# 19.3 Release Notes

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# Tasktop Release Notes - 19.3.25

*Posted: July 15, 2020*

## Fixes

### Connector-Specific Fixes

### Micro Focus ALM

- 106896: Fixed an issue where token expiry was not properly detected, which caused errors that blocked integrations.

# Tasktop Release Notes - 19.3.24

*Posted: May 20, 2020*

- Fixes
    - Tasktop Integration Hub Fixes
        - Misc

## Fixes

### Tasktop Integration Hub Fixes

### Misc

- 105588: Fixed an issue where the Integration screen redirect sometimes did not work.

# Tasktop Release Notes - 19.3.23

*Posted: May 06, 2020*

## Fixes

## Tasktop Integration Hub Fixes

## Artifact Filtering

- 100642: Fixed an issue where the mappings in a collection were inaccessible due to an invalid field in a field mapping.

## Container Synchronization

- 103675: Fixed an issue where the collections of a Container + Work Item synchronization integration were not displayed properly.

## SDK-Specific Fixes

## SDK

- 103015: Fixed an issue where container links with empty summaries produced an error.

# Tasktop Release Notes - 19.3.22

*Posted: January 15, 2020*

## Upgrade Notes

## Connector-Specific Upgrade Notes

## Microsoft Azure DevOps Server (TFS)

- 101984: Beginning on 03/02/2020, Azure DevOps Services users must use Personal Access Token authentication, as standard authentication will no longer be supported by Microsoft. Please check your authentication methods and update as needed. If authentication is not updated correctly, pre-existing integrations may stop running. Azure DevOps Server (on-prem) users can continue to use standard authentication.

## Fixes

## Tasktop Integration Hub Fixes

## Work Item Synchronization

- 101760: Fixed an issue where an existing extension did not display correctly on a field configuration if there was an invalid transformation.

## Connector-Specific Fixes

## Planview Enterprise

- 101514: Fixed an issue where previously supported fields were no longer available for mapping in versions 19.4.2+, 19.3.12+, and 19.2.24+.

# Tasktop Release Notes - 19.3.21

*Posted: December 19, 2019*

# Fixes

## Tasktop Integration Hub Fixes

## Activity & Issues

- 101521: Fixed an issue that produced unnecessary Tasktop validation on each project in a collection when processing services were started.

## Product Upgrades

- 101576: Fixed an issue where a skipped configuration migration was incorrectly marked as completed.

## Connector-Specific Fixes

## IBM Rational DOORS

- 101090: Fixed an issue where cross-module in-links were created incorrectly.

# Tasktop Release Notes - 19.3.20

*Posted: December 13, 2019*

## Fixes

### Tasktop Integration Hub Fixes

### Misc

- 99793: Upgraded Tomcat to version 8.5.49.

### Settings

- 101213: Fixed an issue where the 'Master Password' screen did not display upon a new installation.

### Connector-Specific Fixes

### IBM Rational DOORS

- 99281: Fixed an issue where links to an inaccessible object blocked integrations.

### Micro Focus ALM

- 101303: Fixed an issue for Micro Focus ALM versions 12.50+, where attachments were not properly synchronizing when there were multiple attachments with the same case-insensitive name.

# Tasktop Release Notes - 19.3.19

*Posted: November 28, 2019*

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# Fixes

## Tasktop Integration Hub Fixes

### Integrations

- 101036: Fixed an issue where encountering an error at the wrong time could cause change detection to stop for a given project.

## Connector-Specific Fixes

### Atlassian Jira

- 100877: Fixed an issue where setting a value for the 'Assignee' field caused creation of Test Executions to fail.

### Micro Focus ALM

- 100818: Fixed an issue for ALM versions 12.50+ where attachments were not synchronizing properly if there are multiple attachments with the same case-insensitive name.

# Tasktop Release Notes - 19.3.18

*Posted: November 27, 2019*

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## Fixes

## Tasktop Integration Hub Fixes

### Container Synchronization

- 100950: Fixed an issue where artifact creation flow changed to be bidirectional for previously unidirectional Work Item + Container Synchronizations after upgrading Tasktop Integration Hub.

### Integrations

- 100645: Fixed an issue where encountering an error at the wrong time could cause change detection to stop for a given project.
- 100024: Fixed an issue where moving routes between integrations (from the advanced configuration screen) changed artifact creation flow to bidirectional.

# Tasktop Release Notes - 19.3.17

*Posted: November 19, 2019*

## Upgrade Notes

## Tasktop Integration Hub Upgrade Notes

## User Management

- 97856: To fix a security issue causing browser security settings to be listed twice(and potentially misinterpreted by the user's browser) in response headers during user management (Keycloak) authentication, please follow the steps below:

  1. Click 'User Administration Console' at the bottom of the Tasktop Integration Hub sign in page and log in to Keycloak.
  2. In the Tasktop Realm Settings page, go to the Security Defenses tab. Make sure the following fields are blank: X-Frame-Options, X-Content-Type-Options, and X-XSS-Protection.
  3. Navigate to the Master Realm Settings page (by clicking 'Tasktop' at the top of the sidebar navigation and selecting 'Master), and do the same. [Security Fix]

## Fixes

## Tasktop Integration Hub Fixes

## Artifact Relationship Management (ARM)

- 100798: Fixed an issue where artifact relationship resolution did not work when a related artifact did not contain a mapped field.

## Extensions

- 100590: A more descriptive error will now be provided when an extension sets an invalid value on a relationship field.

## User Management

- 97856: Fixed a security issue that caused browser security settings to be listed twice (and potentially misinterpreted by the user's browser) in response headers during user authentication. <span style="color:red">[Security Fix]</span>

# Connector-Specific Fixes

## Planview Enterprise

- 100635: Fixed an issue where synchronization failed with 'Code must contain only digits' error.

# Tasktop Release Notes - 19.3.16

*Posted: November 13, 2019*

# Fixes

## Tasktop Integration Hub Fixes

## Container Synchronization

- 100390: Fixed an issue where folders could not be synchronized into Jama.

## Extensions

- 100590: A more descriptive error will now be provided when an extension sets an invalid value on a relationship field.

## State Transitions

- 100606: Improved error message for unsupported state transition parameters.

## Connector-Specific Fixes

## BMC Remedy

- 100202: Fixed a performance issue during repository validation.

# Tasktop Release Notes - 19.3.15

*Posted: October 30, 2019*

# Fixes

## Tasktop Integration Hub Fixes

### Artifact Relationship Management (ARM)

- 98252: Fixed an issue where relationship resolution could fail when a related artifact resolved to multiple artifacts in the target system.

### Collections

- 98036: Fixed an issue where the collection screen did not indicate when a state transition was being used.

### Operational Database

- 100119: Fixed an issue where change detection could encounter long and frequent delays when using a Derby database.
- 99840: Added a 10 minute default socket timeout to the connection to the operational database for MySQL, PostgreSQL and Oracle (there was no timeout previously). This only affects connections where the timeout is not explicitly set.

## Connector-Specific Fixes

### BMC Remedy

- 100059: Fixed an issue in Remedy versions earlier than 18.08 that prevented Tasktop from retrieving the artifact schema when the same field was shared across multiple views.

# Microsoft Azure DevOps Server (TFS)

- 100137: Fixed an issue where the connector could fail to execute a WIQL query to search for new and changed artifacts in a team project.

# Tasktop Release Notes - 19.3.14

*Posted: October 23, 2019*

# Fixes

## Tasktop Integration Hub Fixes

### Collections

- 97912: Field values are now sorted by relevance when users filter the values in Hub by typing into the dropdown.

### Logging

- 98623: Fixed an issue that might cause confidential information to be written to logs through SQL statements logging when trace logging is enabled.

## Connector-Specific Fixes

### Atlassian Jira

- 99316: Fixed an issue where an HTML response from Jira was not handled properly.

### QASymphony qTest Manager

- 99841: Fixed an issue where users would constantly get Authentication State Expired errors.

## Security Issues:

### Logging

- 98623: Fixed an issue that might cause confidential information to be written to logs through SQL statements logging when trace logging is enabled.

# Tasktop Release Notes - 19.3.13

*Posted: October 16, 2019*

## Fixes

### Tasktop Integration Hub Fixes

### Activity & Issues

- 97789: Fixed an issue where authentication errors did not automatically resolve.

### Twinless Artifact Update

- 99838: Added logging to indicate why twinless artifact updates were applied.

# Tasktop Release Notes - 19.3.12

*Posted: October 09, 2019*

- Upgrade Notes
  - Connector-Specific Upgrade Notes
    - Planview Enterprise
- Fixes
  - Tasktop Integration Hub Fixes
    - Operational Database
    - Work Item Synchronization
  - Connector-Specific Fixes
    - Atlassian Jira
    - Jama
    - Planview Enterprise
    - Tricentis Tosca

# Upgrade Notes

## Connector-Specific Upgrade Notes

### Planview Enterprise

- 99388: Collections containing any Lifecycle Role fields will need to be updated. These fields are no longer supported.

# Fixes

## Tasktop Integration Hub Fixes

### Operational Database

- 99158: Fixed an issue where database read timeouts could occur when a mapping error happened.

### Work Item Synchronization

- 99474: Fixed an issue where some artifacts can take 10 minutes to process while others would process almost instantly.

## Connector-Specific Fixes

## Atlassian Jira

- 99400: Fixed an issue where a Jira Profields plugin custom field was blocking Jira synchronizations.

## Jama

- 99617: The repository connection can now be configured to strictly use the SOAP API.

## Planview Enterprise

- 99388: Fixed an issue where attempting to retrieve a value for an unsupported field caused an error.

## Tricentis Tosca

- 99294: Fixed an issue where an artifact that is inside a folder having a name containing a forward slash could not be moved.

# Tasktop Release Notes - 19.3.11

*Posted: October 02, 2019*

# Fixes

## Tasktop Integration Hub Fixes

## Activity & Issues

- 99451: Fixed an issue where an artifact's routes were being incorrectly updated.

## Integrations

- 99424: Improved performance when saving an integration with many routes.
- 99139: Fixed an issue where integrations would stop due to outdated project errors. Note that integrations will still be temporarily blocked from the time the error was detected to the time when the error is resolved.
- 99033: Fixed an issue where processing restarts could take a long time when using an Oracle database.
- 98267: Improved error message when a mapped field matches multiple fields within a project.

## Repositories

- 97636: Fixed an issue where repository authentication errors were not automatically being resolved.

## Connector-Specific Fixes

## IBM Rational Team Concert

- 99402: Fixed an issue where artifact changes could be missed when using an unordered RTC query.

# Features

## Tasktop Integration Hub Features

### Twinless Artifact Update

- 99329: Updated the tooltips on the twinless artifact update screen.

# Tasktop Release Notes - 19.3.10

*Posted: September 17, 2019*

## Upgrade Notes

### Connector-Specific Upgrade Notes

### Salesforce

- 98967: After upgrading, attachments that were previously synced from Salesforce to another repository without a file extension in the file name may be synced as a new attachment that includes the file extension in the file name.

## Fixes

### Tasktop Integration Hub Fixes

### Infrastructure

- 96984: Upgraded Tomcat to 8.5.45 to address CVE-2019-10072.

### Connector-Specific Fixes

### Microsoft Azure DevOps Server (TFS)

- 98969: Fixed an issue where the connector incorrectly defined a text field as a single-select field.

### Salesforce

- 98967: File extensions that were missing are now included in Salesforce attachment file names.

# Tasktop Release Notes - 19.3.9

*Posted: September 12, 2019*

## Upgrade Notes

### Tasktop Integration Hub Upgrade Notes

### Product Upgrades

- 94747: Users upgrading from 19.1 or earlier with a very large operational database (e.g. larger than 10GB) should be prepared for this upgrade to potentially take several hours. If using SQL Server for the operational database and the database is very large, it is recommended to add "; socketTimeout=0" to the connection string in db/tasktop-db.json before starting Hub for the first time. After the upgrade this can be removed.

## Fixes

### Tasktop Integration Hub Fixes

### Product Upgrades

- 94747: Fixed a problem upgrading from 19.1 or earlier with a very large operational database.

### Connector-Specific Fixes

### Jama

- 84145: Since Jama doesn't support emojis in comments, Tasktop will replace emojis in inbound comments with  .

### QASymphony qTest Manager

- 98551: The qTest connector now detects and retries attachment and comment searches that have missing or duplicated results.

# Tasktop Release Notes - 19.3.8

*Posted: September 09, 2019*

# Upgrade Notes

## Tasktop Integration Hub Upgrade Notes

### Collections

- 98545: Default behavior has been changed to retrieve field values from one sample project in a collection, rather than all projects.

  In rare cases where field values vary across projects in a collection, users must check 'retrieve field values from all projects' on the collection screen. This update must be made both for new and existing collections.

# Fixes

## Tasktop Integration Hub Fixes

### Collections

- 98545: Improved loading performance of the integration overview screen and the field configuration screen by having collections retrieve field values from one sample project instead of all projects.

  In rare cases where field values vary across projects in a collection, users can configure the collection to query all projects.

### Integrations

- 98395: Fixed an issue where failing to schedule change detection for one integration prevented all other integrations from processing.

## Product Upgrades

- 98796: Fixed an issue where invalid artifact routes became corrupted during Tasktop upgrade.

# Connector-Specific Fixes

## iRise

- 98751: Fixed an issue where creating a Requirement collection failed due to an "Unable to determine if the field is read only" error.

# Tasktop Release Notes - 19.3.7

*Posted: August 27, 2019*

## Fixes

## Tasktop Integration Hub Fixes

### Activity & Issues

- 98539: Fixed an issue where a failure to delete an error prevented further user interactions on the Issues tab.

### Integrations

- 98553: Fixed an issue where errors could occur when scheduling activity.

### Operational Database

- 98473: Fixed an issue where some database queries could cause deadlocks during processing under certain configurations.

## Connector-Specific Fixes

### Microsoft Azure DevOps Server (TFS)

- 98489: Fixed an issue where queries could cause an error.

### ServiceNow

- 98353: Fixed an issue where some field values were not shown on the field mapping screen when using glide.invalid_query.returns_no_rows under system properties.

# Tasktop Release Notes - 19.3.6

*Posted: August 21, 2019*

# Fixes

## Tasktop Integration Hub Fixes

### Redeployment

- 97751: Fixed issue where artifact pair imports were getting interrupted when configurations changed.

## Connector-Specific Fixes

### Atlassian Jira

- 98278: Fixed an issue where users were unable to use OAuth 1.0a Authentication.

### BMC Remedy

- 97980: Fixed issue with fields containing nested parenthesis for BMC Remedy 9.1.04.

# Features

## Tasktop Integration Hub Features

### Product Upgrades

- 98235: When upgrading to a new version, any pre-existing integration migration background jobs will no longer wait for their scheduling delay before running.

# Tasktop Release Notes - 19.3.5

*Posted: August 15, 2019*

# Fixes

## Tasktop Integration Hub Fixes

### Activity & Issues

- 97199: Fixed an issue where Tasktop would not display errors that occurred when Tasktop attempted to update an item in DOORS with a locked module.

### Misc

- 97993:
  • Fixed an issue where services were being interrupted prematurely when making changes to the configuration.
  • Fixed an issue where the database was being detected as unavailable incorrectly.
  • Added logging when the application restarts due to reconnecting to the database.

### Operational Database

- 96794: Fixed an issue where updating the external database settings upon starting Tasktop would take several minutes.

### Product Upgrades

- 97919:
  • Fixed an issue where configuration migrations paused integrations after the initial upgrade.
  • Users can no longer manually delete configuration migration failure issues.

# Connector-Specific Fixes

## IBM Rational DOORS

- 97798: Improved performance of listing modules when setting up a collection.

# Features

## Tasktop Integration Hub Features

### Integrations

- 97554: Improved loading performance of the artifact routing screen when many projects are routed.

# Tasktop Release Notes - 19.3.4

*Posted: August 07, 2019*

# Upgrade Notes

## Connector-Specific Upgrade Notes

## Micro Focus ALM Octane

- 98018: It is recommended that the Shared Space Admin role is unassigned from the integration user to speed up the listing of workspaces when creating a new collection.

# Fixes

## Connector-Specific Fixes

## Micro Focus ALM Octane

- 98018: The integration user is no longer required to have the Shared Space Admin role.

## ServiceNow

- 97708: Fixed an issue that occurred when retrieving artifacts with catalog variables with duplicated variable names.
- 97707: Fixed an issue where ServiceNow could return a 400 error when retrieving artifacts with a large number of catalog variables.

# Tasktop Release Notes - 19.3.3

*Posted: July 31, 2019*

## Fixes

### Connector-Specific Fixes

### Atlassian Jira

- 97665: This restores person matching by email for artifacts synced into JIRA on-demand repositories, which was impacted by a recent Atlassian privacy change that hides user emails by default.

### QASymphony qTest Manager

- 97666: Fixed an issue which could cause the QASymphony qTest Manager connector to hang while performing creates or updates.
- 97345: Fixed an issue where an artifact's revision would not be correct under some configurations, resulting in unnecessary synchronizations.

### ServiceNow

- 97878: Fixed an issue where certain artifact filtering conditions produced an error during change detection.

# Tasktop Release Notes - 19.3.2

*Posted: July 22, 2019*

- Upgrade Notes
  - Tasktop Integration Hub Upgrade Notes
    - Container Synchronization
    - State Transitions
    - User Management
  - Connector-Specific Upgrade Notes
    - General (Services)
    - Atlassian Jira
    - BMC Remedy
    - QASymphony qTest Manager
    - Targetprocess
    - Tricentis Tosca
- Fixes
  - Tasktop Integration Hub Fixes
    - Activity & Issues
    - Artifact Filtering
    - Artifact Relationship Management (ARM)
    - Collections
    - Container Synchronization
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    - Infrastructure
    - Installers
    - Integrations
    - Operational Database
    - Product Upgrades
    - Repositories
    - Settings
    - State Transitions
    - Twinless Artifact Update
    - User Management
    - Work Item Synchronization
  - Connector-Specific Fixes
    - Atlassian Jira
    - Blueprint
    - BMC Remedy
    - CA Agile Central (Rally)
    - IBM Rational DOORS Next Generation
    - iRise
    - Jama
    - Micro Focus ALM Octane

# Upgrade Notes

## Tasktop Integration Hub Upgrade Notes

## Container Synchronization

- 94970: Container Matching Settings sash is now only available for containers which can be contained by themselves (for example, ALM folders will be supported, but ALM Test Sets will not).

## State Transitions

- 78550: Customers who have state transitions configured to fields which are required to create an artifact may see errors asking them to fully map all values for those fields, or to create a constant value mapping so that Tasktop can create artifacts in their collection.

  Tasktop may also try to update fields used by state transitions directly (and may subsequently generate an error) if the field flow for those fields has been changed to "Update Normally" or "Update Always".

## User Management

- 95202: Keycloak user management's logout functionality has changed.

  **All customers must follow instructions listed here to prevent errors that could stop Tasktop pages from loading or prevent users from logging out of Tasktop.**

  Customers who have installed their own self-signed TLS certificates (or any certificates not from an up-to-date root certificate registrar) for Tasktop's Tomcat instance, replacing the `insecureKeystore` shipped with Tasktop, will need to modify Keycloak's configuration file to tell it to trust Tomcat's keystore. Please see the administration configuration guide (https://docs.tasktop.com/cd/user-guide/installation-primer/installation#Installation-ConfigureKeycloakUserManagementtouseandtrustTasktop'skeystore) for more details

  Certificates from an authoritative registrar do not require this configuration. In the case of such certificates being installed, the XML configuration block specifying the keystore for Keycloak's outgoing HTTPS connections should be removed from Keycloak's configuration file because it would then specify a keystore that cannot be used to authenticate the Tomcat install.

# Connector-Specific Upgrade Notes

## General (Services)

- 97693: The following Vendor repository versions are no longer available under Tasktop's general support. These versions are now available under extended support only:

- Atlassian Jira (Software and Core) - 7.4
- Jira Service Desk - 3.4.x, 3.5.x, 3.6
- CA Agile Central (Rally) - 2017.1
- CA PPM - 15.1
- Micro Focus ALM - 11.5 (SP2)
- Micro Focus Dimensions RM - 12.5
- Planview Enterprise One - 14, 15
- VersionOne - 18.0 (Winter 2018), 18.1 (Spring 2018)

Please reach out to your Tasktop contact if you are currently on one of the aforementioned versions and they will be able to guide you accordingly.

## Atlassian Jira

- 96286: State transitions involving the field "Sprint(s)" must be renamed to "Assigned Sprint".

## BMC Remedy

- 95314: Customers using the SOAP API to access Remedy should update their web service files to the latest as documented on the Remedy Connector Documentation page. Customers accessing Remedy through REST will not need to make any changes.

## QASymphony qTest Manager

- 95252: To resolve a performance issue, Tasktop may perform a one-time full scan of all artifacts within QASymphony collection(s) upon upgrade.

## Targetprocess

- 94237: Type limitations set in Targetprocess for custom relationship fields are now enforced during integration. If users do, in fact, want types outside of those limitations to continue to synchronize, the limitations configured within Targetprocess must be expanded.
- 95196: Integrations that write to the TestPlan field "LinkedBug" must be changed to write to the "LinkedGeneral" field instead.

## Tricentis Tosca

- 95131: Business Test Cases can no longer be created in Tosca via Tasktop integration.

# Fixes

## Tasktop Integration Hub Fixes

## Activity & Issues

- 96793: Fixed an issue where events that were no longer processing were still shown in the 'processing' tab of the Activity screen.
- 96751: Fixed an issue where e-mail notifications included an incorrect link to the Activity screen.
- 96692: Fixed an issue where some errors got retried an unlimited number of times.
- 96290: Fixed an issue where blocking errors due to offline repositories were incorrectly displayed for all integrations, rather than only the integrations those offline repositories were a part of.
- 94989: Fixed an issue where doing a bulk delete and then a bulk retry on the Activity screen could cause Tasktop to stop processing due to a database deadlock.
- 94069: Fixed an issue where troubleshooting logs incorrectly stated that changes were not applied for mapped fields when fields had synchronized successfully.
- 93692: Fixed an issue where some configuration validation errors would not resolve automatically.
- 92899: Fixed an issue where the maximum error limit was reached due to retrying 'ignored' errors.

## Artifact Filtering

- 97028: Fixed an issue where certain artifact filters caused some artifacts not to update.

## Artifact Relationship Management (ARM)

- 96904: Fixed an error related to removing and adding links with the same target.
- 95638: Fixed an issue where relationship resolution could fail when a related artifact resolves to multiple artifacts in the target system.
- 95447: Fixed an issue preventing users from mapping single relationship collection fields to multi-relationship model fields.

## Collections

- 96908: Fixed an issue where project replacements did not update any data.
- 96371: Improved performance of Project Replacements.
- 96202: Fixed an issue where changing the model of a collection could result in an error during processing.
- 96149: Fixed an issue where errors appeared for collection fields involved in multiple mappings.
- 96141: Fixed an issue with project replacements after a TFS collection GUID change.
- 95948: Fixed an issue where project replacements could not be completed.
- 95071: Fixed an issue that prevented customers from setting a constant value per project for single select fields whose IDs differed based on project (for example, in Blueprint).

- 94046: Fixed an issue where an invalid artifact prevented the field mapping and field flow screens from loading.
- 89751: The UI no longer provides an option to set a constant value for relationships (multi-relationship) fields, as this feature was never truly supported.
- 79346: Fixed a defect where project renames were not reflected on the Collection screen (under 'Manage Projects').

## Container Synchronization

- 95062: Fixed an issue where a warning was not shown on the field flow screen when a container synchronization did not have the hierarchy (parent) field mapped.

## Field Flow

- 94853: Fixed a UI issue where constant values were not properly displayed on the field flow screen.
- 94175: Fields set to "Always Update" now backsync upon artifact creation.

## Gateway

- 97577: Fixed an issue where 'not found' errors showed up in the artifact routing screen for Create via Gateway integrations.
- 97426: Fixed an issue where past activity was not tracked when a Create via Gateway integration created an artifact.
- 96590: Improved error message for bad payload transformation extensions.
- 95154: Errors during artifact creation in Create via Gateway integrations will now be automatically retried.

## Infrastructure

- 95350: Tomcat has been upgraded from version 8.5.34 to 8.5.40. This should resolve issues users may have experienced in Chrome.

## Installers

- 97129: Fixed an issue where Tasktop could not connect to IBM Rational DOORS repositories.
- 95912: Fixed an issue where OEM installations were unable to start.

## Integrations

- 97464: Fixed an issue where project options within the Initiate Synchronization dialog do not refresh when the integration routes are changed.
- 96425: Fixed an issue where the icons on the Field Flow screen did not display properly.
- 96183: Fixed an issue where artifacts did not synchronize when a collection with multiple projects and a repository query was used.

- 95745: Fixed an issue where "String to Person (by ID or Email)" does not find persons by email when transforming into the model.
- 95621: Fixed a defect where Tosca test cases under a component folder with "\" in the name were not synchronized.
- 95424: Fixed an issue where differences between available fields and field IDs between projects participating in an integration could lead to Tasktop errors.
- 95364: Fixed a problem where the back button was missing after navigating away from the routing screen.
- 95271: Fixed an issue where changes were sometimes not detected.
- 95178: Fixed an issue where the "Relationships to URLs String" transform sometimes failed.
- 89737: Fixed an issue where constant value mappings for multi select fields were incorrectly displayed on the Field Flow screen.
- 84112: Fixed an issue where the warning icon on a newly created integration would display even though the integration was valid.

## Operational Database

- 96050: Fixed an issue where "DatabaseNotAvailableException" issues could appear and block Tasktop from running for instances using MySQL as the operational database.
- 92607: Change detection now causes significantly lower load on the operational database, and administration and event processing result in fewer write operations.

## Product Upgrades

- 96775: Fixed an issue where a collection with a person reconciliation extension configured prevented Tasktop from upgrading successfully.
- 96222: Fixed an issue where duplicate integration data migration background jobs could be created during consecutive upgrades.
- 93999: Improved speed of Tasktop start-up after an upgrade when a repository is offline.

## Repositories

- 94251: Fixed an issue where a user couldn't switch from a custom authenticator to standard authentication on the repository configuration screen.

## Settings

- 96724: Fixed an issue where the test connection button on the Email Settings screen did not work in cloud environments.

## State Transitions

- 95938: Fixed an issue where state transitions would fail if a new field was added, and then synchronized to, the model of an already-running integration.

- 78550: State Transitions will be applied to the associated artifact during a synchronization if:
  • There is an extension used and any model field configured in the state transition has changed
  • There is a graph configuration and the mapped value for the field used by the graph is a different on the associated artifact as compared to the resulting value after transforming from the model

  Performing state transitions will be a separate activity from updating the artifact directly.

  *In addition*, Tasktop will try to update fields used by transitions directly if:
  • The field is required to create the artifact
  • The field is flowing as "Update Normally" or "Always Update"

## Twinless Artifact Update

- 97543: Fixed an issue where a twinless artifact update would be triggered by an artifact falling out of the repository query.
- 97100: Fixed an issue where twinless artifact update failed to trigger under certain circumstances.
- 96888: Fixed an issue where twinless update did not execute until full scan ran at least once for each side of the integration.
- 95496: Fixed an issue where twinless artifact update incorrectly caused state transitions when the status mappings were asymmetric.

## User Management

- 95958: Fixed an issue where the password field wasn't masked when being typed in on the user administration page.
- 95202: Keycloak user management has changed. Access tokens are no longer refreshed on every call; however, logout functionality now requires that Keycloak be able to contact Tasktop.

## Work Item Synchronization

- 97014: Fixed an issue where certain fields were incorrectly being detected as changed even though they were not mapped.
- 96328: Fixed an issue where errors appeared when an artifact's type was changed. Now, if a synchronized artifact's type is changed, it will silently fall out of its Tasktop integration (as it will no longer meet that integration's criteria).
- 91095: Improved error message for scenarios where an integration includes an artifact route to a deleted container.

# Connector-Specific Fixes

## Atlassian Jira

- 97214: Changed how connector handles HTML error deserialization. Complete HTML error pages will not be printed to the logs unless troubleshooting is enabled.
- 96899: Fixed an issue where inline code would come back from Jira with excessive @ symbols. Inline code should now maintain its structure when syncing back from Jira.
- 96286: Fixed an issue where sprints were unable to be updated during state transitions.
- 96014: Fixed an issue where sprints would appear as IDs instead of names when no boards were available.
- 95082: To prevent errors when saving a collection, Tasktop will set a default maximum length for Jira text fields if the associated credentials don't have administrative rights to do so.

## Blueprint

- 96246: Fixed an issue causing an excessive number of 409 "conflict" responses in the logs.

## BMC Remedy

- 96397: Added a field to the repository connection screen for Remedy REST that ensures artifact location URI points to a valid location. Please see Connector Docs for configuration details.
- 96329: Fixed an issue where the Remedy connector inaccurately reported an error with the message 'Unable to find metadata for field' when connecting via REST API.
- 95673: Fixed an issue where the 'Approval Phase Name' field in the BMC Remedy connector was incorrectly set as writable. This field is now marked as read only.

## CA Agile Central (Rally)

- 96591: Fixed an issue where changesets failed to be created if they linked to the same artifact.
- 95887: Fixed an issue where the HTTP client would fail to timeout when connecting via SSL.

## IBM Rational DOORS Next Generation

- 97498: Fixed an issue where work items with workflows were not being retrieved.

## iRise

- 96809: Fixed an issue where new artifacts or changes to iRise would not be synced if a mapped text field had more than 2000 characters.

## Jama

- 96909: Addressed an issue where Jama may fail to load projects due to a SOAP response when REST is configured on the repository.
- 94951: Fixed an issue where synchronization may fail due to nested text blocks in a rich text field.

## Micro Focus ALM Octane

- 96910: Fixed an issue where synchronizations involving certain single select fields would fail.

## Micro Focus Dimensions RM

- 97032: The 'Status' smart field now maps to 'Verification Status' for component requirements, 'Defect Status' for defects, 'State' for polls, 'Verification Status' for product requirements, and 'Test Status' for tests. All other types continue to map the 'Status' smart field to 'Current Status'.

## Microsoft Azure DevOps Server (TFS)

- 97645: Fixed an issue where the Azure DevOps (TFS) connector did not identify the standard Resolved Resolution picklist field as a single select field.
- 95233: Fixed an issue where the Azure DevOps (TFS) connector's rich text markup language name changed, leading to integration errors.

## Planview LeanKit

- 95361: Fixed an issue where mapping numeric fields in LeanKit could cause integration events to get stuck in 'processing.'
- 95061: LeanKit connector will no longer display task types which are not also configured to be cards.

## QASymphony qTest Manager

- 95909: Fixed errors in QASymphony connector where potential changing of root module to project information on the server would require application restarts.
- 95252: Fixed an issue where new custom fields added to the QASymphony UI could cause performance issues due to Tasktop erroneously detecting all artifacts as changed.
- 94780: Details about the artifact handle will now be visible in the Tasktop error message if an artifact cannot be retrieved.

## Salesforce

- 95198: Fixed an issue where a newly added Salesforce field could cause an error.
- 95197: "Modify All" and "View All" permissions are no longer required for the Tasktop user.

## ServiceNow

- 97344: Fixed an issue where Tasktop did not list single select field values if the field in ServiceNow had no dependent field specified, but did have options with dependent values.
- 97128: Fixed an issue where ServiceNow returns an unencoded next-page URL during change detection which caused the connector to be unable to request the next page.
- 97111: Fixed an issue where errors would occur due to insufficient permissions or an invalid user set as a person field on an artifact.
- 96729: Fixed an issue where artifact retrieval failed if a dependent required field was empty.
- 96680: Fixed an issue where empty attachments caused parsing errors during artifact retrieval.
- 95385: ServiceNow 'priority' field on incidents is no longer assumed to be read only.

## Targetprocess

- 97133: Fixed an issue where having a custom field called 'Type' in TargetProcess would cause integrations to fail.
- 94760: Fixed an issue where some artifacts with custom relationships could not be retrieved.
- 94237: Fixed an issue where type limitations set in Targetprocess for custom relationship fields were not enforced, allowing relationships to ineligible types to synchronize to Targetprocess.

## Tricentis Tosca

- 95131: Fixed an issue where unsupported Business Test Cases could be created in Tosca via integration.

## VersionOne

- 96066: Reduced Tasktop load on VersionOne by making change detection improvements.

# Features

## Tasktop Integration Hub Features

## Activity & Issues

- 91477: 'Data Migration' and 'Integration Data Migration' job type filters consolidated into a single 'Tasktop Upgrades' filter in the 'Background Jobs' view.

## Collections

- 96442: Improved the performance of project refresh.

## Integrations

- 96390: Added a button on the integration screen to trigger full scans for specific projects.
- 91873: Test Step synchronization is now supported for ALM artifacts.

## Misc

- 97010: Health checks are now available via public API.

## Product Upgrades

- 95744: All integrations are now automatically prevented from processing until all migrations finish. On premise customers can choose to resume integrations individually.
- 95742: The event trace is now logged to a separate log file during migrations.

## Settings

- 95164: Email notifications can now be configured on Tasktop Cloud.

## Twinless Artifact Update

- 96275: Users can now choose to have all fields synchronize from an artifact to its twin upon re-entering the integration.

# Connector-Specific Features

## Aras Innovator

- 96923: Aras Innovator connector is now available on Tasktop Integration Hub.

## Atlassian Jira

- 96701: Atlassian Crowd enabled SSO authentication is now supported for Jira.
- 96186: Added support for Jira Service Desk version 4.2.
- 96184: Added support for Jira Core and Jira Software version 8.2.
- 94509: Added support for Jira Service Desk 4.1.
- 92858: Added support for Jira Service Desk version 4.0.
- 88266: Added support for Jira Data Center. Please see connector docs for configuration details.

## Blueprint

- 95625: Added support for Blueprint 10.1 (with Storyteller 4.1).

# BMC Remedy

- 97115: Reduces change detection paging size to reduce payload retrieved and thus load on the server.
- 97065: Added support for the use of Smart IT URLs for the artifact location field in Remedy. Please see Connector Docs for configuration details.
- 96058: An integration with BMC Remedy Change artifacts using the REST API no longer requires customization of the Change Interface form.
- 95715: Comments that are submitted via e-mail will no longer be excluded from synchronization. Users may see old e-mail generated comments synchronize if other integration-triggering changes are made to the artifacts that contain them.
- 95322: Field names in Tasktop will now match the field names in the Remedy UI, rather than the database names for each field. Note that this applies to Remedy version 18.08 or higher, and requires a REST API connection. See Connector Documentation for further information.
- 95314: Added read-only support for InstanceId and Submitter fields on Remedy Change and Problem artifacts.
- 94819: Support for REST has been added to the BMC Remedy Connector. In order to connect to a Remedy repository using a REST API instead of SOAP API, 'Use REST API' must be checked on the repository connection screen. Please refer to connector documentation for further information.
- 93355: Added support for BMC Remedy version 19.02.
- 91126: Tasks are now supported as a work item. See Connector Docs for more information.

# CA PPM

- 93621: Added support for CA PPM version 15.6.

# codeBeamer ALM

- 96798: Added support for codeBeamer ALM version 9.4.
- 92609: Added support for codeBeamer ALM version 9.3.

# GitHub Issues

- 95129: Added support for Personal Access Token authentication.

# GitLab Issues

- 96188: Added support for GitLab version 11.11.
- 95637: Added support for GitLab version 11.10.

# IBM Rational Team Concert

- 95534: The IBM Rational Team Concert connector provides an authenticator for Kerberos/SPNEGO SSO.

## iRise

- 94695: The iRise connector now references a newly added field property to determine whether a field is read-only or not.

## Jama

- 96510: Added support for Jama Connect version 8.38.

## Micro Focus ALM Octane

- 96289: Added support for Micro Focus ALM Octane version 12.60.47.

## Micro Focus PPM

- 96396: Added support for Micro Focus PPM version 9.53.

## Mozilla Bugzilla

- 95636: Added support for Bugzilla version 5.0.6.
- 95635: Added support for Bugzilla version 5.0.5.

## Planview Enterprise

- 97019: The Worklog Submission Status field on the repository connection screen is now optional.
- 95427: Planview worklogs can now be submitted with either "Approved" or "Entered" status.

## PTC Windchill

- 95080: PTC Windchill connector is now available in Tasktop Integration Hub.

## QASymphony qTest Manager

- 95632: Added support for QASymphony qTest Manager version 9.6.1.

## SmartBear QAComplete

- 96890: Added support for Smartbear QAComplete version 12.20.
- 96288: Added support for Smartbear QAComplete version 12.14.
- 95633: Added support for Smartbear QAComplete version 12.13.

# Targetprocess

- 95196: TestPlan now links to types besides Bug by using the new "LinkedGeneral" field.

# Tricentis Tosca

- 96182: Added support for Tricentis Tosca version 12.2.
- 92896: Added support for Tricentis Tosca version 12.1.
- 90149: Added Support for Tricentis Tosca version 12.0.

# VersionOne

- 95634: Added support for VersionOne Spring 2019.

# Tasktop Release Notes - 19.3.0.20190625-b799

*Posted: June 26, 2019*

- Upgrade Notes
  - Connector-Specific Upgrade Notes
    - Atlassian Jira
- Fixes
  - Tasktop Integration Hub Fixes
    - Activity & Issues
    - Collections
    - Field Flow
    - Gateway
    - Integrations
    - Operational Database
    - Product Upgrades
    - Repositories
    - Settings
    - Twinless Artifact Update
    - Work Item Synchronization
  - Connector-Specific Fixes
    - Atlassian Jira
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- Features
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    - Atlassian Jira
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    - codeBeamer ALM
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    - iRise
    - Jama
    - Micro Focus PPM
    - Mozilla Bugzilla
    - SmartBear QAComplete
    - Tricentis Tosca

# Upgrade Notes

## Connector-Specific Upgrade Notes

### Atlassian Jira

- 96286: State transitions involving the field "Sprint(s)" must be renamed to "Assigned Sprint".

# Fixes

## Tasktop Integration Hub Fixes

### Activity & Issues

- 96793: Fixed an issue where events that were no longer processing were shown in the 'processing' tab of the Activity screen.
- 96751: Fixed an issue where e-mail notifications included an incorrect link to the Activity screen.

### Collections

- 96202: Fixed an issue where changing the model of a collection could result in an error during processing.
- 96141: Fixed an issue with project replacements after a TFS collection GUID change.
- 95071: Fixed an issue that prevented customers from setting a constant value per project for single select fields whose IDs differed based on project (for example, in Blueprint).

### Field Flow

- 94175: Fields set to "Always Update" now backsync upon artifact creation.

### Gateway

- 96590: Improved error message for bad payload transformation extensions.

### Integrations

- 96425: Fixed an issue where the icons on the Field Flow screen did not display properly.
- 96183: Fixed an issue where artifacts did not synchronize when a collection with multiple projects and a repository query was used.

### Operational Database

- 94747: Processing of operational data (like events), will use less memory.

## Product Upgrades

- 96775: Fixed an issue where a collection with a person reconciliation extension configured prevented Tasktop from upgrading successfully.
- 96222: Fixed an issue where duplicate integration data migration background jobs could be created during consecutive upgrades.

## Repositories

- 94251: Fixed an issue where a user couldn't switch from a custom authenticator to standard authentication on the repository configuration screen.

## Settings

- 96724: Fixed an issue where the test connection button on the Email Settings screen did not work in cloud environments.

## Twinless Artifact Update

- 95496: Fixed an issue where twinless artifact update incorrectly caused state transitions when the status mappings were asymmetric.

## Work Item Synchronization

- 96328: Fixed an issue where errors appeared when an artifact's type was changed. Now, if a synchronized artifact's type is changed, it will silently fall out of its Tasktop integration (as it will no longer meet that integration's criteria).
- 91095: Improved error message for scenarios where an integration includes an artifact route to a deleted container.

# Connector-Specific Fixes

## Atlassian Jira

- 96286: Fixed an issue where sprints were unable to be updated during state transitions.
- 96014: Fixed an issue where sprints would appear as IDs instead of names when no boards were available.

## Blueprint

- 96246: Fixed an issue causing an excessive number of 409 "conflict" responses in the logs.

## BMC Remedy

- 96397: Fixed an issue where the artifact location URI pointed to an invalid location.

- 96329: Fixed an issue where the Remedy connector inaccurately reported an error with the message 'Unable to find metadata for field' when connecting via REST API.

### iRise

- 96809: Fixed an issue where new artifacts or changes to iRise would not be synced if a mapped text field had more than 2000 characters.

### QASymphony qTest Manager

- 95909: Fixed errors in QASymphony connector where potential changing of root module to project information on the server would require application restarts.

### ServiceNow

- 96680: Fixed an issue where empty attachments caused parsing errors during artifact retrieval.

# Features

## Tasktop Integration Hub Features

### Collections

- 96442: Improved the performance of project refresh.

### Integrations

- 96443: Improved the performance of the Artifact Routing screen.

## Connector-Specific Features

### Atlassian Jira

- 96186: Added support for Jira Service Desk version 4.2.
- 94509: Added support for Jira Service Desk 4.1.
- 92858: Added support for Jira Service Desk version 4.0.

### BMC Remedy

- 93355: Added support for BMC Remedy version 19.02.

### codeBeamer ALM

- 96798: Added support for codeBeamer ALM version 9.4.

## IBM Rational Team Concert

- 95534: The IBM Rational Team Concert connector provides an authenticator for Kerberos /SPNEGO SSO.

## iRise

- 94695: The iRise connector now references a newly added field property to determine whether a field is read-only or not.

## Jama

- 96510: Added support for Jama Connect version 8.38.

## Micro Focus PPM

- 96396: Added support for Micro Focus PPM version 9.53.

## Mozilla Bugzilla

- 95635: Added support for Bugzilla version 5.0.5.

## SmartBear QAComplete

- 96288: Added support for Smartbear QAComplete version 12.14.

## Tricentis Tosca

- 96182: Added support for Tricentis Tosca version 12.2.
- 92896: Added support for Tricentis Tosca version 12.1.

# Tasktop Release Notes - 19.3.0.20190603-b773

*Posted: June 07, 2019*

## Upgrade Notes

## Tasktop Integration Hub Upgrade Notes

### User Management

- 95202: Keycloak user management's logout functionality has changed.

  All customers must follow instructions listed here to prevent errors that could stop Tasktop pages from loading or prevent users from logging out of Tasktop.

Customers who have installed their own self-signed TLS certificates (or any certificates not from an up-to-date root certificate registrar) for Tasktop's Tomcat instance, replacing the `insecureKeystore` shipped with Tasktop, will need to modify Keycloak's configuration file to tell it to trust Tomcat's keystore. Please see the administration configuration guide (https://docs.tasktop.com/cd/user-guide/installation-primer/installation#Installation-ConfigureKeycloakUserManagementtouseandtrustTasktop'skeystore) for more details

Certificates from an authoritative registrar do not require this configuration. In the case of such certificates being installed, the XML configuration block specifying the keystore for Keycloak's outgoing HTTPS connections should be removed from Keycloak's configuration file because it would then specify a keystore that cannot be used to authenticate the Tomcat install.

# Fixes

## Tasktop Integration Hub Fixes

### Activity & Issues

- 96290: Fixed an issue where blocking errors due to offline repositories were incorrectly displayed for all integrations, rather than only the integrations those offline repositories were a part of.
- 94989: Fixed an issue where doing a bulk delete and then a bulk retry on the Activity screen could cause Tasktop to stop processing due to a database deadlock.

### Collections

- 96371: Improved performance of Project Replacements.
- 96149: Fixed an issue where errors appeared for collection fields involved in multiple mappings.
- 96141: Fixed an issue with project replacements after a TFS collection GUID change.
- 95948: Fixed an issue where project replacements could not be completed.
- 89751: The UI no longer provides an option to set a constant value for relationships (multi-relationship) fields, as this feature was never truly supported.

### Integrations

- 95745: Fixed an issue where "String to Person (by ID or Email)" does not find persons by email when transforming into the model.
- 95424: Fixed an issue where differences between available fields and field IDs between projects participating in an integration could lead to Tasktop errors.
- 95364: Fixed a problem where the back button was missing after navigating away from the routing screen.

### Operational Database

- 96050: Fixed an issue where "DatabaseNotAvailableException" issues could appear and block Tasktop from running for instances using MySQL as the operational database.

## User Management

- 95202: Keycloak user management has changed. Access tokens are no longer refreshed on every call; however, logout functionality now requires that Keycloak be able to contact Tasktop.

# Connector-Specific Fixes

## Salesforce

- 95198: Fixed an issue where a newly added Salesforce field could cause an error.

## VersionOne

- 96066: Reduced Tasktop load on VersionOne by making change detection improvements.

# Features

## Tasktop Integration Hub Features

### Product Upgrades

- 95744: All integrations are now automatically prevented from processing until all migrations finish. On premise customers will be able manually to resume their integrations.
- 95742: The event trace is now logged to a separate log file during migrations

### Twinless Artifact Update

- 96275: Users can now choose to have all fields synchronize from an artifact to its twin upon re-entering the integration.

## Connector-Specific Features

### Atlassian Jira

- 88266: Added support for Jira Data Center.  Please see connector docs for configuration details.

### BMC Remedy

- 96058: An integration with BMC Remedy Change artifacts using the REST API no longer requires customization of the Change Interface form.

## codeBeamer ALM

- 92609: Added support for codeBeamer ALM version 9.3.

## Mozilla Bugzilla

- 95636: Added support for Bugzilla version 5.0.6.

## Planview Enterprise

- 95427: Planview worklogs can now be submitted with either "Approved" or "Entered" status.

## VersionOne

- 95634: Added support for VersionOne Spring 2019.

# Tasktop Release Notes - 19.3.0.20190520-b756

*Posted: May 21, 2019*

- Upgrade Notes
  - Tasktop Integration Hub Upgrade Notes
    - Operational Database
    - State Transitions
  - Connector-Specific Upgrade Notes
    - General (Services)
    - BMC Remedy
    - QASymphony qTest Manager
    - Targetprocess
    - Tricentis Tosca
- Fixes
  - Tasktop Integration Hub Fixes
    - Activity & Issues
    - Artifact Relationship Management (ARM)
    - Collections
    - Gateway
    - Infrastructure
    - Installers
    - Integrations
    - Product Upgrades
    - State Transitions
  - Connector-Specific Fixes
    - BMC Remedy
    - Microsoft Azure DevOps Server (TFS)
    - Planview LeanKit
    - QASymphony qTest Manager
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- Features
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  - Connector-Specific Features
    - Blueprint
    - BMC Remedy
    - CA PPM
    - GitLab Issues

- [QASymphony qTest Manager](#)
- [SmartBear QAComplete](#)
- [Targetprocess](#)

# Upgrade Notes

## Tasktop Integration Hub Upgrade Notes

### Operational Database

- 94263: The following Operational Database and Browser versions are no longer available under Tasktop's general support. These versions are now available under extended support only:
  - Browser: Chrome 50.0 – 72.x; Firefox 46.0 – 60.x
  - Database: MS SQL Server: 2008, 2012; MySQL: 5.5+; Oracle: 11

  Please reach out to your Tasktop contact if you are currently on one of the aforementioned versions and they will be able to guide you accordingly.

### State Transitions

- 78550: Customers who have state transitions configured to fields which are required to create an artifact may see errors asking them to fully map all values for those fields, or to create a constant value mapping so that Tasktop can create artifacts in their collection.

  Tasktop may also try to update fields used by state transitions directly (and may subsequently generate an error) if the field flow for those fields has been changed to "Update Normally" or "Update Always".

## Connector-Specific Upgrade Notes

### General (Services)

- 94974: The following Vendor repository versions are no longer available under Tasktop's general support. These versions are now available under extended support only:

- CA Agile Central (Rally) - 2014.1, 2014.2, 2014.3, 2015.1, 2015.2, 2016.1
- CA PPM - 14.4, 15.1
- IBM Rational DOORS Next Generation (IBM RRC) - 5.0, 5.0.1, 5.0.2
- IBM Rational Quality Manager - 5.0, 5.0.1, 5.0.2
- IBM Rational Team Concert - 5.0, 5.0.1, 5.0.2
- Jama Connect - 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14
- Micro Focus Dimensions RM - 12.1.1, 12.2, 12.2.1, 12.3, 12.4, 12.4.1
- Micro Focus Solutions Business Manager - 10.1.3, 10.1.4, 10.1.4.1, 10.1.5, 10.1.5.1, 10.1.5.2
- ServiceNow: IT Service Management and IT Business Management (Agile Development/SDLC, PPM) - Jakarta On Demand
- VersionOne - 17.3 (Fall 2017)

Please reach out to your Tasktop contact if you are currently on one of the aforementioned versions and they will be able to guide you accordingly.

## BMC Remedy

- 95314: Customers using the SOAP API to access Remedy should update their web service files to the latest as documented on the Remedy Connector Documentation page. Customers accessing Remedy through REST will not need to make any changes.

## QASymphony qTest Manager

- 95252: To resolve a performance issue, Tasktop may perform a one-time full scan of all artifacts within QASymphony collection(s) upon upgrade.

## Targetprocess

- 95196: Integrations that write to the TestPlan field "LinkedBug" must be changed to write to the "LinkedGeneral" field instead.

## Tricentis Tosca

- 95131: Business Test Cases can no longer be created in Tosca via Tasktop integration.

# Fixes

## Tasktop Integration Hub Fixes

## Activity & Issues

- 94069: Fixed an issue where troubleshooting logs incorrectly stated that changes were not applied for mapped fields when fields had synchronized successfully.
- 92899: Fixed an issue where the maximum error limit was reached due to retrying 'ignored' errors.

## Artifact Relationship Management (ARM)

- 95447: Fixed an issue preventing users from mapping single relationship collection fields to multi-relationship model fields.

## Collections

- 79346: Fixed a defect where project renames were not reflected on the Collection screen (under 'Manage Projects').

## Gateway

- 95154: Errors during artifact creation in Create via Gateway integrations will now be automatically retried.

## Infrastructure

- 95350: Tomcat has been upgraded from version 8.5.34 to 8.5.40. This should resolve issues users may have experienced in Chrome.

## Installers

- 95912: Fixed an issue where OEM installations were unable to start.

## Integrations

- 95271: Fixed an issue where changes were sometimes not detected.
- 89737: Fixed an issue where constant value mappings for multi select fields were incorrectly displayed on the Field Flow screen.
- 84112: Fixed an issue where the warning icon on a newly created integration would display even though the integration was valid.

## Product Upgrades

- 93999: Improved speed of Tasktop start-up after an upgrade when a repository is offline.

## State Transitions

- 95938: Fixed an issue where state transitions would fail if a new field was added, and then synchronized to, the model of an already-running integration.

- 78550: State Transitions will be applied to the associated artifact during a synchronization if:
  • There is an extension used and any model field configured in the state transition has changed
  • There is a graph configuration and the mapped value for the field used by the graph is a different on the associated artifact as compared to the resulting value after transforming from the model

  Performing state transitions will be a separate activity from updating the artifact directly.

  *In addition*, Tasktop will try to update fields used by transitions directly if:
  • The field is required to create the artifact
  • The field is flowing as "Update Normally" or "Always Update"

# Connector-Specific Fixes

## BMC Remedy

- 95673: Fixed an issue where the 'Approval Phase Name' field in the BMC Remedy connector was incorrectly set as writable. This field is now marked as read only.

## Microsoft Azure DevOps Server (TFS)

- 95233: Fixed an issue where the Azure DevOps (TFS) connector's rich text metadata changed leading to integration errors.

## Planview LeanKit

- 95361: Fixed an issue where mapping numeric fields in LeanKit could cause integration events to get stuck in 'processing.'

## QASymphony qTest Manager

- 95252: Fixed an issue where new custom fields added to the QASymphony UI could cause performance issues due to Tasktop erroneously detecting all artifacts as changed.
- 94780: Details about the artifact handle will now be visible in the Tasktop error message if an artifact cannot be retrieved.

## Salesforce

- 95197: "Modify All" and "View All" permissions are no longer required for the Tasktop user.

## ServiceNow

- 95385: ServiceNow 'priority' field on incidents is no longer assumed to be read only.

## Tricentis Tosca

- 95131: Fixed an issue where unsupported Business Test Cases could be created in Tosca via integration.

# Features

## Tasktop Integration Hub Features

### Activity & Issues

- 91477: 'Data Migration' and 'Integration Data Migration' job type filters consolidated into a single 'Tasktop Upgrades' filter in the 'Background Jobs' view.

### Integrations

- 91873: Test Step synchronization is now supported for ALM artifacts.

## Connector-Specific Features

### Blueprint

- 95625: Added support for Blueprint 10.1 (with Storyteller 4.1).

### BMC Remedy

- 95715: Comments that are submitted via e-mail will no longer be excluded from synchronization. Users may see old e-mail generated comments synchronize, if other integration-triggering changes are made to the artifacts that contain them.
- 95322: Field names in Tasktop will now match the field names in the Remedy UI, rather than the database names for each field. Note that this applies to Remedy version 18.08 or higher, and requires a REST API connection. See Connector Documentation for further information.
- 95314: Added read-only support for InstanceId and Submitter fields on Remedy Change and Problem artifacts.

### CA PPM

- 93621: Added support for CA PPM version 15.6.

### GitLab Issues

- 95637: Added support for GitLab version 11.10.

# QASymphony qTest Manager

- 95632: Added support for QASymphony qTest Manager version 9.6.1.

# SmartBear QAComplete

- 95633: Added support forSmartbear QAComplete version 12.13.

# Targetprocess

- 95196: TestPlan now links to types besides Bug by using the new "LinkedGeneral" field.