



Atlas Planning and Tracking Suite 4.1

Release Notes

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Components

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

Atlas 4.1

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 4.1

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 HF6

A web application that allows you to synchronize assets from third party tools into Atlas Hub (and thereby, into Atlas and Rhythm).

Atlas Hub 16.0

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

4.1

The following are the latest features for Atlas:

Time Machine Available from More Perspectives

Time Machine is now available in all perspectives, except Home.

Time Machine Performance Enhancements

Various enhancements to Time Machine improves the performance. For example: a shared Web cache is enabled across the application, allowing faster load times.

Ability to Generate Reports Based on Time Machine

While in a Time Machine view, you can now generate a report based on the view.

Access to Reports from All Perspectives

Reports are now accessible from any perspective.

Plan Review Comparison Report

Plan Review reports now have the option to create a comparison to Time Label states created in the Time Machine. The report notes items added, items modified, and items deleted. The index notes areas that are modified or unchanged, giving you a quick glance and access to the areas that most interest you.

Directional Flow in Relationship Diagram

Relationship Diagrams are organized by To and From relationships. When you select a requirement and view the Relationships Diagram, requirements linking to the requirement display on the left of the diagram flowing to the selected requirement. Whereas, requirements linking from the selected requirement display to the right flowing away from the requirement.

Visual Indicators in Relationship Diagram

Relationship Diagrams have indicators to help determine relationship and status at a glance.

- Orange lines indicate a relationship with an external project.
- Gray lines indicate a relationship within the project.
- Solid lines indicate a normal status.
- Dashed lines indicate a deferred or suspect status.

Additionally, if you hover over the connecting lines, status details appear.

Filter Relationship Diagram

You can filter the Relationship Diagram to display relationships based on Relationship Type and Relationship Status.

What's New in Rhythm

4.1

The following are the latest features for Rhythm:

Attachments

Stories allow you add file attachments, just like Atlas. Refer to the topic titled *Using Attachments with Stories* in the online help.

Bulk Edit in Grids

You can now perform bulk edits on multiple rows for any visible column in grids.

Customizable Swimlanes

Task **Status** values are now customizable.

For Administrators	In Admin Tools , click the Task Status/Swimlanes tab to create new Status values and enable the ones you want the team to use.
Users	In grids and the Story Editor The Status control will contain the number of Status Values that are defined. Just click the Value.
	In the Team Room When you select a Story in the Sprint Cards view, your tasks display in columns based on the Status Values. Simply drag-drop the Task to change the Status .

Discussions

Stories in Rhythm allow you to have Discussion Topics, similar to those in Atlas. Refer to the topic titled *Discussions* in the online help.

Import/Export

You can now import Stories into or export Stories out of a CSV file.

Import Use your favorite CSV editing tool, such as Microsoft Excel, to create Stories and import directly into Rhythm.

Export Export selected Stories out of Rhythm and use your tool of choice to consume the data.

Input Streams

Input Streams enable business and quality teams to work in seamless cadence with the Agile development team. Using Micro Focus Connect, *Input Streams* allow you to pull in external Requirements and Defects into the Rhythm Backlog for you to review and discuss. If you then choose to *Accept* them, new Epics/ Defects are created in Rhythm with clear traceability back to the original external asset. This link provides a mechanism for feedback to the original author.

Relationships

You can now create direct, traceable relationships from Story to Story. Further, you can view and track the relationship directly back to the Requirement or other related asset in Atlas and monitor and action any changes. Refer to the topic titled *Relationships* in the online help.

StarTeam Agile Replacement

StarTeam Agile customers should now use Rhythm as their agile tracking tool. If you plan to continue to use StarTeam Agile, you need to open the `ALMConfiguration.xml` file and change this value: `<goToStarTeamAgile>TRUE</goToStarTeamAgile>`. Additionally, refer to the installation guide to learn about enabling the StarTeam Agile `.WAR` file.

Tags

You can now *Tag* Stories. This provides the ability to tag similar Stories with relevant labels to group and review the items together. Refer to the topic titled *Using Tags* in the online help.

Versions

Stories now save versions for every time the Story is changed. You can easily see how the Story changed by comparing the differences. Refer to the topic titled *Viewing and Comparing Versions of a Story* in the online help.

What's New in Micro Focus Connect

1.6.6

This section lists changes for Micro Focus Connect 1.6.6.

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

What's New in Atlas Hub

16.0

The following are the new features in this release.

Atlas Hub

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

Cloning Users

You can now clone existing users to facilitate creating a new user based on another. In the **User Manager**, right click and select **Clone**.

Custom Component Builder

The Custom Component Builder now allows you to:

- Clone a component definition to quickly create a new one based on another.

- Export a definition to save a copy of it.
- Read and display the XML file from other server configurations.

Database Migration

You can now use the database migration function to migrate PostgreSQL to Oracle or Microsoft SQL Server.

Additionally, database migration is now supported on StarTeam Server running on Linux operating system.

Import/Export Manager

You can now use **Import/Export Manager** to copy data between Microsoft SQL Server and PostgreSQL.

Online Purge

Online Purge now supports PostgreSQL.

Server Configuration Settings

DefaultBinaryExtensions This new setting in `starteam-server-configs.xml` allows you to specify a semi-colon separated list of extensions which will automatically be treated as binary files on check-in.

Search

The following are the new features for search:

- You can select multiple configurations to search.
- You can search using non-Windows Clients.
- You can search using the StarTeam Web Client.
- You can search users and groups in the **User Manager**.

Shut Down Remote Server

You can now use the **Server Administration Utility** to shut down remote server configurations. Click **Actions > Shut Down Server**.

Fixes

The following section contains the fixes for this release.

Hot Fixes in Atlas

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 Micro Focus Connect

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 of `itemNotFoundException`.
- 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 <i>synchronization</i> or <i>TypeMap</i> is one way, then <code>create new</code> and <code>delete</code> are treated as <code>false</code> in the source.
Synchronization Direction Tag	The <i>Direction</i> tag for a synchronization is over-riding the <i>Direction</i> tag at a <i>TypeMap</i> 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 Atlas Hub

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.

Known Issues

This section contains any Known Issues for this release.

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

Installation

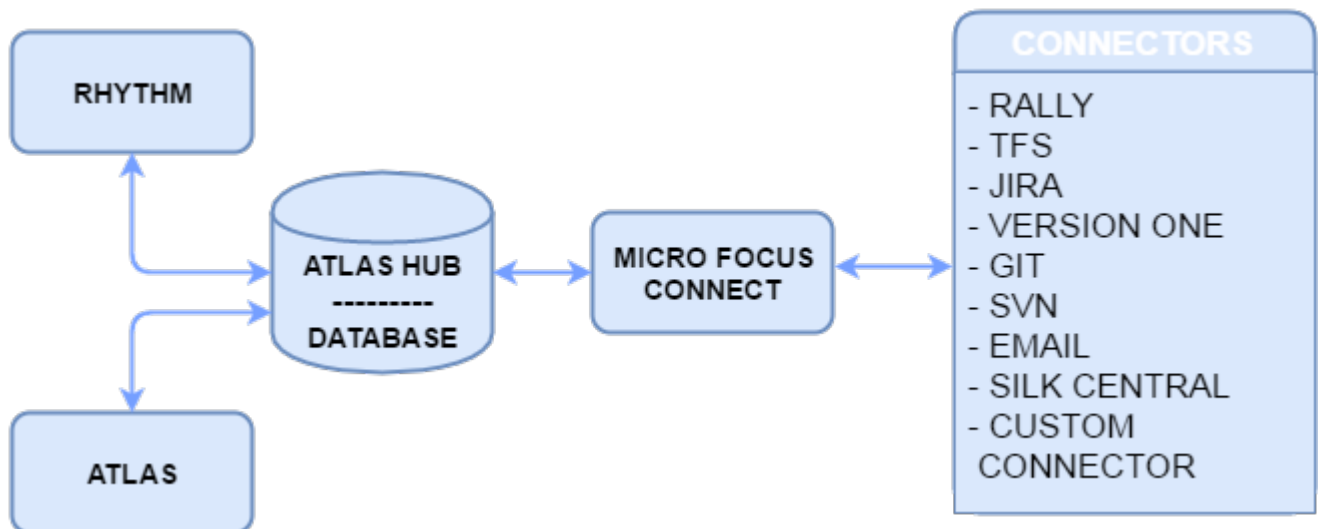
You are about to install the **Atlas Planning and Tracking Suite**. Before proceeding with installation, prepare the following items:

- 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, StarTeam Agile, 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.

 **Tip:** 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.


 **Important:** 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 16.0 SDK that is installed with the Atlas Hub:


```
stcmd target-releases -p "user:password@host:port/project name/"
```

Running this command will 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.

 **Note:** 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.

 **Important:** 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. After installation, you can check your original `Connect.xml` file back into the `StarFlow Extensions/Connect` folder.

 **Important:** We recommend backing up the Atlas Hub installation directory in order to preserve your configuration files.

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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