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## 4.7 Release Notes

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# Tasktop Sync Release Notes - 4.7.14

## Fixes

### Connector-Specific Fixes

#### Atlassian JIRA

- 54969: Fixed the retrieval of attachments from Atlassian JIRA OnDemand.

# Tasktop Sync Release Notes - 4.7.13

## Fixes

### Connector-Specific Fixes

#### HP ALM

- 54701: Fixed an issue in HP ALM connector where some URL attachment based web links would display missing or incorrect URLs.

#### Jama

- 54761: Fixed an issue where some server-side exceptions were being reported with confusing messages.

# Tasktop Sync Release Notes - 4.7.12

## Fixes

### Connector-Specific Fixes

#### Jama

- 53755: Fixed an issue where locked items were causing all items being synchronized to go into pending state.
- 53326: Fixed an issue where item types that contained fields already on the Core type could not be synchronized.

#### Microsoft Team Foundation Server

- 53118: Fixed memory consumption issues with the TFS SDK.

# Tasktop Sync Release Notes - 4.7.11

## Fixes

### Sync Fixes

- 52621: Fixed an issue where Tasktop Sync was unable to sync an item to another system when the comment was too long.
- 52486: Fixed an issue where filtered task link synchronization was not filtering links to non-mapped tasks.

# Tasktop Sync Release Notes - 4.7.10

## Upgrade Notes

### Connector-Specific Upgrade Notes

#### Microsoft Team Foundation Server

- 51851: Refreshing the schema might be necessary in order to get all the available options to show up.
- 51526: No migration is required for customers having previous artifacts synced from an on-demand server. Where the Location field is included in a mapping, proxy artifacts may be unexpectedly updated when non-mapped TFS field values are updated. A TFS artifact's Location field will not update to the correct URI until changes are detected in the TFS artifact.

## Fixes

### Connector-Specific Fixes

#### CA Agile Central

- 50710: Fixed an issue where attachments greater than 5 MB could not be synchronized into Rally/CA Agile versions that support attachments up to 50MB in size.

#### IBM Rational Team Concert

- 52109: Fixed an issue where the RTC connector did not properly support enumerations with External Values defined.

#### Microsoft Team Foundation Server

- 51851: Fixed an issue where fields with rules don't show available options and cannot add new values.
- 51526: Fixed an issue where the Location field's URI was incorrect for on-demand servers.
- 51491: Fixed an issue where no results are returned when a date is used in query filter.

#### ServiceNow Service Desk

- 51533: Fixed issue with ServiceNow Service Desk reference field options having incorrect labels.

## Sparx Systems Enterprise Architect

- 51573: Sparx EA connector now supports MS SQL encrypted database connection strings.



# Tasktop Sync Release Notes - 4.7.9

## Upgrade Notes

### Connector-Specific Upgrade Notes

#### Jama

- 51532: Users will need to refresh schema

## Fixes

### Sync Fixes

- 50627: Fixes an issue where TaskData would be deleted during a workspace upgrade

### Connector-Specific Fixes

#### Jama

- 51532: Fixes an issue where test case steps were being erased when using the REST version of the connector

# Tasktop Sync Release Notes - 4.7.8

## Fixes

### Connector-Specific Fixes

#### HP ALM

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

#### IBM Rational Requisite Pro

- 48918: Fixed an issue where connector had poor performance synchronizing items.

#### Jama

- 51019: Fixed an issue where Last Activity Date was not appearing in the schema.

#### Microsoft Project Server

- 49734: Fixed issue with updates to custom fields.

# Tasktop Sync Release Notes - 4.7.7

## Fixes

### Connector-Specific Fixes

#### HP ALM

- 40411: Fixed an issue where '%' character was not supported in attachment filenames.

#### IBM Rational DOORS

- 50803: Fixed an issue where modified date in the connector was different than what was shown in DOORS.

#### Jama

- 51028: Fixed an issue where Test Cases with Test Steps could not be retrieved.

#### Tosca

- 51121: Fixed an issue where changes made to one workspace that uses the same repository as a second workspace were not being detected in the second workspace.

# Tasktop Sync Release Notes - 4.7.6

## Fixes

### Connector-Specific Fixes

#### Atlassian JIRA

- 49915: Fixed an issue where content in the description field longer than 32,767 bytes caused synchronization failures.
- 49815: Fixed an issue where Jira Agile fields failed to synchronize with the error "must not redefine field template"

#### IBM Rational DOORS

- 50304: Fixed an issue where sending an empty value in a single select field caused an error.

#### Tricentis Tosca

- 50211: Fixed an issue where issue sub-folders were not retrieved under certain circumstances.

#### iRise

- 49827: Fixes an issue where clearing person fields caused an error when retrieving an item with Tasktop.

# Tasktop Sync Release Notes - 4.7.5

## Upgrade Notes

### Connector-Specific Upgrade Notes

#### CA Agile Central

- 48862: Any customer upgrading from 4.7.1 and higher and has used the project scoped query with an "owner" choice populated, will have to recreate this query. This will not affect customers upgrading from earlier than 4.7.1
- 49629: Schema refresh is required.

## Fixes

### Connector-Specific Fixes

#### Atlassian JIRA

- 49535: Fixed an issue where sprint names with commas were truncated.
- 48862: Fixed an issue where duplicate options were causing an error in Rally Project scoped search.
- 49629: Fixed an issue where location field contained incorrect value.
- 49537: Fixed an issue causing poor performance when querying Tosca.

# Tasktop Sync Release Notes - 4.7.4

## Tasktop Sync Version 4.7.4

### Upgrade Notes

#### Connector-Specific Upgrade Notes

##### ServiceNow Service Desk

- 49299: Fields referencing the User (sys\_user), User Groups (sys\_user\_group), and Configuration Item (cmdb\_ci) tables now have "Fast Reference Field Support" enabled by default. This means that integrations relying on explicit internal value mappings for the options of these fields may continue to work but will not provide labels or be editable. To restore full support (and value mapping capability) for these fields ensure that their field names (not labels) are explicitly added to the 'Full Reference Field Support' list in the repository settings.

### Fixes

#### Connector-Specific Fixes

##### ServiceNow Service Desk

- 49299: Fixed a performance issue in systems with large volumes of referenced data by adding a new "Fast Reference Field Support" feature.

# Tasktop Sync Release Notes - 4.7.3

## Tasktop Sync Version 4.7.3

### Features

#### Microsoft Project Server (SDK)

- 48131: Added read-only support for 'Notes', 'Outline Position', 'Outline Level', and 'Work Breakdown Structure' task fields.

# Tasktop Sync Release Notes - 4.7.2

## Tasktop Sync Version 4.7.2

### Fixes

#### Sync Fixes

- 48960 – Fixed an issue where error messages created unusably large log files.
- 48915 – Resolved issue of repeatedly asking for schema migration for invalid repositories not needing migration.

#### Connector-Specific Fixes

##### Microsoft Team Foundation Server (SDK)

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

##### ServiceNow Service Desk (SDK)

- 49202 – Fixed an issue where creating new queries of type 'By Filter' caused null pointer exceptions.

##### Sparx Systems Enterprise Architect (SDK)

- 45951 – Fixed an issue where Sparx EA processes that were not ended correctly caused memory issues.



# Tasktop Sync Release Notes - 4.7.1

## Sync Version 4.7.1

## Upgrade Notes

### Connector-Specific Upgrade Notes

- **HP ALM**
  - 48104 - Mappings for tests and test sets that include the Subject (TS\_SUBJECT) or the Test Set Folder (CY\_FOLDER\_ID) attributes will need to be remapped if the mapping relied on the name of the Subject or Test Set Folder.
- **iRise (SDK)**
  - 47902 - iRise schema has to be refreshed after upgrade to ensure schema is up to date.

## Fixes

### Connector-Specific Fixes

- **Atlassian JIRA**
  - 48613 - Atlassian JIRA connector now supports Zephyr Test Executions in versions of JIRA earlier than 7.0.
- **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.
- **Jama (SDK)**
  - 47649 - Improved error message when APIs are disabled or account is locked.
- **Serena Dimensions RM (SDK)**
  - 47742 - Improved support for person attributes.

# Tasktop Sync Release Notes - 4.7.0

## Sync Version 4.7.0

## Upgrade Notes

### Connector-Specific Upgrade Notes

- Tasktop Sync is now built on version 4.5 of the Eclipse Platform.
- CA Clarity PPM (SDK)
  - Mappings that include the Project attribute must be changed from value with label to artifact link.
  - NSQL queries Tasktop\_SearchProjects and Tasktop\_GetProject need to be added to support new functionality. Tasktop\_L\_prchargecodeid needs to be updated in the CA PPM instance as well.
- Tricentis Tosca (SDK)
  - Users will need to recreate or reconfigure any virtual folder queries.
- Rational Doors NextGen
  - After a Sync upgrade, when you start Sync for the first time, you may be presented with a Wizard that will complete the Sync upgrade. As always, it is highly recommended that you back up your Sync workspace before starting the upgrade. In the new wizard, you may be forced to enter repository credentials before the upgrade continues. Once all repositories are valid, your repository data will be updated automatically.
- iRise
  - After a Sync upgrade, when you start Sync for the first time, you may be presented with a Wizard that will complete the Sync upgrade. As always, it is highly recommended that you back up your Sync workspace before starting the upgrade. In the new wizard, you may be forced to enter repository credentials before the upgrade continues. Once all repositories are valid, your repository data will be updated automatically.
- CA Agile Central
  - Mappings will no longer include the Project attribute in their scope. After a Sync upgrade, you must update your "Artifact Scope" for each task mapping with a CA Agile Central repository.
  - For each task mapping, open in the task editor, locate the "Artifact Scope" section under the CA Agile Central repository and click Edit. In the dialog, click finish.
  - Also for each task mapping, make sure that there exists an attribute mapping for "Project" to the CA Agile Central repository. If it does not, define one under that "Attribute Mapping" tab.
  - Note that this may open your task mappings to other projects. Make sure that the associated queries defined under "Repository Scope" include only the desired tasks.

### Sync Upgrade Notes

- 45914 - After an Sync upgrade, when you start Sync for the first time, you may be presented with a Wizard that will complete the Sync upgrade. As always, it is highly recommended that you back up your Sync workspace before starting the upgrade. In the new wizard, you may be forced to enter

repository credentials before the upgrade continues. Once all repositories are valid, your repository data will be updated automatically.

- 44913 - If you were using the "-groovyClasspath" command line argument to expand the classpath for Groovy scripts, this is no longer supported. Instead, move the \*.jar files into a directory named "dropins" inside the workspace.
- 42815 - Tasktop Sync will no longer start if Task Mappings are configured with extra fields in the repository scope.

- **Connector-Specific Upgrade Notes**

- **CA Agile Central**

- 44049 - When upgrading to this version, users will need to: Update their Rally repository schemas. Update any queries that previously included project but do not anymore (applies to Recently Modified and Formatted ID searches). Map the 'Project' field in their mappings. 'Project' is now a required field and is no longer part of the artifact scope. Refresh Artifact Scope in the task mapping if 'Project' is still in the scope.

- **ServiceNow Service Desk**

- 44796 - ServiceNow connector will no longer connect to pre-Eureka ServiceNow instances.

- **Taucraft Targetprocess (SDK)**

- 44224 - Assignment fields were removed from the connector. Any mapping using those fields needs to be updated.

- **VersionOne**

- 45314 - Fixed performance issue and removed viewers field support.

- **iRise (SDK)**

- 46524 - Customers should update their iRise repository schemas and remap occurrences of the Chapter field using either the Literal Value caster to point to a particular chapter or the Task Link to Task Link caster.

## 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-u91.

## 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

- 44581 - Fixed issue with repository schema refresh when tasks are missing data.
- 42914 - Comment duplication prevention is now checking both the marked up version of the comment, and the plain text version of the comment before synchronizing.
- 42889 - Task Mappings based on a Mapping Template will now display all Attribute Handlers correctly in the Task Mapping Editor.
- 42307 - Fixed an error when loading very large task lists.
- 41530 - Sync Tasks incoming arrows are now displayed and cleared automatically.

### Connector-Specific Fixes

- **Atlassian JIRA**
  - 47223 - Improved authentication handling against older JIRA server versions.
  - 44716 - Fixed an error when adding a new version to the Fix Versions field.
  - 43500 - Fixed "Project must be specified" error in the JIRA Connector.
  - 43336 - Fixed an issue with network errors like HTTP 504.
- **Blueprint (SDK)**
  - 33107 - Fixed an issue with repository validation and incorrect URL schemes.
- **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.
- **HP ALM**
  - 41837 - Fixed artifact retrieval when the subject folder of a defect is deleted.
  - 39315 - Fixed an issue where passwords are not required.
  - 38407 - Weblinks no longer have a .url ending in their label.
  - 35567 - Attachment filenames now allow the "En Dash" character.
- **HP PPM (SDK)**
  - 45922 - Fixed an issue listing project options adding paged API calls with a max page size of 5000.
  - 45302 - Fixed an error caused by duplicate project IDs.

- 40830 - Fixed an issue with errors that occur when concurrent task creation requests by automatically retrying.
- **IBM DOORS**
  - 45112 - Fixed an issue with stale Object Number attributes.
- **IBM Rational ClearQuest (SDK)**
  - 44193 - Fixed an issue where query could not refresh due to invalid user login names.
  - 44157 - Fixed an issue where could not connect to a test database.
- **IBM Rational Requirements Composer (SDK)**
  - 44283 - Fixed an issue that caused the artifact retrieval to fail due to not finding the right artifact format.
  - 44026 - Fixed an issue where requirements with custom user fields could not be retrieved.
  - 32694 - Removed the constraint that summary field is required.
- **IBM Rational Requisite Pro (SDK)**
  - 46616 - Fixes an issue where a package description with a line break or a tab can cause the artifact to be continuously detected as changed.
- **IBM Rational Team Concert (SDK)**
  - 44129 - Fixed an issue in the IBM Rational Team Concert connector that prevented a user from refreshing a query.
  - 43464 - Fixed an issue where creating artifacts with empty summary was not possible, even if the server permits.
  - 41488 - Fixed an issue where artifact was written when no fields had changes.
- **Jama (SDK)**
  - 45969 - Provide better error message when invalid person ID is used in a Person Mapping.
- **Microsoft Project Server (SDK)**
  - 45007 - A retry limit has been introduced to avoid excessive retries on failed operations.
  - 44646 - Improved error message now provided when incorrect repository location is used.
- **Microsoft Team Foundation Server (SDK)**
  - 47324 - Fixes an issue where writing a WorkItem would fail when the Automation Status field is not available.
  - 46404 - Fixed an issue that was causing a StackOverflowError.
  - 45252 - Fixed rendering of some date and number fields that have "allowed values".
  - 45028 - Fixed handling of the new Microsoft Visual Studio Online url that was resulting in HTTP 404 errors.
- **CA Agile Central**
  - 46640 - Fixes an issue where two users could not submit a worklog for the same task and time period.
  - 32663 - Fixed an error that may occur when user gets logged out.
- **Serena Business Manager (SDK)**
  - 43915 - Fix a bug that prevented synchronization of Change Request items.
- **ServiceNow Service Desk**
  - 45225 - Fixed null id error that could result when retrieving artifact links.
  - 44736 - Fixed memory issue when ServiceNow Service Desk connector retrieves reference table field options.
  - 43806 - Added repository configuration field that allows attachments greater than 25 MB to be synchronized.
  - 43755 - Improved performance of query result sorting.

- 42446 - Custom options for fields inherited from parent tables now supported.
- **Sparx Systems Enterprise Architect (SDK)**
  - 45972 - Fixed an issue where sub-requirements were not being retrieved when searching by package.
- **Tasktop SQL**
  - 44136 - Users can now create collections for a Tasktop SQL connection to MySQL or Microsoft SQL Server where the credentials of the connection may not have permissions to view unrelated database tables.
- **Taucraft Targetprocess (SDK)**
  - 44224 - Fixes an issue where Targetprocess instances without default roles and workflows fail to retrieve schema information.
- **Tricentis Tosca (SDK)**
  - 45443 - Fixed workspace name truncation issue.
- **VersionOne**
  - 46120 - Fixed an issue where artifact retrieval fails when many attachments, worklogs or comments exist for the retrieved artifact.
  - 45314 - Fixed performance issue and removed viewers field support.
- **IRise (SDK)**
  - 45435 - Connector now uses cookies where possible instead of basic authorization to minimize number of authentications.

## Features

### General

- 39054 - Pressing "Refresh" in Tasktop Sync's new Task Mapping wizard will ensure that any newly defined fields are read when computing Tasktop Sync's schema.

### Server

- 45738 - Logging security enhancements to ensure all authentication information is removed from application logs.
- 45716 - Templates can be generated using labels to map attributes.
- 45715 - Attribute mappings, transition attribute mappings and attribute handlers can now reference attributes by label.
- 44711 - Improved validation of person mapping in target system, falling back to default person if user not found.
- 43758 - The Task Link to Task Link caster has the option to only synchronize links to tasks allowed in the target attribute.
- 43615 - Invalid attachment synchronization can be configured to be mentioned in the Error Email under the heading "Failed Attachments".
- 43613 - With an invalid attachment handling filter configured and set to ignore, invalid attachments now get skipped instead of throwing errors.

- 43239 - In the Tasklink to String and External Link to String caster, users can add "%EOL" in the target format to add line breaks if supported by the target attribute.
- 43238 - Can now filter synchronized comments to only publicly visible comments, and can assign the visibility of comments synchronized into a system.
- 43215 - Query failure messages now include referenced task mappings.

## Studio

- 43616 - A new menu option, "Synchronize Attachments Again", was added to tasks in the Sync Tasks View which will re-synchronize attachments.
- 43240 - The Value Mapping and Status Transition Caster's table cell dropdowns have up to 10 visible options before the need for scrolling.
- 42823 - Validation issues to do with the configured mapping scope in the mapping editor will now be displayed.
- 40765 - Appropriate markups will now be automatically selected when configuring a text markup caster.