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Tasktop Sync Release Notes - 4.6.10

Fixes

Connector-Specific Fixes

HP ALM

- 51220: Fixed an issue where unexpected field value could not be processed.

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Fixes

Connector-Specific Fixes

Microsoft Team Foundation Server

- 48228: Fixed issue that prevented the Microsoft Visual Studio Team Services connector from returning changeset links.

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Fixes

Connector-Specific Fixes

- **IBM DOORS**
 - 48520 - Accessing a module with a DXL-based attribute returning an empty string no longer throws an error.
 - 47427 - IBM DOORS connector now supports bulleted list items with angle brackets.
- **Serena Dimensions RM (SDK)**
 - 47742 - Improved support for person attributes.

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Connector-Specific Fixes

- **Atlassian JIRA**
 - 47223 - Improved authentication handling against older JIRA server versions.
- **IBM Rational Team Concert (SDK)**
 - 44129 - Fixed an issue in the IBM Rational Team Concert connector that prevented a user from refreshing a query.

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Fixes

- 46141 - Fixed an issue where the Tasktop Sync installer required reboot after uninstall

Connector-Specific Fixes

- **HP PPM (SDK)**
 - 45922 - When listing project options, the HP PPM connector now makes a paged call with a max page size of 5000 instead of one large request.
- **Microsoft Project Server (SDK)**
 - 45007 - A retry limit has been added to Microsoft Project Server connector to avoid excessive retries on failed operations.
- **Microsoft Team Foundation Server (SDK)**
 - 47324 - Fixes an issue where writing a TFS workitem will fail because the Automation Status field is not available.

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Upgrade Notes

Connector-Specific Upgrade Notes

Taucraft Targetprocess (SDK)

- 46114 - Due to a change in custom field identifiers the mapping of custom fields has to be redone.

Fixes

Connector-Specific Fixes

IBM Rational Requisite Pro (SDK)

- 46616 - Fixes a bug where a package description with a line break or a tab can cause the artifact to be continuously marked as changed.

Microsoft Team Foundation Server (SDK)

- 46404 - Fixed an issue where the Team Foundation Server Connector caused StackOverflowError.

Sparx Systems Enterprise Architect (SDK)

- 45972 - Fixed an issue where sub-requirements were not being retrieved when searching by package.

VersionOne

- 46120 - Fixed an issue where artifact retrieval fails when many attachments, worklogs or comments exist for the retrieved artifact.

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Connector-Specific Fixes

- **Atlassian JIRA**
 - 44716 - Fixed a bug that caused an error when a user added a new version to the Fix Versions field.
- **iRise (SDK)**
 - 45435 - Connector now uses cookies where possible instead of basic authorization to minimize number of authentications.

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Connector-Specific Upgrade Notes

- **Microsoft Team Foundation Server (SDK)**
 - 45252 - The connector now never interprets fields of type Double, Integer or DateTime to be single select fields (Value-with-Label), independent of whether the TFS server claims that they have an allowed-values restriction.
- **VersionOne**
 - 45314 - Fixed performance issue and removed viewers field support.

Connector-Specific Fixes

- **Atlassian JIRA**
 - 43336 - Atlassian Jira Connector no longer mistakenly interprets network errors like HTTP 504 as an AuthenticationStateExpiredException.
- **HP ALM**
 - 41837 - Fixed artifact retrieval in HP ALM when the subject folder of a defect is deleted.
- **HP PPM (SDK)**
 - 45302 - Fixes an error caused by duplicate project IDs being returned from HP PPM
- **IBM DOORS**
 - 45112 - Fixed stale Object Number attribute issue.
- **Microsoft Team Foundation Server (SDK)**
 - 45252 - Fixed rendering of Datetime, Integer and Double fields that have "allowed values".
 - 45028 - Fixed handling of new Microsoft Visual Studio Online url that was resulting in HTTP 404 errors.
- **ServiceNow Service Desk**
 - 45225 - Fixed null id error that could occurred when retrieving artifact links.
 - 44736 - Improved memory consumption when ServiceNow Service Desk retrieves reference table field options.
 - 44717 - The ServiceNow Service Desk connector handles server errors related to overloaded session queues by clearing cookies and allowing products to retry the operation with a new session.
- **Tricentis Tosca (SDK)**
 - 45443 - Fixed workspace name truncation issue.

Features

- **Server**
 - 44711 - Improved validation of person mapping in target system, falling back to default person if user not found.

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Connector-Specific Upgrade Notes

- **Taucraft Targetprocess (SDK)**
 - 44224 - Assignment fields were removed from the connector. Any mapping using those fields needs to be updated.

Sync Fixes

- 44581 - Fixed issue with repository schema refresh when tasks are missing data.

Connector-Specific Fixes

- **CA Clarity PPM (SDK)**
 - 44572 - Fixed an issue where retrieval of artifacts fails if they contain a new value in one of the dynamic-NSQL fields.
- **IBM Rational ClearQuest (SDK)**
 - 44193 - Fixed an issue where IBM ClearQuest Connector could not refresh query due to invalid user login names.
 - 44157 - Fixed an issue where IBM ClearQuest Connector could not connect to a test database.
- **IBM Rational Requirements Composer (SDK)**
 - 44283 - Fixed a bug in Rational Requirement Composer connector that caused the artifact retrieval to fail because of not finding the right artifact format.
- **ServiceNow Service Desk**
 - 43755 - Improved performance of ServiceDesk query result sorting.
 - 42446 - ServiceNow connector now supports custom options for fields inherited from parent tables.
- **Taucraft Targetprocess (SDK)**
 - 44224 - Fixes an issue where Targetprocess instances without default roles and workflows fail to retrieve schema information.

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Connector-Specific Fixes

- **Atlassian JIRA**
 - 43500 - Fixed "Project must be specified" error in the JIRA Connector.
- **IBM Rational Requirements Composer (SDK)**
 - 44026 - Fixed an issue where Doors Next Generation requirements with custom user fields could not be retrieved.
- **ServiceNow Service Desk**
 - 43806 - Added repository configuration field that allows attachments greater than 25 MB to be synchronized into ServiceNow.

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Upgrade Notes

Upgrading from the Previous Version of Sync

Connector Upgrade Notes

- None
- Rational DOORS Next Generation
 - If Versioning is enabled for a project, the DOORS Next Generation Connector will no longer be able to write links of the following types: Validates/ValidatedBy, Affects/AffectedBy, Implements/ImplementedBy and Tracks/TrackedBy
- IBM ClearQuest
 - With the introduction of ARM support this release, some fields that were previously ValueWithLabel will now be ArtifactLink fields. Affected mappings will require updating.
- HP ALM
 - The HP ALM Connector now considers Users List fields that are not Verified as text fields instead of person fields. You may need to update mappings that made use of these fields.
- Tricentis Tosca (SDK)
 - For users of the Tricentis Tosca Connector prior to 4.6, you will be prompted to run an operation upon upgrading.

Connector-Specific Upgrade Notes

- **HP ALM**
 - 41470 - HP ALM Connector now considers "Users List" fields that are not "Verified" as text fields instead of person fields.
- **IBM Rational ClearQuest (SDK)**
 - 40167 - Reference fields that were referencing stateful artifacts (ie: types we recognize as artifacts) will no longer be detected as ValueWithLabels
- **IBM Rational Requirements Composer (SDK)**
 - 40165 - Once Versioning is enabled for a project, the connector cannot not write links anymore of the following types (both internal and external ARM): "Validates/ValidatedBy, Affects/AffectedBy, Implements/ImplementedBy and Tracks/TrackedBy"
- **Tricentis Tosca (SDK)**
 - 41170 - For Sync users utilizing the Tosca connector prior to 4.6, this operation must be allowed to run at start-up following the version upgrade.
 - 40104 - For Sync users utilizing the Tosca connector prior to 4.6, the Tosca task URL migration operation must be allowed to run at start-up following the version upgrade.

System Requirements

Supported Operating Systems

Tasktop Sync is supported on the following operating systems and versions.

- Windows Server 2012
- Windows Server 2008
- Windows Server 2007
- Red Hat Enterprise Linux 5 & 6 (GTK2 and X Windows required)
- SUSE Linux Enterprise Server 11 (GTK2 and X Windows required)

Java Runtime Environment

Tasktop Sync is packaged with a JRE and there is no need to install a JRE separately. Tasktop Sync uses Oracle Java 1.8.0_72-b15.

Networking

Tasktop Sync requires an IPv6 or IPv4 network to access target ALM repositories. Access to some repositories is limited to IPv4, so please check the Tasktop Sync documentation specific to the repositories to be synchronized prior to configuring the network.

Tasktop Sync should be located on the same network (or very nearby) to the target ALM repositories in order to minimize latency between servers. Recommended network throughput is 100Mbps with a latency of less than 50ms. When synchronizing large attachments (i.e., sizes > 20MB) greater throughput may be desired.

Hardware Sizing for Deployment Scenarios

The following hardware is recommended for three sample Tasktop Sync deployment scenarios.

Disk space is primarily used for caching and storing transient data that can be used to enhance the synchronization process. The amount of disk space needed is proportional to the size of the collection of artifacts that are being synchronized.

Processor sizes below are based on the equivalent to a 2007 Opteron or 2007 Xeon processor.

Small Deployment

A deployment with one Sync Mapping managing up to 20,000 ALM artifacts and up to 200 active users.

- 4 GB system memory
- 1 GHz processor, 2 cores

- 30 GB free disk space

Small deployment system sizing is roughly equivalent to an EC2 M3 Medium Instance.

Medium Deployment

A deployment with several Sync Mappings managing up to 100,000 ALM artifacts and up to 1,000 active users.

- 6 GB system memory
- 2 GHz processor, 2 cores
- 50 GB free disk space

Medium deployment system sizing is roughly equivalent to an EC2 M3 Large Instance.

Large Deployment

A deployment with many Sync Mappings involving many ALM repositories and managing 200,000+ ALM artifacts and over 1,000 active users.

- 8 GB system memory
- (2) 3 GHz processors, 4 cores
- 100 GB free disk space

Large deployment system sizing is roughly equivalent to an EC2 M3 Large or M3 Extra Large Instance.

Fixes

Sync Fixes

- 42816 - Some network operations, including queries, will be re-executed automatically when authorization expires.
- 41968 - Tasktop Sync truncates validation messages to ensure errors do not occur for very lengthy validation messages.
- 41850 - Improved handling of periodic repository authentication errors. Added configuration of repository back-off to settings.
- 41565 - Fixed error in SyncStateManager.
- 41301 - The Web UI dashboard will now show the same task mapping listing as the Services view.
- 40548 - Tasktop Sync's status transition caster can now be used with source attributes other than the standard status attribute.
- 40504 - Expired perpetual licenses will no longer result in error messages but instead with info messages informing that product support and maintenance has ended.
- 38599 - Tasktop Sync will only allow the user to configure attachment or comment synchronization if the repositories being synchronized support the synchronization.
- 37632 - Sync will stop submitting the same change after 5 attempted failures.

Connector-Specific Fixes

- **Atlassian JIRA**
 - 42534 - Fixed an issue where fields failed to synchronize with the error "must not redefine field template"
 - 41150 - Fixed a bug that occurs when JIRA Misc Custom Fields are installed.
 - 40528 - Changed JIRA response handling to better reflect successful attachment requests.
 - 38742 - Fixed a bug where users could not access issues that themselves link to other issues that are not visible to the user.
- **BMC Remedy (SDK)**
 - 42476 - Updated BMC Remedy help docs with potential resolutions for common Tasktop Web Service installation issue.
 - 41563 - Updated help documentation for the BMC Remedy connector.
- **Blueprint (SDK)**
 - 40231 - Fixed an issue where types that extend Use Case and Glossary did not have a Content field.
- **CA Clarity PPM (SDK)**
 - 43220 - Fixed an issue where the description field for Incidents did not allow line breaks.
 - 40639 - Fixed help docs displaying custom fields in recommended scripts.
- **GitHub Issues (SDK)**
 - 41985 - GitHub projects and organizations are now retrieved using pagination.
- **HP ALM**
 - 42740 - Fixes an issue where an unverified assignee field can cause artifact retrieval failure.
 - 42707 - Fixed an issue causing HP ALM to fail when the connector's authentication state expired during an operation.
 - 41470 - HP ALM Connector now considers "Users List" fields that are not "Verified" as text fields instead of person fields.
- **HP PPM (SDK)**
 - 41076 - Changed the way we adjust worklog durations for Day in Days time sheet policies
 - 39680 - When updating an existing timesheet, the product now creates a new time sheet line if no existing time sheet line is found.
- **IBM DOORS**
 - 40402 - Fixed an issue causing long running queries to fail.
- **IBM Rational ClearQuest (SDK)**
 - 41335 - has not been released
- **IBM Rational Requirements Composer (SDK)**
 - 42600 - IBM Rational Doors Next Generation will no longer throw an error when attempting to create a collections query against IBM DNG 6.0 with iFix6 installed.
 - 40844 - Improved error messaging when connector fails to retrieve artifact.
 - 40182 - Fixed an issue processing artifact type information when an IBM Rational Requirements Composer repository provides type information that is inaccessible to the connector.
 - 40130 - Fixed an issue where IBM Rational DOORS Next Generation requirements with attachments could not be read.
- **IBM Rational Team Concert (SDK)**

- 41486 - Rational Team Concert connector will no longer allow users to submit multiple Worklogs for the same day with the same Time Code.
- 41113 - Rational Team Concert will only return the user matching the exact email specified.
- 38121 - IBM Rational Team Concert Worklog Start Dates are now a date field instead of a DateTime field.
- **Jama (SDK)**
 - 41154 - Fixes an issue where queries were not returning all expected items
 - 40984 - Jama sequence field now correctly populated when using SOAP
 - 40569 - Fixed the URL used to retrieve attachments for Jama REST repositories.
 - 40471 - Fixed error that occurs when retrieving a user with an empty name in Jama
 - 40384 - Fixes an issue where duplicate items could be created when item creation in Jama fails.
- **Microsoft Project Server (SDK)**
 - 41842 - We now retrieve tasks but omit worklogs if the request for worklogs fails authorization.
 - 40983 - Fixes an issue where worklogs synchronized into Microsoft Project Server were split across days.
 - 40145 - Fixes an issue where incorrect values were being set when synchronizing worklogs.
- **Microsoft Team Foundation Server (SDK)**
 - 41545 - Reduced memory footprint of the Microsoft TFS connector.
 - 40746 - Fixed an issue where Microsoft Team Foundation Server Connector set Closed Date field as read-only.
- **Rally**
 - 39631 - Fixes an issue where Rally worklog duration values can be off by a small amount.
- **ServiceNow Service Desk**
 - 41882 - Fixes an issue where the connector would not return more than 10000 items for query results or single select options
 - 41869 - Enabled preemptive authentication for ServiceNow
 - 41818 - Fixed an issue with excessive logging in some configurations.
 - 41461 - Fixed an issue where the ServiceNow connector would incorrectly report reference field labels
 - 40795 - Fixed an issue where fields not appearing in the default view could be made required.
 - 40595 - ServiceNow connector no longer throws an exception when connecting to versions of ServiceNow that are not officially supported by the connector.
 - 40227 - Fixed an issue where users with no ID could be retrieved.
- **Sparx Systems Enterprise Architect (SDK)**
 - 41477 - Fixed a Sparx bug that caused an error when refreshing a query
 - 38444 - Changed Sparx EA response handling to better reflect missing native library during repository validation.
- **iRise (SDK)**
 - 42713 - Fixed an issue where the iRise connector threw an exception when a custom field of unsupported type was encountered.
 - 40779 - Fixed the iRise connector to retrieve the "Creator" and "Modified By" person field values.

Features

- **Bridge**
 - 42016 - Some query, task and repository wizard fields now support auto-completion, filtering options by typed text using case insensitive matching to any contiguous portion.
 - 39742 - When working with a non-default authenticator, the credential fields have been moved down to the authentication settings section.
- **IBM Rational Requirements Composer (SDK)**
 - 39030 - Added support for new 6.0.1 release from IBM.
- **SDK**
 - 41742 - The IBM Rational Team Concert and Rational Requirements Management Composer are now able to authenticate using X.509 certificates.
- **Server**
 - 40368 - The Task Link to Task Link filtering now performs an extra check to see if the task ID is also on one of the mapping's queries.
 - 40045 - Now storing full Synchronization logs as separate files in the sync workspace
 - 40020 - A warning message is displayed at the top of the mapping editor when there are required attributes in need of mapping.
 - 39423 - Database proxy and performance warnings are now displayed as info level statuses.
 - 39422 - Tasktop Sync presents warnings to users using task attributes in the configuration for the task link to external link caster.
 - 39421 - The Task Link to External Link caster now supports inserting the values of linked task attributes on the external link labels being synchronized.
 - 39420 - The Task Link to External Link caster now supports setting the label of the External Link during synchronization.
- **Studio**
 - 40019 - When picking an attribute from the drop down in the Attribute Mappings page, attributes in need of mapping are at the top and starred.