Atlas Planning and Tracking Suite 4.2

Release Notes

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2017-05-12

Contents

Components

This version of the Atlas Planning and Tracking Suite is comprised of the of following products/versions:

Atlas 4.2	Atlas is a web-based, lightweight Requirements tool focused on enabling business analysts, product managers, and other Project stakeholders to: • Easily gather and collaborate their ideas using their favorite media (diagrams, work-flows, pictures, presentations, documents, videos). • Organize and structure those ideas into well formed requirements. • Prioritize and plan those requirements into a specific time-frame given their agile teams velocity. • Track the progress of their agile teams work towards their requirements, independently of their agile tool of choice.
Rhythm 4.2	Rhythm is an agile project tracking tool designed to allow you to: • Organize, prioritize, and manage your Agile teams' backlogs. • Plan your sprints, task out the work, and then track progress throughout the sprint. • Get comprehensive visibility of all your Agile assets.
Micro Focus Connect 1.6 HF7	A web application that allows you to synchronize assets from third party tools into the Atlas Hub (and thereby, into Atlas and Rhythm).
Atlas Hub 16.1	A software change and configuration management server that stores and versions your assets.

What's New

The following section contains the major new features for this release.

Tip: Please refer to the individual product release notes for more information about new features provided since the last full release.

What's New in Atlas

4.2

The following are the latest features for Atlas:

Restore from Version

At times, you may want to return to previous versions of a Requirement. Restoring a previous version only restores the description, name, and attributes. Relationships, discussions, attachments, and tags are retained from the current version.

Additional Relationship Details in Reports

Reports now contain more details regarding Relationships. Details included are Direction, Relationships Type, Status, Item Type, and Name. Additionally for version comparison reports, a column displays at the beginning of the table indicating the type of change.

Run Comparison Report on Two Past Labels

You can now compare two labels in the Time Machine in a report. The report always compares the most recent label to the older label, regardless of the label you are viewing in Atlas.

Test Overview Included in Reports

An overview of test results is now and option to include in all reports. Check Test Overview when selecting items to include the report.

Report Format Changes

This release introduces several enhancements to the report formatting, such as:

- The reports ignore extra returns within requirement descriptions, reducing the amount of whitespace within each requirement entry.
- Page breaks only occur for top level-requirements, removing gaps and extra page space between related information.

Data Displayed in Filtered Requirement Reports

When creating a Requirement report with a filter, the report includes the name of the parent, but does not include details if the parent does not meet filter specifications. This gives context to requirement locations within the hierarchy.

Sibling requirements that do not meet the filter specifications do not appear in the report.

Hierarchical Table of Contents

The generated report table of contents is now in an hirarchical structure that goes five levels deep. Any requirements deeper than five levels are presented on the fifth level in the table of contents.

Discussions User Notifications

Discussions notifications have been expanded so that users mentioned anywhere in the discussion thread and users participating in the discussion will receive email notifications, if the administrator enabled e-mail notifications.

Print Selected Requirements

Print Selected Requirements generates a Microsoft Word document of the requirements that you select from the Requirements Tree. It is a quick way to generate a filtered Requirements report from the Define perspective.

Lock Requirements from the Requirements Grid

When you edit a requirement, the requirement is locked so other users cannot edit. If another user attempts to edit the locked requirement, they receive a message stating that the requirement is locked. If you have customized the Requirements Grid columns to show the **Lock** column, a lock icon appears in the column next to the locked Requirements.

Editing Multiple Requirements in the Requirements Grid

When there are multiple requirements needing the same edits, the Requirements Grid provides an easy way to select a group of requirements and make the change once. Select the requirements to edit, activate one of the column for one of the requirements, and make the change. All the selected requirements reflect the change.

Filter Options in Relationship Diagram

You can now filter the Relationship Diagram by Relationship Type, Relationship Status, and Item Type.

Updates to Search Results

Search results are now configurable and resizable

Additionally, an Item Type column is now available, displaying the type of item that matches your search.

Export to CSV File from Requirements Grid

Exporting to a CSV file from the Requirements Grid offers more control over the information included in the exported file than exporting from the Requirements Tree. The exported file maintains the filters, column selection, column order, and sort order of your Requirements Grid.

What's New in Rhythm

4.2

The following are the latest features for Rhythm:

Web-Based Training

Use the following link to order the new, free Rhythm web-based training. Order it *here*!

User Capacity Planning

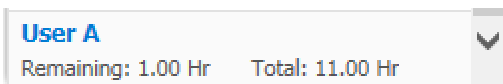
This release introduces user capacity planning:

Individual User Capacity
Each user can now customize their availability at both the Project level and the Sprint level. You can see these values reflected for each user by using a Quick Filter for a user in the **Team Room** and also in the Task **Owner** field.

Administrator Manages Availability
Although individual users can modify their own availability (see above), each administrator can open the **Edit Sprint** window and use the **Team Availability** grid to change the availability for each user for the *current* Sprint and Project.

Note: This applies to *Private* Projects only.

Task Owner Assignment
To aid in deciding who is available to work on a certain Task, the **Team Room** and **Story Editor** now display all users availability when you attempt to assign a user to a Task that is in a Sprint.



This indicates if a team member is over- or under-allocated for the Sprint.

Quick Find

When you are in the **Breakdown** and **Backlog** views of the **Planning** perspective, you can use the **Quick Filter**'s text field to search for text in the current view. This capability is invaluable for quickly finding items in the **Backlog**:

1. Place cursor in the **Quick Filter**'s text field.
2. Type in the text to search for.
3. Click `Enter`.

This will behave exactly as if you opened the **Filter** dialog box and created a filter using `Name Contains <Text>` or `ID Equals <Text>` (the second part is only if the text is numeric).

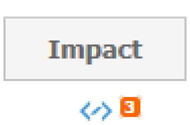
Search

Rhythm now provides search capabilities for Stories. Using the search, users can easily scan all Stories and their attributes, including the content of attached files. Used together with the Quick Find and Filtering, all data is quickly at your finger tips.

Change Package Support

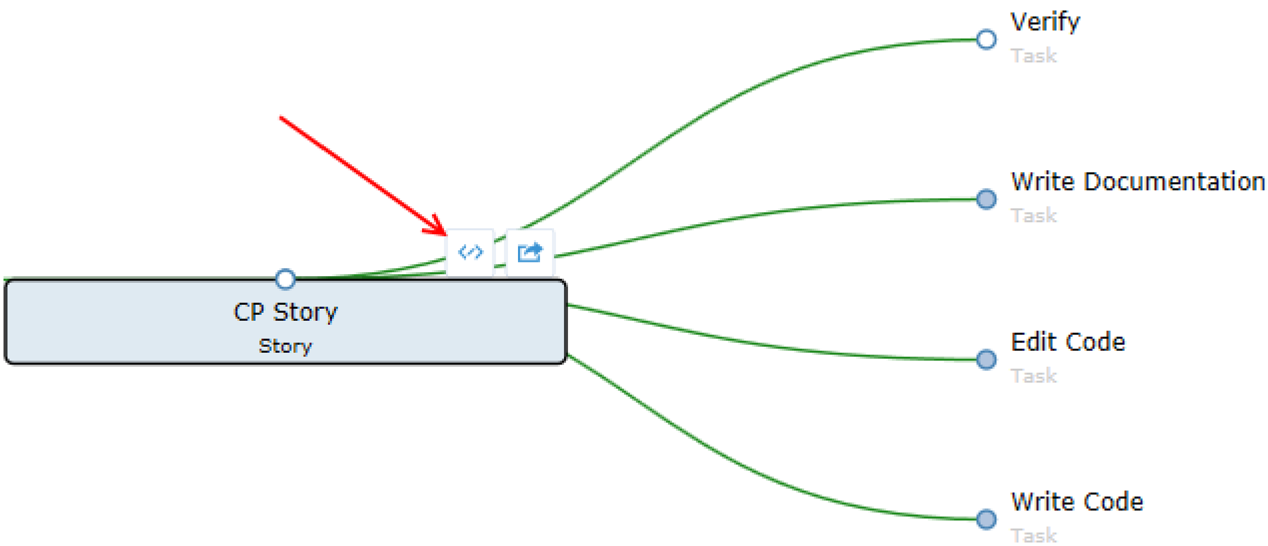
Rhythm now provides visibility to change sets/packages and their contents directly from the Rhythm user interface. When your native SCM environment is connected to the Atlas Hub, Rhythm includes change sets/packages in the relationship diagram and Story/Tasks lists. Understanding related files and impacts provides users greater understanding of work context.

These Stories display the Change Packages in the **Team Room** via the **Impact** column.



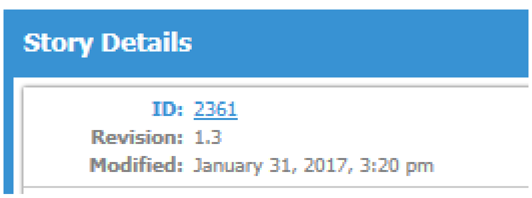
Additionally, any Change Packages associated with a Task are visible in the **Story Editor**.

When viewing relationships in a Story, Change Packages display in the diagram and you can click them to open the **Change Packages Viewer**.



Accessing Stories in Native SCM Environments

Rhythm provides direct Story and Task links to the StarTeam Cross-Platform Client when Atlas Hub file activity is detected. Task links can be used to establish StarTeam Cross-Platform Client work context for developer activity, for example, check-ins. Check-in's in task context automatically create related changes packages that are in turn visible in Rhythm. Just click the **ID** field in the **Story Editor**.



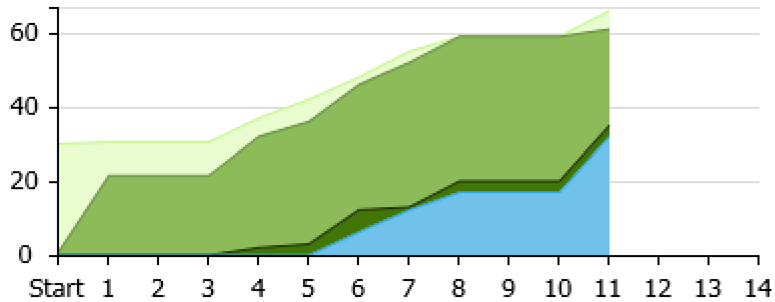
Relationship Impact Management

Rhythm now provides more ways to understand related work and the impact of change. Using the relationship diagram, users view related items and can filter on item type, relationship type, or relationship status. This aids in quickly understanding how data is related and how change propagates through related items.

Team Room Cumulative Flow

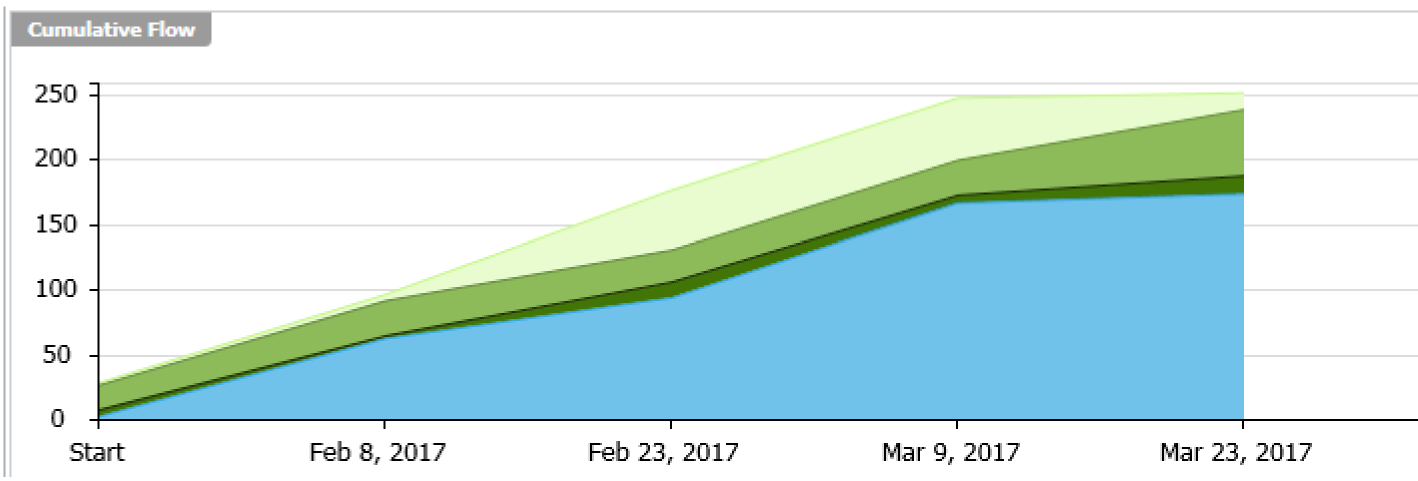
The **Team Room Cumulative Flow** chart represents the amount of work in the Sprint in different states for each day of the Sprint. The vertical axis represents the points in the Sprint. The horizontal axis represents each day of the sprint. It includes **Points Not Started** (light green), **Points In Progress** (green), **Points Completed** (dark green), and **Points Accepted** (blue). The height of the chart defines the scope. If something is added or the estimate is increased, then the whole chart gets taller. If something is removed or the estimate decreased, then the chart gets smaller. It provides the ability to see changes in scope in the sprint.

Additionally, when a Quick Filter is applied, the chart adjusts to the items selected in the Filter.



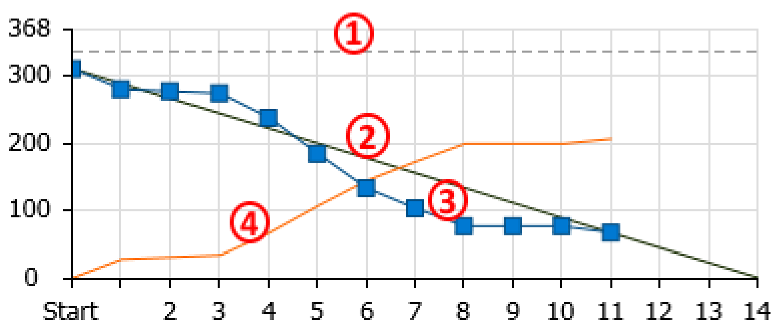
Tracking Cumulative Flow

The **Tracking Cumulative Flow** chart represents the amount of work in the Release in different states for each Sprint of the Release. The vertical axis represents the points in the Sprint. The horizontal axis represents each Sprint of the Release. It includes **Points Not Started** (light green), **Points In Progress** (green), **Points Completed** (dark green), and **Points Accepted** (blue). The height of the chart defines the scope. If something is added or the estimate is increased, then the whole chart gets taller. If something is removed or the estimate decreased, then the chart gets smaller. It provides the ability to see changes in scope in the Release.



Team Room Burndown Chart

The **Team Room Burndown** chart now displays (1) Capacity (2) ideal Burndown (3) current Burndown and (4) Burnup. Additionally, when a Quick Filter is applied, the chart adjusts to the items selected in the Filter.



Sprint Activity Window

The **Sprint Activity** window is available in the **Team Room** and provides activity that occurs on all Tasks, Stories, Discussions for all users. You can filter Tasks by **Date** (From, To), **Type**, **User** and many more (see below). You can use this information to:

- Provide detailed support or explanation for data in the **Team Room** Charts (status changes, work record hours, etc).
- Filter by **Type** to see what was `Added/Created` or `Removed/Deleted` and by whom. You can also isolate Tasks by: `Edited`, `Worked`, `Discussed`, `Carry Over`, `Blocked/Unblocked`.
- Use the data however you need to as the basis for your daily stand-ups or Sprint retrospective.

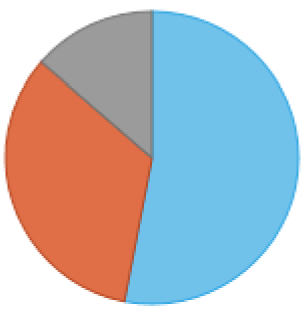
From the top-right of the **Team Room**, click the **Sprint Activity** button: .

Decorators for Story Tabs

In the **Story Editor**, the tabs for **Discussions** , **Attachments** , **Relationships** , and **Tags** will now show orange decorators when items exist.

Team Room Points By Type

The **Team Room Points By Type** chart is now clickable and will apply a filter with the items selected. Use this bias chart to quickly understand the allocation distribution for Epic, Themes, Stories, Defects, and Tech Todo's. Additionally, when a Quick Filter is applied, the chart adjusts to the items selected in the Filter.



Team Room Health Auto-Filters

The **Team Room Health & Progress** chart is now enabled with clickable auto filters. When warning labels are clicked, for example `1 Story without Tasks`, the full **Team Room** is automatically filtered to show only those items matching the criteria. Locating health and progress issues has never been easier.

Filter Sensitive Team Room Charts

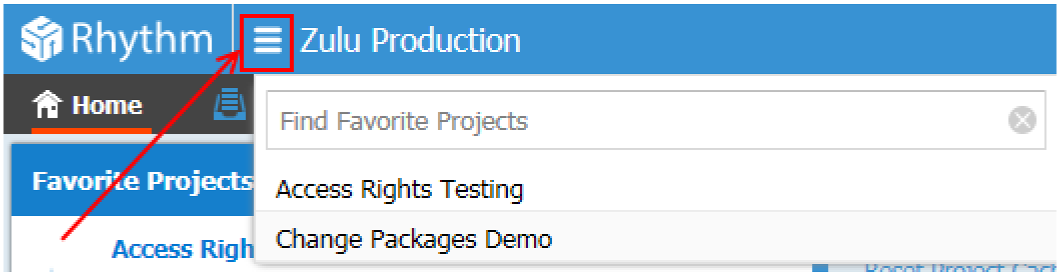
Team room filtering has been updated to apply to not only the grids, but also to all visible charts and health. As selection filters are applied/removed, **Team Room** charts and health are updated to reflected the target data. The available filtered **Team Room** charts enable you to quickly identify trends and problem areas. Click the clear icon () to clear any filter.

Copy Tasks Preview Window

The new **Import Task** preview capability enables you to quickly identify which Story to copy Tasks from. It provides a one-click action to provide visibility to selected Story Tasks before electing to copy them. This lets you accurately copy predefined Tasks from existing Stories and templates.

Project Quick Switch

You can now use the **Switch Project** menu (available in all perspectives) to quickly change from the current Project to any of your *Favorite* Projects.



What's New in Micro Focus Connect

1.6.7

This section lists changes for Micro Focus Connect 1.6.7.

This version of Micro Focus Connect contained only minor bug fixes and no new major features.

What's New in Atlas Hub

16.1

The following are the new features in this release.

Atlas Hub

The following are the new features for this release of the Atlas Hub.

Enable Sandbox Server Search

A new configuration option has been added to `starteam-search-configs.xml` to exclude items in a sandbox type view from being indexed/searched. Refer to *Search Index Configuration* topic in the *Server Administration Help*.

Project Access Rights

You can now configure project access rights from the Server Administration tool. The areas you can configure are:

- View/edit project access rights
- User access rights report
- Clone Project rights
- Clone view rights

Enable SDK Workflow Server Configuration Option

If Enable SDK Workflow is turned on, SDK Workflow is enabled. Refer to *Managing Log and Initialization Files* and the *starteam-server-configs.xml* in the *Server Administration Help*.

Upgrade Distribution through StarFlow

A new Client Upgrade feature allows StarTeam administrators to easily make StarTeam Cross-Platform Client releases available to their user base. To distribute:

Check the StarTeam Cross-Platform Client release build(s) into the StarTeam Server, StarFlow Extensions project, default view, root folder.

The build file names are required to follow specific patterns which are described below:

Installer Type	Build File Name
64 bit windows	`starteam-cpc-win64-{nn.mm.oo.pp}.exe`
32 bit windows	`starteam-cpc-win32-{nn.mm.oo.pp}.exe`
Linux client	`starteam-cpc-ux-{nn.mm.oo.pp}.tar.gz`
Mac Client	`starteam-cpc-mac-{nn.mm.oo.pp}.mpkg.zip`

PostgreSQL

New script `starteam_postgres_create_compute_stats.sql` added to this release.

`starteam_postgres_create_compute_stats.sql`	Updates query optimization statistics. Updating statistics ensures that queries compile with up-to-date statistics. Can be run online or offline.
`starteam_postgres_create_index_maintenance_script.sql`	Rebuilds indexes. Can be run online or offline.

Analyze Server Log or Analyze Archived Server Logs

Analyze Server Log and Analyze Archived Server Logs are new menu options for Server Administration, under **Tools** > **Administration**. These new Administrative user options analyze the server log(s) and report the connections usage over time. These options can also be used by launching the Server Administration Tool bundled with the Windows version of StarTeam Cross-Platform Client.

Fixes

The following section contains the fixes for this release.

Hot Fixes in Atlas

4.2

The following fixes were made for this release:

Administration & Projects

- DE15488: Admin User (with Admin Role) cannot see **Admin Tools**.
- DE15368: Wrong role message in case you have access rights only to Rhythm and select Atlas perspective.
- DE15264: Role permissions don't update until browser is refreshed.
- DE15292: Changes to permissions causes exception.
- DE15293: Change project to private when last admin is removed.
- DE15318: Restrict projects from Rhythm-only users.
- DE15324: Keep project when changing applications.
- DE15395: Removing the last Administrator from the restricted project does not function correctly.
- DE15439: Lock Manager uses Lock Break Permission.

Define

- DE15656: Remember the sub-view selected.
- DE15610: Make tree re-size splitter allow wider tree.
- DE15271: Relationship diagram shows additional item box.
- DE15314: Story name containing special characters is not displayed correctly in **Relationship Type & Direction** dialog.
- DE15432: Fix issue with multi edit not working consistently in requirement grid.
- DE15545: Grid renders check boxes before data is ready.
- DE15492: Grid-view: Delete warning is incorrect.
- DE15635: Prevent double load of tree view when grid view is filtered.

Diagram

- DE13126: Generating previews of remote images fails.
- DE15568: Fix saving new empty diagram.
- DE15464: Grid-View: Change requirement type to Diagram gives no warning.

Miscellaneous

- DE15552: Gather: On first use, creating new tag has issues.
- DE15597: Quick Print: Print Requirements from Tree Dialog should ask for Save Changes if current requirement is in edit mode.
- DE13218: Manage Labels - no feedback on Save.
- DE15608: Tidy up **Generate Report** dialog.
- DE15313: Search Project selector is not displayed in StarTeam Cross-Platform Client Search perspective on low screen resolution.
- DE20721: Make Remove Parent button disabled for non-child stories
- DE15320: Fix remove tag for Requirements.

- DE15329: Quick-Look: Concept of type link is shown as a file to download in quick look Concept.
- DE15291: Apply fix for Requirement tree loading expanded again.
- DE15291: Turn off tree reloading due to third-party defects.
- DE15360: Gantt does not present tool tip on due date flags that were delivered late.
- DE15370: Fix perspective is restricted formatting.
- DE15432: Fix issue where multi-select UDA previously set values are displayed as set in the consequent edits.
- DE15432: Fix issue with status not being the correct column for requirement grid.
- DE15490: Plan: Opening Requirements from plan removes Owner field.

Relationships

- DE15510: Fix count on adding multiple relationships.
- DE15528: Relationships Diagram: Owner for Requirements appears as Not Assigned in list.
- DE15580: Fix File Name not showing on Adding relationship.
- DE15882: Remove ability to manually create relationships to change packages.

Time Machine

- DE15337: Enable reports in Time Machine.
- DE15341: Fixes Time Machine on Home perspective.

Track

- DE15412: Requirement types missing Planning/Delivery flag in Detail view until Browser is refreshed.
- DE15623: Rank for Requirements is N/A.
- DE15626: Remove duplicate messages for requirements with un-estimated stories.
- DE15626: Clean-up tracking issue messages.

4.1

The following fixes were made for this release:

Browser-Related

- Ensure that focus on a Description field worked consistently in Internet Explorer 10.
- Resolve Internet Explorer-specific issue where search UI stops working until refresh after creating a Concept.
- Tag groups in Gather do not always load in Firefox.
- Ensure that logged-in users browser refreshes after a successful version upgrade.
- Resolve UI issues on some browsers related to editing profiles.

Date/Time

- Time machine had a UI time display mismatch.
- Ensure invalid dates can't be selected in the Activity date picker.
- Define: Application responds incorrectly if the currently selected requirement does not exist at a previous date/time selected in time-machine
- Resolve issues in Time Machine when attempting to view a Requirement that wasn't available at a specific historic label/time.

Filters

- Create new filter without save and select another with confirmation to save changes makes the new filter un-selectable.
- Viewers don't see Filter icon on load of any perspective, but it appears after quick filters use.
- Fix proxies on stores/models to resolve filter persistence.
- Strip Project ID from project-specific filters in reports.

- Plan review report filter combobox width fix.
- Whiteboard not informing whether filter is applied.

General

- Fix drag drop issue where dropped item is not in correct location.
- Initial start-up performance improvements.
- Create Requirement from Note Concept does not save Description.
- Quick Look for Discussions opens item Quick Look without expanding the Discussions tab.
- Push to Backlog fails with Delivery Project set to same Project as Plan.
- Handle multiple edge cases related to the deleting of tags while other users are using them.
- Resolve multiple selection issues with the define perspective's tree picker.

Relationships

- Make Relationships read only in Quick Look.
- Defer option is enabled for deferred Relationships.
- Time machine: Cross project break down Relationship between Requirements can cause tracking information to fail to load in Time Machine mode.

Tracking

- Gantt UI breaks when name contains HTML special characters.
- After deleting a label from Tracking label, list is not refreshed.

User/Access Rights

- Warn admin users when Backlog root Story is in a Sprint.
- Fix user role alignment on lower resolutions.
- Resolve issues with access rights to Gather and Define perspectives for viewers after the upgrades to access rights were implemented.
- Editing user properties from Main toolbar, click Save not ending the save process.

4.0

The following fixes were made for this release:

- Ensure Topics that belong to deleted items are still displayed in activity.
- Remove infinite loading mask when displaying reply to deleted item.
- Merge Projects stores into a single store.
- Correct Tag Indicators.
- Ensure restore Child item from recycle bin functions correctly.
- Ensure items locks are released more readily.
- Introduce Session Timeout Support.
- Correct Integration Chart Date.
- Ensure Target -Attribute is retained in Rich Text.
- Remove redundant read of plan from cache.
- Correct character set processing for import from CSV.
- Show all requirement relationships on concept badges.
- Allow push to backlog with trace but no story.

3.2.1

The following fixes were made for this release:

- Adding tag during edit session no longer removes user data
- Cookie now contains the "secure" attribute

- X-Frame-Options header is set and does not allow Framable Page Clickjacking
- Cookie contains the "HTTPOnly" Attribute, ensuring it stays secure

3.2

The following fixes were made for this release:

- More components have tooltips.
- Loading spinners add to gather concept renderers.
- Whiteboard filter improvements.
- Date formats are now consistent across application.
- History panel can be refreshed correctly.
- URL for concept URLs is now visible.
- Dates are used to calculate difference between milestones.
- Relationship panel updated on all changes to reflect new items.
- Filter improvements for editing and storing new filters.
- Improved discussion tab stays closed and shows full list of project users.
- Internet explorer 10 can now be used to import requirements
- Requirement Editor saves correctly when saved a second time.
- Reports now correctly include Requirement Description.
- Multi-select UDA panel can be reset after cancel.
- Search is now fully functional on all browsers.

3.1

The following fixes were made for this release:

- Performance Improvements for Application Start-up.
- Performance Improvements for Activity perspective.
- Security improvements for unauthorised operations.
- Security improved to restrict download of resources to registered users only.
- Project role reported correctly in Home perspective.
- Newly created projects are correctly added to favourite projects.
- UDA max length implemented.
- Duplicate UDA names handled - they are now rejected and reported to the user.
- Improved performance for report generation.
- PDF file concepts now shown in line for all browsers.
- Performance improvement for Define perspective.
- Extended requirement sorting to include UDA values.
- All requirement properties are sortable in the correct order in requirement grid.
- Improved UI for disabled requirement type.
- Requirement attribute updates propagated to all UI components.
- Requirement editor retains edit after attachment is added.
- Improved relationships dialog ensures all relationships are visible.
- Sorting of attachments is enabled.
- Discussions correctly include mentioned users.
- Discussion replies are now included in report.
- Tracking Perspective rendered correctly when maximized or collapsed.
- Plan edits are retained if requirement is added.
- Plan items sort order is persisted.
- Search goto and quick-look handle deleted items.

- Case sensitivity extended to filters.
- Viewer role has been restricted from creating filters.

3.0

The following fixes were made for this release:

- Update UI to support special/international characters. For example: `ä, ö, ü`.
- UDA usage fixes.
- Tracking Gantt schedule rendering for view only users.
- User mentions in Discussion reworked.
- Ability to reset project permissions to initial state.
- Tree navigation and drag/drop improvements.
- Redesign of plan and plan review dialog.
- Security improvement of DOM injection protection.
- CSV import support for Unicode characters.
- New rich text editor.
- Performance improvements: UI and item loading.
- Performance improvements: Time Machine general usage.
- Performance improvements: List available related items.
- UDA creation and management updates.
- User management dialog updated.

Hot Fixes in Atlas Hub

16.1

The following fixes/updates were made for this release:

Hub

RPI 1108067	Upgrade the bundled JRE version to 1.8.112 and Tomcat Server to 8.5.9.
CR 69,143	Fixed a bug where Pinned traces are no longer visible when an item is moved.
CR 69,101	Fixed a label cache issue to dump deleted labels immediately from the cache so that another label with the same name is created successfully.
CR 69,047	Added more contextual messages when an item is locked by a user.
CR 69,045	Fixed an IEM bug to successfully import Test/Test Run filters queries.
CR 68,975	Fixed server exception: `This folder cannot be deleted because some of the items are locked by another user`.
CR 68,875	Fixed a server startup failure issue after upgrading to the newer version. A failed server start fails to rollback newly created database columns which in turn causes subsequent server restarts to fail.

SDK

CR11087	`Sprint.getStories()` should ignore duplicate stories.
CR11067	Multiple moves of a tree item across parents, then finally to the tip, causes an exception to be thrown.

CR11063 `WebCacheViewMemberCollection.getHistory()` throws a *Null Pointer Exception*, if a project has been deleted.

CR11055 Several write optimizations improve performance inside the *Artifact Cache* and the *JobRunner*.

CR11050 Introduce a new API `WebCacheView.getCount(WebCacheViewMemberType)`.

CR11034 Optimize the query `WebCacheLinkValue.getView()`.

CR11033 Fix a *Null Pointer Exception* when querying old filters for a null modified time.

CR11029 Introduce a new API `WebCacheItem.getChangePackages()`.

CR11027 Correctly return deleted traces from the recycle bin.

CR11022 Introduce a new class `WebCacheServerConfiguration`.

CR11021 Correctly display deleted items in a rolled back configuration web cache query.

CR11007 Introduce a new API `WebCacheViewMember.toRestURL()`.

CR11000 `Story.getParentSprint()` should return a Sprint, even if the Story/Sprint Relationship has more than one trace join.

15.1 HF1

The following fixes/updates were made for this release:

Hub

CR 68,155 Configure PING command behavior. Added server configuration setting `PingBehaviorForInactivityTimeout`. Not setting this, or a value of 2 preserves current behavior (ping commands touches last activity time, so the connection is never released due to inactivity, and the license for the user is not released). A value of `1` means ping command does not affect inactivity timeout, all it does is keep the server socket connection from closing. With this ping, it becomes a socket connection ping only.

CR 68,186 Fix error when viewing an active trace with endpoint in deleted project.

CR 68,181 Fix error when deleting an active trace with endpoint in deleted project.

CR 68,188 Fix for server startup fails with error: `Property order mismatch in schema`.

CR 68,175 Fix error, `Incorrect flags set for a custom enumerated property`, when setting an enumeration to selectable.

SDK

CR 10722 Filter/query `getOwnedBy` may return `NULL`.

CR10724 Test suite fixes for Linux.

CR10726 **File Update Status** incorrect when a *Symbolic Link* is checked in.

CR10727 VCM `Unchanged since last merge` should still present a merge condition if there are content differences.

CR10728 SDK internal attempt to query data fails if the network connection has been lost.

CR10729 *Null Pointer Exception* fixed in ActiveMQ MPX message handlers.

CR10731 Disable MPX inside `ArtifactCacheManager.unregister()`.

CR10732 VCM now detects *File Change in Promote*, *Reverse Share*, *Rollback to Historical Revision*.

CR10733 `stcmdEx exclude #excludeList` no longer loses the quotes around the file path.

CR10735 Sharing a file from a rolled back configuration no longer shares revisions created after the roll back time.

CR10737 `WebCacheLiveObject.getValue(WebCacheProperty)` no longer returns Content, LinkValue, does return their WebCache equivalents.

CR10739 Pinning and unpinning Trace endpoints through the artifact cache no longer leaves stale data(target artifacts at fixed revisions) in the cache.

CR10740 stcmd now provides a new `server-build` command.

CR10743 Add new `EnumeratedValues` and new `Content Properties` for Atlas.

CR10745 Fix a *Null Pointer Exception* processing the Unread Property for Traces on a post 15.1 server configuration.

CR10746 Fix a *Class Cast Exception* in Content Equality Checking, identified by Atlas.

CR10751 Add a test for ArtifactCache Order property value retainment across moves.

CR10752 Fix a defect in the C# code generation which prevented `FileSyncInfo` interface from being surfaced in C#.

CR107555 stcmd introduce a new `Select Query` report to count the number of changed lines of code for a process item.

CR10758 Fix the *ArtifactCache* to prevent artifact visibility in sub-folders which are denied visibility.

15.0 HF3

The following fixes/updates were made for this release:

Hub

- 68,031 - Fixed Custom Component creation issue when reserved word "name" is used.
- 68,026 - Fixed an issue when a Custom Component definition file is move to installed folder, even the Custom Component creation fails.
- 68018 - Fixed a issue where in server housekeeping threads block users from logging in.
- 68006 - Fixed a bug when a service is unable to run a domain user.
- 68096 - Fixed Import/Export Manager to support test and test run components.

SDK

- r10694 - Overload ArtifactCacheManager.register() with a new api to red configuration from an /xml file.
- 10696 - Create copies of enumerated values when assigning them to their respective enumerated properties.
- 10698 - Content.getMD5() calls out to Content.toBytes() to prevent an Illegal State Exception.
- 10702 - Address a deadlock in the linux smoke tests.
- 10704 - Provide new sdk api to return REST urls.
- 10706 - Fix a stack overflow compiling the sdk after switching to java 8.
- 10708 - Fix tests that break when run using linux.
- 10711 - Handle passwords that contain embedded """ in command line encrypted password files.
- 10716 - Fix a null poinet excpetion when matching non branching vcm views.
- 10717 - Prevent adding files to folders which are exclusively locked.
- 10721 - Fix the artifact cache to prevent live traces from showing deleted items out of the recycle bin.

15.0 HF2

The following fixes/updates were made for this release:

Server

New Components	Atlas Hub now has *Test* and *Test Run* components.
Installation	Fixed installer bug for double-byte code page for Simplified Chinese and Japanese.

SDK

10664	A *Test* component is a *Tree Item* type.
10663	Federated Trace Server Queries should not throw an exception for non-admin users.
10660	JobRunner Filter Creation tear-down code should not throw an exception. This masks possible `run()` exceptions.
10659	`WebCacheTrace:: getSource()/getTarget()` missing a test for `isInternalLink`, resulted in an internal error.
10657	Introduce two new SDK components, *Test* and *TestRun*.
10656	The `transfer-traces` command should copy all trace property values across servers.
10655	`TraceFinder` should not throw a Null Pointer Exception querying a server with no projects.
10653	Introduce a `connections-log` query command.
10652	`List-users` command should provide all relevant user property values.
10651	A non-deleted WebCacheTrace should show deleted end point view members.
10650	`Client.java` has a redundant but required list of command names.
10649	JobRunner creating disembodied traces was setting a negative, incorrect vmid.
10648	Optimize and narrow the RE_PIN over MERGE rule to specifically target REBASE cases only.
10647	Extend `File.OPERATION` to include attach and detach enums.
10646	Change the `WebCacheItem::copy` signature to specify a `webCachefolder`, potentially from a different project or view.
10644	`Server.logon(user, password)` returns a user whose `isMemberOf(Administrators)` always returns false.
10642	Add a `sendMail` api to WebCacheServer.
10640	Prefer RE_PIN over MERGE for files where the target tip is a revision from source history, and the target has not branched.
10638	Support creating a tree item and moving another tree item to it while in a transaction.
10637	Introduce a `File.Operation` class comprising `Checkin` and `Checkout` enums for a custom trigger.
10634	Introduce `WebCacheItem.copy` which supports `TreeItem` deep copy.
10633	Introduce `public static void dropUnusedCachesAfter(int interval)` api on ArtifactCacheManager.
10630	Introduce a generic query `getTracedItems(WebCacheItemType, Boolean targetOnly)` on WebCacheItem.

10628 Investigate Traces disappearance in the ArtifactCache in the presence of a RecycleBin that's being closed too early.

15.0 HF1

The following fixes/updates were made for this release:

67721 Sharing a Tree Item from a Recycle Bin to the tip throws an `Item Not Found` exception.

67712 New configuration setting `FederatedTraceServer` in support of Federated Trace Server.

67864 Deleted Stories are still displayed in the search results in Atlas Search perspective.

67868 Error after upgrading Atlas configurations using Oracle.

Hot Fixes in Micro Focus Connect

1.6 HF7

The following fixes were made for this release:

- Fix NPE: the trace value needs to be fetched to set the trace date.
- Support Vectors for `isSameValue`. (Specifically, allow users to set criteria on enumerated multi-select values).
- Don't apply offset if the type is `Date` (as opposed to `DateTime`).
- Fix check to prevent updating StarTeam with the same data. Fix NPE when generating Content object from null.
- Add check to prevent the update of the same value for a StarTeam property.
- Fix issues related to moving stories.
- Rally: Fix null pointer when listing projects if a project doesn't have a parent.
- Rally: Fixes for moving stories.
- VersionOne: Remove restriction that all enums are based from AssetType List.
- VersionOne: Support `Actuals` as a read-only property.
- VersionOne: Updated connector to use 16.0 SDK.

1.6 HF6

The following fix was made for this release:

- Fixed bug where an email exception was incorrectly interpreted.

1.6 HF5

The following fixes were made for this release:

- Fix to passwords/fields with #,$,%
- Fix to hide plaintext passwords in `Connect.xml`.
- Don't shutdown when license is expired.
- Allow for cross project moves in Rally.
- Fix hierarchical projects in Rally
- Change HTML processing to improve reliability.
- Fix issues related to *first project in Jira* bug

1.6 HF4

The following fixes were made for this release:

- Fix production bug ofitemNotFoundException.
- Fixed Encrypt passwords.
- Exceptions from meta queries are not logged.
- Log all setValue calls at Info level.
- Make the logs much more readable by not setting the thread name.
- Only restore a comment that was actually updated.
- Trap expected exception when a story and its linked task are deleted.
- Trim logging to 500 chars for a value, prevent NPE if parent property is specified for 1 dp and not the other, move static method to member, add faked Task properties to getProperties list, fix ClassCastException if property returns array of SyncItem, fix log method to log the stack, not the object.
- Protect against inability to find datasource, and provide user better information as to the problem.
- Read bytes from content property as UTF8.
- Make sure we have called onStartSync before accessing the members of a datapool.
- Don't ask for UTF8 chars when passing a string to Tika to strip.
- Remove setupFailed logic and fix bug if an exception is thrown after the view is opened.

1.6 HF3

The following fixes were made for this release:

- Fix parsing issue on `SystemEmailFrequency` when upgrading `connect.xml`.
- Fix issue with constant login on StarTeam (when setup fails).
- Fix ability to edit **HubDefault** data source in UI.
- Fix to sync of hierarchical issue changes (do them in order).
- Fix to UTF8 `getbytes` (bad high order character translation).
- Fix VersionOne connector images.

1.6 HF2

The following fixes were made for this release:

One-Way Syncs	If a *synchronization* or *TypeMap* is one way, then `create new` and `delete` are treated as `false` in the source.
Synchronization Direction Tag	The *Direction* tag for a synchronization is over-riding the *Direction* tag at a *TypeMap* level. For a user upgrading from pre-1.6 release, this conversion is now fixed and there is no change of behavior. For an existing 1.6.x user who upgraded from pre-1.6, this doesn't correct the behavior, but you may note the settings had unexpected values in the prior release. You need to manually change the settings if you desire the pre-1.6 behavior.

1.6 HF1

The following fixes were made for this release:

24115	Delete a *Type* from a connection and associated relationships are not deleted.
24196	`HubDefault` datasource produces an error.

24300 The datasource in the sample XML is called `OT`. It should be renamed to something more relevant like `SVN`.

24295 CA Agile Central: The sample XML contains an empty `ProjectMap`.

24111 There's a missing value map for the blocked field of task items.

24110 The `Connect.xml` file in the rest interface should have been set to `false` for CA Agile Central and Team Foundation Server.

24133 Items created in reference views should be recognized when Micro Focus Connect is looking at the *Root* view.

24134 There's a missing value map for the blocked field of task items.

24213 Subversion: Remove the required slash at the start of the name of the project in the `ProjectMap`.

24135 The default `Connect.xml` contains an empty project map for the VersionOne connector that breaks the whole configuration.

24138 VersionOne: In Micro Focus Connect 1.5, the VersionOne connector terminates with `Can't find property named Usr_EpicStatus in type Story`.

24137 Modifications of value maps via the UI are not being saved in Micro Focus Connect 1.5.

24136 Update default `Connect.xml` generated by the REST so that `deleteItems` is false for Team Foundation Server and CA Agile Central.

24226 Subversion: Update dependencies in the documentation.

24198 Team Foundation Server: Unable to list projects from the Team Foundation Server.

24089 VersionOne: With the default VersionOne connector setup in Micro Focus Connect 1.5, items deleted from StarTeam are not being deleted in VersionOne.

24415 CA Agile Central: Type data wasn't initialized properly.

24107 The default `Connect.xml` contains an empty project map for the VersionOne connector which breaks the configuration.

24098 Modifications of value maps via the Micro Focus Connect UI are not being saved in version 1.5.

Hot Fixes in Rhythm

4.2

The following fixes were made for this release:

- Laptops/devices with touch-screen support do not fire `Click` event.
- Advanced image editing properties in Google Chrome does not work.
- **Tag** column in grid limited to column width.
- Display `Pts.` in Release and Sprint editors.
- Delete child Story in **Breakdown** should reload in the same place.
- Allow users to see `Processing` and `Complete` message with **Filter** dialog box open.
- Server administrator show both as `Administrator` and `Atlas Contributor` for same project.
- Keep selected item selected when clearing filter (**Backlog**/**Breakdown**).
- Unexpected error when reached the maximum number of **Favorite** projects.
- **Filter Editor** list wraps values, hard to read.
- **Edit Sprint** panel: **OK** should be disabled if no change.

- **Assigned Stories** column of Releases displays Sprints in count.
- Drag third level child item outside the top parent returns unexpected error.
- External URL from *Content service* is escaped, but not un-escaped before launching.
- Change filter ellipsis (**...**) to **X** for remove items.
- Email notifications do not retain carriage returns.
- Planning views are not sticky.
- **Timeboxes** dates edit does not provide validation feedback.
- **Team Room** sort order not kept for next usage.
- Show `Loading` indicator on **Copy Tasks from** and **Story Parent** dialog boxes.
- Changing **Task Est**. doesn't immediately change **To Do**.
- Do not decrement **To Do** hours if there is a newer work record.
- Recording time does not decrement grid until refresh.
- Export order is random.
- **Breakdown**: Parent items included via filter still show expand action in UI.
- Editing a Task does not prompt for save when dirty.
- Disable **Create** button while processing in **Team Room** quick create.
- **Team Room** (**Sprint** list): Sort column when grid is dirty cancel the changes.
- **Edit Task** dialog box: Change only Task status not gives you save option.
- Rhythm viewer is displayed in the Task\Story owners list.
- Filtering **Team Room** lag using Internet Explorer.
- Admin Tools appear for Project Contributor.
- **Timeboxes**: Assigned Release while creating a Sprint is not displayed in grid.
- Delete a Sprint with Stories prevents those Stories being added to another Sprint.
- Diagram loading too much data and is slow.
- Contributor/Viewer can not open View Input Streams from **Team Room** grid.
- Prevent record time if estimate is dirty.

Known Issues

This section contains any Known Issues for this release.

Note:

Reconfigure Services

The Atlas Planning and Tracking Suite installer will reconfigure services which were created by the Atlas Planning and Tracking Suite installer. If you have created your services manually, you need to reconfigure them manually since Atlas Planning and Tracking Suite installer has no knowledge of these services.

Release Filter for Rhythm

A new property has been added to the Atlas Hub which enables Rhythm users to filter by **Release**. If a filter is saved in Rhythm with **Release** criteria specified, that filter will throw an exception if used to query items in older StarTeam clients. If you wish to use the new filter in the StarTeam Cross-Platform Client, you must upgrade to version 16.0 Hot Fix 1 of the client.

StarTeam Agile Contributor Users

For teams that use StarTeam Agile, a one-time permission reset for `Contributors` is advised when they move to Rhythm. This can be done in **Admin Tools** via **Project Access Rights** and choosing **Reset Permissions**. This does not negate the existing StarTeam Agile permissions, it just adds more permissions that are required for `Contributors` in Rhythm.

StarTeam Agile Project Administrators

There are cases where Users with Project `Administrator` rights in StarTeam Agile do not get these rights carried over into Rhythm. For these cases, re-assign `Administrator` rights in Rhythm to resolve the issue.

Micro Focus Connect Rally connector: sync on changes to sprint state fails with error

Mapping a property to the Comment property in StarTeam will result in an error if that property is the only property on the StarTeam item that is changed. To fix this issue: completely remove the mapping or change the mapping on the StarTeam side to a field other than "Comment".

Micro Focus Connect: Server and rest logs don't display properly unicode characters

When a datasource/synchronization name is composed of Cyrillic/Japanese characters, question marks are displayed both in the rest log and the server log.

To fix this issue:

If you want to use any non-English characters in your datasource names, project names, or mappings and want them properly displayed in the logs, you need to adjust your log4j configuration as follows.

Server log configuration file	`C:\Program Files\Micro Focus\Atlas Planning and Tracking Suite\BorlandConnect\log4j.xml`
Rest log configuration file	`C:\Program Files\Micro Focus\Atlas Planning and Tracking Suite\WebServer\webapps\borlandConnectRest\WEB-INF\conf\log4j.xml`

The following line needs to be appended in the DEFAULT appender in both configuration files:

```
<param name="encoding" value="UTF-8"/>
```

Here's an example:

```
 <appender name="DEFAULT"
class="org.apache.log4j.RollingFileAppender">
<param name="Append" value="true"/>
<param name="MaxFileSize" value="50MB"/>
<param name="MaxBackupIndex" value="20"/>
<param name="File" value="BC-Log.log"/>
 <param name="encoding" value="UTF-8"/>
```

Otherwise any Unicode strings in the log will be displayed as question marks.

Installation

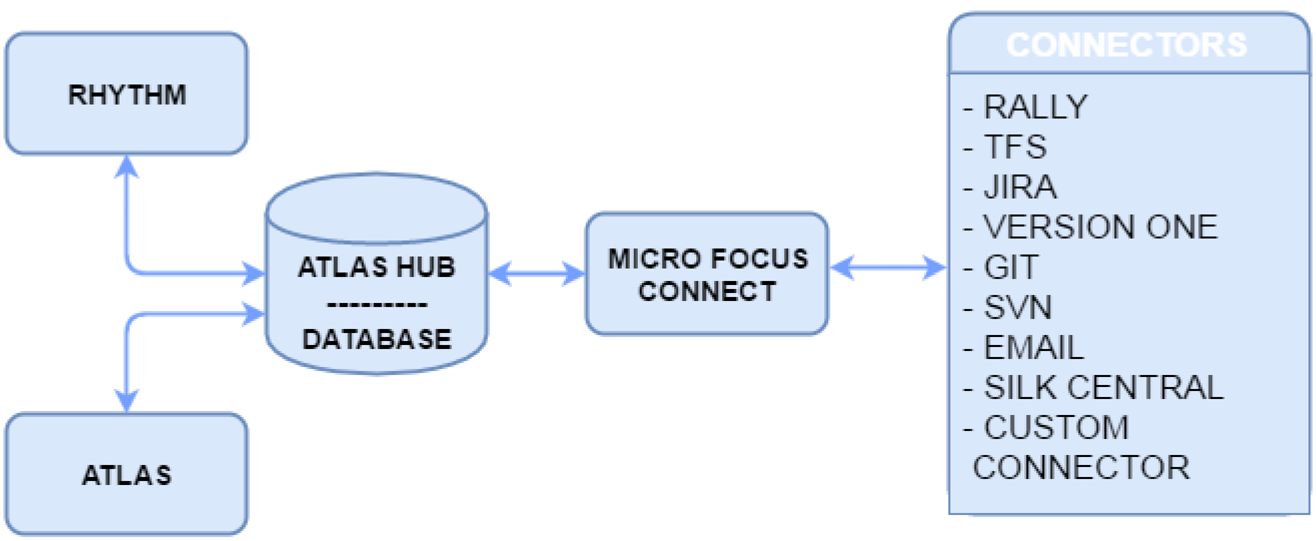
You are about to install the **Atlas Planning and Tracking Suite**. Before proceeding with installation, prepare the following items:

- A 64-bit quad core system with 16 GB RAM that meets the full set of system requirements.
- A database. If you do not have a database to use, a PostgreSQL database will be installed and configured by default. If you have one of the supported database types, you will need to continue to configure your database post installation.

A fully installed and configured **Atlas Planning And Tracking Suite** contains the following applications and components:

Atlas	A collaborative, flexible, agile requirements and delivery platform. It will be installed and run in a Tomcat server.
Rhythm	Rhythm is an agile project tracking tool designed to allow you to organize, prioritize, and manage your Agile teams' backlogs. You can plan your sprints, task out the work, and then track progress throughout the sprint. It provides comprehensive visibility of all your Agile assets. Rhythm should be used in the place of StarTeam Agile.
Atlas Hub	A software change and configuration management server that stores the assets.
Database	Atlas Hub connects to and supports many databases. If you do not have one installed, PostgreSQL will be installed.
Micro Focus Connect	A web application that allows you to synchronize assets from third party tools into Atlas Hub (and thereby, into Atlas). For example, you could connect Atlas Hub to Rally via Micro Focus Connect and have all stories from Rally appear in Atlas.
Tomcat Web Server	Two Tomcat web servers are installed. One runs Atlas, Rhythm, and Micro Focus Connect and the other runs the Search component.

The following depicts how the components are connected:



Installing the Atlas Planning and Tracking Suite

The following steps describe how to install the **Atlas Planning and Tracking Suite**. The suite includes Atlas, Micro Focus Connect, Rhythm, and Atlas Hub. These applications will all be installed together.

Please note all of the following before continuing with your installation:

- If you want to install the Atlas Hub on a separate server, you should plan to do that first. Go to that server, run the installer and select the **Atlas Hub** option on the **Choose Install Set** screen. Complete that installation. Then, on the server for the web applications, choose the **Atlas Planning and Tracking Suite** option, during the installation, you will be asked to point to an existing Atlas Hub, the one that you just set up.
- The base installation no longer configures StarTeam Agile to run. If you want to continue to use StarTeam Agile, you must remove the `_deprecated` from the `.WAR_deprecated` StarTeam Agile file.
- Unless you are upgrading from Atlas Planning and Tracking Suite 2.0, if you have any other version of Atlas, Rhythm, Micro Focus Connect, or the Atlas Hub installed, you must uninstall them before proceeding. If you are a current Micro Focus Connect customer and you want to maintain your mappings, you must retain a copy of `Connect.xml` before uninstalling. Afer installation, you can check your original `Connect.xml` file back into the `StarFlow Extensions/Connect` folder.
- We recommend backing up the Atlas Hub installation directory in order to preserve your configuration files.
- When upgrading from StarTeam Agile to Rhythm, it is necessary to migrate **Target Releases** from the StarTeam Agile Release Views to the Rhythm Releases. This migration is accomplished by running the below command using the StarTeam 16.x SDK that is installed with the Atlas Hub:

  ```
  stcmd rhythm-conversion -p "user:password@host:port/project name/"
  ```

  Running this command will do the following:

  - Create new Releases in Rhythm that match the **Target Releases** in StarTeam Agile. All Stories and Sprints that have a **Release** value set will also be updated. If you run the migration command after assigning **Release** values in Rhythm, then those assignments will be removed as the purpose of the migration is to match up the **Target Release** data in StarTeam Agile with Rhythm.
  - Each Story in the Project will receive updated values on the **Rank** and **Order** fields which are compatible with the Rhythm UI. The overall **Rank** and **Order** of the Stories in the Project **Backlog** will be retained and all new Story revisions will have a "Rhythm Conversion" comment.

1. Run the installer.

   Note: During an upgrade from a previous version, the Atlas Planning and Tracking Suite installer expects valid license keys. The Atlas Hub will fail to start if license keys are invalid.
2. Read the introduction and click **Next** on the **Introduction** screen.
3. Read the license agreement, select the option to accept the license agreement and click **Next**. The **Choose Install Set** screen appears. This is where you will be able to install either all of the applications or just install a new Atlas Hub.
4. To install all of the web applications, choose the **Atlas Planning And Tracking Suite** option to install Atlas, Rhythm, Micro Focus Connect, and optionally, Atlas Hub. Click **Next**.

   a) Select where you want the files installed on the **Choose Install Folder** screen. Do not click **Next** until you read the following:

      Important: The next part of the installation is where you choose the location. If you are upgrading, you need to make sure that you select the existing directory where the previous version was installed. If you used the default, you don't need to do anything in the next step because it is selected for you. However, if you chose a different location, you must browse to that folder and select it for the upgrade.

      If you are upgrading, you will receive an **Upgrade Required** message. Click **OK** and walk through the upgrade screens. Your upgrade will complete, and you are finished with the installation!

      If you are not upgrading, click **Next**. The **Atlas Hub Connection** screen appears.

      To connect to an existing Atlas Hub:

      1. Select **Connect to existing Atlas Hub**.

2. Click **Next**. The **Atlas Hub Parameters** screen appears.
3. Enter the Atlas Hub connection information:

Atlas Hub Host Name or IP Address	The IP address of an existing Atlas Hub installation. **Important:** When specifying the address and port for Atlas Hub in either the installation wizard or directly in the `ALMConfiguration.xml` file, you must use the actual IP address (or machine name) of the Atlas Hub. Do not use "`localhost`" even when Micro Focus Connect and the Atlas Hub are running on the same machine.
Configuration Name	The configuration name of an existing Atlas Hub installation.
Configuration GUID	The configuration GUID of an existing Atlas Hub installation.
Configuration Port	The configuration port of an existing Atlas Hub installation.
User Name	The user name of an existing Atlas Hub installation.
Password	The user's password of an existing Atlas Hub installation.

4. Click **Next**.

To install a new Atlas Hub:

1. Select **Install new Atlas Hub**.
2. Click **Next**. The **New Atlas Hub** screen opens.
3. Enter a **Configuration Name** for the new Atlas Hub.
4. If you already have a license key, select the **I have a license key** option.
5. Enter the license details.
6. Click **Next**.

5. To install the Atlas Hub only, choose the **Atlas Hub** option on the **Choose Install Set** screen.

Tip: After installation, if something goes wrong or a file is damaged or corrupted, you can attempt to repair the install by running this installer again

If you are upgrading, you need to:

1. Stop all Atlas Hub server configurations using the Atlas Hub **Admin Tool**.
2. Close the Atlas Hub **Admin Tool**.
3. On the installer screen, click **Next**.
4. Click **Install**. The installer will install all upgrade files.

You are finished upgrading the Atlas Hub!

If you are not upgrading, click **Next**.

1. Select the **Message Broker** option to install the Message Broker.
2. Select the **PostgreSQL** option to install a PostgreSQL database.
3. Click **Next**.
4. If you are installing a message broker, the **Message Broker Options** screen opens. Enter the port number on which the broker will listen.
5. If you are installing PostgreSQL, the **PostgreSQL Configuration** screen opens. Enter the password for the database superuser. Note that the username is `postgres`.
6. Click **Next**.

The **Choose Shortcut Folder** screen opens.

6. Select the shortcut folders and click **Next**. The Pre-Installation Summary screen opens.
7. Review the information and click **Install**.

Additional Configuration for Connecting to Existing Atlas Hub

If you chose the option to **Connect to existing Atlas Hub** in the Atlas installation wizard, the following configuration changes are required before using Micro Focus Connect with Atlas:

1. Open the Micro Focus Connect UI.
2. Navigate to the `HubDefault` data source.
3. Replace the default credentials with the correct account details for the Micro Focus Connect user (this should be a server administrator account) in the **User Name** and **Password** fields.
4. In the **URL** field, replace the default StarTeam URL with the correct URL value.
5. Save the data source.
6. Click (**Settings**) on the main Micro Focus Connect UI.
    a) Verify that the **Synchronization Frequency** field contains a valid integer.
    b) Verify that the **Maximum Number of Threads** field contains a valid integer.
    c) Click the **Error Notification** tab.
    d) In the **Email Settings** group, if there is a value in the **Frequency** field, verify that it contains a valid integer.
    e) Save the settings.
7. Go to the **Connections** page. For each connection, click (**Edit**). Look in the **Error Notification** group. If there is a value in the **Frequency** field, verify that it contains a valid integer.
8. Save the connection.
9. Restart the server.

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