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## 4.3 Release Notes

- Tasktop Sync Release Notes 4.3.11
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- Tasktop Sync Release Notes 4.3.2
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- Tasktop Sync Release Notes 4.3.0

Sync Version 4.3.11

### **Connector-Specific Fixes**

- Atlassian JIRA
  - 38715 Atlassian JIRA connector now supports fields like "watchers", "comments", and custom single-selects on Atlasssian JIRA OnDemand and Atlasssian JIRA 7.1.0.

Sync Version 4.3.10

### **Fixes**

- Serena Business Manager (SDK)
  - 37109 Not attempting to retrieve group values in fields where users and groups can be assigned.

### Sync Version 4.3.9

### **Fixes**

#### HP ALM

- 36424 Fixed an issue with repeated attachment synchronization of .url attachments by disallowing them to be written to HP ALM.
- HP ALM 11, Quality Center 10, and Agile Manager (pre 3.5)
  - 36411 Fixed an issue interpreting a response when in item is locked and treats it as a midair collision when using HP ALM 12.2.
- IBM Rational Team Concert
  - 35814 Fixed an issue with unassigned User ID field under the Additional Settings section of IBM RTC repository properties dialog.
- Microsoft Team Foundation Server (SDK)
  - 36401 Fixed an issue where failure in retrieving authenticated user information prevents artifact retrieval.
- Serena Business Manager (SDK)
  - 36429 Fixed an issue where creation date values were missing.

### Sync Version 4.3.8

### **Fixes**

- IBM DOORS
  - 35689 Fixed an issue where querying views with duplicate IDs caused an error.

### IBM RLIA 1.1.4.0-ifix01

### **Upgrade Notes**

- IBM Rational ClearQuest (SDK)
  - 35114 The IBM Rational ClearQuest Connector will now always execute the MODIFY action labelled "Modify" when updating an artifact. Users must ensure that all artifact types they want to work with have one MODIFY action named "Modify".

### **Fixes**

- Sync Fixes
  - 35416 Fixed No More Handles issue stemming from Connector branding image duplication.
- IBM Rational Team Concert
  - 34701 Fixes an issue where users that are not members of a project or project team cannot be used to post comments.
- IBM Rational Team Concert (SDK)

- 34644 RTC connector now detects expired authentication states.
- 35467 Fixes an issue where the Rational Team Concert Connector was not properly detecting stale sessions and failing to re-authenticate.
- 35445 To limit returned queries, the Rational Team Concert Connector will now only retrieve queries created by the authenticated user.

#### • IBM Rational ClearQuest (SDK)

- 35659 The ClearQuest connector will no longer follow references when attempting to fetch options for reference based single-select fields.
- 35114 Fixed an issue where the IBM Rational ClearQuest connector would fail to update an artifact when the artifact type was configured with more than one MODIFY action.

#### Microsoft Team Foundation Server (SDK)

• 35400 - Fixed an issue where saving an artifact in "Removed" state would cause an error.

### Sync Version 4.3.7

### **Upgrade Notes**

#### IBM Rational ClearQuest (SDK)

 35114 - The IBM Rational ClearQuest Connector will now always execute the MODIFY action labelled "Modify" when updating an artifact. Users must ensure that all artifact types they want to work with have one MODIFY action named "Modify".

#### **Fixes**

#### Sync Fixes

35416 - Fixed No More Handles issue stemming from Connector branding image duplication.

#### IBM Rational ClearQuest (SDK)

- 35659 The ClearQuest connector will no longer follow references when attempting to fetch options for reference based single-select fields.
- 35114 Fixed an issue where the IBM Rational ClearQuest connector would fail to update an artifact when the artifact type was configured with more than one MODIFY action.

#### IBM Rational Team Concert (SDK)

- 35467 Fixes an issue where the Rational Team Concert Connector was not properly detecting stale sessions and failing to re-authenticate.
- 35445 To limit returned queries, the Rational Team Concert Connector will now only retrieve queries created by the authenticated user.

### Sync Version 4.3.6

### **Fixes**

- IBM DOORS
  - 33256 Improved error handling of DOORS Connector artifact retrieval.
- Microsoft Team Foundation Server (SDK)
  - 35400 Fixed an issue where saving an artifact in "Removed" state would cause an error.
- ServiceNow Service Desk
  - 35656 Fixed an issue where ServiceNow items were not being returned when using certain instances of ServiceNow Fuji.

### Sync Version 4.3.5

### **Upgrade Notes**

Connector-Specific Upgrade Notes

#### Jama (SDK)

• 35119 - Sync users utilizing the Jama connector will need to update the Jama repository schema.

### **Fixes**

#### Atlassian JIRA

• 34605 - Fixed an issue where artifacts with a CLOSED status caused several single-select /multi-select fields to have no options.

#### HP ALM

 35307 - Fixed an issue where HP ALM artifact's last modified dateTime will show the wrong value.

#### IBM DOORS

 34856 - Fixed an issue where where the connector did not detect out/in link changes resulting in empty links.

#### IBM Rational Team Concert (SDK)

- 34910 Fixed an issue where a userID case sensitivity mismatch between the RTC connector and the server caused submission failures.
- 34803 Fixed an issue where an existing comment with an apostrophe causes an error when a new comment is written to the work item.
- 34699 Fixed an issue where comment errors trigger endless synchronizations due to invalid comment authors.

#### Jama (SDK)

• 35119 - Fixed an issue where incorrect values were sometimes displayed for pick list fields.

#### Serena Business Manager (SDK)

- 34815 Fixed an issue showing options for proxy attributes.
- ServiceNow Service Desk

•	34955 - Fixed an issue that prevent configurations.	ted retrieval of Pro	oblem and Incident a	rtifacts with specific

### Sync Version 4.3.4

### **Fixes**

- IBM Rational Team Concert
  - 34701 Fixes an issue where users that are not members of a project or project team cannot be used to post comments.
- IBM Rational Team Concert (SDK)
  - 34644 RTC connector now detects expired authentication states.

### **Features**

- Server
  - 34349 Introduced configuration which allows users to validate the authors of comments and attachments.

### Sync Version 4.3.3

### **Connector-Specific Fixes**

- IBM Rational ClearQuest (SDK)
  - 34371 Fixes an issue where new options for single select fields can cause ClearQuest artifact retrieval to fail.
- IBM Rational Team Concert (SDK)
  - 34311 Fixes an issue where retrieving an artifact can cause an error (related to sorting Iterations).

### IBM RLIA Tasktop Edition Version 1.1.4.0

### **Upgrade Notes**

# Upgrading from the Previous Version of Sync Sync Upgrade Notes

• 31184 - Groovy scripts involving transition attributes may need to be updated to ignore further changes upon transition.

### 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\_45-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 ar tifacts 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

- 31924 Sync now checks for the repository and password before upgrading a connector.
- 31756 Misconfigured queries are no longer run during schema refresh.
- 31546 Resolved an issue where long scopes may result in filenames which are too long to write to the file system.
- 31296 Resolved an issue causing multiple repository lds to be created when defining a new Repository Connection in the QuickStart wizard.
- 31184 Tasktop Sync attribute handler scripts can now set attributes to be ignored during a synchronization cycle.
- 30729 Fixed an issue where task retrieval may fail if users were missing display names.
- 30381 Fixed character encoding issue in OLSC rich hover.
- 30345 Fixed a connector migration issue where connector is referenced by mapping templates containing scope configuration.
- 30017 Fixed OSLC rich hover issue resulting from a '&' character in summary field.

- 29622 Fixed an issue where attributes marked for sync again would be forgotten when a task enters the error or pending state.
- 26576 Improved performance when many attribute handlers are present in a configuration.
- 22654 Errors stemming from connection to repository now more visible in Quick Start wizard.
- 34037 Sync will apply any mapping whose strategy is "Apply Always" during every submission.
- 33383 Fixed an issue where template mappings would fail to load the attribute mapping editor.

### **Connector-Specific Fixes**

#### CA Clarity PPM

 28374 - Fixed an issue with timesheet entry precision to avoid synchronization errors based on rounding issues for small amounts of work logged.

#### CA Clarity PPM (SDK)

• 31993 - Fixed an issue Formatted ID field templates for creation and artifact schemas.

#### HP ALM 11, Quality Center 10, and Agile Manager (pre 3.5)

• 30370 - Added Issue ID to comment parsing error messages.

#### HP ALM

33695 - Fixed support for Latin character encodings in attachment file names.

#### IBM Rational Requirements Composer (SDK)

- 32215 Fixed an issue that caused links to be removed when a non-link field is being updated on a Requirement.
- 31816 Fixed an issue where updating a locked requirement silently failed.
- 31621 Fixed an issue when the artifact format type was unrecognized. Remaining artifacts are processed normally.
- 31321 Fixed an issue with internal and external OSLC defined multi-artifact links being lost after update to a non-link field.
- 26259 Fixed an issue where a 401 authentication error was generated when specific links were present.
- 33881 Fixed handling of writes to locked resources in Rational Requirements Composer 6.0.

#### IBM Rational Team Concert (SDK)

- 28149 Fixed an issue validating repository URL to ensure that repository services can be accessed.
- 33376 Fixed Rational Team Concert Connector support for servers hosted with WebSphere Application Server.

#### IBM Rational Team Concert

 32858 - Fixed comment impersonation issue when user is part of a project team, but not the project itself.

#### Microsoft Team Foundation Server (SDK)

- 32059 Reduced the log level about invalid user accounts, duplicate display names and unusable collections to TRACE.
- 31565 Improved performance of artifact retrieval.
- 31554 Fixed an issue where required severity field caused failure.
- 31517 Added logging for all exceptions thrown by TFS client.
- 30568 Fixed an issue that caused the retrieval of artifact to fail if a person field had an invalid user value (e.g. a group).

33707 - Fixed retrieval of work items that have web links with invalid URI characters.

#### Rally

32084 - Fixed an issue when a user is a member of multiple workspaces.

#### Serena Business Manager (SDK)

32058 - Fixed and issue with privilege errors for single and multi-select fields.

#### VersionOne

- 32394 Fixed an issue detecting authentication timeouts and automatically retrigger.
- 31982 Fixed an issue with NTLM handshake timeouts.
- 29893 Added support for artifacts with a Creator that no longer exist (e.g., has been deleted from the server).

#### **Features**

#### Bridge

- 31204 Improved caching performance during repository configuration update.
- 29989 The AutoComment user will be used when synchronizing comments and/or attachments and the corresponding user cannot be found in the target repository.

#### General

 30483 - Single Person fields may now be mapped to single or multi person fields. Multi-Person fields may now be mapped to Single Person fields provided the Multi-Person field contains no more than one person.

#### Server

- 31555 Added the "external-value-map" caster for using properties files to map attribute options.
- 31205 A job can now be scheduled to periodically refresh the repository configuration.
- 31194 A job that will periodically refresh the repository schema can now be scheduled.
- 30365 Query and Task Change detection jobs can be configured using cron expressions.
- 29781 User can now see information about person search support on the Schema page for a repository.
- 29780 Users can now define person mappings which map persons using person attributes.
- 29776 A "Task Link to OSLC Link" Caster is now available which will synchronize links to artifacts as OSLC links in OSLC compliant servers enabling rich hovers.
- 27974 Sync instances can be named, and this name will be visible in emails, Studio and the web.
- 21120 Statistics Email and Metrics Email can now be scheduled via new contrab schedule capability.

#### Studio

- 31556 User Interface added for External Value Mapping Caster.
- 31039 Attribute Handlers are now visible in the Mapping Editor.
- 30366 Users may now configure scheduled jobs using the task mapping editor overview page.
- 29991 Attribute IDs are now displayed alongside attribute labels in the mapping editor.
- 29988 The Services view can now be filtered by entering filter text in new find box, along with additional expand and collapse options.

### Sync Version 4.3.2

### **Sync Fixes**

- 34037 Sync will apply any mapping whose strategy is "Apply Always" during every submission.
- 33383 Fixed an issue where template mappings would fail to load the attribute mapping editor.

### **Connector-Specific Fixes**

- IBM Rational Team Concert (SDK)
  - 33376 Fixed Rational Team Concert Connector support for servers hosted with WebSphere Application Server.
- Microsoft Team Foundation Server (SDK)
  - 33707 Fixed retrieval of work items that have web links with invalid URI characters.

### **Features**

- HP ALM
  - 33695 Fixed support for Latin character encodings in attachment file names.
- IBM Rational Requirements Composer (SDK)
  - 33881 Fixed handling of writes to locked resources in Rational Requirements Composer 6.0.

### Sync Version 4.3.1

### **Connector-Specific Fixes**

- IBM DOORS
  - 32857 Fixed an issue preventing schema/artifact retrieval in case a single select attribute had a duplicate entry.
- IBM Rational Team Concert
  - 32858 Fixed comment impersonation issue when user is part of a project team, but not the project itself.
- Jama (SDK)
  - 32859 Fixed a timeout issue when retrieving large lists of sets.

### **Upgrade Notes**

# Upgrading from the Previous Version of Sync Sync Upgrade Notes

 31184 - Groovy scripts involving transition attributes may need to be updated to ignore further changes upon transition.

### **Connector-Specific Upgrade Notes**

#### **IBM DOORS**

- 31539 Upgrade Notes: Summary field id has been changed to avoid potential conflicts with user defined attributes. If the field is used in your mapping, you need to reselect it.
- 23402 Upgrade Notes: Summary, Object Heading and Object Short Text are RichText fields now and may require a caster to be specified.

### Jama (SDK)

• 30408 - Upgrade Notes: When upgrading to this version, users will need to: \* Update their Jama repository schemas (they should be prompted to do so when Sync starts) \* Update any queries that were previously set-specific searches. Set-specific search has been replaced by project-specific search. \* Map the 'Set' field in their mappings. 'Set' is now a required field and is no longer part of the artifact scope.

### System Requirements

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- Windows Server 2007
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- SUSE Linux Enterprise Server 11 (GTK2 and X Windows required)

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- 4 GB system memory
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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 ar tifacts and over 1,000 active users.

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

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#### **Fixes**

### **Sync Fixes**

- 31924 Sync now checks for the repository and password before upgrading a connector.
- 31756 Misconfigured queries are no longer run during schema refresh.
- 31546 Resolved an issue where long scopes may result in filenames which are too long to write to the file system.
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- 31184 Tasktop Sync attribute handler scripts can now set attributes to be ignored during a synchronization cycle.
- 30729 Fixed an issue where task retrieval may fail if users were missing display names.
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- 30017 Fixed OSLC rich hover issue resulting from a '&' character in summary field.
- 29622 Fixed an issue where attributes marked for sync again would be forgotten when a task enters the error or pending state.
- 26576 Improved performance when many attribute handlers are present in a configuration.
- 22654 Errors stemming from connection to repository now more visible in Quick Start wizard.

### **Connector-Specific Fixes**

- Blueprint (SDK)
  - 30261 Fixed an issue detecting when linked artifacts are not found.
  - 30246 Fixed an issue detecting authentication exceptions due to timeouts and retry requests when found.
- CA Clarity PPM
  - 28374 Fixed an issue with timesheet entry precision to avoid synchronization errors based on rounding issues for small amounts of work logged.
- CA Clarity PPM (SDK)
  - 31993 Fixed an issue Formatted ID field templates for creation and artifact schemas.

#### HP ALM 11, Quality Center 10, and Agile Manager (pre 3.5)

30370 - Added Issue ID to comment parsing error messages.

#### IBM DOORS

- 32519 Updated Summary field ID to avoid potential conflicts with user defined attributes.
- 31095 Fixed an issue that caused the update of an artifact to fail if a non-standard view was set as default.
- 30724 Fixed an issue where items could not be retrieved when attributes in the module had the same name but different types and/or option values.

#### IBM Rational Requirements Composer (SDK)

- 32215 Fixed an issue that caused links to be removed when a non-link field is being updated on a Requirement.
- 31816 Fixed an issue where updating a locked requirement silently failed.
- 31621 Fixed an issue when the artifact format type was unrecognized. Remaining artifacts are processed normally.
- 31321 Fixed an issue with internal and external OSLC defined multi-artifact links being lost after update to a non-link field.
- 26259 Fixed an issue where a 401 authentication error was generated when specific links were present.

#### IBM Rational Requisite Pro (SDK)

- 31415 Fixed an issue with multi-value lists with labels containing spaces and Unicode characters.
- 31413 Added log warnings if view metadata cannot be found.

#### IBM Rational Team Concert (SDK)

 28149 - Fixed an issue validating repository URL to ensure that repository services can be accessed.

#### Jama (SDK)

- 29362 Fixed an issue with comment synchronization when server has comment date millisecond precision.
- 29100 Fixed an issue retrieving data when the Release field is empty.

#### Microsoft Team Foundation Server (SDK)

- 32059 Reduced the log level about invalid user accounts, duplicate display names and unusable collections to TRACE.
- 31565 Improved performance of artifact retrieval.
- 31554 Fixed an issue where required severity field caused failure.
- 31517 Added logging for all exceptions thrown by TFS client.
- 30568 Fixed an issue that caused the retrieval of artifact to fail if a person field had an invalid user value (e.g. a group).

#### Rally

32084 - Fixed an issue when a user is a member of multiple workspaces.

#### Serena Business Manager (SDK)

32058 - Fixed and issue with privilege errors for single and multi-select fields.

#### Serena Dimensions RM (SDK)

29542 - Added support for Date fields and specific date formats (including DD.MM.YYYY).

#### VersionOne

- 32394 Fixed an issue detecting authentication timeouts and automatically retrigger.
- 31982 Fixed an issue with NTLM handshake timeouts.

• 29893 - Added support for artifacts with a Creator that no longer exist (e.g., has been deleted from the server).

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