open.viewSettings	"structureFieldIconDisplayField=Category","outlineColumns=Structure","availableContexts=Authoring,Restricted Authoring,Impact Analysis,Tracing,Testing Status"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.viewdocument.viewSettings	"structureFieldIconDisplayField=Category","outlineColumns=Structure","availableContexts=Authoring,Restricted Authoring,Impact Analysis,Tracing,Testing Status"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.views.item0.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		

MKS.RQ.rm.document.views.item0.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.document.views.item0.name	My Active Tasks	(Configurable) Custom menu name
MKS.RQ.rm.document.views.item0.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.document.views.item0.SimpleRequirementsChecker.Cardinality	0+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.document.views.item0.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.document.views.item0.ViewRef	rm.view1	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.document.views.item0.viewSettings	"title=Active Tasks","tabTitle=Active Tasks","appendQueryToTitle=false","query=My Active Tasks"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.views.item1.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		

ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.document.views.item1.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.document.views.item1.name	My Current Work Items	(Configurable) Custom menu name
MKS.RQ.rm.document.views.item1.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.document.views.item1.SimpleRequirementsChecker.Cardinality	0+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.document.views.item1.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.document.views.item1.ViewRef	rm.view2	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.document.views.item1.viewSettings	"title=Current Work Items","tabTitle=Current Work Items","appendQueryToTitle=false","query=My Current Work Items"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating

		the settings.
MKS.RQ.rm.document.views.item2.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.document.views.item2.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.document.views.item2.name	Change Requests	(Configurable) Custom menu name
MKS.RQ.rm.document.views.item2.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.document.views.item2.SimpleRequirementsChecker.Cardinality	0+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.document.views.item2.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.document.views.item2.ViewRef	rm.view3	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.document.views.item2.viewSettings	"title=Change Requests","tabTitle=Change Requests","appendQueryToTitle=false","query=Change Requests"	(Configurable) Settings used by this command, in the format "setting=value"[,"s

		etting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.views.item3.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.document.views.item3.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.document.views.item3.name	Project Documents	(Configurable) Custom menu name
MKS.RQ.rm.document.views.item3.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.document.views.item3.SimpleRequirementsChecker.Cardinality	0+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.document.views.item3.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.document.views.item3.ViewRef	rm.view4	(Configurable) Name of configurable view used by this

		custom menu.
MKS.RQ.rm.document.views.item3.viewSettings	"title=Project Documents","tabTitle=Project Documents","query=Finder Project Documents","appendQueryToTitle=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.views.item4.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.document.views.item4.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.document.views.item4.name	Libraries	(Configurable) Custom menu name
MKS.RQ.rm.document.views.item4.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.document.views.item4.SimpleRequirementsChecker.Cardinality	0+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.document.views.item4.type	item	(Configurable) Type of menu

		entry: Either item or separator.
MKS.RQ.rm.document.views.item4.ViewRef	rm.view5	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.document.views.item4.viewSettings	"title=Library Documents","tabTitle=Library Documents","query=Finder Library Documents","appendQueryToTitle=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.views.item5.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.document.views.item5.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.document.views.item5.name	Templates	(Configurable) Custom menu name
MKS.RQ.rm.document.views.item5.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.

MKS.RQ.rm.document.views.item5.SimpleRequirementsChecker.Cardinality	0+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.document.views.item5.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.document.views.item5.ViewRef	rm.view6	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.document.views.item5.viewSettings	"title=Templates","tabTitle=Template Documents","query=Finder Template Documents","appendQueryToTitle=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.document.views.item6.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.rm.document.views.item6.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.rm.document.views.item6.name	All Documents	(Configurable) Custom menu name
MKS.RQ.rm.document.views.item6.SelectionType	None	(Configurable) May be None,

e		SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.rm.document.views.item6.SimpleRequirementsChecker.Cardinality	0+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.rm.document.views.item6.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.rm.document.views.item6.ViewRef	rm.view7	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.rm.document.views.item6.viewSettings	"title=All Documents","tabTitle=All Documents","query=All Finder Project Documents","appendQueryToTitle=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.rm.view1.Name	Active Tasks	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view1.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view1.ViewL	Loading Active Tasks...	(Configurable)

oaderMessage		Message displayed while view is being loaded.
MKS.RQ.rm.view10.DynamicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.RelationshipsWindow if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view10.Name	Peer Traces	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view10.TabIcon	RelationshipTree16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view10.ViewLoaderMessage	Loading Peer Traces...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view11.DynamicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.RelationshipsWindow if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view11.Name	Authorizations	(Configurable) View name as displayed on GUI

		tab.
MKS.RQ.rm.view11.Tabl con	RelationshipTree16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/co mmon subfolder.
MKS.RQ.rm.view11.View LoaderMessage	Loading Authorizations...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view12.Dyn amicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.Re lationshipsWindo w if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view12.Nam e	Spawned Tasks	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view12.Tabl con	MoveCPEntry.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/co mmon subfolder.
MKS.RQ.rm.view12.View LoaderMessage	Loading Spawned Tasks...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view13.Dyn amicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.Re lationshipsWindo

		w if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view13.Name	References	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view13.TabIcon	RelationshipTree16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view13.ViewLoaderMessage	Loading References...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view14.DynamicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.RelationshipsWindow if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view14.Name	Test Status	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view14.TabIcon	RelationshipTree16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.

MKS.RQ.rm.view14.ViewLoaderMessage	Loading Test Status...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view15.Name	Test Objectives	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view15.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view15.ViewLoaderMessage	Loading Test Objectives...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view16.Name	Test Sessions	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view16.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view16.ViewLoaderMessage	Loading Test Sessions...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view17.Name	Open Defects	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view17.TabIcon	Issues16.gif	(Configurable) Icon to be

		displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view17.ViewLoaderMessage	Loading Open Defects...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view18.DynamicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.RelationshipsWindow if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view18.Name	Shares	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view18.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view18.ViewLoaderMessage	Loading Shares view...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view2.Name	Work Items	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view2.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab.

		Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view2.ViewLoaderMessage	Loading Work Items...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view3.DynamicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.RelationshipsWindow if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view3.Name	Change Requests	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view3.TabIcon	RelationshipTree16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view3.ViewLoaderMessage	Loading Change Requests...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view4.Name	Project Documents	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view4.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in

		the client's etc/resources/common subfolder.
MKS.RQ.rm.view4.ViewLoaderMessage	Loading Product Documents...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view5.Name	Libraries	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view5.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view5.ViewLoaderMessage	Loading Libraries...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view6.Name	Templates	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view6.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view6.ViewLoaderMessage	Loading Templates...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view7.Name	All Documents	(Configurable) View name as displayed on GUI

		tab.
MKS.RQ.rm.view7.TabIcon	Issues16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view7.ViewLoaderMessage	Loading All Documents...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view8.DynamicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.RelationshipsWindow if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view8.Name	Downstream Traces	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view8.TabIcon	RelationshipTree16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view8.ViewLoaderMessage	Loading Downstream Traces...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.rm.view9.DynamicViewClass	mks.ic.ci.ui.swing.RelationshipsWindow	(Configurable) Either mks.ic.ui.swing.RelationshipsWindow

		w if the view is allowed to be dynamically driven from another view, or not specified at all.
MKS.RQ.rm.view9.Name	Upstream Traces	(Configurable) View name as displayed on GUI tab.
MKS.RQ.rm.view9.TabIcon	RelationshipTree16.gif	(Configurable) Icon to be displayed on tab. Must be found in the client's etc/resources/common subfolder.
MKS.RQ.rm.view9.ViewLoaderMessage	Loading Upstream Traces...	(Configurable) Message displayed while view is being loaded.
MKS.RQ.RootDocumentFieldName	Root Document	(PTC Only) Name of boolean field that indicates that the document should be a root document for the project.
MKS.RQ.SatisfiedByFieldName	Satisfied By	(Configurable) Name of the trace field between requirements and test cases.
MKS.RQ.SegmentConstrainedPhaseName	Constrained	(PTC Only) The name of the document phase in which editability constraints are applied, usually hierarchical editability and

		usually requiring the use of change orders.
MKS.RQ.SegmentOpenPhaseName	Open	(PTC Only) The name of the document phase in which editability constraints are not applied, thus not requiring the use of change orders.
MKS.RQ.SegmentRestrictedPhaseName	Restricted	(PTC Only) Name of the document phase during which no change orders can be attached to the document.x
MKS.RQ.selftrace	<input type="checkbox"/>	Is Related To
	Is Related To	
	Is Related To	
	Is Related To	
	Is Related To	
	Is Related To	(Configurable) Kind of relationship to be created between two similar endpoints via the Content Trace menu.
MKS.RQ.SeniorProjectTeamGroupName	Senior Project Team	(PTC Only) Name of the dynamic group

		responsible for managing project workflow, reviewing changes and assigning change orders.
MKS.RQ.SharedTextFieldName	Shared Text	The name of the primary text field exposed on shared items and segment roots.
MKS.RQ.SpawnedByFieldName	Spawned By	(PTC Only) Name of the change order relationship field that references the item that was responsible for the creation of the change order.
MKS.RQ.SpawnsFieldName	Spawns	(PTC Only) Name of the relationship field that references the change order created as a

		result of the current item.
MKS.RQ.StakeholderFieldName	Stakeholders	(PTC Only) Name of the pick field that lists stakeholders on an item.
MKS.RQ.SummaryFieldName	Summary	(Modify only if the Summary field is renamed) The name of the Summary field.
MKS.RQ.TaskClosedPhaseName	Closed	(PTC Only) The name of the closed phase for change orders and defects.
MKS.RQ.TaskClosedPhaseStates	Cancelled, Closed, Completed, Rejected, Review Complete	(Configurable) The list of states corresponding to the closed phase for change orders and defects. This property must be maintained when the

		"Task Phase" field is updated. It is needed by triggers because of a product limitation.
MKS.RQ.TaskOpenPhase Name	Open	(PTC Only) The name of the open phase for change orders and defects.
MKS.RQ.TaskOpenPhase States	In Development, In Restesting, In Review, In Testing, Reopened	(Configurable) The list of states corresponding to the open phase for change orders and defects. This property must be maintained when the "Task Phase" field is updated. It is needed by triggers because of a product limitation.
MKS.RQ.TaskPendingPhaseName	Pending	(PTC Only) The name of the pending phase for change

		orders and defects.
MKS.RQ.TaskPendingPhaseStates	Assigned, Proposed, Ready for Automated Testing, Submit, Unassigned	(Configurable) The list of states corresponding to the pending phase for change orders and defects. This property must be maintained when the "Task Phase" field is updated. It is needed by triggers because of a product limitation.
MKS.RQ.TaskRejectedStateName	Rejected	(PTC Only) The name of the rejected state for change orders and defects.
MKS.RQ.TestObjectiveFieldName	Test Objective	(Configurable) Name of ibpl field exposed on a test session which references a single Test Objective.

MKS.RQ.TestsAsOfDateSetFieldName	Tests As Of Date Set	(PTC Only) The name of the logical field that indicates when the "Tests As Of Date" field is set or blank on a test session.
MKS.RQ.tm.test.views.item0.CommandToken	ci.Relationships	(Configurable) Type of view to display:
ci.Issues - Items view (im issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.tm.test.views.item0.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.tm.test.views.item0.name	Test Status	(Configurable) Custom menu name
MKS.RQ.tm.test.views.item0.SelectionType	SelectedItem	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.

MKS.RQ.tm.test.views.item0.SimpleRequirementsChecker.Cardinality	1+	(Configurable) Command cardinality. May be 0+, 1, 1+ or 0-1.
MKS.RQ.tm.test.views.item0.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.tm.test.views.item0.ViewRef	rm.view14	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.tm.test.views.item0.viewSettings	"title=Test Status","tabTitle=Test Status","traverseFields=Test Plans,Test Objectives","structureFieldDisplayFormat={Summary}{Text} - {Type}","displayForwardFields=False","displayBackwardFields=False","showFieldNodes=false","saveSettings=false"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.tm.test.views.item1.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (im		

issues)		
ci.Relationships - Relationships view (im relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.tm.test.views.item1.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.tm.test.views.item1.name	All Test Objectives	(Configurable) Custom menu name
MKS.RQ.tm.test.views.item1.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.tm.test.views.item1.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.tm.test.views.item1.ViewRef	rm.view15	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.tm.test.views.item1.viewSettings	"query=All Test Objectives"	(Configurable) Settings used by this command,

		in the format "setting=value", "setting=value"... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.tm.test.views.item2.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (issues)		
ci.Relationships - Relationships view (relationships)		
ci.DocumentView - Document view (viewsegment)		
MKS.RQ.tm.test.views.item2.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.tm.test.views.item2.name	All Test Sessions	(Configurable) Custom menu name
MKS.RQ.tm.test.views.item2.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDo

		cument, or CurrentDocument.
MKS.RQ.tm.test.views.item2.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.tm.test.views.item2.ViewRef	rm.view16	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.tm.test.views.item2.viewSettings	"query=All Test Sessions"	(Configurable) Settings used by this command, in the format "setting=value"[,"setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.tm.test.views.item3.CommandToken	ci.Issues	(Configurable) Type of view to display:
ci.Issues - Items view (issues)		
ci.Relationships - Relationships view (im		

relationships)		
ci.DocumentView - Document view (im viewsegment)		
MKS.RQ.tm.test.views.it em3.handlerClass	mks.ic.ci.ui.swing.requirements.SegmentInteractor	(PTC Only) The interactor class.
MKS.RQ.tm.test.views.it em3.name	Open Defects	(Configurable) Custom menu name
MKS.RQ.tm.test.views.it em3.SelectionType	None	(Configurable) May be None, SelectedItem, FinderItem, FinderDocument, SelectedDocument, or CurrentDocument.
MKS.RQ.tm.test.views.it em3.type	item	(Configurable) Type of menu entry: Either item or separator.
MKS.RQ.tm.test.views.it em3.ViewRef	rm.view17	(Configurable) Name of configurable view used by this custom menu.
MKS.RQ.tm.test.views.it em3.viewSettings	"query=Open Defects"	(Configurable) Settings used by this command, in the format "setting=val

		ue"],["setting=value"]... Note there must be no whitespace between the quotes and the comma separating the settings.
MKS.RQ.trace.	Authorizes Changes To	<input type="text"/>
Authorizes Changes To	<input type="text"/>	
Authorizes Changes To		
Authorizes Changes To		
Authorizes Changes To		
Authorizes Changes To		
Authorizes Changes To		
Authorizes Changes To		
Authorizes Changes To		
	YYY Relationships to be created when relating Change Orders to other items	
MKS.RQ.trace. <input type="text"/>	Decomposes To:	(Configurable) Relationships to be created when relating Inputs to other items
MKS.RQ.trace.	Decomposes To:	(Configurable) Relationships to be created when relating Non-Functional requirements to other

		items
MKS.RQ.trace.	Decomposes To	
Changes Authorized By		
Decomposed From		
Decomposed From		
Decomposed From		(Configurable) Relationships to be created when relating System requirements to other items
MKS.RQ.trace.	Satisfied By	
Validated By		(Configurable) Relationships to be created when relating requirements to other items
MKS.RQ.trace.	Validated By:	(Configurable) Relationships to be created when relating Specifications to other items
MKS.RQ.TraceStatusFieldName	Trace Status	(PTC Only) The name of the generic trace status picklist field

MKS.RQ.UseHierarchicalEditabilityField	Use Hierarchical Editability	(PTC Only) The name of the Boolean field which, when set, indicates that the segment requires document editability rules. This may be a simple true/false value or a computation.
MKS.RQ.ValidatedByFieldName	Validated By	(Configurable) Name of the trace field between requirements and test cases.
MKS.SolutionDefinition.Version	2009.5467.01	(PTC Only) Solution definition version
zz delete me MKS.Document.ColumnSet	RM Document	(Configurable) Column set to use when presenting a document

Type Properties for type: Portfolio

Key	Value	Description
MKS.RQ.ManagesFieldName	Manages	The name of the field containing the list of items that this portfolio manages. Items in this relationship list must be of the same type as Matched type.
MKS.RQ.MatchedTypeFieldName	Managed Type	The name of the pick list field containing the type to which all relationships in the Manages field must be related.

Type Properties for type: Product

Key	Value	Description

Type Properties for type: Project

Key	Value	Description
MKS.RQ.DocumentedByFieldName	Documented By	(Configurable) The name of the relationship field containing references to all the top-level documents in this project.

Type Properties for type: Requirement

Key	Value	Description
MKS.RQ.Editability.1	Project,Contains,References,Contained By,Text,Category,Text Attachments	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.1	Project,Contains,References,Contained By,Validated By,Text,Category,Text Attachments,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.2	Decomposes To,Decomposed From,Satisfied By,Validated By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.2 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".

Type Properties for type: Requirement Document

Key	Value	Description
MKS.RQ.Domain	Requirement	(Configurable) The solution domain this document type is used with. Change this value only if you are copying this type to create a new domain.
MKS.RQ.Editability.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true".
MKS.RQ.Editability.Document.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".
MKS.RQ.item.editissue.title	Properties for {Summary}	(Configurable) Edit item title override. The application substitutes field names in curly braces with the value.

Type Properties for type: Risk

Key	Value	Description

Type Properties for type: Shared Input

Key	Value	Description

Type Properties for type: Shared Requirement

Key	Value	Description

Type Properties for type: Shared Specification

Key	Value	Description

Type Properties for type: Shared Test Case

Key	Value	Description

Type Properties for type: Specification

Key	Value	Description
MKS.RQ.Editability.1	Project,Contains,References,Contained By,Text,Category,Text Attachments	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.1	Project,Contains,References,Contained By,Validated By,Text,Category,Text Attachments,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.2	Decomposes To,Decomposed From,Satisfies,Validated By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.2 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".

Type Properties for type: Specification Document

Key	Value	Description
MKS.RQ.Domain	Specification	(Configurable) The solution domain this document type is used with. Change this value only if you are copying this type to create a new domain.
MKS.RQ.Editability.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true".
MKS.RQ.Editability.Document.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".
MKS.RQ.item.editissue.title	Properties for {Summary}	(Configurable) Edit item title override. The application substitutes field names in curly braces with the value.

Type Properties for type: Survey

Key	Value	Description

Type Properties for type: Test Case

Key	Value	Description
MKS.RQ.Editability.1	Project,Contains,References,Contained By,Text,Expected Results,Category,Text Attachments,Test Steps,Record Results As Shared	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.1	Project,Contains,References,Contained By,Validated By,Text,Category,Text Attachments,Test Steps,Changes Authorized By,Record Results As Shared	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true". Do not specify the reverse couplet relationships (Referenced By) in this list - it will be ignored.
MKS.RQ.Editability.Document.2	Validates	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.2 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".

Type Properties for type: Test Objective

Key	Value	Description
MKS.RQ.ProjectIsReassignable	via relationship	(PTC Only) The project to which this task belongs is determined ultimately by the container hierarchy having the Project item at the root.
MKS.RQ.SessionsRelationshipField	Completed Test Sessions	(Configurable) Defines the relationship field used when viewing results for a Test Objective.
MKS.RQ.WBSDownRelationships	Test Objectives	(PTC Only) The comma-separated list of contains relationships for the container hierarchy having the Project item at the root.
MKS.RQ.WBSUpRelationship	Test Objective For	(PTC Only) The containing relationship for the container hierarchy having the Project item at the root.

Type Properties for type: Test Group

Key	Value	Description
MKS.RQ.DocumentTitleFormat	{Document Short Title}	The prefix used to construct the full document name. This property is used by the Document Name trigger.
MKS.RQ.Domain	Test	(Configurable) The solution domain this document type is used with. Change this value only if you are copying this type to create a new domain.
MKS.RQ.Editability.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true".
MKS.RQ.Editability.Document.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".
MKS.RQ.item.editissue.title	Properties for {Summary}	(Configurable) Edit item title override. The application substitutes field names in curly braces with the value.

Type Properties for type: Test Plan

Key	Value	Description
MKS.RQ.MustBeTopLevel		(PTC Only) If exists then this type must be contained directly by the Project in the container hierarchy.
MKS.RQ.ProjectIsReassignable	via project or relationship	(PTC Only) The project to which this item belongs is determined either by the container hierarchy having the Project item at the root or by the Project field on this item. If not in a hierarchy the related artifacts are not tracked in the dashboard.
MKS.RQ.WBSDownRelationships	Test Objectives	(PTC Only) The comma-separated list of contains relationships for the container hierarchy having the Project item at the root.
MKS.RQ.WBSUpRelationship	Test Plan For	(PTC Only) The containing relationship for the container hierarchy having the Project item at the root.

Type Properties for type: Test Session

Key	Value	Description
MKS.RQ.StatesToSetTestsAsOfDateField	In Testing	(Configurable) A trigger will set the field "Tests As Of Date" to the current date and time when any of the listed states are set on a Test Session. An existing value will not be overridden. Separate multiple values with commas.
QTPSessionAdapter.testCasePathFieldName	External Script Name	(Configurable) The field on the Test Case which contains the path to the QTP Test Script that is to be executed

Type Properties for type: Test Step

Key	Value	Description

Type Properties for type: Test Suite

Key	Value	Description
MKS.RQ.DocumentTitleFormat	{Document Short Title}	The prefix used to construct the full document name. This property is used by the Document Name trigger.
MKS.RQ.Domain	Test	(Configurable) The solution domain this document type is used with. Change this value only if you are copying this type to create a new domain.
MKS.RQ.Editability.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.1 has value "true".
MKS.RQ.Editability.Document.1	Project,Shared Attachments,Shared Text,Shared Category,Contains,Summary,Changes Authorized By	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.1 has value "true".
MKS.RQ.Editability.Document.3	Spawns	(Configurable) Fields that are editable only when the field referenced by property MKS.RQ.EditabilityField.Document.3 has value "true".
MKS.RQ.item.editissue.title	Properties for {Summary}	(Configurable) Edit item title override. The application substitutes field names in curly braces with the value.

Type Properties for type: Work Item

Key	Value	Description
MKS.RQ.ProjectIsReassignable	via project or relationship	(PTC Only) The project to which this item belongs is determined either by the container hierarchy having the Project item at the root or by the Project field on this item. If not in a hierarchy the related artifacts are not tracked in the dashboard.
MKS.RQ.WBSDownRelationships	Change Orders, Defects, Work Items	(PTC Only) The comma-separated list of contains relationships for the container hierarchy having the Project item at the root.
MKS.RQ.WBSUpRelationship	Work Item For	(PTC Only) The containing relationship for the container hierarchy having the Project item at the root.

States

State list for type: Change Order

State Name	State Description
Unassigned	Not assigned to anybody by the review team
Assigned	Assigned to a user by the review team
In Development	Development in progress.
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Rejected	Will never be considered
Completed	Completed

State list for type: Change Request

State Name	State Description
Unallocated	Not allocated to a change order or task.
Allocated	Allocated to a change order or task by a review team.
Rejected	Will never be considered
Partially Satisfied	Terminal state for the change request indicating that the requested modification was partially satisfied.

State list for type: Defect

State Name	State Description
Proposed	A unit of work that has been proposed but not yet scheduled
Assigned	Assigned to a user by the review team
In Development	Development in progress.
In Testing	The state used to represent active manual testing. This state has the state capability which allows test results to be modified.
Accepted	Represents the acceptance of work or milestones.
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Rejected	Will never be considered
Completed	Completed

State list for type: Input

State Name	State Description
Active	In progress

State list for type: Input Document

State Name	State Description
Inactive	Not currently in progress
Open	Analyst has been assigned and at least one document linked, or analyst is allowed to allocate his own documents
Restricted	Document modifications allowed only if a change order is attached to the document or one of its contents, the change order is assigned to a user, and it is in the Open state
Review Pending	Last change order to be closed will result in document being placed In Review
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Published	Published - will not change.
Delivered	Trace relationships not allowed, but external relationships allowed. Transition to Change Orders Required allowed only for members of the RM Executive team.
Retired	Only editable field is the Notes field on the document root.

State list for type: Library

State Name	State Description
Unavailable	Unavailable for use.
Proposed	A unit of work that has been proposed but not yet scheduled
Available	Available for use in the application

State list for type: MKS Solution

State Name	State Description
Active	In progress

State list for type: Portfolio

State Name	State Description
Inactive	Not currently in progress
Active	In progress

State list for type: Product

State Name	State Description
Inactive	Not currently in progress
Active	In progress

State list for type: Project

State Name	State Description
Proposed	A unit of work that has been proposed but not yet scheduled
Defined	Projects transition to this state when the work breakdown structure is completed and all specifications are approved
Active	In progress
Accepted	Represents the acceptance of work or milestones.
Started	Work has started but bulk of activities are still pending review and acceptance.
Suspended	Temporarily suspended
Cancelled	Cancelled.
Completed	Completed

State list for type: Requirement

State Name	State Description
Active	In progress

State list for type: Requirement Document

State Name	State Description
Inactive	Not currently in progress
Open	Analyst has been assigned and at least one document linked, or analyst is allowed to allocate his own documents
Restricted	Document modifications allowed only if a change order is attached to the document or one of its contents, the change order is assigned to a user, and it is in the Open state
Review Pending	Last change order to be closed will result in document being placed In Review
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Published	Published - will not change.
Delivered	Trace relationships not allowed, but external relationships allowed. Transition to Change Orders Required allowed only for members of the RM Executive team.
Retired	Only editable field is the Notes field on the document root.

State list for type: Risk

State Name	State Description
Open	Analyst has been assigned and at least one document linked, or analyst is allowed to allocate his own documents
Closed	Analyst has marked the change order as complete

State list for type: Shared Input

State Name	State Description
Available	Available for use in the application

State list for type: Shared Requirement

State Name	State Description
Available	Available for use in the application

State list for type: Shared Specification

State Name	State Description
Available	Available for use in the application
Retired	Only editable field is the Notes field on the document root.
Deprecated	Should not be used in new documents

State list for type: Shared Test Case

State Name	State Description
Available	Available for use in the application

State list for type: Specification

State Name	State Description
Active	In progress

State list for type: Specification Document

State Name	State Description
Inactive	Not currently in progress
Open	Analyst has been assigned and at least one document linked, or analyst is allowed to allocate his own documents
Restricted	Document modifications allowed only if a change order is attached to the document or one of its contents, the change order is assigned to a user, and it is in the Open state
Review Pending	Last change order to be closed will result in document being placed In Review
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Published	Published - will not change.
Delivered	Trace relationships not allowed, but external relationships allowed. Transition to Change Orders Required allowed only for members of the RM Executive team.
Retired	Only editable field is the Notes field on the document root.

State list for type: Survey

State Name	State Description
Open	Analyst has been assigned and at least one document linked, or analyst is allowed to allocate his own documents
Review Pending	Last change order to be closed will result in document being placed In Review
Retired	Only editable field is the Notes field on the document root.

State list for type: Test Case

State Name	State Description
Active	In progress

State list for type: Test Group

State Name	State Description
Inactive	Not currently in progress
Open	Analyst has been assigned and at least one document linked, or analyst is allowed to allocate his own documents
Restricted	Document modifications allowed only if a change order is attached to the document or one of its contents, the change order is assigned to a user, and it is in the Open state
Review Pending	Last change order to be closed will result in document being placed In Review
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Published	Published - will not change.
Delivered	Trace relationships not allowed, but external relationships allowed. Transition to Change Orders Required allowed only for members of the RM Executive team.
Retired	Only editable field is the Notes field on the document root.

State list for type: Test Objective

State Name	State Description
Proposed	A unit of work that has been proposed but not yet scheduled
Assigned	Assigned to a user by the review team
In Development	Development in progress.
In Testing	The state used to represent active manual testing. This state has the state capability which allows test results to be modified.
In Retesting	Used to track revalidation effort of Test Objectives.
Cancelled	Cancelled.
Rejected	Will never be considered
Completed	Completed

State list for type: Test Plan

State Name	State Description
In Progress	Test plan has been approved by the stakeholders and is in progress.
Submit	A new task, unassigned.
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Cancelled	Cancelled.
Completed	Completed

State list for type: Test Session

State Name	State Description
Submit	A new task, unassigned.
In Testing	The state used to represent active manual testing. This state has the state capability which allows test results to be modified.
Cancelled	Cancelled.
Completed	Completed

State list for type: Test Step

State Name	State Description
Active	In progress

State list for type: Test Suite

State Name	State Description
Inactive	Not currently in progress
Open	Analyst has been assigned and at least one document linked, or analyst is allowed to allocate his own documents
Restricted	Document modifications allowed only if a change order is attached to the document or one of its contents, the change order is assigned to a user, and it is in the Open state
Review Pending	Last change order to be closed will result in document being placed In Review
In Review	New change orders not allowed, though existing change orders can be put back into the Reopened state.
Published	Published - will not change.
Delivered	Trace relationships not allowed, but external relationships allowed. Transition to Change Orders Required allowed only for members of the RM Executive team.
Retired	Only editable field is the Notes field on the document root.

State list for type: Work Item

State Name	State Description
Proposed	A unit of work that has been proposed but not yet scheduled
In Development	Development in progress.
In Testing	The state used to represent active manual testing. This state has the state capability which allows test results to be modified.
Cancelled	Cancelled.
Rejected	Will never be considered
Completed	Completed

Fields

Computed Field	Computed Field Description	Computed Field Computation
Active Project Count	Number of projects that are related to this product that are currently active. This product metric is calculated once a week.	IsEmpty(RelCount("Active Projects"), 0)
Actual Effort	Time recorded against this item, in hours, not including sub-items	(IsEmpty(sumTimeEntrySecs(), 0) + 0.0) / 3600.0
Allow Edits	Document computation which controls whether the main text of the content is editable	(State != "In Review" and State != "Published" and State != "Delivered" and State != "Retired")
Allow Links	Document computation which controls whether external relationships can be added to the document contents	State != "Retired"

Allow Traces	Document computation which controls whether traces can be added to the document contents	State != "Delivered" and State != "Retired"
Author Reference Count In Active Projects	The number of content items in active projects with a reference mode of author. This global metric is calculated once a week.	isEmpty(Query("administrator:Author References In Active Projects", count()), 0)
Average Budget Variance	Average budget variance for all active projects related to a product or all projects in a project portfolio. This metric is calculated once a week.	isEmpty(
Average Document Content Count	The mean average content count per document, for all documents in the system. This global metric is	isEmpty(Query("administrator:All Documents", avg("All Content Count")), 0.0)

	calculated once a week.	
Average Effort Variance	Average effort variance for all active projects related to a product or all projects in a project portfolio. This product metric is calculated once a week.	IsEmpty(Aggregate("Active Projects", avg("Effort Variance")), 0.0)
Average Survey Score	This field captures the average score for a given survey based on the results within that survey.	("Process Category" == "Product" ? (("Product Survey Q1" + "Product Survey Q2" + "Product Survey Q3" + "Product Survey Q4" + "Product Survey Q5") / 5.0) : (("Project Survey Q1" + "Project Survey Q2" + "Project Survey Q3" + "Project Survey Q4" + "Project Survey Q5") / 5.0))
Belongs to Portfolio	True if this project or product is part of a portfolio. This field is calculated dynamically based on whether the Managed By field is set.	RelCount("Managed By")>0
Belongs to Product	True if this project is part of a product. This field is calculated dynamically based on	RelCount(Product)>0

	whether the Product field is set.	
Blocked	The test case is currently blocked when this field value is true. Until the blocking defects listed in the Blocked By field are closed, this test case is known to fail. A test case that is sharing results is blocked when the test case it shares with is blocked.	"Reference Mode" = "Share" and "Record Results As Shared" ?
Blocking	The defect is currently blocking test cases when this field value is true. Until this defect is resolved, the test cases listed in the 'Blocks' field are known to fail.	"Task Phase" != "Closed" and relcount(Blocks) > 0 ? true : false
Budget Variance	Budget variance for this item not including sub-items	IsEmpty("Estimated Budget" - "Actual Budget", 0.0)
Category	Calculates the	IsEmpty(Category, 0)/1 + IsEmpty("Shared Category", 0)/1

Int Value	integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images	
Change Order Count In Active Projects	The number of change orders in all active projects in the system. This global metric is calculated once a week.	isEmpty(Query("administrator:Change Orders In Active Projects", count()), 0)
Change Package Count	Number of change packages on this item, including open change packages	SICPCount()
Change Package Entry Count	The total number of source file changes caused by this item, summing over all change packages.	SICPEnterCount()

	This metric counts once for every change to every file, not once per file.	
Change Request Count	The number of change requests in this project. This project metric is calculated once a week.	isEmpty(Query("administrator:Change Requests", Project, count()), 0)
Change Request Count In Active Projects	The number of change requests in active projects in the system. This global metric is calculated once a week.	isEmpty(Query("administrator:Change Requests In Active Projects", count()), 0)
Closed Change Order Count for Project	The number of closed change orders in this project. This project metric is calculated once a week.	isEmpty(aggregateByTree(
Closed Change Requests	The number of closed change requests in this project. This project metric is calculated once a day.	isEmpty(Query("administrator:Closed Change Requests", Project, count()), 0)
Closed Date	Date when change order	dateLastEntered("Closed")

	was closed	
Closed Defect Count	Number of closed defects in this project. This project metric is calculated once a week.	IsEmpty(Query("administrator:Closed Defects",Project,count()), 0)
Closed Task Count	Number of closed tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is calculated once a day.	IsEmpty("Closed Change Order Count for Project",0) +
Closed Test Objective Count	Number of closed test objective	IsEmpty(aggregateByTree(

	tasks in this project. This project metric is calculated once a week.	
Closed Test Session Count	Number of test sessions in the closed phase. This project metric is calculated once a week.	IsEmpty(Query("administrator:Closed Test Sessions", Project, count()),0)
Closed Work Item Count	Number of closed (inactive) work items in this project. This project metric is calculated once a week.	IsEmpty(aggregateByTree(
Code Freeze Actual	Date project first entered "In Testing" state	DateFirstEntered("In Testing")
Coding Defects Slipped	Number of defects originating during coding that were detected in other phases of the project.	IsEmpty((Query("administrator:Slipped Coding Defects", Project, count()),0)
Completed Project Count	Number of projects that are related to this product that are completed. This product metric is calculated once a week.	IsEmpty(RelCount("Completed Projects"), 0)

Content Count In Active Projects	The number of content items in active projects. This global metric is calculated once a week.	isEmpty(Query("administrator:Content In Active Projects", count()), 0)
Cost Stability Index	Project cost stability index. Ratio of estimated cost over actual cost. Hovers around 100, but will drift downwards when costs are incurred for work that is not yet marked as completed. A value of >100 means the project is coming in under budget.	100.0 *
Current Schedule	Current estimate of number of days to project completion starting from the day it first entered the Active state.	(DateDiff("Development Complete Current Estimate", DateFirstEntered("Active")) + 0) / (60 * 60 * 24 + 0)
Customer Satisfaction Score	This field captures the average score for all survey	((IsType("Project") ? (0.0 + aggregate("Project Survey Results", sum("Average Survey Score")))) / (aggregate("Project Survey Results", sum((IsState("Open") ? 1.0 : 0.0)))) == 0.0 ? 1.0 : aggregate("Project Survey Results", sum((IsState("Open") ?

	<p>results posted against this project or product in an Open state. This metric is calculated once a week.</p>	$1.0 : 0.0))) : (\text{IsType}(\text{"Product"}) ? (0.0 + \text{aggregate}(\text{"Product Survey Results", sum}(\text{"Average Survey Score"}))) / ((\text{aggregate}(\text{"Product Survey Results", count}()) + 0.0) == 0.0 ? 1.0 : (\text{aggregate}(\text{"Product Survey Results", count}()) + 0.0)) : 0.0)))$
Day Count	<p>Number of days elapsed for the project ignoring the time spent in "Suspended" or any of the terminal states. Days spent in "Proposed" and "Accepted" are counted even though these initial states could have long lead times that are unrelated to the amount of effort required to complete the project.</p>	$\text{IsEmpty}((\text{DaysInState}(\text{"Proposed"})), 0) + \text{IsEmpty}((\text{DaysInState}(\text{"Started"})), 0) +$
Days in Current State	<p>Number of days this item has been in its current state.</p>	$\text{IsEmpty}(\text{DaysCurrentState}(), 0)$
Design Defects Slipped	<p>Number of defects originating in</p>	$\text{IsEmpty}((\text{Query}(\text{"administrator:Slipped Design Defects", Project, count}())), 0)$

	the design phase that were detected in other phases of the project.	
Development Complete Actual	Date on which the project last entered the Completed state.	DateLastEntered("Completed")
Document Count In Active Projects	The number of documents in active projects. This global metric is calculated once a week.	isEmpty(Query("administrator:Documents In Active Projects", count()), 0)
Document ID	The ID of the document in which this content is contained	DocumentID()
Documents Added Yesterday Count	The number of segments added to this project yesterday. This project metric is calculated once a day.	isEmpty(Query("administrator:Documents Added Recently", Project, count()), 0)
Documents Modified Yesterday Count	The number of segments modified in this project yesterday. This project metric is calculated once a day.	isEmpty(Query("administrator:Documents Changed Recently", Project, count()), 0)
Downstream	The total	isEmpty(RelCount("Validated By"),0) +

m Trace Count	count of all downstream traces including Decomposes To, Validated By and Satisfied By.	
Editable Value	Indicates if a test step is editable based on permissions and sharing.	"Project Classification" = "Library"
Effort Variance	Difference between estimated time and actual time, in hours, for this item not including sub-items.	"Estimated Effort" == 0 ? 0.0 : (("Actual Effort"/8) - "Estimated Effort")/"Estimated Effort"
Fail Count	The number of test cases with a fail verdict type entered.	isEmpty(resultCountByType("fail"),0)
Functional Specification Freeze Actual	Date on which the project first entered the Defined state.	DateFirstEntered("Defined")
Global Active Project Count	The number of active projects in the system. This global metric is calculated once a week.	isEmpty(Query("administrator:Active Projects", count()), 0)
Global Completed	The number of completed	isEmpty(Query("administrator:Completed Projects", count()), 0)

Project Count	projects in the system. This global metric is calculated once a week.	
Global Content Count	The number of content items in the system. This global metric is calculated once a week.	<code>isEmpty(Query("administrator:All Content", count()), 0)</code>
Global Document Count	The number of documents in the system. This global metric is calculated once a week.	<code>isEmpty(Query("administrator:All Documents", count()), 0)</code>
Global Inactive Project Count	The number of inactive projects in the system. This global metric is calculated once a week.	<code>isEmpty(Query("administrator:Inactive Projects", count()), 0)</code>
Global Partially Satisfied Change Request Count	The number of partially satisfied change requests in the system. This global metric is calculated once a week.	<code>isEmpty(Query("administrator:Partially Satisfied Change Requests", count()), 0)</code>
Global Unallocated Change Request Count	The number of unallocated change requests in	<code>isEmpty(Query("administrator:Unallocated Change Requests", count()), 0)</code>

	<p>the system. This global metric is calculated once a week.</p>	
Green Project Count	<p>Number of active projects related to this item with a "green" health indicator. This product metric is calculated once a week.</p>	IsEmpty(
Green Project Count 2	<p>Number of active projects related to this portfolio with a "green" health indicator. For product portfolios, only active projects are included. For project portfolios, all projects are included. This portfolio metric is calculated once a day.</p>	IsEmpty(
Health Value	<p>Health value considering both time and budget for this item and</p>	<p>((("Total Effort Variance Range" == "Red") OR ("Total Budget Variance Range" == "Red")) ? 1 : ((("Total Effort Variance Range" == "Yellow") OR ("Total Budget Variance Range" == "Yellow")) ? 0 : -1))</p>

	all sub-items if applicable. This project metric is calculated once a day.	
Inactive Project Count	Number of projects that are related to this product that are currently inactive. This product metric is calculated once a week.	IsEmpty(RelCount("Inactive Projects"), 0)
Last Result	A string representation of the last result for a test case. E.g. Passed, Failed, Not Run.	isMeaningful() ? isEmpty(TestVerdictName(lastResult()), Text("Not Run")) : emptytext()
Last Verdict Type	The verdict type for the last result logged against this test case.	(VerdictToType(lastResult())==TestVerdictByType("pass")) ? Text("pass") :
Lines of code	Number of lines of code in the Source project of a product. This product metric is calculated once a week.	SIMetric("Source Project","lines")
Managed Product Count	Number of products managed by	IsEmpty(RelCount(Manages), 0)

	<p>this portfolio. This portfolio metric is calculated each time it is viewed.</p>	
Managed Project Count	<p>Number of active projects managed by this portfolio. This portfolio metric is calculated each time it is viewed.</p>	<p>IsEmpty(RelCount(Manages), 0)</p>
Maximum Document Content Count	<p>The maximum content count per document, for all documents in the system. This global metric is calculated once a week.</p>	<p>IsEmpty(Query("administrator:All Documents", max("All Content Count")), 0)</p>
New Defect Count - Priority Critical	<p>A computation to identify critical priority defects</p>	<p>IsEmpty(Query("administrator:New Defects - Priority Critical",Project,count()), 0)</p>
New Defect Count - Priority High	<p>A computation to identify high priority defects</p>	<p>IsEmpty(Query("administrator:New Defects - Priority High",Project,count()), 0)</p>
New Defect Count - Priority Low	<p>A computation to identify low priority defects</p>	<p>IsEmpty(Query("administrator:New Defects - Priority Low",Project,count()), 0)</p>

New Defect Count - Priority Medium	A computation to identify medium priority defects	IsEmpty(Query("administrator:New Defects - Priority Medium",Project,count()), 0)
Open And Pending Defect Count	Number of open and pending defects in this project. This project metric is calculated once a week.	IsEmpty("Open Defect Count",0) + IsEmpty("Pending Defect Count",0)
Open Change Order Count for Project	The number of open change orders in this project. This project metric is calculated once a week.	IsEmpty(aggregateByTree(
Open Change Package Count	Number of open change packages on this item	SICPCount(Open)
Open Defect Count	Number of open defects in this project. This project metric is calculated once a week.	IsEmpty(Query("administrator:Open Defects",Project,count()), 0)
Open Task Count	Number of open tasks (change orders, defects and test objectives) belonging to this item and all sub-items.	IsEmpty("Open Change Order Count for Project",0) +

	<p>For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day.</p>	
Open Test Objective Count	<p>Number of open test objective tasks in this project. This project metric is calculated once a week.</p>	<p>IsEmpty(aggregateByTree(</p>
Open Test Session Count	<p>Number of test sessions in the open phase. This project metric is calculated once a week.</p>	<p>IsEmpty(Query("administrator:Active Test Sessions", Project, count()),0)</p>
Open Work Item Count	<p>Number of open (active) work items in this project. This project metric is</p>	<p>IsEmpty(aggregateByTree(</p>

	calculated once a week.	
Original Schedule	Original estimate of number of days to project completion starting from the day it first entered the Active state.	$(\text{DateDiff}(\text{"Development Complete Original Estimate"}, \text{DateFirstEntered}(\text{"Active"})) + 0) / (60 * 60 * 24 + 0)$
Orphaned Node Count	The number of orphaned nodes in the system. This global metric is calculated once a week.	<code>isEmpty(Query("administrator:Orphaned Node Count", count()), 0)</code>
Orphaned Shared Item Count	The number of orphaned shared items in the system. This global metric is calculated once a week.	<code>isEmpty(Query("administrator:Orphaned Shared Item Count", count()), 0)</code>
Other Count	The number of test cases with an other verdict type entered.	<code>isEmpty(resultCountByType("other"),0)</code>
Pass Count	The number of test cases with a pass verdict type entered.	<code>isEmpty(resultCountBytype("pass"),0)</code>
Pending Change Order Count	The number of change orders in this project that are still pending. This	<code>IsEmpty(aggregateByTree(</code>

	project metric is calculated once a week.	
Pending Defect Count	Number of pending defects in this project. This project metric is calculated once a week.	IsEmpty(aggregateByTree(
Pending Task Count	Number of pending tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day.	IsEmpty("Pending Change Order Count",0) +
Pending	Number of	IsEmpty(aggregateByTree(

Test Objective Count	pending test objective tasks in this project. This project metric is calculated once a week.	
Pending Test Session Count	Number of test sessions in the pending phase. This project metric is calculated once a week.	IsEmpty(Query("administrator:Pending Test Sessions", Project, count()),0)
Pending Work Item Count	Number of pending (proposed) work items in this project. This project metric is calculated once a week.	IsEmpty(aggregateByTree(
Planned Count	The number of test cases planned.	IsEmpty("Tests As Of Date Set",false)
Product Health Value	Health value of an application based on the maximum health value of all related active projects. This product metric is calculated once a week.	IsEmpty(aggregate("Active Projects", max("Health Value")), -1)
Project Acceptance Actual	Date on which the project was	DateFirstEntered("Accepted")

	accepted - date of first entry into the Accepted state.	
Project Plan Actual	Date on which the project first entered the Active state.	DateFirstEntered("Active")
Project Start Actual	Date on which the project entered the Started state	DateFirstEntered("Started")
Proposed Project Count	Number of projects related to this product that are in the Proposed phase. This product metric is calculated once a week.	IsEmpty(RelCount("Proposed Projects"), 0)
Red Project Count	Number of active projects related to this item with a "red" health indicator. This product metric is calculated once a week.	IsEmpty(
Red Project Count 2	Number of active projects related to this portfolio with a "red" health	IsEmpty(

	indicator. For product portfolios, only active projects are included. For project portfolios, all projects are included. This portfolio metric is calculated once a day.	
Requirement Count Change	The change in number of requirements compared to one week ago. This project metric is calculated once a day.	"Requirement Count" - IsEmpty(historicFieldValue("Requirement Count", now() - 7), 0)
Requirement Defects Slipped	Number of defects originating in the requirements phase that were detected in other phases of the project.	IsEmpty((Query("administrator:Slipped Requirement Defects", Project, count()))),0)
Requirement Stability Index	Total number of requirements in the project divided by the sum of Document Churn from Initial Baseline for	100.0 * (IsEmpty("Requirement Count from Initial Baseline", 1) + 0.001) /

	<p>all Requirement Documents. This metric decreases from 100 as the churn increases and can never exceed 100. Only documents that have been baselined with the Initial Baseline are included in this metric.</p>	
<p>Reuse Reference Count In Active Projects</p>	<p>The number of content items in active projects with a reference mode of reuse. This global metric is calculated once a week.</p>	<p>isEmpty(Query("administrator:Reuse References In Active Projects", count()), 0)</p>
<p>Significant Edit Date</p>	<p>Date of last significant modification to this item. If this item is a node then the value is the date of the last significant edit that on either the node or the shared item,</p>	<p>System computed field</p>

	whichever is latest. If this is a type which does not participate in the document model, the Significant Edit Date will be the same as the Modified Date.	
Run Count	The number of test cases with a result entered.	<code>isEmpty("Pass Count" + "Fail Count" + "Other Count",0)</code>
Run Percentage	The percentage of planned tests that have been run.	<code>"Planned Count" > 0 ? ("Run Count" + 0.001) / "Planned Count" : 0</code>
Running Cost	The current total time spent on completed items plus the estimates for items that haven't been completed (represented in dollars).	<code>("Total Actual Effort" + "Total Remaining Effort") * ((isEmpty("Burn Rate",900.00)) / 8)</code>
Schedule Stability Index	Ratio of Original Schedule over Current Schedule, where each quantity is a calculation of number of	100.0 *

	<p>days from project start to development complete. Values <100 indicate the project is slipping, while >100 indicates the project is ahead of schedule.</p>	
Share Reference Count In Active Projects	<p>The number of content items in active projects with a reference mode of share. This global metric is calculated once a week.</p>	<p>isEmpty(Query("administrator:Share References In Active Projects", count()), 0)</p>
Source Checkpoint Count	<p>Number of checkpoints in the Source project of a product. This product metric is calculated once a week.</p>	<p>SIMetric("Source Project", "checkpoints")</p>
Source File Count	<p>Number of files in the source code project for a product. This Product metric is calculated once a week.</p>	<p>SIMetric("Source Project", "members")</p>

Source Subproject Count	Number of subprojects in the Source code project of a product. This Product metric is calculated once a week.	SIMetric("Source Project","subs")
Suspect Count	The number of suspect links on this node	IsEmpty(SuspectCount(), 0)
Suspect Results	A logical flag to indicate whether a Test Case has results which are suspect. A Test Case will contain suspect results when its modified date is greater than the modified date of its last result.	("Significant Edit Date" > isEmpty(lastResultFreezeDate(), now()) ? true : "Significant Edit Date" > lastResultDate())
Test Case Editable	The editability of the only test case associated with a test step that is not in the library to be shared. The document state and required change orders	"Test Step Editable" and ("Project Classification" != "Library") ?

	<p>are both considered. Documents in the Open state do not require change orders. Newly created test case test steps are assumed to have an editable test case even if the test case relationship hasn't been updated yet.</p>	
<p>Test Objective Blocked Count</p>	<p>The number of test cases in test objectives that are blocked by a defect. Test cases on the tests relationship when included and referenced test suites and groups are considered. Only this specific test objective (not related test objectives) is considered.</p>	<p>isEmpty(aggregate(Tests, byDocument(true,true),sum(Blocked ? 1 : 0)), 0)</p>
<p>Test Objective</p>	<p>The number of test cases</p>	<p>isEmpty(resultcountbysession(Tests,byDocument(true,true),0,"Completed Test Sessions","fail"),0)</p>

Fail Count	with a fail verdict type last result from completed test sessions. Only results for this specific test objective (not related test objectives) are included.	
Test Objective Other Count	The number of test cases with an other verdict type last result from completed test sessions. Only results for this specific test objective (not related test objectives) are included.	isEmpty(resultcountbysession(Tests,byDocument(true,true),0,"Completed Test Sessions","other"),0)
Test Objective Pass Count	The number of test cases with a pass verdict type last result from completed test sessions. Only results for this specific test objective (not related test objectives) are included.	isEmpty(resultcountbysession(Tests,byDocument(true,true),0,"Completed Test Sessions","pass"),0)

Test Objective Planned Count	The number of test cases planned. The total number of test cases on the tests relationship when included and referenced test suites and groups are counted. Only this specific test objective (not related test objectives) are counted.	isEmpty(aggregate(Tests, byDocument(true,true),sum(isTestCase() and isMeaningful() ? 1 : 0)),0)
Test Objective Run Count	The number of test cases with a last result from completed test sessions. Only results for this specific test objective (not related test objectives) are included.	isEmpty("Test Objective Pass Count" +
Test Objective Suspect Results Count	The number of test cases in test objectives that have suspect results. Test cases on the tests relationship when included and	isEmpty(aggregate(Tests, byDocument(true,true),sum("Suspect Results" ? 1 : 0)), 0)

	referenced test suites and groups are considered. Only this specific test objective (not related test objectives) is considered.	
Test Session Tests Count	Test cases currently defined by the "Tests" field on a Test Session. This is an interim field used by field 'Freeze Date Tests Count' This field must be computed dynamically.	aggregate(Tests, byDocument(true,true),sum(isTestcase() and isMeaningful() ? 1 : 0))
Test Step Editable	The test step could be edited with proper permissions. Test steps outside a library can only be edited when there is only a single test case referencing it.	isEmpty("Project Classification" = "Library" ? true : (("Test Step Test Cases Count" <= 1) ? true : false),false)
Test Step Test Cases Count	Count of test cases using this test step. Test cases	isEmpty(aggregateByTree("Test Cases", "Referenced By", sum(("Reference Mode" = "Author") OR ("Reference Mode" = "Reuse") ? 1 : 0)),0)

	with reference mode 'share' are not directly editable so are not counted.	
Tests As Of Date Count	The count of test cases if the 'Tests As Of Date' field is set. If not set the value is empty. This is an interim field used to determine field Planned Tests for Test Sessions.	IsEmpty(aggreatetestsession(byDocument(true,true),sum(isTestcase() and isMeaningful() ? 1 :0)),0)
Top Level Document Count	The number of top-level documents in this project. This project metric is calculated every time the item is edited.	IsEmpty(relCount("Documented By"), 0)
Total Actual Budget	Actual budget to complete this item and all sub-items if applicable. This metric is calculated once a day.	IsEmpty("Actual Budget", 0.0) +
Total Actual Effort	Time recorded, in hours, against this item and	IsEmpty("Actual Effort", 0.0) +

	all sub-items if applicable. This metric is calculated once a day.	
Total Blocked Count	The number of test cases in test objectives that are blocked by a defect. Results from child process items are included.	isEmpty("Test Objective Blocked Count",0) +
Total Budget Variance	Budget variance for this item and all sub-items if applicable	isEmpty("Budget Variance", 0.0) +
Total Change Order Count	The total number of change orders in this project. This project metric is calculated once a week.	isEmpty(aggregateByTree(
Total Change Package Count	Number of change packages on this item and all sub-items if applicable, including open change packages	isEmpty(aggregateByTree(
Total Change Package Entry Count	The total number of source file changes caused by all	isEmpty(aggregateByTree(

	sub-items to this item. This metric counts once for every change to every file, not once per file.	
Total Defect Count	Total number of defects in this project. This project metric is calculated once a week.	IsEmpty("Pending Defect Count" + "Open Defect Count" + "Closed Defect Count", 0)
Total Effort Variance	Difference between estimated time and actual time, in hours, for this item and all sub-items if applicable	"Total Estimated Effort" == 0 ? 0.0 : (("Total Actual Effort"/8) - "Total Estimated Effort")/"Total Estimated Effort"
Total Estimated Budget	Estimated budget for this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day.	IsEmpty("Estimated Budget", 0.0) +
Total	Estimated	IsEmpty("Estimated Effort", 0.0) +

Estimated Effort	number of days to complete this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day.	
Total Fail Count	The number of test cases with a fail verdict type last result. Results from child process items are included.	isEmpty("Test Objective Fail Count",0) +
Total Open Change Package Count	Number of open change packages on this item and all sub-items if applicable. This metric is calculated once a day.	IsEmpty(aggregateByTree(
Total Other Count	The number of test cases with an other verdict type last result. Results from	isEmpty("Test Objective Other Count",0) +

	child process items are included.	
Total Pass Count	The number of test cases with a pass verdict type last result. Results from child process items are included.	isEmpty("Test Objective Pass Count",0) +
Total Pass Percentage of Planned	Percent of total planned test cases with a pass verdict type last result. Results from child process items included.	"Total Planned Count" > 0 ? (isEmpty("Total Pass Count",0) + 0.001) / "Total Planned Count" : 0
Total Pass Percentage of Run	Percent of test cases run in test objectives with a pass verdict type last result. Results from child process items included.	"Total Run Count" > 0 ? ((isEmpty("Total Pass Count",0) + 0.001) / "Total Run Count") : 0
Total Planned Count	The number of test cases planned in test objectives. Results from child process items are included.	isEmpty("Test Objective Planned Count",0) +
Total	Amount of	("Task Phase" != "Closed" ? isEmpty("Estimated Effort", 0.0) :

Remaining Effort	effort remaining for this item and all sub-items if applicable. The metric sums up the Estimated Effort values for all items that are not in the Closed phase. Thus the estimated effort contribution is either at 0% or 100%.	0.0) +
Total Run Count	The number of test cases with a last result. Results from child process items are included.	isEmpty("Test Objective Run Count",0) +
Total Run Percentage	Percent of test cases planned in test objectives with a last result. Results from child process items are included.	"Total Planned Count" > 0 ? ((isEmpty("Total Run Count",0) + .001) / "Total Planned Count") : 0.0
Total Suspect Results Count	The number of test cases in test objectives that have suspect results. Results from	isEmpty("Test Objective Suspect Results Count",0) +

	child process items are included.	
Total Task Count	Number of tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field, and that those types must always belong to a valid phase. This metric is calculated once a day.	IsEmpty("Pending Task Count",0) +
Total Test Objective Count	Number of test objective tasks in this project. This project metric	IsEmpty(aggregateByTree(

	is calculated once a week.	
Total Test Session Count	Total number of test sessions. This project metric is calculated once a week.	"Pending Test Session Count" + "Open Test Session Count" + "Closed Test Session Count"
Total Work Item Count	Number of work items in this project. This project metric is calculated once a week.	IsEmpty(aggregateByTree(
Unallocated Change Request Count	The number of unallocated change requests in this project. This project metric is calculated once a day.	IsEmpty(Query("administrator:Unallocated Change Requests", Project, count()), 0)
Upstream Trace Count	The total count of all upstream traces including Decomposed From, Validates and Satisfies.	IsEmpty(RelCount(Validates),0) +
Use Hierarchical Editability	Field exposed on document roots which, when true, enables change order and document-level	"Document Phase" != "Open"

	authorization controls	
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase.	IsEmpty(Query("administrator:All Projects and Libraries", Project, sum("Change Order Authorizations In Effect" ? 1 : 0)), 0) = 0
Valid Test Step Change Order	Local computation for test steps in a library for sharing. True if the project does not require change orders, or there is at least one change order attached assigned to the current user and in the open phase.	"Project Classification" = "Library" ?
Validated	A	isEmpty(aggregate("Validated

By Pass Count	computation which determines the number of Validated By trace relationships which have a Pass last result.	By",sum(VerdictToType(lastResult()) == TestVerdictByType("pass") ? 1 :0)),0)
Validated By Pass Percentage	A computation which determines the percentage of Validated By traces which have a last results of Passed. This is used by the requirements Test Coverage and Specification Test Coverage reports to display test status per requirement and per specification.	"Validated By Trace Count" > 0 ? (isEmpty("Validated By Pass Count",0) + 0.001) / "Validated By Trace Count") : 0
Validated By Trace Count	The number of Validated By trace relationships.	isEmpty(RelCount("Validated By"),0);
Yellow Project Count	Number of active projects related to this item with a "yellow"	isEmpty(

	health indicator. This product metric is calculated once a week.	
Yellow Project Count 2	Number of active projects related to this portfolio with a "yellow" health indicator. For product portfolios, only active projects are included. For project portfolios, all projects are included. This portfolio metric is calculated once a day.	IsEmpty()
isParent	An integer field used to determine whether a process item is a parent and contains children process items. This is primarily used by the Gantt Chart report recipe. The computation returns 1	RelExists("Test Plans") or RelExists("Test Objectives") or RelExists("Work Items")?1:0

	when the process item contains a child relationship, or 0 when it does not.	
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Field list for type: Change Order

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Project	none	Project
Attachments	none	Attachment
Closed Date	Date when change order was closed This is a computed field.	Date
Changes Authorized	A log of changes authorized by the current change order	Longtext
Discussion	Discussion attached to a change order or change request	Longtext
Task Phase	Phase for this task - Pending, Open or Closed	Phase
Priority	Priority of the issue. Options are : Low, Medium, High, Critical.	Pick
Domain	Solution domain for this change request Options are : Input, Requirement, Specification, Test, Source.	Pick
Effort	The level of effort to complete the item. Options are : Small, Medium, Large, Very.	Pick
Risk	Risk of implementing the item. Options are : Critical, High, Medium, Low.	Pick
Authorizes Changes To	External relationship between change orders and the nodes or segments that they authorize work for Default Columns: ID, Document ID, Category, Type, Text, Significant Edit Date The paired relationship field is : Changes Authorized By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Spawned By	Relationship between a change order and the item that caused the change order to be created. Default Columns: ID, Type, State, Summary, Text, Assigned User The paired relationship field is : Spawns.	Relationship
Stakeholders	Item stakeholders	User
Project State	The state of the project	Fva
Project Allow Scope Expansion	The scope expansion setting of the project. The Allow Scope Expansion field on the project determines whether Change Orders or Defects can be assigned to documents within the project by the user to whom the task is	Fva

	assigned. If this flag is true the user may change the document or the nodes in which the changes are authorized.	
Requires Validation	Test Sessions are directly related to Change Orders and Tasks or indirectly through Work Items and Test Objectives. Options are : True, False.	Pick
Actual Budget	Budget for this item not including sub-items The default value is : 0.	Float
Actual Effort	Time recorded against this item, in hours, not including sub-items This is a computed field.	Float
Estimated Effort	Estimated number of days to complete this item not including sub-items The default value is : 0.	Float
Open Change Package Count	Number of open change packages on this item This is a computed field.	Integer
Change Package Count	Number of change packages on this item, including open change packages This is a computed field.	Integer
Change Order For	The container for this change order. Default Columns: ID, Type, Summary, State, Project, Total Task Count, Days in Current State The paired relationship field is : Change Orders.	Relationship
Change Package Entry Count	The total number of source file changes caused by this item, summing over all change packages. This metric counts once for every change to every file, not once per file. This is a computed field.	Integer
Days in Current State	Number of days this item has been in its current state. This is a computed field.	Integer
Project Phase FVA	The phase of this item's project.	Fva
Retired States	A phase field which includes retired states.	Phase
Description	Detailed description of the issue.	Longtext
Authorized Change Count	Number of item changes authorized by this task. This count will include even trivial edits authorized by the task, so the number should be treated as a general indication of the task's impact, not a true measure of the size of the changes. The default value is : 0.	Integer

Field list for type: Change Request

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Project	none	Project
Attachments	none	Attachment
Discussion	Discussion attached to a change order or change request	Longtext
Change Request Phase	Phase values for Change Request items.	Phase
Domain	Solution domain for this change request Options are : Input, Requirement, Specification, Test, Source.	Pick
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Spawned By	Relationship between a change order and the item that caused the change order to be created. Default Columns: ID, Type, State, Summary, Text, Assigned User The paired relationship field is : Spawns.	Relationship
Project State	The state of the project	Fva
Days in Current State	Number of days this item has been in its current state. This is a computed field.	Integer
Project Phase FVA	The phase of this item's project.	Fva
Change Request For	The work item or test objective that is expected to satisfy this change request. Default Columns: ID, State, Summary, Type, Project, Risk, Planned Start Date, Planned End Date, Total Task Count, Days in Current State The paired relationship field is : Change Requests.	Relationship
Description	Detailed description of the issue.	Longtext

Field list for type: Defect

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Assigned Group	none	Group
Project	none	Project
Attachments	none	Attachment
Closed Date	Date when change order was closed This is a computed field.	Date
Task Phase	Phase for this task - Pending, Open or Closed	Phase
Priority	Priority of the issue. Options are : Low, Medium, High, Critical.	Pick
Domain	Solution domain for this change request Options are : Input, Requirement, Specification, Test, Source.	Pick
Effort	The level of effort to complete the item. Options are : Small, Medium, Large, Very.	Pick
Risk	Risk of implementing the item. Options are : Critical, High, Medium, Low.	Pick
Authorizes Changes To	External relationship between change orders and the nodes or segments that they authorize work for Default Columns: ID, Document ID, Category, Type, Text, Significant Edit Date The paired relationship field is : Changes Authorized By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Spawned By	Relationship between a change order and the item that caused the change order to be created. Default Columns: ID, Type, State, Summary, Text, Assigned User The paired relationship field is : Spawns.	Relationship
Detected During	The phase of the lifecycle in which a defect was detected. Options are : Requirements, Design, Coding, Testing, Post.	Pick
Found by Test Objective	The test objective that was being tested when this issue was found. Options are : Feature testing, Feature testing, Regression testing, System and interface testing, System and interface testing, Visual	Backing type: test objective

	implementation testing, Weekly regression testing results, Position:, Relevance Rule:, Editability Rule:, Issue Backed Pick, Backing Type: Test, Backing Text Field:, Backing Text Format: {Summary}, Backing, Backing Filter:, Display As Link:, Rules:, none, ----- -----.	
Actual Effort	Time recorded against this item, in hours, not including sub-items This is a computed field.	Float
Estimated Effort	Estimated number of days to complete this item not including sub-items The default value is : 0.	Float
Introduced During	The root cause(s) for the defect. Options are : Requirements, Architecture, Design, Coding, Testing.	Pick
Open Change Package Count	Number of open change packages on this item This is a computed field.	Integer
Artifact Affected	The type of artifact affected by this defect. Valid values are Hardware, Software or Documentation. Options are : Hardware, Software, Documentation.	Pick
Change Package Count	Number of change packages on this item, including open change packages This is a computed field.	Integer
Defect For	The container for this defect. Default Columns: ID, Type, State, Project, Assigned User, Summary The paired relationship field is : Defects.	Relationship
Change Package Entry Count	The total number of source file changes caused by this item, summing over all change packages. This metric counts once for every change to every file, not once per file. This is a computed field.	Integer
Days in Current State	Number of days this item has been in its current state. This is a computed field.	Integer
Blocks	The test cases that are blocked by this defect since they are known to fail. Default Columns: ID, Document ID, Type, Category, Significant Edit Date, Text The paired relationship field is : Blocked By.	Relationship
Blocking	The defect is currently blocking test cases when this field value is true. Until this defect is resolved, the test cases listed in the 'Blocks" field are known to fail. This is a computed field.	Logical
Retired States	A phase field which includes retired states.	Phase
Description	Detailed description of the issue.	Longtext
Authorized Change Count	Number of item changes authorized by this task. This count will include even trivial edits authorized by the task, so the number should be treated as a general indication of the task's impact, not a true measure of the size of the changes. The default value is : 0.	Integer

Field list for type: Input

Field Name	Field Description	Field Type
Additional Comments	A collection of additional comments on a variety of item types.	Longtext
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
State	none	State
Project	none	Project
Significant Edit Date	Date of last significant modification to this item. Since this item is a node type, the value is the date of the last significant edit on either the node or the shared item, whichever is latest.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Suspect Count	The number of suspect links on this node This is a computed field.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
IncludeReference	Solution-managed field which is set to true if this node currently references an included subsegment. It is marked "Never Relevant" because the end user does not need to see the value, however reports need it. The default value is : false.	Logical
Priority	Priority of the issue. Options are : Low, Medium, High, Critical.	Pick
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired	Relationship

	relationship field is : Spawned By.	
Decomposes To	Trace relationship between a higher level artifact and a lower level artifact. Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Decomposed From.	Relationship
Is Related To	Generic trace relationship between two nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To'.	Relationship
Is Related To'	Generic trace relationship between two related nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To.	Relationship
Text	The primary contents of the artifact	Fva
Item Significant Edit Date on Shared Item	The last significant edit date, FVA'ed from the Shared Item	Fva
Text Attachments	The attachments exposed on the shared item	Fva
Project State	The state of the project	Fva
Project Phase FVA	The phase of this item's project.	Fva
Include Subsegment in Metrics	Indicates whether the referenced subsegment's metrics should be included in the project's metrics. Default is true. Relevant only when the node is currently referencing a subsegment. The default value is : true.	Logical
Trace Status	Summary of the trace relationships emanating from this node. upstream/downstream corresponds to backward/forward direction. upstream => at least one upstream trace exists. downstream => at least one downstream trace exists. related => at least one peer trace (Is Related To) exists. suspect => at least one of the traces is suspect in the indicated class of traces. Options are : none, downstream, related, downstream, downstream related, downstream, downstream suspect, downstream suspect related, related, upstream, upstream, upstream downstream, upstream downstream related, upstream downstream, upstream downstream suspect, upstream downstream suspect related, upstream, upstream related, upstream, upstream suspect, upstream suspect downstream, upstream	Pick

	suspect downstream related, upstream suspect downstream, upstream suspect downstream suspect, upstream suspect downstream suspect related, upstream suspect, upstream suspect related.	
Downstream Trace Count	The total count of all downstream traces including Decomposes To, Validated By and Satisfied By. This is a computed field.	Integer
Upstream Trace Count	The total count of all upstream traces including Decomposed From, Validates and Satisfies. This is a computed field.	Integer

Field list for type: Input Document

Field Name	Field Description	Field Type
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Project	none	Project
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
Allow Edits	Document computation which controls whether the main text of the content is editable This is a computed field.	Logical
Use Hierarchical Editability	Field exposed on document roots which, when true, enables change order and document-level authorization controls This is a computed field.	Logical
Root Document	Document field which, when true, causes the document to show up as a top-level document in the project The default value is : true.	Logical
Needs New Changes	A flag indicating that it must be taken out of the Delivered state by a member of the executive group. Editable only in the Delivered state by a member of the Senior Project Team dynamic group. When set to "true", a notification is sent to the Executive group. The default value is : false.	Logical
Allow Traces	Document computation which controls whether traces can be added to the document contents This is a computed field.	Logical
Allow Links	Document computation which controls whether external relationships can be added to the document contents This is a computed field.	Logical

Shared Text	The main payload for the document contents	Longtext
Document Phase	Phase values for Document items.	Phase
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	Relationship
Documents	Relationship between segments and the projects that they document. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Documented By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Project State	The state of the project	Fva
Initial Baseline	Date of initial baseline for this document. After the initial baseline subsequent changes to the document are counted and reported in the project churn and stability metrics.	Date
Document Churn from Initial Baseline	Cumulative total number of changes made to meaningful content in this document since its initial baseline. Note this metric counts only significant changes to the shared items and does not include nodes that have been dropped from the document. The metric is calculated every day using the DailyChurnMetrics trigger. The value of Yesterday Document Churn is added to the current value if Initial Baseline is set. The default value is : 0.	Integer
Project Phase FVA	The phase of this item's project.	Fva
Document Short Title	The short name of the document. The value is editable by the user and is used to construct the full name that is stored in the Summary and Shared Text fields. The Document Name trigger constructs the full name of the document.	Shorttext
Modified Count Since Initial Baseline	The number of meaningful contents inside this segment that have been modified since the Initial Baseline date. This metric is calculated daily for all documents for which the Initial Baseline has been set, for all active	Integer

	projects in the system. The default value is : 0.	
Retired States	A phase field which includes retired states.	Phase
All Content Count	The number of content items in this segment. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Meaningful Content Count	The number of meaningful items in this segment. This document metric is calculated once a day.	Integer
Suspect Content Count	The number of suspect content items in this segment. This document metric is calculated once a day.	Integer
Suspect Relationship Count	The number of suspect links in this segment. This document metric is calculated once a day.	Integer
Included Document Count	The number of included segment in this segment. This document metric is calculated once a day.	Integer
Inserted Document Count	The number of segments referenced by this segment. This document metric is calculated once a day.	Integer
Open Change Order Count	The number of change orders that are open against this document. This field is used by triggers to prevent a document transition to the In Review state when there are still open change orders. This document metric is calculated dynamically.	Integer
Closed Change Order Count	The number of closed change orders against this document. This document metric is calculated once a day.	Integer
Outstanding Change Request Count	The number of unsatisfied change requests that have caused change authorizations to be applied against this document. This document metric is calculated once a day.	Integer
Suspect Content Percentage	Percent of contents in this segment that have at least one suspect link. This document metric is calculated once a day.	Float
Yesterday Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past day. Counts up the number of meaningful nodes whose Significant Edit Date indicates a significant edit has occurred in the past day. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project	Integer

	activity view. The default value is : 0.	
Last Week Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past week. Counts up the number of meaningful nodes whose shared items have been modified in the past week. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. It also doesn't add to the count when the node is modified. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Post Branch Edit	Used by the PTC ALM solution to help enforce document naming conventions.	Shorttext

Field list for type: Library

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Project	none	Project
Attachments	none	Attachment
Top Level Document Count	The number of top-level documents in this project. This project metric is calculated every time the item is edited. This is a computed field.	Integer
Documents Added Yesterday Count	The number of segments added to this project yesterday. This project metric is calculated once a day. This is a computed field.	Integer
Documents Modified Yesterday Count	The number of segments modified in this project yesterday. This project metric is calculated once a day. This is a computed field.	Integer
Change Order Authorizations In Effect	Name of the project field which when true enables change order authorizations for all documents in the project. When false, change orders are ignored and changes made to documents are not logged on change order items. Note that change orders are ignored when the document is in the Open phase, regardless of the value of this field. The field Use Hierarchical Editability is false when the document is in the Open phase. The default value is : false.	Logical
Show In Finder	Project field which, when true, causes the project to show up in the finder dialog The default value is : true.	Logical
Accept Change Requests	When false, change requests can't be allocated to this Project. The default value is : true.	Logical
Allow Scope Expansion	Determines whether Change Orders or Defects can be assigned to documents within the project by the user to whom the task is assigned. If this flag is true the user may change the document or the nodes in which the changes are authorized. The default value is : false.	Logical
Documented By	Segment roots corresponding to the top-level documents in the project. Default Columns: ID, Type, Shared Category, Summary, State, Meaningful Content Count, Order The paired relationship field is : Documents.	Relationship
Project Allow Scope Expansion	The scope expansion setting of the project. The Allow Scope Expansion field on the project determines whether Change Orders or Defects can be assigned to	Fva

	documents within the project by the user to whom the task is assigned. If this flag is true the user may change the document or the nodes in which the changes are authorized.	
Project Phase	Phase of development of the current project	Phase
Requirement Count	Current requirement count for this project. Counts only meaningful content in requirements documents. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Specification Count	Current specification count for this project. Counts only meaningful content in specification documents. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Test Case Count	Current test case count for this project. Counts only meaningful content in test suites and test groups. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Included Document Count in Project	The number of included documents in this project. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Inserted Document Count in Project	The number of segments referenced from segments in this project. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Classification	The class of an item that backs projects. Options are : Project, Library, Template.	Pick
Description	Detailed description of the issue.	Longtext

Field list for type: MKS Solution

Field Name	Field Description	Field Type
Global Inactive Project Count	The number of inactive projects in the system. This global metric is calculated once a week. This is a computed field.	Integer
Global Active Project Count	The number of active projects in the system. This global metric is calculated once a week. This is a computed field.	Integer
Global Completed Project Count	The number of completed projects in the system. This global metric is calculated once a week. This is a computed field.	Integer
Change Request Count In Active Projects	The number of change requests in active projects in the system. This global metric is calculated once a week. This is a computed field.	Integer
Change Order Count In Active Projects	The number of change orders in all active projects in the system. This global metric is calculated once a week. This is a computed field.	Integer
Document Count In Active Projects	The number of documents in active projects. This global metric is calculated once a week. This is a computed field.	Integer
Global Document Count	The number of documents in the system. This global metric is calculated once a week. This is a computed field.	Integer
Content Count In Active Projects	The number of content items in active projects. This global metric is calculated once a week. This is a computed field.	Integer
Global Content Count	The number of content items in the system. This global metric is calculated once a week. This is a computed field.	Integer
Author Reference Count In Active Projects	The number of content items in active projects with a reference mode of author. This global metric is calculated once a week. This is a computed field.	Integer
Reuse Reference Count In Active Projects	The number of content items in active projects with a reference mode of reuse. This global metric is calculated once a week. This is a computed field.	Integer
Share Reference Count In Active Projects	The number of content items in active projects with a reference mode of share. This global metric is calculated once a week. This is a computed field.	Integer
Average Document Content Count	The mean average content count per document, for all documents in the system. This global metric is	Integer

	calculated once a week. This is a computed field.	
Maximum Document Content Count	The maximum content count per document, for all documents in the system. This global metric is calculated once a week. This is a computed field.	Integer
Orphaned Node Count	The number of orphaned nodes in the system. This global metric is calculated once a week. This is a computed field.	Integer
Orphaned Shared Item Count	The number of orphaned shared items in the system. This global metric is calculated once a week. This is a computed field.	Integer
Global Unallocated Change Request Count	The number of unallocated change requests in the system. This global metric is calculated once a week. This is a computed field.	Integer
Global Partially Satisfied Change Request Count	The number of partially satisfied change requests in the system. This global metric is calculated once a week. This is a computed field.	Integer

Field list for type: Portfolio

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Attachments	none	Attachment
Stakeholders	Item stakeholders	User
Total Actual Budget	Actual budget to complete this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Total Estimated Budget	Estimated budget for this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	Float
Total Actual Effort	Time recorded, in hours, against this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Total Estimated Effort	Estimated number of days to complete this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	Float
Total Change Package Count	Number of change packages on this item and all sub-items if applicable, including open change packages This is a computed field.	Integer
Total Open Change Package Count	Number of open change packages on this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Integer
Managed Type	Indicates the type of objects managed by this portfolio Options are : Product, Project.	Pick
Manages	The projects or products that this portfolio manages. Default Columns: ID, State, Summary, Assigned User The paired relationship field is : Managed By.	Relationship
Total Remaining Effort	Amount of effort remaining for this item and all sub-items if applicable. The metric sums up the Estimated Effort values for all items that are not in the Closed phase. Thus the estimated effort contribution is either at 0% or 100%. This is a computed field.	Float
Green Project Count 2	Number of active projects related to this portfolio with a "green" health indicator. For product portfolios, only	Integer

	active projects are included. For project portfolios, all projects are included. This portfolio metric is calculated once a day. This is a computed field.	
Yellow Project Count 2	Number of active projects related to this portfolio with a "yellow" health indicator. For product portfolios, only active projects are included. For project portfolios, all projects are included. This portfolio metric is calculated once a day. This is a computed field.	Integer
Red Project Count 2	Number of active projects related to this portfolio with a "red" health indicator. For product portfolios, only active projects are included. For project portfolios, all projects are included. This portfolio metric is calculated once a day. This is a computed field.	Integer
Managed Product Count	Number of products managed by this portfolio. This portfolio metric is calculated each time it is viewed. This is a computed field.	Integer
Managed Project Count	Number of active projects managed by this portfolio. This portfolio metric is calculated each time it is viewed. This is a computed field.	Integer
Pending Task Count	Number of pending tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	Integer
Open Task Count	Number of open tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	Integer
Closed Task Count	Number of closed tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is calculated once a day. This is a computed field.	Integer

Total Task Count	Number of tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field, and that those types must always belong to a valid phase. This metric is calculated once a day. This is a computed field.	Integer
Description	Detailed description of the issue.	Longtext

Field list for type: Product

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Attachments	none	Attachment
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Total Change Order Count	The total number of change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Change Order Count	The number of change orders in this project that are still pending. This project metric is calculated once a week. This is a computed field.	Integer
Closed Change Order Count for Project	The number of closed change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Stakeholders	Item stakeholders	User
Open Defect Count	Number of open defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Closed Defect Count	Number of closed defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Total Defect Count	Total number of defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Total Actual Budget	Actual budget to complete this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Total Estimated Budget	Estimated budget for this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	Float
Total Actual Effort	Time recorded, in hours, against this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Total Estimated Effort	Estimated number of days to complete this item and all sub-items if applicable. For products and product	Float

	portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	
Total Change Package Count	Number of change packages on this item and all sub-items if applicable, including open change packages This is a computed field.	Integer
Total Open Change Package Count	Number of open change packages on this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Integer
Managed By	The managing container for this item. Default Columns: ID, State, Summary, Managed Type, Assigned User The paired relationship field is : Manages.	Relationship
Average Budget Variance	Average budget variance for all active projects related to a product or all projects in a project portfolio. This metric is calculated once a week. This is a computed field.	Float
Average Effort Variance	Average effort variance for all active projects related to a product or all projects in a project portfolio. This product metric is calculated once a week. This is a computed field.	Float
Product Health Value	Health value of an application based on the maximum health value of all related active projects. This product metric is calculated once a week. This is a computed field.	Integer
Product Health Value Range	Application health indicator based on all related active projects. This product metric is calculated once a day.	Range
Active Projects	Active projects belonging to a product. Default Columns: ID, Summary, State, Assigned User, Project, Top Level Document Count, Product Manager, Days in Current State, Total Task Count, Open Task Count	Qbr
Green Project Count	Number of active projects related to this item with a "green" health indicator. This product metric is calculated once a week. This is a computed field.	Integer
Yellow Project Count	Number of active projects related to this item with a "yellow" health indicator. This product metric is calculated once a week. This is a computed field.	Integer
Red Project Count	Number of active projects related to this item with a "red" health indicator. This product metric is calculated once a week. This is a computed field.	Integer
Active Project Count	Number of projects that are related to this product that are currently active. This product metric is calculated once a week. This is a computed field.	Integer
Proposed	List of all proposed projects belonging to a product.	Qbr

Projects	Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags	
Completed Projects	List of all completed projects belonging to a product. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags	Qbr
Inactive Projects	List of all inactive projects belonging to a product. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags	Qbr
Proposed Project Count	Number of projects related to this product that are in the Proposed phase. This product metric is calculated once a week. This is a computed field.	Integer
Inactive Project Count	Number of projects that are related to this product that are currently inactive. This product metric is calculated once a week. This is a computed field.	Integer
Completed Project Count	Number of projects that are related to this product that are completed. This product metric is calculated once a week. This is a computed field.	Integer
Source Project	Source code management project for the product.	Siproject
Lines of code	Number of lines of code in the Source project of a product. This product metric is calculated once a week. This is a computed field.	Integer
Source File Count	Number of files in the source code project for a product. This Product metric is calculated once a week. This is a computed field.	Integer
Source Subproject Count	Number of subprojects in the Source code project of a product. This Product metric is calculated once a week. This is a computed field.	Integer
Source Checkpoint Count	Number of checkpoints in the Source project of a product. This product metric is calculated once a week. This is a computed field.	Integer
At Risk Projects	At risk projects associated with this product. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags	Qbr
Belongs to Portfolio	True if this project or product is part of a portfolio. This field is calculated dynamically based on whether the Managed By field is set. This is a computed field.	Logical
Open Change Order Count for Project	The number of open change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Defect Count	Number of pending defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Test	Number of pending test objective tasks in this project.	Integer

Objective Count	This project metric is calculated once a week. This is a computed field.	
Open Test Objective Count	Number of open test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Closed Test Objective Count	Number of closed test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Total Test Objective Count	Number of test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Task Count	Number of pending tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	Integer
Open Task Count	Number of open tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	Integer
Closed Task Count	Number of closed tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is calculated once a day. This is a computed field.	Integer
Total Task Count	Number of tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field, and that those types must always belong to a valid phase. This metric is calculated once a	Integer

	day. This is a computed field.	
Product Survey Results	Listing of all survey items posted against a given product in an Open state. Default Columns: ID, Type, State, Average Survey Score, Assigned User	Qbr
Customer Satisfaction Score	This field captures the average score for all survey results posted against this project or product in an Open state. This metric is calculated once a week. This is a computed field.	Float
Description	Detailed description of the issue.	Longtext
Total Work Item Count	Number of work items in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Work Item Count	Number of pending (proposed) work items in this project. This project metric is calculated once a week. This is a computed field.	Integer
Open Work Item Count	Number of open (active) work items in this project. This project metric is calculated once a week. This is a computed field.	Integer
Closed Work Item Count	Number of closed (inactive) work items in this project. This project metric is calculated once a week. This is a computed field.	Integer

Field list for type: Project

Field Name	Field Description	Field Type
isParent	An integer field used to determine whether a process item is a parent and contains children process items. This is primarily used by the Gantt Chart report recipe. The computation returns 1 when the process item contains a child relationship, or 0 when it does not. This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Project	none	Project
Attachments	none	Attachment
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Change Request Count	The number of change requests in this project. This project metric is calculated once a week. This is a computed field.	Integer
Unallocated Change Request Count	The number of unallocated change requests in this project. This project metric is calculated once a day. This is a computed field.	Integer
Closed Change Requests	The number of closed change requests in this project. This project metric is calculated once a day. This is a computed field.	Integer
Total Change Order Count	The total number of change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Change Order Count	The number of change orders in this project that are still pending. This project metric is calculated once a week. This is a computed field.	Integer
Closed Change Order Count for Project	The number of closed change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Top Level Document Count	The number of top-level documents in this project. This project metric is calculated every time the item is edited. This is a computed field.	Integer
Documents Added Yesterday Count	The number of segments added to this project yesterday. This project metric is calculated once a day. This is a computed field.	Integer
Documents Modified	The number of segments modified in this project yesterday. This project metric is calculated once a	Integer

Yesterday Count	day. This is a computed field.	
Change Order Authorizations In Effect	Name of the project field which when true enables change order authorizations for all documents in the project. When false, change orders are ignored and changes made to documents are not logged on change order items. Note that change orders are ignored when the document is in the Open phase, regardless of the value of this field. The field Use Hierarchical Editability is false when the document is in the Open phase. The default value is : false.	Logical
Show In Finder	Project field which, when true, causes the project to show up in the finder dialog The default value is : true.	Logical
Accept Change Requests	When false, change requests can't be allocated to this Project. The default value is : true.	Logical
Allow Scope Expansion	Determines whether Change Orders or Defects can be assigned to documents within the project by the user to whom the task is assigned. If this flag is true the user may change the document or the nodes in which the changes are authorized. The default value is : false.	Logical
Risk	Risk of implementing the item. Options are : Critical, High, Medium, Low.	Pick
Documented By	Segment roots corresponding to the top-level documents in the project. Default Columns: ID, Type, Shared Category, Summary, State, Meaningful Content Count, Order The paired relationship field is : Documents.	Relationship
Stakeholders	Item stakeholders	User
Project Allow Scope Expansion	The scope expansion setting of the project. The Allow Scope Expansion field on the project determines whether Change Orders or Defects can be assigned to documents within the project by the user to whom the task is assigned. If this flag is true the user may change the document or the nodes in which the changes are authorized.	Fva
Change Requests For Project	All change requests assigned to this project. Default Columns: ID, State, Created By, Summary, Project	Qbr
Open Defect Count	Number of open defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Closed Defect Count	Number of closed defects in this project. This project metric is calculated once a week. This is a computed	Integer

	field.	
Total Defect Count	Total number of defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Total Planned Count	The number of test cases planned in test objectives. Results from child process items are included. This is a computed field.	Integer
Total Pass Count	The number of test cases with a pass verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Fail Count	The number of test cases with a fail verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Other Count	The number of test cases with an other verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Run Count	The number of test cases with a last result. Results from child process items are included. This is a computed field.	Integer
Total Blocked Count	The number of test cases in test objectives that are blocked by a defect. Results from child process items are included. This is a computed field.	Integer
Total Suspect Results Count	The number of test cases in test objectives that have suspect results. Results from child process items are included. This is a computed field.	Integer
Total Pass Percentage of Planned	Percent of total planned test cases with a pass verdict type last result. Results from child process items included. This is a computed field.	Float
Total Pass Percentage of Run	Percent of test cases run in test objectives with a pass verdict type last result. Results from child process items included. This is a computed field.	Float
Total Run Percentage	Percent of test cases planned in test objectives with a last result. Results from child process items are included. This is a computed field.	Float
Product	Product related to this item Options are : Tempus Classic -, Tempus Modern -, Tempus Rugged -, Position:, Relevance Rule:, Editability Rule:, Issue Backed Pick, Backing Type:, Backing Text Field:, Backing Text Format: {Summary} -, Backing States:, Backing Filter:, Display As Link:, Rules:, none, ----- -----.	Backing type: product
Product Parameters	Displays the list of Parameters set on the related Product item.	Fva

Project Phase	Phase of development of the current project	Phase
Actual Budget	Budget for this item not including sub-items The default value is : 0.	Float
Estimated Budget	Estimated budget for this item not including sub-items The default value is : 0.	Float
Total Actual Budget	Actual budget to complete this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Budget Variance	Budget variance for this item not including sub-items This is a computed field.	Float
Actual Effort	Time recorded against this item, in hours, not including sub-items This is a computed field.	Float
Total Estimated Budget	Estimated budget for this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	Float
Total Budget Variance	Budget variance for this item and all sub-items if applicable This is a computed field.	Float
Total Budget Variance Range	Budget variance indicator for this item and all sub-items if applicable	Range
Total Actual Effort	Time recorded, in hours, against this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Test Plans	Test plans allocated to the current project. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Test Plan For.	Relationship
Total Estimated Effort	Estimated number of days to complete this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	Float
Total Effort Variance Range	Time variance indicator for this item and all sub-items if applicable	Range
Total Effort Variance	Difference between estimated time and actual time, in hours, for this item and all sub-items if applicable This is a computed field.	Float
Health Value	Health value considering both time and budget for this item and all sub-items if applicable. This project metric is calculated once a day. This is a computed field.	Integer

Effort Variance	Difference between estimated time and actual time, in hours, for this item not including sub-items. This is a computed field.	Float
Product Manager	User that owns the product that benefits from this project	Fva
Estimated Effort	Estimated number of days to complete this item not including sub-items The default value is : 0.	Float
Project Start Original Estimate	This milestone marks the beginning of the project start state in the preparing phase. At this stage, the project is officially approved for commencement.	Date
Project Acceptance Original Estimate	This milestone marks the end of the project preparation phase. At this point minimal resources may have been assigned to the project. A project schedule may be complete or pending. There may be ongoing development activities for committed functional specifications.	Date
Project Plan Original Estimate	This milestone marks the completion of the project planning activities. At this stage, resources have been assigned to the project. A project schedule exists.	Date
Functional Specification Freeze Original Estimate	At this milestone the product is ready to be handed over to Quality Assurance for stabilization. All committed functional specifications have been designed, reviewed, and implemented.	Date
Code Freeze Original Estimate	At this milestone the product is considered stable and ready to be delivered to customers for beta testing, if applicable.	Date
Project Start Current Estimate	Current estimate for project start	Date
Project Acceptance Current Estimate	Current estimate for project acceptance	Date
Project Plan Current Estimate	Current estimate for the project plan date	Date
Functional Specification Freeze Current Estimate	Current estimate for the functional specification freeze date for the project	Date
Code Freeze Current Estimate	Current estimate for the code freeze date for the project	Date
Project Start Actual	Date on which the project entered the Started state This is a computed field.	Date
Project	Date on which the project was accepted - date of	Date

Acceptance Actual	first entry into the Accepted state. This is a computed field.	
Project Plan Actual	Date on which the project first entered the Active state. This is a computed field.	Date
Functional Specification Freeze Actual	Date on which the project first entered the Defined state. This is a computed field.	Date
Code Freeze Actual	Date project first entered "In Testing" state This is a computed field.	Date
Development Complete Original Estimate	At this milestone the product is complete and ready for general availability.	Date
Development Complete Current Estimate	Current estimate of the development complete date.	Date
Development Complete Actual	Date on which the project last entered the Completed state. This is a computed field.	Date
Total Change Package Count	Number of change packages on this item and all sub-items if applicable, including open change packages This is a computed field.	Integer
Total Open Change Package Count	Number of open change packages on this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Integer
Managed By	The managing container for this item. Default Columns: ID, State, Summary, Managed Type, Assigned User The paired relationship field is : Manages.	Relationship
Work Items	Work items contained by this item. Work items are allocated at the top level to projects, and they can be nested to an arbitrary extent to create a work breakdown structure. Default Columns: ID, Summary, State, Risk, Planned Start Date, Planned End Date, Total Task Count, Days in Current State The paired relationship field is : Work Item For.	Relationship
Day Count	Number of days elapsed for the project ignoring the time spent in "Suspended" or any of the terminal states. Days spent in "Proposed" and "Accepted" are counted even though these initial states could have long lead times that are unrelated to the amount of effort required to complete the project. This is a computed field.	Integer
Total Remaining Effort	Amount of effort remaining for this item and all sub-items if applicable. The metric sums up the	Float

	Estimated Effort values for all items that are not in the Closed phase. Thus the estimated effort contribution is either at 0% or 100%. This is a computed field.	
Burn Rate	Amount by which the budget is decreased for each day of operation. The default value is : 1000.	Float
Running Cost	The current total time spent on completed items plus the estimates for items that haven't been completed (represented in dollars). This is a computed field.	Float
Cost Stability Index	Project cost stability index. Ratio of estimated cost over actual cost. Hovers around 100, but will drift downwards when costs are incurred for work that is not yet marked as completed. A value of >100 means the project is coming in under budget. This is a computed field.	Float
Health Value Range	Project health indicator. This project metric is calculated once a day.	Range
Original Schedule	Original estimate of number of days to project completion starting from the day it first entered the Active state. This is a computed field.	Integer
Current Schedule	Current estimate of number of days to project completion starting from the day it first entered the Active state. This is a computed field.	Integer
Schedule Stability Index	Ratio of Original Schedule over Current Schedule, where each quantity is a calculation of number of days from project start to development complete. Values <100 indicate the project is slipping, while >100 indicates the project is ahead of schedule. This is a computed field.	Float
Requirement Count Change	The change in number of requirements compared to one week ago. This project metric is calculated once a day. This is a computed field.	Integer
Requirement Stability Index	Total number of requirements in the project divided by the sum of Document Churn from Initial Baseline for all Requirement Documents. This metric decreases from 100 as the churn increases and can never exceed 100. Only documents that have been baselined with the Initial Baseline are included in this metric. This is a computed field.	Float
Requirement Defects Slipped	Number of defects originating in the requirements phase that were detected in other phases of the project. This is a computed field.	Integer

Coding Defects Slipped	Number of defects originating during coding that were detected in other phases of the project. This is a computed field.	Integer
Design Defects Slipped	Number of defects originating in the design phase that were detected in other phases of the project. This is a computed field.	Integer
Days in Current State	Number of days this item has been in its current state. This is a computed field.	Integer
Open Test Session Count	Number of test sessions in the open phase. This project metric is calculated once a week. This is a computed field.	Integer
Pending Test Session Count	Number of test sessions in the pending phase. This project metric is calculated once a week. This is a computed field.	Integer
Closed Test Session Count	Number of test sessions in the closed phase. This project metric is calculated once a week. This is a computed field.	Integer
Belongs to Product	True if this project is part of a product. This field is calculated dynamically based on whether the Product field is set. This is a computed field.	Logical
Belongs to Portfolio	True if this project or product is part of a portfolio. This field is calculated dynamically based on whether the Managed By field is set. This is a computed field.	Logical
Open Change Order Count for Project	The number of open change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Defect Count	Number of pending defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Test Objective Count	Number of pending test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Open Test Objective Count	Number of open test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Closed Test Objective Count	Number of closed test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Total Test Objective Count	Number of test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Task Count	Number of pending tasks (change orders, defects and test objectives) belonging to this item and all	Integer

	sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	
Open Task Count	Number of open tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	Integer
Closed Task Count	Number of closed tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is calculated once a day. This is a computed field.	Integer
Total Task Count	Number of tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field, and that those types must always belong to a valid phase. This metric is calculated once a day. This is a computed field.	Integer
Risks	All project risks actively being tracked through Risk items. Default Columns: ID, Type, State, Summary, Order, Relationship Flags	Qbr
Project Survey Results	Listing of all survey items posted against a given project that are in an Open state. Default Columns: ID, Type, State, Average Survey Score, Assigned User	Qbr
Customer Satisfaction Score	This field captures the average score for all survey results posted against this project or product in an Open state. This metric is calculated once a week. This is a computed field.	Float
Test Case Content	The number of test cases in this project belonging to	Integer

Count - Open	documents in the Open phase. This project metric is calculated once a day via the DailyMetrics trigger.	
Test Case Content Count - In Review	The number of test cases in this project belonging to documents in the In Review phase. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Test Case Content Count - Published	The number of test cases in this project belonging to documents in the Restricted phase. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Retired States	A phase field which includes retired states.	Phase
Requirement Count	Current requirement count for this project. Counts only meaningful content in requirements documents. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Specification Count	Current specification count for this project. Counts only meaningful content in specification documents. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Test Case Count	Current test case count for this project. Counts only meaningful content in test suites and test groups. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Test Suite Count	Current count of test suites and test groups that are documenting this project. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Included Document Count in Project	The number of included documents in this project. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Inserted Document Count in Project	The number of segments referenced from segments in this project. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Requirement Count from Initial Baseline	Count of all requirements in the project belonging to documents that have been baselined with the Initial Baseline. This project metric is calculated once a day via the DailyMetrics trigger.	Integer
Suspect Content Percentage In Project	Percent of content items that are suspect in the project. This project metric is calculated once a day via the DailyMetrics trigger.	Float
Untraced Content Percentage	Percent of meaningful contents that do not have trace relationships. This project metric is calculated once a day via the DailyMetrics trigger.	Float
Unsatisfied	Percent of requirement domain content items that	Float

Requirements Percentage	do not have traces to the specification domain. This project metric is calculated once a day via the DailyMetrics trigger.	
Unverified Requirements Percentage	Percent of meaningful requirement domain content items that do not have traces to the test domain. This project metric is calculated once a day via the DailyMetrics trigger.	Float
Untraced Inputs Percentage	Percent of meaningful input domain content items that do not have traces to the requirement domain. This project metric is calculated once a day via the DailyMetrics trigger.	Float
Classification	The class of an item that backs projects. Options are : Project, Library, Template.	Pick
Description	Detailed description of the issue.	Longtext
Total Work Item Count	Number of work items in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Work Item Count	Number of pending (proposed) work items in this project. This project metric is calculated once a week. This is a computed field.	Integer
Open Work Item Count	Number of open (active) work items in this project. This project metric is calculated once a week. This is a computed field.	Integer
Closed Work Item Count	Number of closed (inactive) work items in this project. This project metric is calculated once a week. This is a computed field.	Integer
Total Test Session Count	Total number of test sessions. This project metric is calculated once a week. This is a computed field.	Integer
New Defect Count - Priority Low	A computation to identify low priority defects This is a computed field.	Integer
New Defect Count - Priority High	A computation to identify high priority defects This is a computed field.	Integer
New Defect Count - Priority Medium	A computation to identify medium priority defects This is a computed field.	Integer
New Defect Count - Priority Critical	A computation to identify critical priority defects This is a computed field.	Integer

Field list for type: Requirement

Field Name	Field Description	Field Type
Additional Comments	A collection of additional comments on a variety of item types.	Longtext
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
State	none	State
Project	none	Project
Attachments	none	Attachment
Parameter Values	The parameter values for substitution	Longtext
Significant Edit Date	Date of last significant modification to this item. Since this item is a node type, the value is the date of the last significant edit on either the node or the shared item, whichever is latest.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Suspect Count	The number of suspect links on this node This is a computed field.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
IncludeReference	Solution-managed field which is set to true if this node currently references an included subsegment. It is marked "Never Relevant" because the end user does not need to see the value, however reports need it. The default value is : false.	Logical
Priority	Priority of the issue. Options are : Low, Medium, High, Critical.	Pick
Satisfied By	Trace relationship between requirements and the specifications that satisfy them Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Satisfies.	Relationship
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned	Relationship

	User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	
Validated By	Trace relationship between requirements and the test cases that validate them Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Validates.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Decomposes To	Trace relationship between a higher level artifact and a lower level artifact. Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Decomposed From.	Relationship
Decomposed From	Trace relationship between a lower level artifact and a higher level artifact. Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Decomposes To.	Relationship
Is Related To	Generic trace relationship between two nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To'.	Relationship
Is Related To'	Generic trace relationship between two related nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To.	Relationship
Text	The primary contents of the artifact	Fva
Item Significant Edit Date on Shared Item	The last significant edit date, FVA'ed from the Shared Item	Fva
Text Attachments	The attachments exposed on the shared item	Fva
Project State	The state of the project	Fva
Parameters From Shared Item	Displays parameters that are set on the shared item.	Fva
Parameter Values From Shared Item	Displays parameter values that are set on a shared item.	Fva
Project Phase FVA	The phase of this item's project.	Fva

Include Subsegment in Metrics	Indicates whether the referenced subsegment's metrics should be included in the project's metrics. Default is true. Relevant only when the node is currently referencing a subsegment. The default value is : true.	Logical
Validated By Trace Count	The number of Validated By trace relationships. This is a computed field.	Integer
Validated By Trace Health	A range field that identifies a simple evaluation of trace health. >1 Validated By Trace Count results in a Green status indicator, <1 Validated By Trace Count results in a Red status indicator. This field could be adapted to support a more complex example, where trace health is determined by the number of estimated traces required compared with the actual number of traces.	Range
Trace Status	Summary of the trace relationships emanating from this node. upstream/downstream corresponds to backward/forward direction. upstream => at least one upstream trace exists. downstream => at least one downstream trace exists. related => at least one peer trace (Is Related To) exists. suspect => at least one of the traces is suspect in the indicated class of traces. Options are : none, downstream, related, downstream, downstream related, downstream, downstream suspect, downstream suspect related, related, upstream, upstream, upstream downstream, upstream downstream related, upstream downstream, upstream downstream suspect, upstream downstream suspect related, upstream, upstream related, upstream, upstream suspect, upstream suspect downstream, upstream suspect downstream related, upstream suspect downstream, upstream suspect downstream suspect, upstream suspect downstream suspect related, upstream suspect, upstream suspect related.	Pick
Downstream Trace Count	The total count of all downstream traces including Decomposes To, Validated By and Satisfied By. This is a computed field.	Integer
Upstream Trace Count	The total count of all upstream traces including Decomposed From, Validates and Satisfies. This is a computed field.	Integer
Validated By Pass	A computation which determines the number of	Integer

Count	Validated By trace relationships which have a Pass last result. This is a computed field.	
Validated By Pass Percentage	A computation which determines the percentage of Validated By traces which have a last results of Passed. This is used by the Requirements Test Coverage and Specification Test Coverage reports to display test status per requirement and per specification. This is a computed field.	Float
Revision	The name of the most recent revision of this item, empty if the item has never been revisioned.	Shorttext
Revision Increment Date	The date of the delta associated with the most recent revision of this item, empty if this item has never been revisioned.	Date
Significant Change Since Item Revision	Has this item changed in a significant manner since it was last revisioned?	Logical

Field list for type: Requirement Document

Field Name	Field Description	Field Type
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Project	none	Project
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
Allow Edits	Document computation which controls whether the main text of the content is editable This is a computed field.	Logical
Use Hierarchical Editability	Field exposed on document roots which, when true, enables change order and document-level authorization controls This is a computed field.	Logical
Root Document	Document field which, when true, causes the document to show up as a top-level document in the project The default value is : true.	Logical
Needs New Changes	A flag indicating that it must be taken out of the Delivered state by a member of the executive group. Editable only in the Delivered state by a member of the Senior Project Team dynamic group. When set to "true", a notification is sent to the Executive group. The default value is : false.	Logical
Allow Traces	Document computation which controls whether traces can be added to the document contents This is a	Logical

	computed field.	
Allow Links	Document computation which controls whether external relationships can be added to the document contents This is a computed field.	Logical
Shared Text	The main payload for the document contents	Longtext
Document Phase	Phase values for Document items.	Phase
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	Relationship
Documents	Relationship between segments and the projects that they document. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Documented By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Project State	The state of the project	Fva
Initial Baseline	Date of initial baseline for this document. After the initial baseline subsequent changes to the document are counted and reported in the project churn and stability metrics.	Date
Document Churn from Initial Baseline	Cumulative total number of changes made to meaningful content in this document since its initial baseline. Note this metric counts only significant changes to the shared items and does not include nodes that have been dropped from the document. The metric is calculated every day using the DailyChurnMetrics trigger. The value of Yesterday Document Churn is added to the current value if Initial Baseline is set. The default value is : 0.	Integer
Project Phase FVA	The phase of this item's project.	Fva
Document Short Title	The short name of the document. The value is editable by the user and is used to construct the full name that is stored in the Summary and Shared Text fields. The Document Name trigger constructs the full name of the document.	Shorttext

Modified Count Since Initial Baseline	The number of meaningful contents inside this segment that have been modified since the Initial Baseline date. This metric is calculated daily for all documents for which the Initial Baseline has been set, for all active projects in the system. The default value is : 0.	Integer
Retired States	A phase field which includes retired states.	Phase
All Content Count	The number of content items in this segment. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Back Trace Count	The number of meaningful content items in this document that have back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Without Back Traces Count	The number of meaningful contents in this segment that have no back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Meaningful Content Count	The number of meaningful items in this segment. This document metric is calculated once a day.	Integer
Suspect Content Count	The number of suspect content items in this segment. This document metric is calculated once a day.	Integer
Suspect Relationship Count	The number of suspect links in this segment. This document metric is calculated once a day.	Integer
Included Document Count	The number of included segment in this segment. This document metric is calculated once a day.	Integer
Inserted Document Count	The number of segments referenced by this segment. This document metric is calculated once a day.	Integer
Open Change Order Count	The number of change orders that are open against this document. This field is used by triggers to prevent a document transition to the In Review state when there are still open change orders. This document metric is calculated dynamically.	Integer
Closed Change Order Count	The number of closed change orders against this document. This document metric is calculated once a day.	Integer
Outstanding Change Request Count	The number of unsatisfied change requests that have caused change authorizations to be applied against this document. This document metric is calculated once a day.	Integer
Content Without Back Traces	Percent of meaningful content in this segment not having backward trace relationships. This document metric is calculated once a day via the DailyMetrics	Float

Percentage	trigger.	
Suspect Content Percentage	Percent of contents in this segment that have at least one suspect link. This document metric is calculated once a day.	Float
Yesterday Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past day. Counts up the number of meaningful nodes whose Significant Edit Date indicates a significant edit has occurred in the past day. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Last Week Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past week. Counts up the number of meaningful nodes whose shared items have been modified in the past week. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. It also doesn't add to the count when the node is modified. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Post Branch Edit	Used by the PTC ALM solution to help enforce document naming conventions.	Shorttext
Revision	The name of the most recent revision of this item, empty if the item has never been revisioned.	Shorttext
Revision Increment Date	The date of the delta associated with the most recent revision of this item, empty if this item has never been revisioned.	Date
Significant Change Since Item Revision	Has this item changed in a significant manner since it was last revisioned?	Logical

Field list for type: Risk

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Project	none	Project
Attachments	none	Attachment
Discussion	Discussion attached to a change order or change request	Longtext
Description	Detailed description of the issue.	Longtext

Field list for type: Shared Input

Field Name	Field Description	Field Type
State	none	State
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Shared Text	The main payload for the document contents	Longtext

Field list for type: Shared Requirement

Field Name	Field Description	Field Type
State	none	State
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Shared Text	The main payload for the document contents	Longtext

Field list for type: Shared Specification

Field Name	Field Description	Field Type
State	none	State
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Shared Text	The main payload for the document contents	Longtext

Field list for type: Shared Test Case

Field Name	Field Description	Field Type
State	none	State
Shared Test Steps	Relates Test Cases to Test Steps Default Columns: Order, ID, Summary The paired relationship field is : Test Cases.	Relationship
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Shared Text	The main payload for the document contents	Longtext
Shared Automated Behavior On Error	Shared Item version of Automated Behavior on Error. Options are : Next, Next, Stop. The default value is : Next Step.	Pick
Shared External ID	Shared Item version of External ID.	Shorttext
Shared External Script Name	Shared Item version of External Script Name.	Shorttext
Shared Expected Results	Shared Item version of Expected Results	Longtext

Field list for type: Specification

Field Name	Field Description	Field Type
Additional Comments	A collection of additional comments on a variety of item types.	Longtext
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
State	none	State
Project	none	Project
Attachments	none	Attachment
Parameter Values	The parameter values for substitution	Longtext
Significant Edit Date	Date of last significant modification to this item. Since this item is a node type, the value is the date of the last significant edit on either the node or the shared item, whichever is latest.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Suspect Count	The number of suspect links on this node This is a computed field.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
IncludeReference	Solution-managed field which is set to true if this node currently references an included subsegment. It is marked "Never Relevant" because the end user does not need to see the value, however reports need it. The default value is : false.	Logical
Priority	Priority of the issue. Options are : Low, Medium, High, Critical.	Pick
Satisfies	Trace relationship between a specification and a requirement Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Satisfied By.	Relationship
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned	Relationship

	User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	
Validated By	Trace relationship between requirements and the test cases that validate them Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Validates.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Decomposes To	Trace relationship between a higher level artifact and a lower level artifact. Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Decomposed From.	Relationship
Decomposed From	Trace relationship between a lower level artifact and a higher level artifact. Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Decomposes To.	Relationship
Is Related To	Generic trace relationship between two nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To'.	Relationship
Is Related To'	Generic trace relationship between two related nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To.	Relationship
Text	The primary contents of the artifact	Fva
Item Significant Edit Date on Shared Item	The last significant edit date, FVA'ed from the Shared Item	Fva
Text Attachments	The attachments exposed on the shared item	Fva
Project State	The state of the project	Fva
Parameters From Shared Item	Displays parameters that are set on the shared item.	Fva
Parameter Values From Shared Item	Displays parameter values that are set on a shared item.	Fva
Project Phase FVA	The phase of this item's project.	Fva

Include Subsegment in Metrics	Indicates whether the referenced subsegment's metrics should be included in the project's metrics. Default is true. Relevant only when the node is currently referencing a subsegment. The default value is : true.	Logical
Validated By Trace Count	The number of Validated By trace relationships. This is a computed field.	Integer
Validated By Trace Health	A range field that identifies a simple evaluation of trace health. >1 Validated By Trace Count results in a Green status indicator, <1 Validated By Trace Count results in a Red status indicator. This field could be adapted to support a more complex example, where trace health is determined by the number of estimated traces required compared with the actual number of traces.	Range
Trace Status	Summary of the trace relationships emanating from this node. upstream/downstream corresponds to backward/forward direction. upstream => at least one upstream trace exists. downstream => at least one downstream trace exists. related => at least one peer trace (Is Related To) exists. suspect => at least one of the traces is suspect in the indicated class of traces. Options are : none, downstream, related, downstream, downstream related, downstream, downstream suspect, downstream suspect related, related, upstream, upstream, upstream downstream, upstream downstream related, upstream downstream suspect, upstream downstream suspect related, upstream, upstream related, upstream, upstream suspect, upstream suspect downstream, upstream suspect downstream related, upstream suspect downstream suspect, upstream suspect downstream suspect related, upstream suspect, upstream suspect related.	Pick
Downstream Trace Count	The total count of all downstream traces including Decomposes To, Validated By and Satisfied By. This is a computed field.	Integer
Upstream Trace Count	The total count of all upstream traces including Decomposed From, Validates and Satisfies. This is a computed field.	Integer
Validated By Pass	A computation which determines the number of	Integer

Count	Validated By trace relationships which have a Pass last result. This is a computed field.	
Validated By Pass Percentage	A computation which determines the percentage of Validated By traces which have a last results of Passed. This is used by the Requirements Test Coverage and Specification Test Coverage reports to display test status per requirement and per specification. This is a computed field.	Float

Field list for type: Specification Document

Field Name	Field Description	Field Type
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Project	none	Project
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
Allow Edits	Document computation which controls whether the main text of the content is editable This is a computed field.	Logical
Use Hierarchical Editability	Field exposed on document roots which, when true, enables change order and document-level authorization controls This is a computed field.	Logical
Root Document	Document field which, when true, causes the document to show up as a top-level document in the project The default value is : true.	Logical
Needs New Changes	A flag indicating that it must be taken out of the Delivered state by a member of the executive group. Editable only in the Delivered state by a member of the Senior Project Team dynamic group. When set to "true", a notification is sent to the Executive group. The default value is : false.	Logical
Allow Traces	Document computation which controls whether traces can be added to the document contents This is a	Logical

	computed field.	
Allow Links	Document computation which controls whether external relationships can be added to the document contents This is a computed field.	Logical
Shared Text	The main payload for the document contents	Longtext
Document Phase	Phase values for Document items.	Phase
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	Relationship
Documents	Relationship between segments and the projects that they document. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Documented By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Project State	The state of the project	Fva
Initial Baseline	Date of initial baseline for this document. After the initial baseline subsequent changes to the document are counted and reported in the project churn and stability metrics.	Date
Document Churn from Initial Baseline	Cumulative total number of changes made to meaningful content in this document since its initial baseline. Note this metric counts only significant changes to the shared items and does not include nodes that have been dropped from the document. The metric is calculated every day using the DailyChurnMetrics trigger. The value of Yesterday Document Churn is added to the current value if Initial Baseline is set. The default value is : 0.	Integer
Project Phase FVA	The phase of this item's project.	Fva
Document Short Title	The short name of the document. The value is editable by the user and is used to construct the full name that is stored in the Summary and Shared Text fields. The Document Name trigger constructs the full name of the document.	Shorttext

Modified Count Since Initial Baseline	The number of meaningful contents inside this segment that have been modified since the Initial Baseline date. This metric is calculated daily for all documents for which the Initial Baseline has been set, for all active projects in the system. The default value is : 0.	Integer
Retired States	A phase field which includes retired states.	Phase
All Content Count	The number of content items in this segment. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Back Trace Count	The number of meaningful content items in this document that have back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Without Back Traces Count	The number of meaningful contents in this segment that have no back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Meaningful Content Count	The number of meaningful items in this segment. This document metric is calculated once a day.	Integer
Suspect Content Count	The number of suspect content items in this segment. This document metric is calculated once a day.	Integer
Suspect Relationship Count	The number of suspect links in this segment. This document metric is calculated once a day.	Integer
Included Document Count	The number of included segment in this segment. This document metric is calculated once a day.	Integer
Inserted Document Count	The number of segments referenced by this segment. This document metric is calculated once a day.	Integer
Open Change Order Count	The number of change orders that are open against this document. This field is used by triggers to prevent a document transition to the In Review state when there are still open change orders. This document metric is calculated dynamically.	Integer
Closed Change Order Count	The number of closed change orders against this document. This document metric is calculated once a day.	Integer
Outstanding Change Request Count	The number of unsatisfied change requests that have caused change authorizations to be applied against this document. This document metric is calculated once a day.	Integer
Content Without Back Traces	Percent of meaningful content in this segment not having backward trace relationships. This document metric is calculated once a day via the DailyMetrics	Float

Percentage	trigger.	
Suspect Content Percentage	Percent of contents in this segment that have at least one suspect link. This document metric is calculated once a day.	Float
Yesterday Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past day. Counts up the number of meaningful nodes whose Significant Edit Date indicates a significant edit has occurred in the past day. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Last Week Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past week. Counts up the number of meaningful nodes whose shared items have been modified in the past week. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. It also doesn't add to the count when the node is modified. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Post Branch Edit	Used by the PTC ALM solution to help enforce document naming conventions.	Shorttext

Field list for type: Survey

Field Name	Field Description	Field Type
State	none	State
Assigned User	none	User
Project	none	Project
Attachments	none	Attachment
Product	Product related to this item Options are : Tempus Classic -, Tempus Modern -, Tempus Rugged -, Position:, Relevance Rule:, Editability Rule:, Issue Backed Pick, Backing Type:, Backing Text Field:, Backing Text Format: {Summary} -, Backing States:, Backing Filter:, Display As Link:, Rules:, none, -----.	Backing type: product
Process Category	Process item classification Options are : Strategic, Tactical, Maintenance, Infrastructure, Product, Project, Business Unit, Operational, Customer.	Pick
Project Survey Q1	Project surveys intend to capture data across several axes including value, schedule, cost, objectives and usability. These fields will capture the results of a survey for a given project and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Project Survey Q2	Project surveys intend to capture data across several axes including value, schedule, cost, objectives and usability. These fields will capture the results of a survey for a given project and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Project Survey Q3	Project surveys intend to capture data across several axes including value, schedule, cost, objectives and usability. These fields will capture the results of a survey for a given project and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Project Survey Q4	Project surveys intend to capture data across several axes including value, schedule, cost, objectives and usability.	Integer

	These fields will capture the results of a survey for a given project and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	
Project Survey Q5	Project surveys intend to capture data across several axes including value, schedule, cost, objectives and usability. These fields will capture the results of a survey for a given project and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Product Survey Q1	Product surveys intend to capture data across several axes including value, quality, cost, usability and its ability to meet the expectations of the user. These fields will capture the results of a survey for a given product and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Product Survey Q2	Product surveys intend to capture data across several axes including value, quality, cost, usability and its ability to meet the expectations of the user. These fields will capture the results of a survey for a given product and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Product Survey Q3	Product surveys intend to capture data across several axes including value, quality, cost, usability and its ability to meet the expectations of the user. These fields will capture the results of a survey for a given product and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Product Survey Q4	Product surveys intend to capture data across several axes including value, quality, cost, usability and its ability	Integer

	to meet the expectations of the user. These fields will capture the results of a survey for a given product and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	
Product Survey Q5	Product surveys intend to capture data across several axes including value, quality, cost, usability and its ability to meet the expectations of the user. These fields will capture the results of a survey for a given product and user. If you foresee the questions changing over time, you may elect to populate the survey questions through a trigger or IBPL rather than by using a label on the presentation as this example is demonstrating. The default value is : 3.	Integer
Average Survey Score	This field captures the average score for a given survey based on the results within that survey. This is a computed field.	Float
Description	Detailed description of the issue.	Longtext

Field list for type: Test Case

Field Name	Field Description	Field Type
Additional Comments	A collection of additional comments on a variety of item types.	Longtext
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
State	none	State
Project	none	Project
Attachments	none	Attachment
Tests For	Relates the suite of Test Cases back to the Test Sessions. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Tests.	Relationship
Parameter Values	The parameter values for substitution	Longtext
Significant Edit Date	Date of last significant modification to this item. Since this item is a node type, the value is the date of the last significant edit on either the node or the shared item, whichever is latest.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Suspect Count	The number of suspect links on this node This is a computed field.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
IncludeReference	Solution-managed field which is set to true if this node currently references an included subsegment. It is marked "Never Relevant" because the end user does not need to see the value, however reports need it. The default value is : false.	Logical
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes	Relationship

	To.	
Validates	Trace relationship between a test case node and a requirement or specification node. Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Validated By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Is Related To	Generic trace relationship between two nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To'.	Relationship
Is Related To'	Generic trace relationship between two related nodes Default Columns: ID, Document ID, Relationship Flags, Category, Type, Project, Significant Edit Date, Text The paired relationship field is : Is Related To.	Relationship
Text	The primary contents of the artifact	Fva
Item Significant Edit Date on Shared Item	The last significant edit date, FVA'ed from the Shared Item	Fva
Text Attachments	The attachments exposed on the shared item	Fva
Project State	The state of the project	Fva
Blocked	The test case is currently blocked when this field value is true. Until the blocking defects listed in the Blocked By field are closed, this test case is known to fail. A test case that is sharing results is blocked when the test case it shares with is blocked. This is a computed field.	Logical
Suspect Results	A logical flag to indicate whether a Test Case has results which are suspect. A Test Case will contain suspect results when its modified date is greater than the modified date of its last result. This is a computed field.	Logical
Parameter Values From Shared Item	Displays parameter values that are set on a shared item.	Fva
Last Result	A string representation of the last result for a test case. E.g. Passed, Failed, Not Run. This is a computed field.	Shorttext
External ID	An external ID attribute used to map a Test Case to	Fva

	an external test.	
External Script Name	An external attribute used to map a Test Case to an external test automation script.	Fva
Automated Behavior On Error	The behaviour required when an automated test case fails in the execution framework.	Fva
Project Phase FVA	The phase of this item's project.	Fva
Blocked By	Defects that block the test case if they are not in task phase 'closed'. This cannot be set on content that is sharing test results. In that case, it is set on the test case being shared. Default Columns: ID, Summary, Task Phase, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Blocks.	Relationship
Include Subsegment in Metrics	Indicates whether the referenced subsegment's metrics should be included in the project's metrics. Default is true. Relevant only when the node is currently referencing a subsegment. The default value is : true.	Logical
Trace Status	Summary of the trace relationships emanating from this node. upstream/downstream corresponds to backward/forward direction. upstream => at least one upstream trace exists. downstream => at least one downstream trace exists. related => at least one peer trace (Is Related To) exists. suspect => at least one of the traces is suspect in the indicated class of traces. Options are : none, downstream, related, downstream, downstream related, downstream, downstream suspect, downstream suspect related, related, upstream, upstream, upstream downstream, upstream downstream related, upstream downstream, upstream downstream suspect, upstream downstream suspect related, upstream, upstream related, upstream, upstream suspect, upstream suspect downstream, upstream suspect downstream related, upstream suspect downstream suspect, upstream suspect downstream suspect related, upstream suspect, upstream suspect related.	Pick
Expected Results	The expected results of executing a Test Case.	Fva
Downstream Trace Count	The total count of all downstream traces including Decomposes To, Validated By and Satisfied By. This is a computed field.	Integer

Upstream Trace Count	The total count of all upstream traces including Decomposed From, Validates and Satisfies. This is a computed field.	Integer
Last Verdict Type	The verdict type for the last result logged against this test case. This is a computed field.	Shorttext
Record Results As Shared	Share results for a shared test case with the test case it is sharing from. If false, the results of the sharing test case will not appear as results on the shared test case, all other values will share results. This field is only relevant for test cases with reference mode of share. The default value is : true.	Logical
Revision	The name of the most recent revision of this item, empty if the item has never been revisioned.	Shorttext
Revision Increment Date	The date of the delta associated with the most recent revision of this item, empty if this item has never been revisioned.	Date
Significant Change Since Item Revision	Has this item changed in a significant manner since it was last revisioned?	Logical

Field list for type: Test Group

Field Name	Field Description	Field Type
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Project	none	Project
Tests For	Relates the suite of Test Cases back to the Test Sessions. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Tests.	Relationship
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
Allow Edits	Document computation which controls whether the main text of the content is editable This is a computed field.	Logical
Use Hierarchical Editability	Field exposed on document roots which, when true, enables change order and document-level authorization controls This is a computed field.	Logical
Root Document	Document field which, when true, causes the document to show up as a top-level document in the project The default value is : true.	Logical
Needs New Changes	A flag indicating that it must be taken out of the Delivered state by a member of the executive group. Editable only in the Delivered state by a member of the Senior Project Team dynamic group. When set to "true", a notification is sent to the Executive group. The default value is : false.	Logical

Allow Traces	Document computation which controls whether traces can be added to the document contents This is a computed field.	Logical
Allow Links	Document computation which controls whether external relationships can be added to the document contents This is a computed field.	Logical
Allow Scope Expansion	Determines whether Change Orders or Defects can be assigned to documents within the project by the user to whom the task is assigned. If this flag is true the user may change the document or the nodes in which the changes are authorized. The default value is : false.	Logical
Shared Text	The main payload for the document contents	Longtext
Document Phase	Phase values for Document items.	Phase
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	Relationship
Documents	Relationship between segments and the projects that they document. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Documented By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Project State	The state of the project	Eva
Total Pass Count	The number of test cases with a pass verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Fail Count	The number of test cases with a fail verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Other Count	The number of test cases with an other verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Run Count	The number of test cases with a last result. Results from child process items are included. This is a computed field.	Integer
Initial Baseline	Date of initial baseline for this document. After the	Date

	initial baseline subsequent changes to the document are counted and reported in the project churn and stability metrics.	
Document Churn from Initial Baseline	Cumulative total number of changes made to meaningful content in this document since its initial baseline. Note this metric counts only significant changes to the shared items and does not include nodes that have been dropped from the document. The metric is calculated every day using the DailyChurnMetrics trigger. The value of Yesterday Document Churn is added to the current value if Initial Baseline is set. The default value is : 0.	Integer
Project Phase FVA	The phase of this item's project.	Eva
Document Short Title	The short name of the document. The value is editable by the user and is used to construct the full name that is stored in the Summary and Shared Text fields. The Document Name trigger constructs the full name of the document.	Shorttext
Modified Count Since Initial Baseline	The number of meaningful contents inside this segment that have been modified since the Initial Baseline date. This metric is calculated daily for all documents for which the Initial Baseline has been set, for all active projects in the system. The default value is : 0.	Integer
Retired States	A phase field which includes retired states.	Phase
All Content Count	The number of content items in this segment. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Back Trace Count	The number of meaningful content items in this document that have back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Without Back Traces Count	The number of meaningful contents in this segment that have no back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Meaningful Content Count	The number of meaningful items in this segment. This document metric is calculated once a day.	Integer
Suspect Content Count	The number of suspect content items in this segment. This document metric is calculated once a day.	Integer
Suspect Relationship Count	The number of suspect links in this segment. This document metric is calculated once a day.	Integer
Included Document	The number of included segment in this segment. This document metric is calculated once a day.	Integer

Count		
Inserted Document Count	The number of segments referenced by this segment. This document metric is calculated once a day.	Integer
Open Change Order Count	The number of change orders that are open against this document. This field is used by triggers to prevent a document transition to the In Review state when there are still open change orders. This document metric is calculated dynamically.	Integer
Closed Change Order Count	The number of closed change orders against this document. This document metric is calculated once a day.	Integer
Outstanding Change Request Count	The number of unsatisfied change requests that have caused change authorizations to be applied against this document. This document metric is calculated once a day.	Integer
Content Without Back Traces Percentage	Percent of meaningful content in this segment not having backward trace relationships. This document metric is calculated once a day via the DailyMetrics trigger.	Float
Suspect Content Percentage	Percent of contents in this segment that have at least one suspect link. This document metric is calculated once a day.	Float
Yesterday Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past day. Counts up the number of meaningful nodes whose Significant Edit Date indicates a significant edit has occurred in the past day. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Last Week Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past week. Counts up the number of meaningful nodes whose shared items have been modified in the past week. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. It also doesn't add to the count when the node is modified. Though it undercounts the true number of	Integer

	changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	
Post Branch Edit	Used by the PTC ALM solution to help enforce document naming conventions.	Shorttext
Total Content Pass Count	Total number of test cases with a pass verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true on the node referencing the subsegment. This document metric is calculated once a day.	Integer
Total Content Fail Count	Total number of test cases with a fail verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true on the node referencing the subsegment. This document metric is calculated once a day.	Integer
Total Content Other Count	Total number of test cases with an "other" verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true on the node referencing the subsegment. This document metric is calculated once a day.	Integer
Total Content Run Count	Total number of test cases with a pass verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true on the node referencing the subsegment. This metric does not include test cases that have no results yet. This document metric is calculated once a day.	Integer
Content Fail Count	Number of test cases with a fail verdict type in the latest result. Test cases in included and referenced test suites are not included in this count. This document metric is calculated once a day.	Integer
Content Pass Count	Number of test cases with a pass verdict type in the latest result. Test cases in included and referenced test suites are not included in this count. This document metric is calculated once a day.	Integer
Content Other Count	Number of test cases with an "other" verdict type in the latest result. Test cases in included and referenced test suites are not included in this count. This document metric is calculated once a day.	Integer
Content Run	Number of test cases with any kind of verdict in the	Integer

Count	latest result. Test cases in included and referenced test suites are not included in this count. This metric does not include test cases that have no results yet. This document metric is calculated once a day.	
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Field list for type: Test Objective

Field Name	Field Description	Field Type
Additional Comments	A collection of additional comments on a variety of item types.	Longtext
isParent	An integer field used to determine whether a process item is a parent and contains children process items. This is primarily used by the Gantt Chart report recipe. The computation returns 1 when the process item contains a child relationship, or 0 when it does not. This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Assigned Group	none	Group
Project	none	Project
Attachments	none	Attachment
Tests	Relates a Test Session to the suite of Test Cases to run. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Tests For.	Relationship
Task Phase	Phase for this task - Pending, Open or Closed	Phase
Priority	Priority of the issue. Options are : Low, Medium, High, Critical.	Pick
Test Objectives	Relationship used to relate a Test Plan to one or more Test Objectives. This relationship field can also be used to nest a hierarchy of Test Objectives. Default Columns: ID, Type, State, Summary, Assigned User, Total Pass Count, Total Fail Count, Total Other Count The paired relationship field is : Test Objective For.	Relationship
Test Objective For	The backwards relationship used to relate a Test Plan to one or more Test Objectives. This relationship field can also be used to nest a hierarchy of Test Objectives. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Test Objectives.	Relationship
Test Objective Planned Count	The number of test cases planned. The total number of test cases on the tests relationship when included and referenced test suites and groups are counted. Only this specific test objective (not related test objectives) are counted. This is a computed field.	Integer
Test Objective Pass Count	The number of test cases with a pass verdict type last result from completed test sessions. Only results for	Integer

	this specific test objective (not related test objectives) are included. This is a computed field.	
Test Objective Fail Count	The number of test cases with a fail verdict type last result from completed test sessions. Only results for this specific test objective (not related test objectives) are included. This is a computed field.	Integer
Test Objective Other Count	The number of test cases with an other verdict type last result from completed test sessions. Only results for this specific test objective (not related test objectives) are included. This is a computed field.	Integer
Test Objective Run Count	The number of test cases with a last result from completed test sessions. Only results for this specific test objective (not related test objectives) are included. This is a computed field.	Integer
Test Objective Blocked Count	The number of test cases in test objectives that are blocked by a defect. Test cases on the tests relationship when included and referenced test suites and groups are considered. Only this specific test objective (not related test objectives) is considered. This is a computed field.	Integer
Test Objective Suspect Results Count	The number of test cases in test objectives that have suspect results. Test cases on the tests relationship when included and referenced test suites and groups are considered. Only this specific test objective (not related test objectives) is considered. This is a computed field.	Integer
Total Planned Count	The number of test cases planned in test objectives. Results from child process items are included. This is a computed field.	Integer
Total Pass Count	The number of test cases with a pass verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Fail Count	The number of test cases with a fail verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Other Count	The number of test cases with an other verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Run Count	The number of test cases with a last result. Results from child process items are included. This is a computed field.	Integer
Total Blocked Count	The number of test cases in test objectives that are blocked by a defect. Results from child process items	Integer

	are included. This is a computed field.	
Total Suspect Results Count	The number of test cases in test objectives that have suspect results. Results from child process items are included. This is a computed field.	Integer
Total Pass Percentage of Planned	Percent of total planned test cases with a pass verdict type last result. Results from child process items included. This is a computed field.	Float
Total Pass Percentage of Run	Percent of test cases run in test objectives with a pass verdict type last result. Results from child process items included. This is a computed field.	Float
Total Run Percentage	Percent of test cases planned in test objectives with a last result. Results from child process items are included. This is a computed field.	Float
Work Item	The associated work item. Options are : Branch MRD, SRS and TRS documents from Release 1 and update with project specific changes, Develop a Marketing Requirements Document, Develop a System Requirements Specification and circulate for review, Implementation of general platform and architectural code, Implementation of User Interface functionality, Produce a functional specification document for all necessary functional changes, Track design and development effort, Position:, Relevance Rule:, Editability Rule:, Issue Backed Pick, Backing Type: Work, Backing Text Field:, Backing Text Format: {Summary}, Backing, Backing Filter:, Display As Link:, Rules:, none, -----.	Backing type: work item
Planned Start Date	The planned start date of your activity.	Date
Planned End Date	The planned end date of your activity.	Date
Test Change Orders	A query backed relationship to identify all Change Orders with a domain of Test. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State	Qbr
Completed Test Sessions	A query backed relationship which identifies all Test Sessions which are in a Completed phase. This query backed relationship is used throughout the solution to identify sessions which are complete and should be considered by metrics and computations. Contrary to this, active test sessions are considered work in progress, therefore session metrics are not rolled up to the Test Objective, Test Plan and Project. Default	Qbr

	Columns: ID, Summary, State, Assigned User, Priority, Session Type, Planned Start Date, Planned End Date, Test Tool	
Test Objective Phase	The phase values for a Test Objective.	Phase
Active Test Sessions	Active test sessions belonging to this test objective. Default Columns: ID, State, Summary, Assigned User, Planned End Date	Qbr
Actual Budget	Budget for this item not including sub-items The default value is : 0.	Float
Actual Effort	Time recorded against this item, in hours, not including sub-items This is a computed field.	Float
Estimated Effort	Estimated number of days to complete this item not including sub-items The default value is : 0.	Float
Total Change Package Count	Number of change packages on this item and all sub-items if applicable, including open change packages This is a computed field.	Integer
Total Open Change Package Count	Number of open change packages on this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Integer
Change Orders	The change orders contained by this item. Default Columns: ID, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Change Order For.	Relationship
Defects	The defects related to this item. Default Columns: ID, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Defect For.	Relationship
Days in Current State	Number of days this item has been in its current state. This is a computed field.	Integer
Change Requests	Change requests that inform a work item or test objective. Default Columns: ID, Summary, State, Project, Domain, Days in Current State The paired relationship field is : Change Request For.	Relationship
Retired States	A phase field which includes retired states.	Phase
Description	Detailed description of the issue.	Longtext

Field list for type: Test Plan

Field Name	Field Description	Field Type
isParent	An integer field used to determine whether a process item is a parent and contains children process items. This is primarily used by the Gantt Chart report recipe. The computation returns 1 when the process item contains a child relationship, or 0 when it does not. This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Assigned Group	none	Group
Project	none	Project
Attachments	none	Attachment
Task Phase	Phase for this task - Pending, Open or Closed	Phase
Test Objectives	Relationship used to relate a Test Plan to one or more Test Objectives. This relationship field can also be used to nest a hierarchy of Test Objectives. Default Columns: ID, Type, State, Summary, Assigned User, Total Pass Count, Total Fail Count, Total Other Count The paired relationship field is : Test Objective For.	Relationship
Total Planned Count	The number of test cases planned in test objectives. Results from child process items are included. This is a computed field.	Integer
Total Pass Count	The number of test cases with a pass verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Fail Count	The number of test cases with a fail verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Other Count	The number of test cases with an other verdict type last result. Results from child process items are included. This is a computed field.	Integer
Total Run Count	The number of test cases with a last result. Results from child process items are included. This is a computed field.	Integer
Total Blocked Count	The number of test cases in test objectives that are blocked by a defect. Results from child process items are included. This is a computed field.	Integer
Total Suspect Results Count	The number of test cases in test objectives that have suspect results. Results from child process items are	Integer

	included. This is a computed field.	
Total Pass Percentage of Planned	Percent of total planned test cases with a pass verdict type last result. Results from child process items included. This is a computed field.	Float
Total Pass Percentage of Run	Percent of test cases run in test objectives with a pass verdict type last result. Results from child process items included. This is a computed field.	Float
Total Run Percentage	Percent of test cases planned in test objectives with a last result. Results from child process items are included. This is a computed field.	Float
Planned Start Date	The planned start date of your activity.	Date
Planned End Date	The planned end date of your activity.	Date
Actual Budget	Budget for this item not including sub-items The default value is : 0.	Float
Actual Effort	Time recorded against this item, in hours, not including sub-items This is a computed field.	Float
Test Plan For	The project this Test Plan is designed for. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Test Plans.	Relationship
Estimated Effort	Estimated number of days to complete this item not including sub-items The default value is : 0.	Float
Total Change Package Count	Number of change packages on this item and all sub-items if applicable, including open change packages This is a computed field.	Integer
Total Open Change Package Count	Number of open change packages on this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Integer
Days in Current State	Number of days this item has been in its current state. This is a computed field.	Integer
Retired States	A phase field which includes retired states.	Phase
Description	Detailed description of the issue.	Longtext

Field list for type: Test Session

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Project	none	Project
Attachments	none	Attachment
Tests	Relates a Test Session to the suite of Test Cases to run. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Tests For.	Relationship
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Task Phase	Phase for this task - Pending, Open or Closed	Phase
Priority	Priority of the issue. Options are : Low, Medium, High, Critical.	Pick
Effort	The level of effort to complete the item. Options are : Small, Medium, Large, Very.	Pick
Spawned By	Relationship between a change order and the item that caused the change order to be created. Default Columns: ID, Type, State, Summary, Text, Assigned User The paired relationship field is : Spawns.	Relationship
Test Environment	Text field used to describe the testing environment for a Test Session.	Longtext
Build ID	A short text field used to track and identify the build being tested by a Test Session. This may be replaced by an IBPL referencing a Build item type for a stronger typed solution.	Shorttext
Planned Count	The number of test cases planned. This is a computed field.	Integer
Pass Count	The number of test cases with a pass verdict type entered. This is a computed field.	Integer
Fail Count	The number of test cases with a fail verdict type entered. This is a computed field.	Integer
Other Count	The number of test cases with an other verdict type entered. This is a computed field.	Integer
Run Count	The number of test cases with a result entered. This is a computed field.	Integer
Session Type	A pick list denoting the type of Test Session this is. A manual session is used for entering results with the test	Pick

	results editor. An automated session is used for capturing results with the automated test execution framework. An exploratory session is used for logging testing notes informally, exploratory sessions are sometimes used during the initial stages of testing to flush out obvious defects and can be used as a quality gate before formal testing is conducted. Options are : Automated, Manual, Exploratory.	
Planned Start Date	The planned start date of your activity.	Date
Planned End Date	The planned end date of your activity.	Date
Test Objective	The associated test objective. Options are : Feature testing, Feature testing, Regression testing, System and interface testing, System and interface testing, Visual implementation testing, Weekly regression testing results, Position:, Relevance Rule:, Editability Rule:, Issue Backed Pick, Backing Type: Test, Backing Text Field:, Backing Text Format: {Summary}, Backing States: Assigned, In Development, In Testing, In, Backing Filter:, Display As Link:, Rules:, none, -----.	Backing type: test objective
Test Session Phase	The phase values for a Test Session.	Phase
Test Tool	A pick list defining the test automation tools for which test execution adapters are available. Options are : HP Quick Test Professional, iTKO.	Pick
Planned Start Time	The planned start time for testing.	Date
Actual Start Time	The actual time that automated testing started.	Date
Tests As Of Date Count	The count of test cases if the 'Tests As Of Date' field is set. If not set the value is empty. This is an interim field used to determine field Planned Tests for Test Sessions. This is a computed field.	Integer
Tests As Of Date Set	The 'Tests As Of Date' field has been set. This field is managed by trigger MKS.ALM: Test Sessions	Logical
Test Session Tests Count	Test cases currently defined by the "Tests" field on a Test Session. This is an interim field used by field 'Freeze Date Tests Count'" This field must be computed dynamically. This is a computed field.	Integer
Exploratory Test Log	A long text field used to capture notes from an exploratory test session.	Longtext
Run	The percentage of planned tests that have been run.	Float

Percentage	This is a computed field.	
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Field list for type: Test Step

Field Name	Field Description	Field Type
Summary	none	Shorttext
State	none	State
Project	none	Project
Attachments	none	Attachment
Test Cases	Relates Test Steps to Test Cases Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Shared Test Steps.	Relationship
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	Relationship
Valid Test Step Change Order	Local computation for test steps in a library for sharing. True if the project does not require change orders, or there is at least one change order attached assigned to the current user and in the open phase. This is a computed field.	Logical
Project Requires Change Orders	The related project setting for Require Change Orders.	Fva
Test Step Editable	The test step could be edited with proper permissions. Test steps outside a library can only be edited when there is only a single test case referencing it. This is a computed field.	Logical
Editable Value	Indicates if a test step is editable based on permissions and sharing. This is a computed field.	Integer
Editable	Contents of the test step can be edited by the current user. The user has the proper change orders if required by the project and a test step outside of the library only has a single reference so will only impact a single test case.	Range
Test Step Test Cases Count	Count of test cases using this test step. Test cases with reference mode 'share' are not directly editable so are not counted. This is a computed field.	Integer
Test Case Editable	The editability of the only test case associated with a test step that is not in the library to be shared. The document state and required change orders are both considered. Documents in the Open state do not require change	Logical

	orders. Newly created test case test steps are assumed to have an editable test case even if the test case relationship hasn't been updated yet. This is a computed field.	
Project Classification	The classification of the project this item is part of.	Fva
Description	Detailed description of the issue.	Longtext

Field list for type: Test Suite

Field Name	Field Description	Field Type
Category Int Value	Calculates the integer value associated with the Category/Shared Category field's pick value. This is a hidden field used by the Document Traces Tree View report recipe to display content specific images This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Project	none	Project
Tests For	Relates the suite of Test Cases back to the Test Sessions. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Tests.	Relationship
Parameters	The substitution parameter definitions	Longtext
Parameter Values	The parameter values for substitution	Longtext
Shared Attachments	Attachments used by shared items in the RM Solution	Attachment
Significant Edit Date	Date of last significant modification to this item.	Date
Authorizing Change Order	The ID of the change order that authorized the current change - for historical tracking purposes.	Integer
Valid Change Order	Local computation which is true if the project does not require change orders, or the item is a disconnected node, or there is at least one change order attached to the item assigned to the current user and in the open phase. This is a computed field.	Logical
Allow Edits	Document computation which controls whether the main text of the content is editable This is a computed field.	Logical
Use Hierarchical Editability	Field exposed on document roots which, when true, enables change order and document-level authorization controls This is a computed field.	Logical
Root Document	Document field which, when true, causes the document to show up as a top-level document in the project The default value is : true.	Logical
Needs New Changes	A flag indicating that it must be taken out of the Delivered state by a member of the executive group. Editable only in the Delivered state by a member of the Senior Project Team dynamic group. When set to "true",	Logical

	a notification is sent to the Executive group. The default value is : false.	
Allow Traces	Document computation which controls whether traces can be added to the document contents This is a computed field.	Logical
Allow Links	Document computation which controls whether external relationships can be added to the document contents This is a computed field.	Logical
Shared Text	The main payload for the document contents	Longtext
Document Phase	Phase values for Document items.	Phase
Changes Authorized By	Relationship between nodes and segment roots and the change orders that authorize changes to them. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Authorizes Changes To.	Relationship
Documents	Relationship between segments and the projects that they document. Default Columns: ID, Type, State, Summary, Assigned User, Created By, Order, Relationship Flags The paired relationship field is : Documented By.	Relationship
Spawns	Relationship between an item and the change order that is created as a result of the item Default Columns: ID, Type, Project, Summary, State, Priority, Domain, Days in Current State The paired relationship field is : Spawned By.	Relationship
Project State	The state of the project	Fva
Initial Baseline	Date of initial baseline for this document. After the initial baseline subsequent changes to the document are counted and reported in the project churn and stability metrics.	Date
Document Churn from Initial Baseline	Cumulative total number of changes made to meaningful content in this document since its initial baseline. Note this metric counts only significant changes to the shared items and does not include nodes that have been dropped from the document. The metric is calculated every day using the DailyChurnMetrics trigger. The value of Yesterday Document Churn is added to the current value if Initial Baseline is set. The default value is : 0.	Integer
Project Phase FVA	The phase of this item's project.	Fva
Document	The short name of the document. The value is editable	Shorttext

Short Title	by the user and is used to construct the full name that is stored in the Summary and Shared Text fields. The Document Name trigger constructs the full name of the document.	
Modified Count Since Initial Baseline	The number of meaningful contents inside this segment that have been modified since the Initial Baseline date. This metric is calculated daily for all documents for which the Initial Baseline has been set, for all active projects in the system. The default value is : 0.	Integer
Retired States	A phase field which includes retired states.	Phase
All Content Count	The number of content items in this segment. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Back Trace Count	The number of meaningful content items in this document that have back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Content Without Back Traces Count	The number of meaningful contents in this segment that have no back traces. This document metric is calculated once a day via the DailyMetrics trigger.	Integer
Meaningful Content Count	The number of meaningful items in this segment. This document metric is calculated once a day.	Integer
Suspect Content Count	The number of suspect content items in this segment. This document metric is calculated once a day.	Integer
Suspect Relationship Count	The number of suspect links in this segment. This document metric is calculated once a day.	Integer
Included Document Count	The number of included segment in this segment. This document metric is calculated once a day.	Integer
Inserted Document Count	The number of segments referenced by this segment. This document metric is calculated once a day.	Integer
Open Change Order Count	The number of change orders that are open against this document. This field is used by triggers to prevent a document transition to the In Review state when there are still open change orders. This document metric is calculated dynamically.	Integer
Closed Change Order Count	The number of closed change orders against this document. This document metric is calculated once a day.	Integer
Outstanding Change Request Count	The number of unsatisfied change requests that have caused change authorizations to be applied against this document. This document metric is calculated once a	Integer

	day.	
Content Without Back Traces Percentage	Percent of meaningful content in this segment not having backward trace relationships. This document metric is calculated once a day via the DailyMetrics trigger.	Float
Suspect Content Percentage	Percent of contents in this segment that have at least one suspect link. This document metric is calculated once a day.	Float
Yesterday Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past day. Counts up the number of meaningful nodes whose Significant Edit Date indicates a significant edit has occurred in the past day. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Last Week Document Churn	A measure of the number of changes to meaningful content that have occurred in a document in the past week. Counts up the number of meaningful nodes whose shared items have been modified in the past week. Note this metric does not account for nodes that have been dropped from the document and it adds only one even when the shared item is modified more than once. It also doesn't add to the count when the node is modified. Though it undercounts the true number of changes to the document it is nonetheless a useful contributor to the overall project activity view. The default value is : 0.	Integer
Post Branch Edit	Used by the PTC ALM solution to help enforce document naming conventions.	Shorttext
Total Content Pass Count	Total number of test cases with a pass verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true on the node referencing the subsegment. This document metric is calculated once a day.	Integer
Total Content Fail Count	Total number of test cases with a fail verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true	Integer

	on the node referencing the subsegment. This document metric is calculated once a day.	
Total Content Other Count	Total number of test cases with an "other" verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true on the node referencing the subsegment. This document metric is calculated once a day.	Integer
Total Content Run Count	Total number of test cases with a pass verdict type in the latest result. The total count is summed over all subsegments included or inserted by the current segment for which Include Subsegment Metrics is true on the node referencing the subsegment. This metric does not include test cases that have no results yet. This document metric is calculated once a day.	Integer
Content Fail Count	Number of test cases with a fail verdict type in the latest result. Test cases in included and referenced test suites are not included in this count. This document metric is calculated once a day.	Integer
Content Pass Count	Number of test cases with a pass verdict type in the latest result. Test cases in included and referenced test suites are not included in this count. This document metric is calculated once a day.	Integer
Content Other Count	Number of test cases with an "other" verdict type in the latest result. Test cases in included and referenced test suites are not included in this count. This document metric is calculated once a day.	Integer
Content Run Count	Number of test cases with any kind of verdict in the latest result. Test cases in included and referenced test suites are not included in this count. This metric does not include test cases that have no results yet. This document metric is calculated once a day.	Integer
Revision	The name of the most recent revision of this item, empty if the item has never been revised.	Shorttext
Revision Increment Date	The date of the delta associated with the most recent revision of this item, empty if this item has never been revised.	Date
Significant Change Since Item Revision	Has this item changed in a significant manner since it was last revised?	Logical

Field list for type: Work Item

Field Name	Field Description	Field Type
Additional Comments	A collection of additional comments on a variety of item types.	Longtext
isParent	An integer field used to determine whether a process item is a parent and contains children process items. This is primarily used by the Gantt Chart report recipe. The computation returns 1 when the process item contains a child relationship, or 0 when it does not. This is a computed field.	Integer
Summary	none	Shorttext
State	none	State
Assigned User	none	User
Assigned Group	none	Group
Project	none	Project
Pending Change Order Count	The number of change orders in this project that are still pending. This project metric is calculated once a week. This is a computed field.	Integer
Closed Change Order Count for Project	The number of closed change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Task Phase	Phase for this task - Pending, Open or Closed	Phase
Risk	Risk of implementing the item. Options are : Critical, High, Medium, Low.	Pick
Stakeholders	Item stakeholders	User
Open Defect Count	Number of open defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Closed Defect Count	Number of closed defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Planned Start Date	The planned start date of your activity.	Date
Planned End Date	The planned end date of your activity.	Date
Test Change Orders	A query backed relationship to identify all Change Orders with a domain of Test. Default Columns: ID, Type, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State	Qbr
Actual Budget	Budget for this item not including sub-items The default value is : 0.	Float

Estimated Budget	Estimated budget for this item not including sub-items The default value is : 0.	Float
Total Actual Budget	Actual budget to complete this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Budget Variance	Budget variance for this item not including sub-items This is a computed field.	Float
Actual Effort	Time recorded against this item, in hours, not including sub-items This is a computed field.	Float
Total Estimated Budget	Estimated budget for this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	Float
Total Budget Variance	Budget variance for this item and all sub-items if applicable This is a computed field.	Float
Total Budget Variance Range	Budget variance indicator for this item and all sub-items if applicable	Range
Total Actual Effort	Time recorded, in hours, against this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Float
Tested By	The test objectives for this work item. Default Columns: ID, State, Summary, Assigned User, Priority, Planned Start Date, Planned End Date, Days in Current State The paired relationship field is : Test of.	Relationship
Work Item Phase	Work item phase	Phase
Total Estimated Effort	Estimated number of days to complete this item and all sub-items if applicable. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. This metric is calculated once a day. This is a computed field.	Float
Total Effort Variance Range	Time variance indicator for this item and all sub-items if applicable	Range
Total Effort Variance	Difference between estimated time and actual time, in hours, for this item and all sub-items if applicable This is a computed field.	Float
Effort Variance	Difference between estimated time and actual time, in hours, for this item not including sub-items. This is a computed field.	Float
Estimated Effort	Estimated number of days to complete this item not including sub-items The default value is : 0.	Float
Total Change	Number of change packages on this item and all sub-	Integer

Package Count	items if applicable, including open change packages This is a computed field.	
Total Open Change Package Count	Number of open change packages on this item and all sub-items if applicable. This metric is calculated once a day. This is a computed field.	Integer
Work Items	Work items contained by this item. Work items are allocated at the top level to projects, and they can be nested to an arbitrary extent to create a work breakdown structure. Default Columns: ID, Summary, State, Risk, Planned Start Date, Planned End Date, Total Task Count, Days in Current State The paired relationship field is : Work Item For.	Relationship
Work Item For	Reference to the container for this work item. Work items are allocated at the top level to projects, and they can be nested to any arbitrary level to form a work breakdown structure. Default Columns: ID, Type, State, Summary, Project, Risk, Days in Current State The paired relationship field is : Work Items.	Relationship
Change Orders	The change orders contained by this item. Default Columns: ID, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Change Order For.	Relationship
Defects	The defects related to this item. Default Columns: ID, Summary, State, Assigned User, Project, Priority, Domain, Days in Current State The paired relationship field is : Defect For.	Relationship
Total Remaining Effort	Amount of effort remaining for this item and all sub-items if applicable. The metric sums up the Estimated Effort values for all items that are not in the Closed phase. Thus the estimated effort contribution is either at 0% or 100%. This is a computed field.	Float
Days in Current State	Number of days this item has been in its current state. This is a computed field.	Integer
Open Change Order Count for Project	The number of open change orders in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Defect Count	Number of pending defects in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Test Objective Count	Number of pending test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Open Test	Number of open test objective tasks in this project. This	Integer

Objective Count	project metric is calculated once a week. This is a computed field.	
Closed Test Objective Count	Number of closed test objective tasks in this project. This project metric is calculated once a week. This is a computed field.	Integer
Pending Task Count	Number of pending tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	Integer
Open Task Count	Number of open tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is computed once a day. This is a computed field.	Integer
Closed Task Count	Number of closed tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field. This metric is calculated once a day. This is a computed field.	Integer
Total Task Count	Number of tasks (change orders, defects and test objectives) belonging to this item and all sub-items. For products and product portfolios, only active projects are included. For project portfolios, all projects are included. The calculation assumes that only task-like objects such as Change Order and Defect expose the Task Phase field, and that those types must always belong to a valid phase. This metric is calculated once a day. This is a computed field.	Integer
Change Requests	Change requests that inform a work item or test objective. Default Columns: ID, Summary, State, Project, Domain, Days in Current State The paired relationship field is : Change Request For.	Relationship
Retired States	A phase field which includes retired states.	Phase

Dashboard	Dashboard Description
Administrator Dashboard	This is a template dashboard that would be used by a solution administrator on a regular basis. The dashboard highlights usage of the system from a growth and churn perspective. These metrics can be used for capacity planning and understanding system usage.
Dashboard Template: Alternate 1x	Dashboard Template
Dashboard Template: MKS 1	This dashboard template has been made to resemble the then current look and feel of www.mks.com. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Dashboard Template: Office 1	This dashboard template has been made to resemble the default Microsoft Office look and feel. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Dashboard Template: Outlook 1	This dashboard template has been made to resemble the default Microsoft Outlook look and feel. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Dashboard Template: Tempus Timepieces 1	This dashboard template has been made to use as the main template for the ALM sample data. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Defect Management Dashboard	A dashboard used for prioritizing and managing defects discovered within a project. Should generally be used with a single project filter selection.
Executive Dashboard	An Executive dashboard template
Product Manager Dashboard	This dashboard template has been made to resemble the type of dashboard a product manager would use on a regular basis to gain an overview of the products. The product manager could then use the dashboard to drill down into specific products. While this template shows how to lay out objects side by side as well as full

	width the techniques could be used for any combination of charts, reports and dashboards.
Project Defects Comparison Dashboard	A dashboard used for analyzing and comparing defect trends across projects.
Project Manager Dashboard	This dashboard template has been made to resemble the type of dashboard a project manager would use on a daily basis to gain insight into a specific project. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
QA Manager Dashboard	A dashboard used for reviewing testing progress and effort for a specific project. Should generally be used with a single project filter selection.
Senior Project Team Dashboard	Contains the Requirement Documents Trend Charts (Daily Churn, Weekly Churn, % Suspect) and the Project Trend Chart for Release1

Chart Name	Chart Type	Chart Style	Chart Description
Active Projects per Product Cost Summary	Distribution	Table	A table of products that views cost
Active Projects per Product Effort Summary	Distribution	Table	A table of products that verviews health and status
Active Projects per Product Summary	Distribution	Table	A table of products that verviews health and status
All Content	Item Fields Trend	Line	Plots the number of content items
All Documents Trend	Item Fields Trend	Line	Plots the number of documents
All Project Trends	Item Fields Trend	Line	Plots the number of inactive, active and completed projects
Breakdown of Change Orders by Document	Item Fields	Table	Shows a table view of the number of change orders in every state organized by document. Every row shows the project, document, document type, and the number of change orders in every state for that document.
Change Order Trends	Item Fields Trend	Line	Plots the number of total, unassigned, and completed change orders. Organized by project.
Change Orders In Active Projects Trend	Item Fields Trend	Line	Plots the number of change orders in active projects
Change Request Trends	Item Fields Trend	Line	Plots the number of total, unallocated, and closed change requests. Organized by project.
Change Requests In Active Projects Trend	Item Fields Trend	Line	Plots the number of change requests in active projects
Content In Active Projects	Item Fields Trend	Line	Plots the number of content items in active projects
Content Trace Trend	Item Fields Trend	Line	Plots the percentage of contents having no traces to higher-level documents. Organized by project.
Daily Churn for Each Input Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous day. Organized by all editable

			documents in the Input Domain.
Daily Churn for Each Requirement Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous day. Organized by all editable documents in the Specification Domain.
Daily Churn for Each Specification Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous day. Organized by all editable documents in the Requirement Domain.
Daily Churn for Each Test Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous day. Organized by all editable documents in the Test Domain.
Defect Containment	Distribution	Table	Identifies the stage at which a defect is introduced and the stage at which the defect was detected. Useful for determining the root cause and cost of defects.
Defect Trend Analysis	Trend	Line	Defect trend rate
Defects by Priority & Assigned User	Distribution	Vertical Stacked Bar	A distribution chart which displays defects grouped by Priority and Assigned user.
Documents In Active Projects Trend	Item Fields Trend	Line	Plots the number of documents in active projects
Open Defects by Priority	Distribution	Pie	A distribution chart of defects grouped by priority.
Open vs Closed Defects	Item Fields Trend	Line	A trend of open vs closed defect counts.
Outstanding Change Request Count	Item Fields	Horizontal Bar	Plots the number of outstanding change requests associated with every document. Assumes that only the documents from one project are being analyzed.
Pending vs active tasks by assigned user and state	Distribution	Table	Plots the open development tasks by assigned user and whether its active or pending
Project Closed Defects Comparison	Item Fields Trend	Line	A project comparison chart displaying closed defects.
Project Details	Item Fields	Table	Effort, Budget and Schedule metrics

			for all active projects.
Project Open Defects Comparison	Item Fields Trend	Line	A project comparison chart displaying open defects.
Project Total Defects Comparison	Item Fields Trend	Line	A project comparison chart displaying total defects.
References Trends	Item Fields Trend	Line	Plots the number of active author, reuse and share references
Solution Usage Trend	Trend	Line	Identifies general usage of solution objects
Suspect Content per Document Trend for all Input Documents	Item Fields Trend	Line	Plots the percentage of contents that have at least one trace relationship that is marked as suspect in the Input Domain
Suspect Content per Document Trend for all Requirement Documents	Item Fields Trend	Line	Plots the percentage of contents that have at least one trace relationship that is marked as suspect in the Specification Domain
Suspect Content per Document Trend for all Specification Documents	Item Fields Trend	Line	Plots the percentage of contents that have at least one trace relationship that is marked as suspect in the Requirements Domain
Suspect Content per Document Trend for all Test Documents	Item Fields Trend	Line	Plots the percentage of contents that have at least one trace relationship that is marked as suspect in the Test Domain
Suspect Content Trend	Item Fields Trend	Line	Plots the percentage of content having at least one suspect link.
Task Assignment Breakdown	Distribution	Vertical Bar	Open development tasks by user
Task type by Priority	Distribution	Table	A table of development tasks (Change Orders, Defects) by state and priority
Tasks by Priority	Distribution	Pie	A distribution chart of development tasks grouped by priority.
Tasks by State	Distribution	Table	A table of tasks by activity type and state
Test Case Development Status	Item Fields Trend	Vertical Bar	A trend chart showing the progression of test authoring activity over a defined interval.
Test Coverage	Distribution	Pie	Test Coverage of requirements items and specification items
Test Objectives by Assigned User	Distribution	Vertical Bar	A distribution chart showing Test Objectives by Assigned User.

Test Result Status	Item Fields Trend	Vertical Bar	A trend chart showing the progression of test results against plan over a defined interval.
Test Sessions by assigned user and state	Distribution	Table	Plots the open test sessions by assigned user and whether its active or pending
Total Churn by Project	Item Fields Trend	Line	Plots the number of documents added and modified. Organized by project.
Unsatisfied Requirements Trend	Item Fields Trend	Line	Plots the percentage of contents from the Requirement domain that are not traced to at least one specification
Untraced Inputs Trend	Item Fields Trend	Line	Plots the percentage of contents from the Input domain that are not traced to at least one requirement
Unverified Requirements Trend	Item Fields Trend	Line	Plots the percentage of contents from the Requirement domain that are not traced to at least one test
Weekly Churn for Each Input Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous week. Organized by all editable documents in the Input Domain.
Weekly Churn for Each Requirement Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous week. Organized by all editable documents in the Specification Domain.
Weekly Churn for Each Specification Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous week. Organized by all editable documents in the Requirement Domain.
Weekly Churn for Each Test Document	Item Fields Trend	Line	Plots the number of significant edits on the document during the previous week. Organized by all editable documents in the Test Domain.
Weekly Defect Arrival Rate	Item Fields Trend	Vertical Bar	A trend chart showing the weekly arrival rate of Defects.

Query	Query Description	Default Sharing
Quick Query	none	none
Active Change Orders	All active Change Order items.	everyone:group (view)
Active Input Change Orders	All Change Order items in the Active phase within the Input domain.	everyone:group (view)
Active Libraries	All Library items containing artifacts and common Test Step items in the Active phase.	everyone:group (view)
Active Projects	All Project items in the Active phase.	everyone:group (view)
Active Projects Libraries and Templates	All Project, Library and Template items containing artifacts and common Test Step items.	everyone:group (view)
Active Requirement Change Orders	All Change Order items in the Active phase within the Requirement domain.	everyone:group (view)
Active Specification Change Orders	All Change Order items in the Active phase within the Specification domain.	everyone:group (view)
Active Templates	All Template items containing artifacts and common Test Steps in the Active phase. These are referenced by multiple projects.	everyone:group (view)
Active Test Change Orders	All Change Order items in an Active phase within the Test domain.	everyone:group (view)
Active Test Objectives	All Test Objective items in the Open or Pending phase.	everyone:group (view)
Active Test Sessions	All Test Session items in the Unassigned, Assigned or Testing phase.	everyone:group (view)
Active Work Items	All Work Items in the Active phase.	everyone:group (view)
All Change Orders	All Change Order items.	everyone:group (view)
All Content	All items with a class value of Content (i.e. all nodes).	everyone:group (view)
All Defects	All Defect items.	everyone:group (view)
All Development Tasks	All Change Order and Defect items.	everyone:group (view)
All Documents	All items with a class value of Segment (i.e. all documents).	everyone:group (view)
All Documents	All items with a class value of Segment that are	everyone:group

Having Churn Yesterday	not in the Restricted phase and have a non-zero churn count in the previous day.	(view)
All Finder Project Documents	All items with a class value of Segment that belong to projects for which the Show in Finder field is TRUE.	everyone:group (view)
All Input Documents	All Input Document items.	everyone:group (view)
All Libraries	All Library items containing artifacts and common Test Steps. These are referenced by multiple projects.	everyone:group (view)
All Library Test Steps	All Test Step items which have a Project value of /Library. This is used to reference Test Step items which are shared and can be reused within many Test Case items.	everyone:group (view)
All Portfolios	All Portfolio items.	everyone:group (view)
All Products	All Product items.	everyone:group (view)
All Projects	All Project items.	everyone:group (view)
All Projects and Libraries	All Library and Project items. This query is used by the Valid Change Order computation to determine Change Order applicability.	everyone:group (view)
All Requirements Documents	All Requirement Document items.	everyone:group (view)
All Risks	All Risk items.	everyone:group (view)
All Specification Documents	All Specification Document items.	everyone:group (view)
All Subdocuments	All items with a class value of Segment that are referenced by at least one other segment (i.e. subdocuments).	everyone:group (view)
All Surveys	All Survey items.	everyone:group (view)
All Templates	All Template items containing artifacts and common Test Steps. These are referenced by multiple projects.	everyone:group (view)
All Test Change Orders	All Change Orders items in the Test domain.	everyone:group (view)
All Test Documents	All Test Suite and Test Group items.	everyone:group (view)

All Test Objectives	All Test Objective items.	everyone:group (view)
All Test Sessions	All Test Session items.	everyone:group (view)
All Test Steps	All items with a class value of Test Step.	everyone:group (view)
All Work Items	All Work Item items.	everyone:group (view)
All Work Items and Test Objectives	All work assignment objects, including Work Item and Test Objective items. This query is commonly used by reports and query backed relationship (QBR) fields.	everyone:group (view)
Allocated Change Requests in Active Projects	All Change Request items across all active projects in the Allocated phase.	everyone:group (view)
At Risk Projects	All Project items that are in the Proposed or Active phase and that are at risk (i.e. have Yellow or Red Project Health values).	everyone:group (view)
Author References In Active Projects	All items with a class value of Node having Author references in active Projects. This query is used for system metrics.	everyone:group (view)
Automated Test Sessions	All Test Session items that have a Session Type of Automated (i.e. are set to be executed using the Automated Test Execution Framework).	everyone:group (view)
Change Orders In Active Projects	All Change Orders in active Projects.	everyone:group (view)
Change Requests	All change requests.	everyone:group (view)
Change Requests In Active Projects	All change requests in active projects. This query is used for system metrics.	everyone:group (view)
Closed Change Orders	All change orders in the Closed phase.	everyone:group (view)
Closed Change Requests	All change requests in the closed phase. This includes change requests that are rejected and partially satisfied.	everyone:group (view)
Closed Defects	All defects that are in the Closed phase.	everyone:group (view)
Closed Test Sessions	All Test Session items in the Closed phase.	everyone:group (view)
Completed	All projects that are in the Completed phase.	everyone:group

Projects		(view)
Completed Test Sessions	All test sessions that are in a completed phase.	everyone:group (view)
Content In Active Projects	All contents in active projects. This query is used in system metrics.	everyone:group (view)
Created in last 20 days	none	administrator:user (view)
Documents Added Recently	All documents added within the past day.	everyone:group (view)
Documents Changed Recently	All documents whose segment roots that have been modified in the past day.	everyone:group (view)
Documents In Active Projects	All documents in active projects. This field is used to calculate system metrics.	everyone:group (view)
Documents ready for transition to In Review	All documents in the system that are pending review and whose open change order count is zero.	everyone:group (view)
Editable Documents	All editable documents in the system.	everyone:group (view)
Editable Input Documents	All editable documents belonging to the Input Domain.	everyone:group (view)
Editable Requirement Documents	All editable documents belonging to the Requirement Domain.	everyone:group (view)
Editable Specification Documents	All editable documents belonging to the Specification Domain.	everyone:group (view)
Editable Test Documents	All editable documents (test suites and test groups) belonging to the Test Domain.	everyone:group (view)
Field: Test Plans and Test Objectives	All active test plans and test objectives.	everyone:group (view)
Finder Libraries	All items having the classification Library for which the "Show in Finder" field is true.	everyone:group (view)
Finder Library Documents	All documents belonging to projects having the classification Library and for which the "Show in Finder" field is true.	everyone:group (view)
Finder Project Documents	All documents belonging to projects having the classification Project and for which the "Show in Finder" field is true.	everyone:group (view)
Finder Project Projects	All items having the classification Project for which the "Show in Finder" field is true.	everyone:group (view)

Finder Projects	Projects that are displayed on the left side of the Finder dialog on Document Open. This includes all project documents, all libraries, and all templates.	everyone:group (view)
Finder Projects and Test Objectives	Left side of the finder dialog when adding to the Tests field. See MKS Solutions type property MKS.RQ.item.addrelatedtests.findersettings.	everyone:group (view)
Finder Template Documents	All documents belonging to projects having the classification Template and for which the "Show in Finder" field is true.	everyone:group (view)
Finder Template Projects	Projects that are displayed on the left side of the Finder dialog for the Create From Template command. Includes all projects having classification Template.	everyone:group (view)
Inactive Projects	All projects that are in the Inactive phase.	everyone:group (view)
Inactive Work Items	All inactive work items in the system - that is, those that are completed and rejected.	everyone:group (view)
Item Based Report Selection	A query that returns zero items. Item-based reports should be based on this query to prevent them from unintentionally being run without items selected, and returning extraneous results.	everyone:group (view)
Items in Active Projects	All items for which the project phase is Active or Proposed. Do not use this query except as a sub-query. Do not share to everyone.	everyone:group (view)
Manual Test Sessions	All Test Session items that have a Session Type of Manual (i.e. are set to be executed manually using the Test Results Editor).	everyone:group (view)
MKS Solution Item	The singleton MKS Solution item on which are stored the system-wide metrics.	everyone:group (view)
My Active Change Orders	All active change order items assigned to me.	everyone:group (view)
My Active Tasks	All open and pending task items assigned to me.	everyone:group (view)
My Active Test Objectives	All Test Objectives that are active and assigned to me.	everyone:group (view)
My Active Test Sessions	All test sessions that are active and assigned to me.	everyone:group (view)
My Current Work Items	All work items having at least one change order or defect assigned to me and in the open or pending phase.	everyone:group (view)
New Defects	Defects created in the last 7 days.	everyone:group (view)

New Defects - Priority Critical	Defects created in the last 7 days.	none
New Defects - Priority High	Defects created in the last 7 days.	none
New Defects - Priority Low	Defects created in the last 7 days.	none
New Defects - Priority Medium	Defects created in the last 7 days.	none
Open Defects	All defects that are in the Open phase.	everyone:group (view)
Open Development Tasks	All open and pending change orders and defects.	everyone:group (view)
Open Surveys	Retrieves all survey items in an Open state across all projects and products.	everyone:group (view)
Open Surveys (Products)	A derived query of Open Surveys where the survey is a Product survey.	everyone:group (view)
Open Surveys (Projects)	A derived query of Open Surveys where the survey is a Project survey.	everyone:group (view)
Orphaned Node Count	All nodes in the system that are not contained in documents.	everyone:group (view)
Orphaned Shared Item Count	All shared items in the system that are not referenced by any node	everyone:group (view)
Partially Satisfied Change Requests	All partially satisfied change requests regardless of project or project status. Does not include change requests that are in their terminal states.	everyone:group (view)
Pending Change Orders	All change orders that are in the "Pending" phase.	everyone:group (view)
Pending Defects	All defects that are in the Pending phase.	everyone:group (view)
Pending Input Change Orders	All change orders in the "Pending" phase belonging to the Input Domain.	everyone:group (view)
Pending Requirement Change Orders	All change orders in the "Pending" phase belonging to the Requirement domain.	everyone:group (view)
Pending Specification Change Orders	All change orders in the "Pending" phase belonging to the Specification Domain.	everyone:group (view)
Pending Test Change Orders	All change orders in the "Pending" phase authorizing work in one or more test suites or test	everyone:group (view)

	cases.	
Pending Test Sessions	AllTest Session items in the Pending phase.	everyone:group (view)
Placeholder Query	none	everyone:group (view,modify)
Projects that belong to a Portfolio	All projects that belong to a project portfolio.	everyone:group (view)
Proposed and Active Work Items	All proposed and active work items.	everyone:group (view)
Proposed Projects	All projects that are in the Proposed phase.	everyone:group (view)
Proposed Work Items	All proposed work items.	everyone:group (view)
Requirements	A query used to find requirement items. This query should only be used as a subquery, invoking this query without a project filter or in a project with a large volume of requirements may timeout.	everyone:group (view)
Requirements and Specifications	A query used to find requirement or specification items. This query should only be used as a subquery, invoking this query without a project filter or in a project with a large volume of requirements and specifications may timeout.	everyone:group (view)
Requirements Validation Trace Exceptions	A query used to find Requirements that have 0 Validated By traces. It is recommended that this query be used in conjunction with a Project filter.	everyone:group (view)
Reuse References In Active Projects	All nodes having Reuse reference in active projects. This query is used in system metrics.	everyone:group (view)
Review Pending Documents	Retrieves all documents that are in the "Review Pending" state from all domains.	everyone:group (view)
Share References In Active Projects	Returns all nodes having share references in all active projects. This query is used for system metrics.	everyone:group (view)
Slipped Coding Defects	All defects that were introduced during coding and detected in other phases of the project.	everyone:group (view)
Slipped Design Defects	All defects that were introduced in the design phase and detected in other phases of the project.	everyone:group (view)
Slipped	All defects that were introduced in the	everyone:group

Requirement Defects	requirements phase and detected in other phases of the project.	(view)
Specification Validation Trace Exceptions	A query used to find specifications that have 0 Validated By traces. It is recommended that this query be used in conjunction with a Project filter.	everyone:group (view)
Specifications	A query used to find specification items. This query should only be used as a subquery, invoking this query without a project filter or in a project with a large volume of specification items may timeout.	everyone:group (view)
Test Cases	A query used to find test case items. This query should only be used as a subquery, invoking this query without a project filter or in a project with a large volume of test cases may timeout.	everyone:group (view)
Test Cases in Active Projects	All test cases in currently active projects.	everyone:group (view)
Test Cases with Blocking Defects	Test cases that have been blocked by an open defect.	everyone:group (view)
Test Cases with Suspect Results	Test cases that have been modified since their last result was recorded.	everyone:group (view)
Test Plans	All test plans.	everyone:group (view)
Top Level Documents	All documents in the system for which "Root Document" is true.	everyone:group (view)
Unallocated Change Requests	All unallocated change requests in the database	everyone:group (view)

Report	Report Description
Active Change Orders	List of active change orders
Active Defects	List of active defects
Active Project Detail by Product	All active projects grouped by Product (ascending), sorted by Health (descending).
Allocated Change Requests in Active Projects	List of change requests that are allocated and assigned to active projects
Change Order Detail	Current status and list of authorized changes for selected change orders or for a content or document selection, all related change orders
Content Detail	Details of selected content items
Content History	History of selected content items (single selection recommended)
Customer Satisfaction Comments - Products	Survey comments and average scores.
Customer Satisfaction Comments - Projects	Survey comments and average scores.
Customer Satisfaction Summary - Products	All active application surveys and their results.
Customer Satisfaction Summary - Projects	All active project surveys and their results.
Defect Detail	Current status and list of authorized changes, time entries, and change packages for selected defects or for a content or document selection, all related defects
Document Content	Printer friendly output of selected documents (single selection recommended)
Document Content with Unresolved Parameter Highlights	Printer friendly output of selected document (single selection recommended) which highlights unresolved parameters in red
Document History	History of selected documents (single selection recommended)
Document Matrix	Matrix showing the trace relationships between two selected documents (must be used with two selections)
Document Metrics	Metrics for selected documents (single selection recommended)
Document Status	Document status data formatted for display within a dashboard
Document Structure Traces - Tree View	Given a document item selection, this report will display traces following the "Decomposes To", "Satisfied By", and "Validated By" relationship fields

Document Traces	Outline of the traces in selected documents (single selection recommended)
Document Where Used	Inclusion information of selected sub document items (single selection recommended)
Impact Analysis	For a selected requirement, shows all impacted content, by following the Decomposes To, Satisfied By and Validated By traces.
Inline Project Overview	none
Inline Project Status	Project status information.
New Defects - RSS	RSS Feed report for all new defects posted in the last 7 days.
Offline Test Session	Provides a formatted table of all test cases in a session with room for marking a Verdict or Annotation manually. This report can be used for offline testing when testing is done in a lab away from a connected PC environment. This report by default performs parameter substitution.
Offline Test Session - XForms	Displays a Test Session in an XHTML format using XForms. This allows for offline test execution. By clicking the Save button on the report after results have been entered, a results.xml file will be created in your report directory. The results.xml file generated may be used as the Action Definition File for the 'tm setresults' command, allowing you to easily import the results of offline testing. This report requires an item based selection and also requires that your browser support the XForms standard. It has been tested with the XForms plugin available for Mozilla Firefox 3.
Pending Change Orders	The list of change orders in the "Pending" phase.
Pending Defects	The list of defects in the "Pending" phase.
Portfolio Detail	Portfolio details including metrics.
Portfolio Project Timelines	Show all projects that belong to a portfolio and their timelines as they pertain to the current year.
Product Detail	Displays Product details and metrics. Single selection recommended.
Project Detail	Details of a project showing project item data with related child items and attachments.
Project Documents grouped by Phase	The list of documents in the selected Project, grouped by Document Phase.
Project Gantt Chart	Provides a gantt style view of the work break down structure of a Project item using a javascript rendering engine. This report assumes a single Project item is selected.
Project Metrics	Metrics for selected projects (single selection recommended)
Project Overview	An overview of all projects providing effort, budget and project health information. Sorted by item ID (ascending).
Project Timeline	All active projects and their timelines as they pertain to the

Summary	specified year.
Projects	All projects with links to view project details
Requirements Test Coverage	Test coverage details for a requirements document. This report should be used with a selection of one or more requirements documents.
Specification Test Coverage	Test coverage details for a specification document. This report should be used with a selection of one or more specification documents.
Status - Activities by State	All work items and test objectives, grouped by State.
Status - Activity Effort	All work items and test objectives, and the time spent on them.
Status - Projects by State	All projects grouped by State (ascending), and sorted by the Project Start date (ascending).
Status - Suspect Impact	All content items that have triggered suspect relationships, on a per-project basis. Single Project Selection recommended.
Status - Suspect Items	Per project, lists suspect content, grouped by document. Single Project Selection recommended.
System Document Metrics	Document metrics formatted for display within a dashboard
System Document Metrics Dashboard Report	Document metrics formatted for display within a dashboard
Template Documents	Complete list of all template documents.
Test Objective Detail	Details of a Test Objective showing test objective item data with planned tests and metrics.
Test Session Detail	Details of a Test Session showing test session item data with the tests and metrics.
Test Session Detail with Test Steps	Details of a Test Session showing test session item data with the tests and metrics as well as the test steps.
Test Session Result Status	Test results along with test case design details for a session. This report should be used to review the results for a particular test session and a single item selection is recommended.
Test Step Where Used	Identifies the list of Test Cases which reference a Test Step.
Top Level Documents	All top-level documents.
Top Level Documents in Project	Top level documents in the project, and the document metrics. Single project selection recommended.
Unallocated Change Requests	The change requests in the Unallocated state

Work Item Detail	All work items in the project corresponding to the current selection. Includes all metrics for the work items. Selection must be a project item.
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Dashboard	Dashboard Description
Administrator Dashboard	This is a template dashboard that would be used by a solution administrator on a regular basis. The dashboard highlights usage of the system from a growth and churn perspective. These metrics can be used for capacity planning and understanding system usage.
Dashboard Template: Alternate 1x	Dashboard Template
Dashboard Template: MKS 1	This dashboard template has been made to resemble the then current look and feel of www.mks.com. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Dashboard Template: Office 1	This dashboard template has been made to resemble the default Microsoft Office look and feel. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Dashboard Template: Outlook 1	This dashboard template has been made to resemble the default Microsoft Outlook look and feel. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Dashboard Template: Tempus Timepieces 1	This dashboard template has been made to use as the main template for the ALM sample data. It does not use images for chart, report and dashboard titles and has defined styles for each. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
Defect Management Dashboard	A dashboard used for prioritizing and managing defects discovered within a project. Should generally be used with a single project filter selection.
Executive Dashboard	An Executive dashboard template
Product Manager Dashboard	This dashboard template has been made to resemble the type of dashboard a product manager would use on a regular basis to gain an overview of the products. The product manager could then use the dashboard to drill down into specific products. While this template shows how to lay out objects side by side as well as full

	width the techniques could be used for any combination of charts, reports and dashboards.
Project Defects Comparison Dashboard	A dashboard used for analyzing and comparing defect trends across projects.
Project Manager Dashboard	This dashboard template has been made to resemble the type of dashboard a project manager would use on a daily basis to gain insight into a specific project. While this template shows how to lay out objects side by side as well as full width the techniques could be used for any combination of charts, reports and dashboards.
QA Manager Dashboard	A dashboard used for reviewing testing progress and effort for a specific project. Should generally be used with a single project filter selection.
Senior Project Team Dashboard	Contains the Requirement Documents Trend Charts (Daily Churn, Weekly Churn, % Suspect) and the Project Trend Chart for Release1

Trigger	Trigger Description
MKS - Historic Computation Fields - Daily	MKS Installed Trigger This trigger runs periodically to compute and store to history the computed fields. You may change the scheduling mechanism: for example, the default is to run at 2am: if another time is more convenient it can be changed. However, this changes all computations of the given period. Do not change the fundamental scheduling units: if you change a daily trigger to run only on Monday and Thursday, then all daily triggers will run only on two days of the week. Instead, create your own trigger, using the <code>imServerBean.computedFieldToHistory()</code> method from javascript.
MKS - Historic Computation Fields - Weekly	MKS Installed Trigger This trigger runs periodically to compute and store to history the computed fields. You may change the scheduling mechanism: for example, the default is to run at 2am: if another time is more convenient it can be changed. However, this changes all computations of the given period. Do not change the fundamental scheduling units: if you change a daily trigger to run only on Monday and Thursday, then all daily triggers will run only on two days of the week. Instead, create your own trigger, using the <code>imServerBean.computedFieldToHistory()</code> method from javascript.
MKS - Historic Computation Fields - Monthly	MKS Installed Trigger This trigger runs periodically to compute and store to history the computed fields. You may change the scheduling mechanism: for example, the default is to run at 2am: if another time is more convenient it can be changed. However, this changes all computations of the given period. Do not change the fundamental scheduling units: if you change a daily trigger to run only on Monday and Thursday, then all daily triggers will run only on two days of the week. Instead, create your own trigger, using the <code>imServerBean.computedFieldToHistory()</code> method from javascript.
MKS.ALM: Segment State	Automatically labels a document when it reaches certain states in each workflow. It creates labels beginning with the reserved prefix, of baseline. It is used in combination with the "MKS.ALM: Baseline" trigger. Also, prevents transition to the In Review state if there are any outstanding change orders attached to the segment.
MKS.ALM: Change Order	Validates changes to change orders. Aborts the transaction if there are project mismatches or if a state transition is requested by an invalid user.
MKS.ALM: Change Requests	Validates changes to change requests. Aborts the transaction if there are project mismatches or if the change request is added to a project that does not accept change requests. Effects state transitions based on the presence of (or lack of) items related via the Spawns relationship.
MKS.ALM: Notify	Sends an email with a link to a report when a document reaches the

When Document Reaches In Review	In Review state. The default report used is based on the Document Content report recipe and the default recipients are the Senior Project Team.
MKS.ALM: Notify When Change Order is Completed	Sends an email with a link to a report when a change order reaches the Closed state.
MKS.ALM: Relate Root Document to Project	Relates documents to the project backing item of the assigned project when the Root Document field set to true
MKS.ALM: Transition Documents to In Review	Automates the transition of a document that has no outstanding tasks (Change Orders, Defects and Test Objectives) from the Review Pending state to the In Review state. By default, this trigger runs nightly. Another trigger, "MKS.ALM: Change Order", performs the same transition when the last open task attached to a Review Pending document is closed. This trigger is intended to catch a scenario the other trigger would miss, it handles documents that are placed in Review Pending that have no open tasks with none added by the time this trigger runs.
MKS.ALM: Baseline	Prevents a label beginning with "Baseline" being applied to an item unless the label is created by the "MKS.ALM: Segment State" trigger
MKS.ALM: Portfolio Structure	Ensures that all items managed by the portfolio are of the type indicated by the "Managed Type" field.
MKS.ALM: Document Name	Constructs the full name of the document and stores it in the Summary and Shared Text fields whenever the document's short title is modified by the user.
MKS.ALM: Authorizations	Enforces the solutions data model hierarchical editability rules and sets fields needed for the reporting infrastructure. Manages and updates change orders, including for the case that a new segment is inserted into a document.
MKS.ALM: Test Sessions	Manages system updates to test sessions. The "Tests As Of Date" is set according to the list of states on the Test Session type property MKS.RQ.StatesToSetTestsAsOfDateField. The internal field "Tests As Of Date Set" is updated to reflect when a date has been set.
MKS.ALM: Daily Metrics	Calculates many of the document metrics and all project metrics that are derivable from the document metrics.
MKS.ALM: Run RSS Report - New Defects	Runs the New Defects RSS feed report.
MKS.ALM: Audit	Used to audit all changes to document structure. Trigger does not fire on simple edit operations (even those within the document view), nor on baseline or branch operations. The audit messages are written to the server log with the message category MKSALMAUDIT, which is not enabled by default.

MKS.ALM: Change Process Item Project	If a user changes the project field on a Work Item or Test Objective then this trigger modifies the project for all contained Change Orders, Defects, Test Objectives and Work Items all the way down the work breakdown structure. Read the header of the trigger file for more details.
MKS.ALM: Notify Executive When Document Needs New Changes	Sends an email with a link to a report when a member of the senior project team has indicated that a document needs new changes. The "Needs New Changes" field is editable only once the document has been put in the Delivered state. Somebody in the executive team must approve changes to the document once it has been put into this state. Approval is implied by putting the document back into an editable state.
MKS.ALM: Clear Needs New Changes	Sets the value of the "Needs New Changes" field to false when a document is being transitioned to the "Restricted" or "Retired" states. This works in conjunction with the trigger "MKS.ALM: Notify Executive When Document Needs New Changes".
MKS.ALM: Solution Singleton	Prevents more than one instance of MKS Solution from being created.
MKS.ALM: Trace Status	Sets the Trace Status picklist value each time a trace field is updated on a node.
MKS.ALM: Increment Revision Major	Increment major revision when a document is ready for review. [Remove condition 'ID < 0' from the rule to make the trigger effective]

Username	Description
administrator	none
business_analyst	none
developer	none
development_manager	none
executive	none
product_manager	none
project_manager	none
qa_analyst	none
qa_manager	none
requirement_analyst	none
requirement_manager	none
senior_business_analyst	none
senior_developer	none
senior_qa_analyst	none
senior_requirement_analyst	none

Test Verdict	Test Verdict Description	Test Verdict Type
Skipped	none	other
Failed	none	fail
Passed	none	pass

Viewset	id
Configuration Manager	ConfigurationManager_2007
Deploy Administrator	DeployAdmin_2007
Developer	Developer_2007
Integrity User	IntegrityUser_2007
Release Manager	ReleaseManager_2007
IBM i Developer	iSeriesDeveloper_2007
???????	ConfigurationManager_2007_ja_JP
?????	DeployAdmin_2007_ja_JP
???	Developer_2007_ja_JP
Integrity ?????	IntegrityUser_2007_ja_JP
???? ?????	ReleaseManager_2007_ja_JP
IBM i ?????	iSeriesDeveloper_2007_ja_JP
Administrator	ALM Administrator
Agile	Administrator_192.168.10.132_1117_0
Architect	ALM Architect
Business Analyst	ALM Business Analyst
Configuration Manager (ALM)	ALM Configuration Manager
Designer	ALM Designer
Developer (ALM)	ALM Developer
Executive	ALM Executive
Manager	ALM Manager
Product Manager	ALM Product Manager
Project Manager	ALM Project Manager
Requirements Analyst	ALM Requirements Analyst
Test Developer	ALM Test Developer
Test Engineer	ALM Test Engineer
Test Manager	ALM Test Manager

Admin Type	Admin Name	UUSID
State	In Review	d8d010fc-f649-468b-9ac9-a81cc29fc295
State	Cancelled	79c255dd-5176-4746-bcbc-6e88eb788726
State	Published	0f5980b8-2d0c-47c0-bec3-c962d7f83ba5
State	Unassigned	7117970f-6f73-4d8a-83b4-b08e616f37b7
State	Assigned	9c47d705-c140-407a-89c0-f8db99a22fc2
State	Rejected	4b2cbf97-ee3a-40e5-8b96-f254afe918b8
State	Open	63748ed5-2d2a-4634-8f08-34c2b023d342
State	Closed	91bbede4-abd6-4859-bdf1-69328fc0ea53
State	Unallocated	1a26b540-7223-4075-b096-b30baa086054
State	Allocated	7bbccc85-37ea-49af-82a0-b6c6a5afcfe2
State	Satisfied	952d557a-1955-404f-afec-97a767dd2c72
State	Partially Satisfied	1205c82b-4228-4f38-87a0-3343942bc62e
State	Restricted	4a399d0d-2a18-42ed-85de-660588a0d238
State	Delivered	bd29ccce-10d5-4609-9f20-72e2037551a6
State	Review Pending	bfd86a19-a4ff-4696-8935-cf661d397aff
State	Submit	6ad16579-4d1f-447e-8da6-d2abc5c6aabd
State	Retired	0c9897a2-a345-4d54-91fb-322b859dbccd
State	Active	b0ffc7e1-ac1b-4850-8466-41f104bb84c7
State	In Development	488fa33f-f436-4036-b242-16846b68844e
State	Suspended	da002f3f-3c24-4173-acd6-163c89350c00

State	Inactive	6622a77d-8c99-4636-b8dd-e87d03b9b591
State	Available	7384e0b9-1d95-431f-a87a-5d5d2398bc24
State	Completed	28fdb821-d5ba-4b1f-aa72-f1e6e9cf497f
State	In Testing	05e2ca96-4c08-448b-9397-a778b3fa7afe
State	Deprecated	70914b99-8ac2-42f9-a6f6-33adb1bf49ce
State	Accepted	0bc16027-07d0-44b0-80e4-85bf3f1e9102
State	In Retesting	90c0b2a5-9ac8-4caa-adfd-3083583c55bf
State	Proposed	9aa63d7b-8ad4-484a-8ba6-5c1ff395e0a3
State	Ready for Automated Testing	10831b7b-6c57-4813-ae5b-2060009fc4d3
State	In Progress	03e267d8-4de0-45a4-978a-edc5151e0cad
State	Unavailable	78c4a22c-8b6d-4935-8cd3-630aa1f244d3
State	Started	6fc172d8-7087-4ba0-99d6-922586593cf1
State	Defined	4869831e-ae81-472c-9727-b9779caf8f32
State	SI Change Package	74771e3a-9a0a-401e-ad93-79628fca22e6
Field	Shared Attachments	124bfca3-0a17-4ae6-a85b-0fdd6082fc62
Field	Closed Date	7169267e-0e7e-490e-ba6d-3c3564a7ac15
Field	Authorizing Change Order	a9c3dd65-c0bf-4bd5-8218-00f8bbb1eae
Field	Change Request Count	5c9fd0d1-c7af-4e94-b8f3-8085d0cc536f
Field	Unallocated Change Request Count	1f75a039-b00e-4a3d-aad0-959531c44970
Field	Closed Change Requests	0ecca60a-655a-414c-a182-a171ead30b70
Field	Total Change Order Count	5e8f8eaa-b19b-4f92-b94a-c311c4a65d5d
Field	Pending Change Order Count	c4810045-713a-4748-89a5-

		394bf9e0c10c
Field	Closed Change Order Count for Project	90dae637-e0d4-4a61-a58f-703196449fca
Field	Global Inactive Project Count	66624c1e-f7f0-450f-86d3-0edc71c7be0e
Field	Global Active Project Count	9a2ed94b-9ce2-4dc4-bebf-13de3c65f589
Field	Global Completed Project Count	27a13234-5f6a-4393-9c84-6bac9dcb4e90
Field	Change Request Count In Active Projects	8c6f9a16-db06-4ff8-becd-d1cb4176b275
Field	Document Count In Active Projects	b78adaf5-ae44-41c8-a8f1-a471ea3b4bf1
Field	Change Order Count In Active Projects	b6b83473-c8cd-4285-9ea9-1b295b17e3b8
Field	Content Count In Active Projects	12ab6ce1-82c3-4925-b8bd-d3aef9423392
Field	Global Document Count	64236b50-0ba7-46f0-a8c3-cf58b91549e4
Field	Author Reference Count In Active Projects	2c8dd6b2-8bfc-40d8-b571-73d107a628af
Field	Global Content Count	33392fda-f3b8-4f31-8d45-75ad63c976cd
Field	Share Reference Count In Active Projects	8ee0083e-9fcb-4a6b-b7d1-400dfbdc34ee
Field	Reuse Reference Count In Active Projects	7456962b-fa5d-4833-a0b3-e1fb9816b78c
Field	Top Level Document Count	a0eac49b-9c4b-44eb-9115-7fe26e382cd7
Field	Suspect Count	7d7246af-4676-4fcb-a15d-21014c298118
Field	Documents Modified Yesterday Count	2670f96e-6b38-493a-ad7f-2d3b52834d1c
Field	Documents Added Yesterday Count	f2ebdd7e-4325-48b6-8446-671e6757d7f5
Field	Maximum Document Content Count	f6e5ffe0-7593-4e42-b637-d0d8360f46bb
Field	Average Document Content Count	bb9a4184-e3a4-4426-8e9d-038bd2efa129
Field	Orphaned Shared Item Count	44220fbc-af68-4a0b-9c29-0c9c83c0cf03
Field	Orphaned Node Count	7d3f3fa1-06f2-4516-8f45-db22c946f08b

Field	Change Order Authorizations In Effect	75f8721e-8f76-4c5a-833f-cf12c5999715
Field	Use Hierarchical Editability	1895d68c-88cd-4b5f-a36e-7e171317ae93
Field	Valid Change Order	9d6dfd72-0710-4349-91b0-fca64bb454df
Field	Allow Edits	547a3e9c-09fa-4436-b56e-3e8792aa8c3c
Field	Accept Change Requests	cb6563b9-48bb-4ebe-b6ce-a3247db77b6b
Field	Needs New Changes	ff757a67-7c59-41ab-96eb-1af1bd22aad1
Field	Show In Finder	6325e225-5056-4a54-83af-d1817f481de1
Field	Root Document	8ce86e52-7bda-4f27-8ba4-06ec7541b4f6
Field	IncludeReference	e48b87b6-ebd7-4658-9f03-306b70217c0a
Field	Allow Scope Expansion	e1c64a92-6d07-4cfc-8c5d-121200cdc60e
Field	Allow Traces	392d59c9-5358-461f-84fe-77e50c4f977f
Field	Allow Links	f8c24b09-1294-4967-83f9-7de4ab590855
Field	Discussion	4fe47755-5ca2-415a-a321-a6eb5d956f3f
Field	Task Phase	be51370d-b5c3-4d4a-a5bd-abdbaef08eba
Field	Shared Text	1fb2a483-5dec-4762-9ce8-be6c3aa8445c
Field	Changes Authorized	b3f663cf-2248-4fd0-bfa3-c590c0c40674
Field	Domain	35e04388-c5ec-49bd-a94d-9f6b98b7ece8
Field	Priority	50579a8f-bc98-4d10-a14e-c2c1efbde56
Field	Document Phase	bb54d094-90bb-4133-9b0e-2de0f0a47b72
Field	Change Request Phase	a21981ba-789c-4bb4-bf00-6e0b3d890429
Field	Satisfies	ae07bdb4-e38d-4c9a-b3c1-5a61bcbd99de
Field	Satisfied By	eb1fcdc9-a339-4396-8f8b-

		8981d5f75d42
Field	Risk	79a02100-1259-4382-b6c9-9a06350bbf3d
Field	Effort	ea13397e-7757-4ca0-abac-c6150f741b41
Field	Validates	e55326aa-83f5-486f-ac79-4a6df692101b
Field	Validated By	cc5b48d0-41c3-4d20-8304-111abccee648
Field	Changes Authorized By	f0e1380f-d7f5-4f34-b8d6-19dbe7a4d87d
Field	Authorizes Changes To	7bc0511c-d232-401a-9bd7-ce646ca7fc57
Field	Spawned By	bbc59979-b511-472a-acfb-6da8fc8475ad
Field	Spawns	4dc0956a-f706-45a5-bcf9-5ce1b296238b
Field	Documents	8bd4b7d4-eac7-45a0-a283-5ec748eddac9
Field	Documented By	cb639a28-ae1d-45ba-ad84-930d805a2822
Field	Stakeholders	640742c8-077b-4259-8e71-84cac35bf5e7
Field	Pass Count	5e7b7cd2-a516-4617-9069-dd92e4208228
Field	Run Count	17187f56-6f35-4ded-b7a7-a72d0982d00f
Field	Test Environment	c5aabd04-68a5-47d0-a26b-aa382428145e
Field	Decomposes To	a028078f-9612-4242-b9fd-c2afa9aedc68
Field	Decomposed From	ee2f8070-bd57-40c8-9dff-8e3850c3ea15
Field	Is Related To	1f6cfe7b-1e39-45c2-8f7a-09fd168a1a41
Field	Is Related To'	f4a3d833-68cf-4d13-b39a-300a5b4c1b5f
Field	Fail Count	8881c5df-bcd7-4790-9499-36452b679d4a
Field	Test Objective Run Count	e80d62f8-067e-4d53-8ff4-41fa03fbb2bf
Field	Test Objective Pass Count	220a4497-1be6-45af-9c30-552526c5564d

Field	Test Objective Fail Count	17c3dcc3-379a-467d-afc2-8ce63622e0c3
Field	Test Objectives	344c2edc-d263-4ebf-ac62-eb9f9a7630f7
Field	Test Objective For	cba08f77-a84f-440a-b9e9-ffff985d72f1
Field	Build ID	0b0b78a1-6aab-4426-95ff-fcc5491abf94
Field	Change Requests For Project	f25c3e2e-d880-4326-be62-9be70505b36d
Field	Other Count	fc5c6af4-d4e1-447c-9a6f-79efab4092ce
Field	Session Type	0d7ce6c1-b30c-4422-a938-88433d3baee
Field	Total Pass Count	d52ae31a-b992-4e6c-8692-237bedec0d35
Field	Test Objective Other Count	bbfa8ec6-0ffb-4940-8519-146ca2b68e71
Field	Open Defect Count	64833108-3f97-43ee-ae13-6b730663d157
Field	Detected During	0b70abb7-8178-4121-b160-9f8fb9242f3c
Field	Total Defect Count	b6ff805c-0f82-40cc-93c6-50a02e49b8d4
Field	Closed Defect Count	e7f3e857-20d6-4c8b-bf7b-09541a247ff4
Field	Total Planned Count	6db06b71-398d-4adf-b5a4-20c2a52db76f
Field	Last Result	6dff48e9-cc50-4694-908b-384dd910fac0
Field	Test Step Editable	57d371a4-e975-41dc-b0ca-70c3e88b75f2
Field	Valid Test Step Change Order	42297a63-03a4-46a3-9f0a-5d84e2d9b7fa
Field	Total Other Count	de229b28-2624-4cab-8c1e-8421dcf71a18
Field	Total Fail Count	a560a051-d2fb-4819-b6c9-f06091d9008a
Field	Product	1fb6ed95-d6ae-4a2e-9fb2-3368995d3991
Field	Total Run Count	a0806625-0d15-49fc-b02d-f11d880e4f31
Field	Found by Test Objective	cf03b2f5-339a-4474-8224-

		f2eb7753c0d1
Field	Test Objective	1db368c8-d788-464b-b771-013388e5ed49
Field	Planned Start Date	aed7dd22-e129-4c92-a456-0cdf0cc1dfbc
Field	Planned End Date	5bad009e-0813-4292-a9a2-5b6519263022
Field	Found in Work Item	28d520b6-fe81-4dba-b2ad-2fc9cbb9ab45
Field	Work Item	89409855-e900-4f79-9d0c-ae5923fd5b4b
Field	Editable Value	953ba8e9-cf43-4d19-82ab-69b7ce5d7eb3
Field	Editable	d2c1fad7-b182-4c3d-a4da-c4be2bd0452f
Field	Planned Start Time	4bfd1cb3-adc1-4eeb-9fc9-0172b7a01433
Field	Actual Start Time	e13995da-50d2-421e-8b07-6329ed048f6c
Field	Test Tool	a29cbae0-c111-447e-9d62-ffbbc98c2da3
Field	Shared Automated Behavior On Error	804940d9-3c6c-4288-abae-ee90d303271e
Field	Test Session Phase	3e120497-1217-4e92-bc21-505056354e68
Field	Test Objective Phase	56b90f31-abd3-4176-8b45-c12ad618ee8b
Field	Test Change Orders	dce666c9-a6db-4a2e-b469-a4fab473cac1
Field	Completed Test Sessions	d61488bb-42b3-401f-9f47-dc68e79a5acb
Field	Total Actual Budget	c4c674f2-53fb-4c97-b7b6-2fde4208b087
Field	Estimated Budget	304b9083-b9c4-46bc-b362-1e78e82d0e53
Field	Actual Budget	660c1ff9-8250-4c1b-981e-c5925dd13833
Field	Project Phase	a6e9491b-23ef-4a84-995b-3df2e5c57591
Field	Active Test Sessions	0a3347f9-f4cb-48e7-ac52-98a176d31504
Field	Requires Validation	403d1b1e-94c4-42a9-a98c-22884af5ab13

Field	Shared External Script Name	a261c60f-1d87-4b0f-b83f-cab60c613a20
Field	Shared External ID	d236a4e9-4c22-4523-9843-c458687043e8
Field	Total Estimated Effort	520f9278-0999-42a3-bb03-e8b27048147f
Field	Test Plan For	2ed56d29-2061-44b7-baee-ec5d1ad03bbb
Field	Test Plans	0553155f-6206-4f85-9495-5e5e4dc0dd56
Field	Total Actual Effort	8336315e-e56a-44be-880f-99869a52840f
Field	Total Budget Variance Range	613666cd-4f47-4ed3-827d-547ea16d1b46
Field	Total Estimated Budget	3c178d96-e30f-467d-84d3-25a1ef8149d9
Field	Actual Effort	a7f08511-fd5e-4121-9f28-891144eb74f6
Field	Budget Variance	b3871006-c4df-4dee-b5ee-ca55def5e13b
Field	Total Open Change Package Count	3db7e713-058d-4d3f-992f-8d2f231572f4
Field	Total Change Package Count	cf3be244-300c-4867-a6ed-1ae22e2a2183
Field	Manages	6c901a6f-a9a9-494d-9770-f91d16e51322
Field	Managed Type	aad47071-5577-41ac-be8e-23f98a6851f4
Field	Work Items	7b63eefb-1d5e-492f-a798-33dc94ba9860
Field	Managed By	6f594cd3-ea06-429c-b8ef-e46371234259
Field	Change Orders	bfba6738-fdf1-4083-91f6-f0ce6935809c
Field	Work Item For	1c95e398-69c5-4a42-8717-7dae9ec3031d
Field	Health Value	335d3d10-539f-49df-8561-a7737706a3f5
Field	Total Effort Variance Range	5be70037-9951-4482-b411-76462ebe3c41
Field	Effort Variance	8e9871c2-0b7f-4304-ab7a-c49570a48a9c
Field	Total Effort Variance	a6501f83-7860-451d-a035-

		2afd535df8e4
Field	Process Category	449b92e1-be85-4da0-8fb4-80c895017c37
Field	Estimated Effort	324ebc03-8aef-41ea-8fa9-5c7ab4b5d1c5
Field	Change Package Count	44453fcf-cd95-41df-a79b-d20f0832cf36
Field	Open Change Package Count	b4af8e96-20f5-472c-8e91-dac865e3b8b7
Field	Health Value Range	56a96802-fd4b-4fa0-96de-441ac30bab47
Field	Change Package Entry Count	d237350c-a75f-4ff2-8d1a-5fec57c1fefe
Field	Days in Current State	9c2f1414-808a-4088-b686-c1fc1dad4a0a
Field	Average Budget Variance	1bf527ac-5e23-4c11-acb8-bcd0c61b787a
Field	Average Effort Variance	337e13a8-11d4-4b19-9aee-98bebf0d1e11
Field	Product Health Value	ce8c6c38-e4a5-445a-bd49-d2298ab90f7c
Field	Product Health Value Range	a96dc91b-607e-426b-abbe-502f2a803593
Field	Active Projects	30d34567-5217-4616-887c-5f4fa984156d
Field	Change Order For	e425ffb5-5b7e-4980-81bc-5178655e1a91
Field	Defects	5fbf7979-f511-466e-add1-bd0fbb4d625d
Field	Defect For	24bffe3-5d29-48bb-ad39-7139888f017e
Field	Open Task Count	8cccf725-5f55-48db-9098-07427a1884da
Field	Total Task Count	25dda783-fde8-4791-9b4c-4d45766e302f
Field	Pending Task Count	688452d1-0cbd-4b69-a077-dc3bd7120422
Field	Closed Task Count	401d2d61-b894-4417-8e65-fbf7c77e38f3
Field	Total Remaining Effort	c3feaae1-b79f-401d-8f0a-ae2e516a0a3
Field	Lines of code	f5fec35d-c384-49a3-97e7-85045b603216

Field	Source Project	caef88de-2715-4099-881f-7678097946f4
Field	Completed Project Count	95dad1e8-44ee-44b9-8a25-f8afd0be4a02
Field	Inactive Project Count	59b06c9f-543c-43be-a996-88fbcd474b9e
Field	Green Project Count 2	cbe7739b-3ecc-489a-83ba-f4252f16c65f
Field	Source Checkpoint Count	b2aae884-20fd-4674-8e6d-cee9ce63924e
Field	Source Subproject Count	f28549fe-03bd-44d2-ada4-0fb646046db7
Field	Source File Count	cd396441-ba4b-4e9d-9be3-b6ced9668728
Field	Active Project Count	6b7b5178-d81e-428f-a442-85342051dff0
Field	Red Project Count	6c39aac7-c29b-447d-a8fe-d5b9bfcee590
Field	Yellow Project Count	356b71e8-79f3-42fc-b08b-6e39895e2e2d
Field	Green Project Count	384359b5-b05e-4181-be0d-5d2e1583bed7
Field	Proposed Project Count	eb585647-9f78-4884-9732-dc7e0668c2d6
Field	Inactive Projects	44da4fb8-6f21-404a-ba46-a7de944f4127
Field	Completed Projects	1af5acfe-ccb1-4cbb-8a99-a17b9a6791b7
Field	Proposed Projects	6794d208-aced-4619-8e19-e917ccbee00a
Field	Closed Test Objective Count	b89e6237-a2c2-4242-9fc3-956152194bb7
Field	Total Test Objective Count	284c156d-dfdf-477b-910b-6b57cdca18c7
Field	Pending Test Objective Count	c7b5fd32-aa1d-43d6-ba83-4da55c1b3795
Field	Open Test Objective Count	989fde72-6152-47ac-9212-73268fe66e55
Field	Total Budget Variance	d21d38ac-73b0-4f15-ad4b-f2b8fe66d98e
Field	Project Start Original Estimate	ded6da62-4754-48d2-9fb4-56d8633fe7c8
Field	Total Pass Percentage of Planned	84506851-15f6-4be1-858f-

		f02a758c8d12
Field	Total Run Percentage	4cca6d7d-f399-4dda-acd0-5d0afca85e1e
Field	At Risk Projects	06891032-b497-4b57-a96f-e051e04cdebe
Field	Managed Product Count	9d68696a-f7f2-4393-9cf8-277e4fd660ae
Field	Yellow Project Count 2	fec95f93-d2d2-44d4-ac8e-31306746da67
Field	Red Project Count 2	c5a80969-a333-408d-9fd3-7139a300fcf0
Field	Open Change Order Count for Project	e43fe561-5eee-4112-b306-fa795f3e086e
Field	Pending Defect Count	fe25c6c2-ff6d-4868-a7f1-63618207ee99
Field	Managed Project Count	de1ed80b-721b-44a3-9a3e-5bb0bde7151
Field	Belongs to Portfolio	35c48212-e637-4b46-88c7-3801f0939483
Field	Code Freeze Actual	60abaa36-1e78-491f-9b65-85b4203fb89d
Field	Functional Specification Freeze Actual	b88c8bec-a6f0-41cb-be6d-91a788aa35dd
Field	Development Complete Current Estimate	bd442413-a4ae-435b-82b4-648928325808
Field	Development Complete Original Estimate	8dc7bbbf-8298-408b-b30f-33e18412aa04
Field	Project Start Actual	ebf06b0c-2a92-4e77-a5a6-cbda27d4f621
Field	Code Freeze Current Estimate	8fe0b1fc-e129-484f-9845-767c3373bba7
Field	Project Plan Actual	c53ec9ec-1ba1-40c3-8fbc-59d0c3f81bf9
Field	Project Acceptance Actual	3f4ad94b-4be6-4da0-92e6-7260bec843fe
Field	Project Acceptance Current Estimate	4b7e0cd5-c47b-43d0-a717-0f9ff4d38605
Field	Project Start Current Estimate	f25af746-6cd8-4948-86c6-749a464d3f9f
Field	Functional Specification Freeze Current Estimate	63521e77-6684-410f-85e4-6b29f9d0d29c
Field	Project Plan Current Estimate	f4210c54-1e58-4457-89e9-30bd4391af49

Field	Project Plan Original Estimate	a909e6f8-cd3e-49ef-a091-eb571ce51154
Field	Project Acceptance Original Estimate	c50f5e60-c709-4517-a9cf-3b41f2dbbf25
Field	Code Freeze Original Estimate	75234cc9-ecb5-446d-be8d-6ba383ee0dbf
Field	Functional Specification Freeze Original Estimate	0561bb5a-f9bf-4d36-8f0c-f094a94001f1
Field	Requirement Defects Slipped	c6f2f880-d07e-4fc0-81c5-01f1c0a943a4
Field	Coding Defects Slipped	81dc0994-6d97-45c1-a3bf-15fb8357e0ee
Field	Design Defects Slipped	a9c17dac-82de-449b-be2a-cdc60892c47f
Field	Open Test Session Count	7601c212-4c23-4ac5-9fb5-ea11debfe16f
Field	Current Schedule	02467bb4-5b31-442a-a665-7f6d32e41e6a
Field	Schedule Stability Index	cff3ee97-62d9-4bf8-b158-bbb2e66df578
Field	Initial Baseline	965afd6c-e6ed-482e-93ea-f5c716456d3d
Field	Requirement Stability Index	235b243d-d403-4dd2-a71a-fd5ceea26f49
Field	Burn Rate	a9d8e46a-05fc-48a1-af92-3cf8d3d0f15e
Field	Running Cost	689e7696-c7d2-4d86-b03a-a4f670943a5c
Field	Cost Stability Index	a72ceb93-6d1e-48e4-b716-8854dabf873e
Field	Original Schedule	b46c7196-15e5-4418-85f7-cfe998786a82
Field	Development Complete Actual	8ca4545c-8633-4acc-b75d-da2dfdd0dda7
Field	Introduced During	6f2214c5-4131-44a4-a631-f0c9fdde2f3a
Field	Artifact Affected	d93f9194-3758-489e-a794-cabbaa1ac89e
Field	Day Count	d28dbb9f-0b1b-415d-819e-f8c7c169cd7d
Field	Project Survey Q4	aa2e89fe-621a-4f5c-870e-f566e44cc257
Field	Project Survey Q3	f6af7530-2aed-462d-8522-

		ccd184db409f
Field	Project Survey Q2	4abc4c90-1a8c-4faf-a9d8-da6bc0823a7c
Field	Project Survey Q1	92ef16ff-af58-4c8a-adad-36ca86eec86c
Field	Risks	0b4dc0ea-f8d0-48f9-bd97-6ed58dbcf1d7
Field	Document Churn from Initial Baseline	980e29b2-4f93-49ba-b976-37fb7e9955ef
Field	Requirement Count Change	647ed81a-736e-4562-bbd4-a5aff7bf4206
Field	Total Change Package Entry Count	93e07214-d0a3-4cfc-954e-2b0d73c702f2
Field	Work Item Phase	3052ef80-9e08-4932-a8c1-5c6ed510b5ee
Field	Test of	1147843e-80f6-4cd8-bd59-4af5fd3d68ec
Field	Tested By	6ef1445d-31cd-436a-9383-02d1aa2189b0
Field	Total Pass Percentage of Run	eba12fdc-4565-4884-9538-9a03301687ef
Field	Document Short Title	d29ffa13-3fa2-4b88-82bb-ad929781e547
Field	Belongs to Product	b31c724c-6aa0-4c45-9841-5e9e8be6e29b
Field	Closed Test Session Count	c80d5913-73c1-454e-b1c4-d45d16dd9f2a
Field	Pending Test Session Count	8b5a8161-920b-4b23-ab36-4929ff14ae72
Field	Change Requests	b3860b2b-6bf5-4e83-95d3-96f591526945
Field	Change Request For	6f80675a-a1c5-4f1c-81be-679d4e82eedf
Field	Tests As Of Date Count	0a8a5d7d-4d28-45a1-973a-530e3b05954c
Field	Suspect Results	2ae7e296-3842-49b7-b09b-0e0a5aff667e
Field	Tests As Of Date Set	0c932f3b-60e8-44b0-8dbf-918bfe78b886
Field	Test Objective Planned Count	965a7490-3601-4616-8d65-c3a1e919f5bb
Field	Average Survey Score	efda0758-927c-4659-92ff-97faa68d0777

Field	Customer Satisfaction Score	7375bc4f-a3be-4e47-99f6-fbae45668741
Field	Project Survey Results	ec951f2f-b6a8-48a2-a20f-5cfe38412b8b
Field	Product Survey Results	8d400014-4f83-4ab1-beee-1d3a32fdea0b
Field	Product Survey Q4	d66c1f47-6ca0-4b4f-b422-f0d7ed9f691d
Field	Product Survey Q5	acb4f21f-314b-41a2-88fa-ee9d874eb8f5
Field	Product Survey Q2	735ee798-8503-4e07-9572-e8897bae9a73
Field	Product Survey Q3	1b92c520-0c69-47b0-9b24-b1651e56ba1d
Field	Project Survey Q5	b0118422-deb7-48a4-bf6e-dda59f268b7e
Field	Product Survey Q1	8945e80c-bc3e-4205-ae34-8bc81b00b8ee
Field	Proposed Work Items	4d24e4cf-60e6-4149-b348-f43eb54a8b5e
Field	Inactive Work Items	8b24fb96-f7f3-4a3b-af2c-2b27db496b52
Field	Active Work Items	f5d29cb7-723e-42ac-b404-79ad2019dac3
Field	Global Partially Satisfied Change Request Count	8a96352c-8a74-4888-a95c-3026689ccb3f
Field	Requirement Count	87f614de-abea-4ac4-b347-5edb4e9045df
Field	Retired States	70052d39-914d-41fc-b1ab-dab8d79c366a
Field	Validated By Trace Health	954718a4-d619-4210-9913-15c2b279cd3b
Field	Validated By Trace Count	89f16cbc-e076-41c7-91ef-5d4a52b38021
Field	Included Document Count in Project	666dc143-4697-438f-a1a6-e15c6ff341a6
Field	Test Suite Count	727acf7b-9c92-4639-945a-cac7e8fc9dae
Field	Test Case Count	3b984f87-63e2-46d4-9ebc-e6c00103d06b
Field	Specification Count	ced4097c-ac22-4e91-801d-e637f94027fe
Field	Untraced Content Percentage	87cb7f6b-4d56-4eac-a847-

		06706ac1af09
Field	Suspect Content Percentage In Project	cd245134-274a-4f96-8371-e5c0da12b347
Field	Requirement Count from Initial Baseline	a3013212-12e8-4294-bdce-99b829a8a2d8
Field	Inserted Document Count in Project	4f682205-55a9-4c7e-a3df-a96d0a3acfa8
Field	Blocked By	ca9a67dc-6904-4973-85ad-9d3ffd069aa2
Field	Blocking	ef2f643a-bc62-4ccb-948e-fa3f2721a32f
Field	Test Session Tests Count	e5fd4744-219c-4e9d-803f-4cb87fc3e20f
Field	Blocks	35776663-82f5-473a-adf4-dfe912c67408
Field	Total Blocked Count	bbea7117-da2c-4919-aa36-bc431846b4b9
Field	Test Objective Suspect Results Count	d14a89b5-5800-41e0-b87d-75085011366b
Field	Blocked	c272836b-9d1d-4149-8452-3568a01af984
Field	Test Objective Blocked Count	15d197ac-8f8f-46fc-90bc-39d436fa953b
Field	Modified Count Since Initial Baseline	5ae87fee-bef1-4e40-afb3-3d7a7d23b868
Field	Include Subsegment in Metrics	b952e8e0-1fc3-44ea-b890-0b2dad08474a
Field	Total Suspect Results Count	73e5a0ef-1779-4c2f-9856-1e561e7c70a3
Field	Planned Count	5a0a384e-311e-4f9e-baec-086c09ec62f3
Field	Test Case Content Count - Published	375b94a8-f710-43c3-88e6-ff2591a3565d
Field	Global Unallocated Change Request Count	d4c8b424-e087-425b-9c8d-b468ee719d90
Field	Test Case Content Count - Open	a97f14c6-204d-4880-9806-12fa02b81ca1
Field	Test Case Content Count - In Review	4756989c-a8b3-4e8b-85f3-4287886408bd
Field	Test Step Test Cases Count	ed526dea-0c54-4795-b39c-a0d88eaa09e3
Field	Exploratory Test Log	a2ca982c-9bb6-4cab-9173-1808d6923d83

Field	Run Percentage	3bd650e3-c87e-408b-bb43-35a1e3dbdee9
Field	Test Case Editable	8f042fce-6175-4101-a999-740ec683a072
Field	Yesterday Document Churn	63b95691-46ce-47aa-9e51-f66b2773edaf
Field	Classification	6cde0b31-52bc-426d-a837-c4e08768300a
Field	Trace Status	59174573-4c5b-4fd0-aeff-6e7b1e75e9d2
Field	Last Week Document Churn	1de850de-abe4-4a2c-a33f-7f5925a3e2ee
Field	Shared Expected Results	bd99eda8-d40a-4b2f-8e91-c7a9b18783ed
Field	Description	cf42d6bd-43b8-4c89-a31d-f27422118faa
Field	Upstream Trace Count	408cae4e-83e9-457b-ae74-0f41f18bba93
Field	Downstream Trace Count	a28a13d3-5474-4ac1-87bd-b2845f6c136d
Field	Authorized Change Count	cddfa336-4cca-4113-97b4-8db66474472d
Field	Post Branch Edit	e2f2bf83-11c6-436e-901a-c336085d7b5f
Field	Pending Work Item Count	3a3cbbf5-b9b9-4aae-8df3-f138d159d141
Field	Total Work Item Count	893ecf9f-5044-4dc8-8088-ae1fd512713c
Field	Unsatisfied Requirements Percentage	73f430f0-7897-4dc6-b623-9f6d142298fb
Field	Unverified Requirements Percentage	3bb335b4-ec89-4aa3-8492-be02a7ba95bd
Field	Untraced Inputs Percentage	0196f813-9883-4b7c-a44b-39196b8844d1
Field	All Content Count	5c2d0284-10dd-450a-87f8-47e99fa31983
Field	Content Back Trace Count	aafbd358-f5d3-45c4-85dc-cb805d80de5b
Field	Content Without Back Traces Count	7b3977e4-2779-401d-a735-3095feeb4393
Field	Meaningful Content Count	52eac84d-a7ac-49bd-b4ed-346802791d96
Field	Suspect Content Count	e8b4769a-87cf-4569-8eb2-

		67ce9d48e91e
Field	Suspect Relationship Count	a391df7b-1e92-4484-bd57-1184cc622e18
Field	Included Document Count	1e6bc8ac-d53c-4903-a5c4-ddf55f89e306
Field	Inserted Document Count	46ec7385-6422-420c-b33e-9c4c801ea263
Field	Open Change Order Count	a02da42f-a892-4d11-a248-eeaf83d82977
Field	Closed Change Order Count	6b766bcd-79af-40aa-a90b-267cb487babb
Field	Outstanding Change Request Count	bbf72ec0-b77e-4690-bd85-3ee0e3d861f9
Field	Content Without Back Traces Percentage	5a03cb77-9327-4b86-8427-44c22d034de5
Field	Suspect Content Percentage	25ee2acd-542e-4a03-bce1-4c13c8026987
Field	Text	1487784e-f632-4ae6-a2aa-ae693c76fae1
Field	isParent	4bae7f25-30d6-459c-a1f0-3bb076eafb8f
Field	Additional Comments	9d00cd5b-ddaa-4eb9-af14-566ff87dc9e5
Field	Project Requires Change Orders	db234d48-8fb2-42d3-8822-b9a0f299e3ca
Field	Product Parameters	977ab613-f150-4617-9a1c-e4dfe8c9623c
Field	Parameters From Shared Item	4d91c379-368e-4121-938a-2f8ee672dfe5
Field	Parameter Values From Shared Item	f02c88c8-aa37-4806-9ef9-e116ea71d134
Field	Project Allow Scope Expansion	4eea5ca6-86fc-474e-87f1-997f56efc3f5
Field	Project State	f1d4d4d8-6e8f-44ba-9f26-e575eda8e86f
Field	Text Attachments	09f03c43-7649-489c-9c54-9d267bd33855
Field	Last Verdict Type	6ad5d1d7-f215-4ca0-8e88-84c64f47beec
Field	Total Content Pass Count	e2ab159a-a8ea-4d04-9a3e-f3c7578c8af0
Field	Total Test Session Count	10da16ef-90d3-458d-83b1-52d57a3fb5c9

Field	Open And Pending Defect Count	5253584e-d2df-48ad-9cfa-4188a6fd212c
Field	Validated By Pass Count	31011259-f9a5-4530-a45e-05b4f44226d2
Field	Validated By Pass Percentage	7e15a632-69d0-4fe2-b6bb-232d30ab28b6
Field	Open Work Item Count	eb6515fd-148b-47f4-b045-89398b99234d
Field	Closed Work Item Count	e8a9effd-cf03-4936-8286-67f587e0f2c7
Field	Content Run Count	3d62a01b-5d3d-41d2-8617-53fe4f8eacc9
Field	Record Results As Shared	50168f56-98f7-4708-851c-c863a2bfb155
Field	Content Pass Count	38690325-4f0f-4795-9e70-8e8660d330db
Field	Content Other Count	5144522a-0686-4302-9056-215a603566bf
Field	Total Content Run Count	dc49fa79-2d93-4beb-be6b-6c94a49147e6
Field	Content Fail Count	bd9ba997-d169-4c38-9b8f-f84096f88d41
Field	Total Content Fail Count	f4bd6bcb-ddfc-4a46-88b8-8fc6194e7c93
Field	Total Content Other Count	195a7f88-2185-4b79-8892-84cca0541716
Field	Product Manager	905f793b-3543-4881-8d5b-f0d8b696238c
Field	Project Classification	41ba6bad-0a4c-4e6c-8767-311eee7fb391
Field	Expected Results	dec5972e-01f1-476a-8048-f09fa4f57976
Field	External ID	12fcba17-4ff7-493c-beb9-9d80cdb978d4
Field	External Script Name	dbe1972b-df41-4d40-b7ac-e571040cf6aa
Field	Automated Behavior On Error	43335673-a6f7-435f-863c-3d0e2b1b7ec5
Field	Project Phase FVA	ec8e91d5-68d8-4224-b2a8-79ef4c12f1b3
Type	MKS Solution	ab89b3b6-99a9-4884-8371-dbc0579744d2
Type	Change Request	93ae1776-c6d4-4607-aeed-

		6560ff728036
Type	Project	cac28357-4688-48de-8c6c-27e56f0965d1
Type	Input Document	6efc9c2b-17d3-4633-8ba4-57162d17265b
Type	Input	f6f512dd-600b-4026-b8ea-894c07d1f63b
Type	Shared Input	49519bed-df72-4b2d-bf09-39858d37076e
Type	Requirement Document	8a365377-481f-4d16-a428-1e36abe4f196
Type	Requirement	382f2c46-fa66-4ac6-8ce8-e83a775b709a
Type	Shared Requirement	750be8dc-4a88-4fe8-9ce5-5c335da6a320
Type	Specification	9f7837f2-a619-420d-8e09-2754f77df2e7
Type	Specification Document	4ca7c671-6bfd-4eee-8abc-03c143b8d9d5
Type	Test Suite	759259c1-bc30-4c5f-9625-c711977ddd6c
Type	Shared Specification	83ce7acc-63b2-492a-8308-835df0cbb83a
Type	Shared Test Case	7c5ffb17-b388-4f5e-8028-7e061e50fd85
Type	Test Case	f6be64dc-9bea-48c7-830e-e09c519da476
Type	Test Step	86359654-9485-4417-b739-5fb9f0d6d40d
Type	Test Session	127e3750-7c84-4896-81c8-ca37bbb3a679
Type	Test Plan	102bf4ef-7bdb-4dbc-9ce5-29164e1a08da
Type	Test Objective	a9b142a2-797b-4ac4-9023-23e82c809c51
Type	Test Group	09561260-c158-4a02-962f-e1c70ca78845
Type	Defect	0765c249-d389-4830-b771-fe98807589fb
Type	Work Item	863594d1-dbc7-4cca-b097-e214ca017cd0
Type	Product	74e48380-ebab-4557-9b14-c2a011506b00

Type	Change Order	0ee85831-04e0-4d17-b90b-cc8c09f3364c
Type	Portfolio	cd9e8dd6-b62d-499d-ba46-d4480e0107dc
Type	Library	79bb3860-23b0-4ce6-90f5-bec423bf1f9f
Type	SI Change Package	0d0cbdc5-fe03-4e4d-a3d5-e1d510ddb0e9
Type	Survey	4ca747ca-848f-418b-aa70-bfe4b3a45be8
Type	Risk	29c43a19-79b5-42f1-95dc-8a44b6a577a0
Query	Active Change Orders	504dcc8-c262-452a-a8e2-195d1e2bdc8c
Query	Allocated Change Requests in Active Projects	75d1af47-af21-49c0-9a1c-1fa178f88a87
Query	Active Input Change Orders	3f809d90-a5c9-41c7-8cb5-b6219ead3481
Query	Active Requirement Change Orders	510de1e4-1ffc-4700-9a78-948f080fb3e8
Query	Active Test Change Orders	77e0567f-7615-44e6-acfa-10bb2fc75d6b
Query	Active Specification Change Orders	640a4e70-514c-4de2-9077-9578cc1dd51b
Query	My Active Tasks	b042ed31-35e8-4349-a8d8-260c8105be5c
Query	My Active Change Orders	53191409-6884-4c5a-afd2-41373f1dd474
Query	Active Projects	5fbb6a63-196f-404a-8bf5-55117fe03de5
Query	Review Pending Documents	c84e5daa-c216-48fb-9422-46e38d512dc0
Query	Change Requests	3ab335b8-5432-498c-bb2e-677424fe16e4
Query	All Change Orders	d152315b-b74c-40a6-b217-039ab0721b83
Query	Author References In Active Projects	c3224d0f-419c-4884-bf79-1a0f05559dee
Query	All Content	48cb4530-f645-4818-a02e-f85820bb1243
Query	Change Requests In Active Projects	703e621b-a2f9-441a-aef3-f2b697ec3ea7
Query	Change Orders In Active Projects	85adfc79-f24d-461e-b99b-

		706738c651cd
Query	Closed Change Orders	51bcd488-c884-4c9f-9e41-eec2e8dfae4c
Query	Closed Change Requests	8960b81b-442a-47a8-9fca-47720c405c78
Query	Content In Active Projects	883b6f03-1dd1-4e8b-b50d-57353af13793
Query	Completed Projects	af5521f9-fd36-4067-acf9-55fddd6513d1
Query	Documents In Active Projects	a489e590-c996-46ab-9dff-7b9fbd0783b4
Query	Inactive Projects	7ff36419-d9a5-4016-98b6-9b8304a625a2
Query	Documents Added Recently	fd6b9ea2-cc80-4672-9c99-1cd0c2cdb412
Query	Documents Changed Recently	267825cd-b97a-402f-bbca-858d19ff8a30
Query	Reuse References In Active Projects	02808c9c-e289-4023-a158-61d902344dbb
Query	Share References In Active Projects	ef3d09b9-6d4f-41ec-a89a-f0691b93932c
Query	Orphaned Node Count	5d1b9d41-a309-492d-a0ea-141977e5f562
Query	Orphaned Shared Item Count	ed39517c-22f2-4ec8-bd86-0068219da32e
Query	Editable Requirement Documents	d83780ce-1584-48d9-82ed-353630d4f310
Query	Editable Specification Documents	cf1e6ab4-b069-4657-a8b5-1a3680c5b290
Query	All Documents	1b945e60-ae6e-4020-aa63-4d7430683931
Query	Editable Input Documents	a07d4403-e511-4437-b613-b797e8ef5737
Query	All Projects	02f46931-87d6-444d-81f5-115433fce649
Query	All Requirements Documents	bb68bdda-05e2-4441-a73f-278052619683
Query	Editable Test Documents	42cafe16-97c6-4e2e-b22a-d37af818049a
Query	All Input Documents	c984c3f6-6970-401b-9c81-35d6aadd4da7
Query	Finder Projects	2d0a4b68-cdc9-4c25-b341-3df1b9a1a7e7

Query	Documents ready for transition to In Review	3d953ecd-b42d-4cfc-b0a2-b89b12fe6603
Query	All Test Documents	7a6fa19d-7ab7-486a-8ebf-6c9b09e09875
Query	All Specification Documents	b9e38951-7a4f-4e81-812e-5b820d754195
Query	Top Level Documents	8ded1076-c93f-46c3-94cb-83f8cb9c1ef3
Query	All Subdocuments	e3ca8d37-7c9e-43ea-b954-62fccf1de3ac
Query	MKS Solution Item	1b198bc2-f4a9-4512-b218-8b8086f187ce
Query	Item Based Report Selection	10cd188f-c2c4-4b0c-a95d-be3ae275f469
Query	Pending Requirement Change Orders	831277a2-fc11-4d6b-a41e-115b7caa087f
Query	Pending Input Change Orders	c13639a2-cccb-44aa-9b91-05eeb0028c6c
Query	Pending Change Orders	664fb6a3-a8cb-495d-8327-1bc5dd9e0945
Query	Unallocated Change Requests	0df55c80-a1ad-4dc6-b0e3-0de24f26be4a
Query	Closed Defects	f7541c70-800a-416a-b36f-0dce29373f6c
Query	Open Defects	d18380e9-2b8e-48b5-b2a6-f62d94cbe7bd
Query	Pending Test Change Orders	acf14dce-7a6c-4d43-b696-ad5dea27a366
Query	Pending Specification Change Orders	c4916f25-f65c-4869-9e5f-45220256f1a7
Query	All Test Steps	1ad5fb4d-b26f-4b71-af13-34d170029069
Query	All Library Test Steps	b7d07913-13b0-486b-bba5-6e1e1c861777
Query	Test Cases in Active Projects	df8dc860-59ca-4a1d-b270-38f26efa2230
Query	All Test Change Orders	ebab3090-4f53-47a1-a084-bdcbfc903051
Query	All Defects	45d04041-ea82-4702-a2ef-577dd0ee21ab
Query	All Test Sessions	d8951ca4-89b8-4739-9b12-2df9600ad424
Query	Automated Test Sessions	67226646-8799-487e-bbae-

		3d4316547a0e
Query	Manual Test Sessions	8d884b3b-3af4-4a54-9b28-5e6ed52c4a60
Query	All Test Objectives	0711ad51-5d25-4e1d-b13a-d3bc04a59e3b
Query	Active Test Sessions	8e7ff8de-a975-451e-b390-1991df148881
Query	Proposed Projects	5d15e289-1b99-413a-8255-7a23211e7e65
Query	At Risk Projects	e705e62e-17b2-41f5-8df8-338fa4b58729
Query	Completed Test Sessions	aac65355-c86d-4c9a-b1b1-608f03213df3
Query	My Active Test Objectives	e259aeed-b2af-427c-a76d-f3a48f5288a5
Query	Field: Test Plans and Test Objectives	d01da0ae-9473-4918-9a1b-4f33745d1225
Query	My Active Test Sessions	9c2484ca-c35f-41a1-94fa-823e2019851f
Query	Slipped Coding Defects	d8b928ba-f86e-4c69-bed0-cb6eb1a55613
Query	Slipped Design Defects	a8e94836-b190-42f2-8fb1-63d2726b0a17
Query	Closed Test Sessions	cf99a89d-e0db-466f-927f-b682d4427500
Query	Pending Test Sessions	95c5c33c-7e21-4015-a68e-7196f75179a5
Query	All Portfolios	09e7d8bd-ae76-4bed-88c2-8c938a2fe9bd
Query	All Products	ffa84906-68ec-4ddf-8fa2-d48f5b238948
Query	Slipped Requirement Defects	39d840a6-3514-4c52-a6da-42c19d26e203
Query	Test Plans	91545b10-1858-4e0e-97fa-3995ec4b2107
Query	Open Surveys	acd9c8d9-07d5-48a8-8aef-7673a0c66692
Query	All Surveys	b581469c-089b-464e-b2e7-5247990b194e
Query	Test Cases with Suspect Results	235d0286-4447-4de6-bbf1-64abd4ffe982
Query	Active Test Objectives	2ade83d7-e62a-40a7-af4e-48b18018f769

Query	Proposed and Active Work Items	622f3808-6e08-4b8e-8db3-045475702d5f
Query	Finder Projects and Test Objectives	8cc5b53a-0008-4ee4-8151-201965f812c7
Query	All Risks	db067f22-b274-44fc-a945-090d24d1d788
Query	All Documents Having Churn Yesterday	5f5a0a45-5b0e-4b97-9c3f-1aa6a1815b6c
Query	New Defects	d7911b5b-281a-40bc-b811-e67cf72821b8
Query	Requirements	4e697ada-d7b9-4931-8045-a79c3abd613e
Query	Active Work Items	3830fbfa-93a4-443f-aaae-e780781a4e4c
Query	Inactive Work Items	2f70eccc-945a-490f-9781-635d262a221c
Query	All Work Items	ccb0ca64-0c1d-4819-a24b-113870395e7b
Query	Proposed Work Items	5601bca3-2ed8-4eb6-99f2-bb795db426e1
Query	Editable Documents	38241c61-13a2-4605-9dc3-8cee0cb05022
Query	Partially Satisfied Change Requests	dd6649e8-a41e-40d9-beb4-8a689bdd2bb9
Query	Projects that belong to a Portfolio	111eb291-915b-4ece-900a-e3174190b7eb
Query	Open Surveys (Products)	660fed86-63ce-440b-8881-a5de9d061d08
Query	All Libraries	66f582da-e0d8-4b4c-a20a-c32145a362d8
Query	All Work Items and Test Objectives	b1649f40-d625-433b-97e0-0497551960a3
Query	Requirements Validation Trace Exceptions	8c880b1c-e9ef-4b2e-8247-4f4301beddb
Query	Specification Validation Trace Exceptions	058ccec4-f2eb-42a5-87de-ef1cb3e310ce
Query	Test Cases	9e1ee64e-55ca-4f52-834e-143f50ce85bd
Query	Specifications	7c3b7a6e-9ecd-46a3-bab2-3fe4cfbd731b
Query	Finder Project Documents	e79ee27c-798f-460d-a583-589e08d63022
Query	Test Cases with Blocking Defects	a086a5b4-8a2f-4021-94a2-

		05951a587aec
Query	Pending Defects	c480ea93-8cc8-44c6-afe0-421b46d115f4
Query	Finder Project Projects	7c9fe6a9-4cda-4dc9-887a-df36e3c8e30a
Query	Finder Template Documents	2266235b-7892-4268-b321-89a8e79e359e
Query	Finder Libraries	d423d3e8-bd09-4143-899f-5d630ab1df1f
Query	My Current Work Items	2ce724e0-fd85-4611-969f-219a398b2691
Query	Open Surveys (Projects)	6a87f1b1-e71c-4750-8aa4-a8c7e9ee9caa
Query	Active Templates	838b234a-9bfe-481b-a304-d16deca79d5d
Query	Active Libraries	566f5e9f-f450-4530-a670-9408a57e69f8
Query	All Templates	5dde8189-7d2d-420c-b769-000e47683d30
Query	Items in Active Projects	4e859684-538f-4a92-9097-1655152f04b5
Query	Open Development Tasks	5c8aba05-8106-4450-bf8e-38d2b1bb2768
Query	All Development Tasks	b7de2932-4b06-4c9e-9d67-db77f2af70eb
Query	All Finder Project Documents	0ac6b840-c7da-440c-b93f-56f771b3c72d
Query	Finder Library Documents	0b3d57c4-608e-4800-a198-6038677b61e5
Query	Finder Template Projects	52c34a46-c51b-4c68-b21f-c3adff47d8a4
Query	Active Projects Libraries and Templates	9cbbb820-b437-4177-afe4-5c876f17c1b7
Query	All Projects and Libraries	069098b0-01b7-411a-b01b-a01b4f6f5776
Query	Created in last 20 days	9933d6ed-9d14-45cf-89fa-d90fbf8fcff1
Query	Requirements and Specifications	bb7e8baf-ea6f-4ad6-abf7-5a66546c8dbb
Dashboard	Senior Project Team Dashboard	8813f10f-a70b-42e1-b994-0cbe8493bb80
Dashboard	Defect Management Dashboard	ba2a7c67-6ebb-4038-82b5-6b2452cbe4de

Dashboard	Project Defects Comparison Dashboard	b6943dc1-9316-4d3a-95d3-67aa63274849
Dashboard	Dashboard Template: Alternate 1x	58bc5a55-3078-4d71-8d4e-04cdceb17eae
Dashboard	Dashboard Template: Outlook 1	dd408b6f-b4b5-4715-816a-4dfb82a3c083
Dashboard	Dashboard Template: Office 1	1f74ad43-575e-41f8-8211-7711242beb8b
Dashboard	QA Manager Dashboard	63f2f703-1c47-4dd3-a0a7-2c41bc060c7c
Dashboard	Dashboard Template: MKS 1	a95991e7-bab0-48f8-8bbd-b6fa28ed92cf
Dashboard	Project Manager Dashboard	d46534a8-1a25-42a3-9c87-580886e7e702
Dashboard	Dashboard Template: Tempus Timepieces 1	a221b9c9-04ba-44d9-a84b-56dcb923ba5d
Dashboard	Administrator Dashboard	61452e0c-7621-422d-bb80-49b6f75e897a
Dashboard	Product Manager Dashboard	96701674-a586-428b-91d0-25d8631aa17e
Dashboard	Executive Dashboard	2a98be00-e5e8-4831-b693-8a64f9f1f354
Report	New Defects - RSS	03dda635-a0af-44bd-8d19-2126a4e30cc7
Report	Active Change Orders	8ae00fd1-6291-4d7a-b770-9f1e0d40ee33
Report	Active Project Detail by Product	a85fae87-ddcf-45ed-9840-dfcc8ca7ef4b
Report	Allocated Change Requests in Active Projects	8956db6e-53dc-44ca-affe-1883322981ee
Report	Content Detail	0ed0a1cb-966b-4393-a79b-c93a1f724c37
Report	Change Order Detail	f65bcd6b-51c6-477c-925f-5b8bf44cd21f
Report	Project Metrics	6aba45bb-a129-48df-a634-16b9048e1199
Report	Content History	91a576c4-4d3f-46d1-ad91-d0c9f6bdb23c
Report	Projects	0f9957e2-c4b3-4f62-ab69-a10310814e7b
Report	Project Overview	c4e6a169-1c8a-4333-b196-4121dba58d6b
Report	Unallocated Change Requests	607dd26b-4758-468d-af3c-

		42842e7dbfe8
Report	Top Level Documents	322d1e2e-0d7b-499f-84ef-826719e79000
Report	Document Status	92f2d675-4cfd-41fb-9529-961fefa50153
Report	Pending Change Orders	bd474222-3861-49ff-9e75-23079311e3d9
Report	Test Session Result Status	90881b5a-e5a5-44dd-81b9-ee807d7e9404
Report	System Document Metrics	814c779a-6eb7-49ea-957a-9fe77296cf7c
Report	Document History	c9f6103b-e7ff-4611-92dc-335e709b1c01
Report	Document Content	5438e6f5-493e-481e-9f92-3572c598ca80
Report	Document Traces	43e1b002-fb63-4d56-959e-bf619a4e1493
Report	Document Matrix	0b841840-9d03-410c-85ec-1acc6d47a821
Report	Document Content with Unresolved Parameter Highlights	c8fc5ea0-73bd-49bc-afe2-b88119ac7a5b
Report	Status - Projects by State	68f44101-90e1-4239-8e3a-3234700e4b46
Report	Document Where Used	3606e8d0-c4bb-471d-95ae-23537bfcc28
Report	Document Metrics	cbba925-0f3d-482f-bb28-afa05dda9b7e
Report	Customer Satisfaction Summary - Products	1f01dafc-a83a-4ff1-8149-0ba12f1d5655
Report	Customer Satisfaction Summary - Projects	fa00156a-9191-4158-acd9-20f402311273
Report	Customer Satisfaction Comments - Products	58f16b5e-6b1d-4651-b8c7-bf05525b9fc7
Report	Customer Satisfaction Comments - Projects	46dab35f-0eeb-4de2-9f25-e882dcb853c0
Report	Project Detail	06ecee3e-27c2-45d0-8cb9-7a36d3b8e1f1
Report	Work Item Detail	c1782ebb-85ab-48f6-902a-6295f0f66d7b
Report	Project Timeline Summary	2e425088-36c9-4ad7-b05d-037e4bd89b2b
Report	Portfolio Project Timelines	a05ad1f3-8c0d-4170-a818-22a62bd4e204

Report	Status - Activities by State	b44ab798-c98b-408c-bfa6-e802d2a64d89
Report	Status - Activity Effort	5423e1dd-9f59-4cf9-846d-9cedecf426d6
Report	Portfolio Detail	449a7637-891f-4333-b900-6bea607ceb21
Report	Product Detail	08de3aa2-6b65-48d6-bce8-1d79c237ebf1
Report	Top Level Documents in Project	5c9d000b-5bb7-4e88-839e-80d76c5db373
Report	Status - Suspect Items	025f7cce-08a9-4195-9057-117316aff7c6
Report	Status - Suspect Impact	1c4fed71-7af9-4b3c-9e1a-64ebd2dcfb10
Report	Offline Test Session	9b8ec59d-19ea-4bbf-9db4-56482a5a786b
Report	Requirements Test Coverage	fb5181a1-885e-468e-9b94-4b848d33b2c8
Report	Test Step Where Used	b51aed30-c955-43d4-8fc7-26ad62a2638a
Report	Test Objective Detail	57063b13-8028-47da-9dde-6b51620808e0
Report	Test Session Detail	c20be738-8703-4bfa-915e-3ef2a9f0b27e
Report	Project Documents grouped by Phase	0e5efb7d-386b-4ee6-91b8-78fac5b20f58
Report	Impact Analysis	1130406e-df4f-4f5e-af9a-10bc313f3442
Report	Offline Test Session - XForms	f073cbd6-1425-413c-9d5a-5664da1fc4b4
Report	Specification Test Coverage	d4a8cbbb-6d34-4763-b193-8febb9ae2b59
Report	Inline Project Status	3cee79c9-ac10-462b-b1a6-2ae30cfdaa1b
Report	Defect Detail	dcc67ba1-e47f-457c-b2d7-cc22ced3ba74
Report	Active Defects	f4b2642b-083a-4f74-9fd3-cdb6e94c2dca
Report	Pending Defects	7bd3fb45-514a-432d-8709-a20b84d77aec
Report	Project Gantt Chart	1585a2fa-88ac-4f1b-a224-15a60b934c6c
Report	Template Documents	92031792-a3e5-45ea-8978-

		cad4ee19728d
Report	Test Session Detail with Test Steps	0d3c9122-ab62-4559-a38d-a47a9f517846
Report	System Document Metrics Dashboard Report	660600e0-2b91-48fd-ae6-c3e3e3326968
Report	Inline Project Overview	b85426c8-c6dd-4662-a4a0-149ac00b1d9a
Chart	Change Request Trends	736d87d1-2ccb-4597-b7f6-6efa0f533119
Chart	Change Order Trends	2fd8bf87-8578-4ffa-83a4-893ad66667ee
Chart	Suspect Content Trend	1aa6a5dd-f4ec-454f-b97d-46711b968478
Chart	Untraced Inputs Trend	82ee79ae-d1fd-4477-b357-27799b8a8dc5
Chart	Content Trace Trend	f730a868-ce81-4d07-894e-88efc201a526
Chart	Unverified Requirements Trend	60827622-d1a9-49a3-b774-a9af6feec49b
Chart	Unsatisfied Requirements Trend	c4ed94cd-e310-436d-87eb-3d992eb3e943
Chart	Change Requests In Active Projects Trend	2748acda-d2bb-49a7-a99a-7afa93923496
Chart	All Project Trends	4391d1ae-66a0-403c-9708-eff83da4b4e2
Chart	Documents In Active Projects Trend	6d18ecd8-f445-468d-bd88-a79a2cf3267f
Chart	Change Orders In Active Projects Trend	07a10137-4d1a-45eb-bc4c-16c82334ee00
Chart	Content In Active Projects	f8eba2dc-8470-420e-b27e-a8a2e5436a0d
Chart	All Documents Trend	45d866f3-2bff-4f5c-8cc9-6af9a2ed982d
Chart	References Trends	64a603f3-5032-4e1b-9511-42fb232380e8
Chart	All Content	069c4c2d-10c2-4a03-a0f9-8432113fbeeaa
Chart	Suspect Content per Document Trend for all Specification Documents	584a12f8-4f58-45d3-bc9b-1d1c4510de48
Chart	Suspect Content per Document Trend for all Input Documents	192a171a-101a-4d5c-aea0-5381b176f785
Chart	Suspect Content per Document Trend for all Test Documents	c09e9873-0e7a-4e3f-86a1-2ad1da561836

Chart	Suspect Content per Document Trend for all Requirement Documents	c8921b3e-3b20-4658-b9cb-2aaf2296d39a
Chart	Daily Churn for Each Requirement Document	4df976b4-7f86-4865-83f1-93292eb71153
Chart	Daily Churn for Each Test Document	20e10e14-30c2-403f-82af-cc84b899c390
Chart	Daily Churn for Each Input Document	e3762f0a-0942-480b-b241-5718f0d61ad8
Chart	Daily Churn for Each Specification Document	dda8e9ac-3961-4e7f-b8f7-f1c6721a3b07
Chart	Weekly Churn for Each Requirement Document	ee9dcfef-a8bd-4e99-bf3b-762355fb5375
Chart	Weekly Churn for Each Test Document	19d6e27a-79e1-40ca-bda1-ce03f08dedf6
Chart	Weekly Churn for Each Input Document	bb731bd4-7755-4a1b-9934-0322b090891f
Chart	Weekly Churn for Each Specification Document	82814e23-ccb2-4ca7-91e4-e464d919def4
Chart	Breakdown of Change Orders by Document	cbd61dec-1fec-4b13-a5e1-475fcabc1409
Chart	Defect Containment	2a74b0d8-deca-4f22-acbe-fca4cf4bce21
Chart	Total Churn by Project	895d9257-58d1-4837-aa32-2a439e1a1ea4
Chart	Outstanding Change Request Count	30ac830f-0ae9-4211-a4a0-e7e8022829cd
Chart	Project Open Defects Comparison	df838136-fc0d-4827-b027-27c16662c268
Chart	Project Total Defects Comparison	cd623223-1aff-416c-ac33-d95a58d677f3
Chart	Open Defects by Priority	c38318d7-2fb1-4ea8-9673-0e77d8f011a8
Chart	Defects by Priority & Assigned User	d534e334-2272-498a-9909-4494cbf621f4
Chart	Test Case Development Status	a6bb9449-7ebb-49c0-b00a-2614f587b607
Chart	Test Result Status	081e09f9-9aac-48d8-88bf-d7988f3d2b89
Chart	Open vs Closed Defects	078495ad-ff33-4834-9d20-ff8ddde79b54
Chart	Project Closed Defects Comparison	9f374691-2ba3-4263-a229-048c7d3ebd02
Chart	Tasks by State	255894e6-9cd1-4a8f-b335-

		9433c9ee3076
Chart	Task type by Priority	070f3c2a-d2a9-4926-bc82-5cfd404c8aa9
Chart	Tasks by Priority	d17cd028-eea5-4b5a-b227-ba487ca5a8ad
Chart	Test Objectives by Assigned User	1d400c4e-35ee-4817-bcb8-e5813ac24360
Chart	Test Sessions by assigned user and state	2e78c183-74e7-4eb7-bfdf-e89312339dca
Chart	Pending vs active tasks by assigned user and state	91d4677a-3099-4154-9a53-2d55bad93fe5
Chart	Task Assignment Breakdown	240fcf59-7554-490f-89a8-387313319840
Chart	Defect Trend Analysis	5e82e565-51fd-487b-b31b-b15afbe9a826
Chart	Active Projects per Product Cost Summary	31fb4d32-a036-4142-8ddb-97706104716a
Chart	Active Projects per Product Effort Summary	1c040c49-9e7d-4428-bc05-f1dc8e9ef340
Chart	Solution Usage Trend	e6461a34-d9a0-4451-bfac-d53051e7ce3d
Chart	Active Projects per Product Summary	50794e9c-3f20-428e-ba10-c7d734764ac1
Chart	Test Coverage	90655236-60e3-443c-9d89-2189d654f35a
Chart	Project Details	12894261-4409-4a7d-a680-833614b2147a
Trigger	MKS.ALM: Segment State	e59bd71e-7632-43fb-9f64-01ed5ce6217b
Trigger	MKS.ALM: Change Order	a719b6b9-8006-4d11-bde2-67c2748066c4
Trigger	MKS.ALM: Change Requests	20ce14f3-dbd6-48ac-9b1e-0c096e647d75
Trigger	MKS.ALM: Notify When Document Reaches In Review	db7184cf-9f17-4a6f-9c52-c562e11cc836
Trigger	MKS.ALM: Notify When Change Order is Completed	194e6958-c950-414a-bed2-f1ab017342ea
Trigger	MKS.ALM: Transition Documents to In Review	e5f584e3-457f-4077-9c56-d58c799dd654
Trigger	MKS.ALM: Relate Root Document to Project	bc4d9dfd-8c91-440b-9511-1e768badef54
Trigger	MKS.ALM: Portfolio Structure	3266d548-83c2-4113-a470-1233340d966d

Trigger	MKS.ALM: Baseline	de510f3c-796b-482f-8061-23e973d48ba7
Trigger	MKS.ALM: Authorizations	61dcaec9-178f-4870-9fa4-57feac15594b
Trigger	MKS.ALM: Document Name	404f9227-bdc6-41a6-854d-a76863161d8b
Trigger	MKS.ALM: Daily Metrics	e2a20a0c-912a-482d-9040-ca3eff34b8d4
Trigger	MKS.ALM: Test Sessions	c51f04f1-524e-4538-b06c-c38e18e5f855
Trigger	MKS.ALM: Audit	d51119ef-7407-49bd-b8dd-785d4faa88a8
Trigger	MKS.ALM: Run RSS Report - New Defects	7cd5b69a-6dd6-48aa-a1ef-6cfe22b4c10f
Trigger	MKS.ALM: Notify Executive When Document Needs New Changes	78dd650f-b1f5-4991-9749-c7ac6a3b7a6d
Trigger	MKS.ALM: Change Process Item Project	69960e1a-c8cb-4765-8947-c5026f60de10
Trigger	MKS.ALM: Solution Singleton	6b6a10af-4304-4871-b234-6c6befe839bb
Trigger	MKS.ALM: Clear Needs New Changes	efb5948f-1fff-4737-a9f2-85a0fa794706
Trigger	MKS.ALM: Trace Status	581223a3-1366-4521-93ec-de2c8603c3dd

Customizing the Solution

ALM for IT

The following configurations may be added to the default ALM solution to provide value for IT shops.

Maintenance

Maintenance consumes anywhere from 60% to 80% of the IT budget. Other portfolio analysis tools concentrate on planned work and ignore this very important part of the life cycle. Though the ALM solution targets specifically engineering organizations, the follow configurations can be added to demonstrate its value to an IT shop:

Projects

Allow maintenance work items and test plans to have an empty project or allocate maintenance work to a special project.

Fields

The following fields should be exposed on the Application and Portfolio types:

- Actual Maintenance Budget - float - Sum of Total Actual Budget for all maintenance work related to an application or application portfolio.
- Actual Maintenance Effort - float - Sum of Total Actual Effort for all maintenance work related to an application or application portfolio.
- Total Budget Including Maintenance - float - Sum of Total Actual Budget for all work including maintenance.
- Total Effort Including Maintenance - float - Sum of Total Actual Effort for all work including maintenance.
- Active Maintenance Work Item Count - int - Number of active maintenance work items and test plans related to this application or portfolio.
- Total Maintenance Work Item Count - int - Total number of maintenance work items and test plans related to this application or portfolio.
- Open Maintenance Task Count (was Tasks - Maintenance (# Open)) - int
- Total Maintenance Task Count (was Tasks - Maintenance (# Total)) - int
- Total Cost to Date - previous computation `IsEmpty(QueryCorrelated("administrator:All Projects", ID, Application, sum("Actual Budget")),0.0) + "Maintenance - Actual Budget"`
- Total Effort to Date - previous computation `IsEmpty(QueryCorrelated("administrator:All Projects", ID, Application, sum("Actual Effort")),0.0) + "Maintenance - Actual Effort"`

Charts

- Budget Breakdown by Application - (was Effort Breakdown by Application (by cost)) - Percentage, against target ratio, of costs on planned versus maintenance activities.
- Effort Breakdown by Application - (was Effort Breakdown by Application (by hrs)) - Percentage, against target ratio, of effort on planned versus maintenance activities.
- Task Breakdown by Application - (was Effort Breakdown by Application (by #)) - Percentage, against target ratio, of total planned versus maintenance activities.
- Portfolio Budget Breakdown by Application - (was Portfolio - Budget Breakdown (Application)) - Planned budget verses maintenance budget per application portfolio.
- Portfolio Effort Breakdown by Application - (was Portfolio - Effort Breakdown (Application)) - Planned effort verses maintenance effort per application portfolio.
- Activity Trend Breakdown by Application
- Application properties

Types

Rename Product type to Application. Note that there are many references to "product" in the field descriptions so you may wish to do more than simply change the type name.

Fields

The following fields may be exposed on the (newly renamed) Application type:

- Key Business Processes - The business processes that the application satisfies.
- User Satisfaction
- Business Value
- IT Owner
- Server Platform - Instead of capturing this information in the requirements list an IT shop may wish to state the platform explicitly since it is likely to affect the entire development process and therefore should be prominent on the Product item.
- Database Platform - see above
- Source Code Platform - see above

The following are pick lists related to risk assessment:

- Security
- Disaster Recovery
- Vendor Viability
- Regulatory Compliance