What’s New in TeamForge 7.2:
Full Lifecycle Traceability & Reporting Regardless of What Tools Teams Use

More Agile Planning and Tracking Features, Expanded Reporting & Usability, Orchestrate-TeamForge Tracker Integration, and New Git/Gerrit Functionality

With TeamForge 7.2, you can now plan, manage and instantly see the status of all projects through all stages of development, from planning through deployment. New features include enhancements for Agile teams, out-of-box lifecycle metric reports and powerful customized reporting capabilities, updates to Orchestrate as well as updates for the latest versions of the most popular enterprise development tools including Git/Gerrit.

TeamForge 7.2 adds a wealth of additional features that further enable global organizations with:

- An Open ALM Platform that integrates with individual teams’ favorite point tools to deliver higher quality software faster and be responsive to their business needs.
- Flexible Process Templates that enable scaling of companywide tool chains and repeatable processes for consistency and operational efficiency.
- A Collaboration Architecture that allows mapping of business lines and enterprise technology architectures into categories, groups and projects to drive global visibility and organizational improvement.
Improved Agile Planning & Tracking Features

Task Board View

- **Task Boards** help teams manage the progress and status of work items in the current sprint. Combined with the Planning Board, you can now manage and report on all stages of the delivery life cycle from project planning and all related work items. Always know the progress of all work items all the way through delivery.

- Monitor the status of every feature in each sprint (or iteration), and assigned product backlog to specific sprints.

- Break stories down into tasks, add new tasks for a backlog item (epic, story, etc), move tasks across swimlanes, and more...as you track the progress of all tasks of stories through delivery.

You now have three ways to view artifacts and trackers in Planning Folders.

- **List view** which gives you the familiar table of artifact values and retains all of its familiar capabilities and functionality

- **Plan view** which shows the artifacts in a planning folder hierarchy on the planning board

- **Task view** which serves as a focal point keeping the daily meeting focused on progress and obstacles.

Support for Dynamic Planning – Agile or any flavor you choose

- **Tracker summary screen.** TeamForge 7.2 incorporates a new Tracker Summary screen display to accommodate planning folders, treeviews, and multiple tracker viewing. The Tracker Summary section is available at the top of the screen with summaries of open and closed artifacts as well as a summary of open artifacts by priority. The Planning Folders section is located at the bottom of the Tracker Summary screen. This section includes summaries of open and closed artifacts, a summary of open artifacts by priority, and a summary of Effort for each planning folder.

- **Tree view.** TeamForge 7.2 incorporates an expandable and collapsible tree view of the planning folder hierarchical structure to display parent/child relationships of artifacts. The tree view allows for the viewing of artifacts in a hierarchical structure and displays parent/child relationships across multiple trackers.
Iteration Cumulative Flow Chart

Track the progress of backlog items by status for a sprint or a release to help you forecast and track progress, manage scope, and identify bottlenecks.

- Forecast and track progress. The states of the scheduled work items indicate the progress of your development as it moves to completion.
- Manage scope. As your scheduled work item bars become level, it is easy to see when excess work is added to an iteration.
- Identify bottlenecks. Use the rolled-up states of your scheduled work items to determine if there are trends that indicate bottlenecks. For example, a large section of scheduled items in a completed state as compared to a small amount of accepted may indicate a testing roadblock.

Average Age Report Chart

Track the average age of artifacts of the tracker types you select within any planning folders you select. You can identify the time unit as hours, days or weeks, and choose whether or not to include weekends in that duration and more.

- Identify Trackers and/or Planning Folders to display the average age of the artifacts.
- Choose the time unit and whether or not to include weekends.
- Report on “Open Only” or “Closed” artifacts.
- View your report.
- Add the report to your Project Home Page.

Committed vs. Done Chart

Track how many story points are completed within the iteration so you compare the amount of work (in terms of story points) committed, completed and missed for a sprint.

- How many story points are committed and completed within the iteration.
- How many story points were accepted by PO within the iteration and how many were accepted after the iteration (moved to next).
- Select a folder and it looks at children (Release -> Iteration).
HighCharts for Planning Folder Burn Down Charts

Advanced charting capabilities using HighCharts have been extended across TeamForge projects and charts—including Burndown charts, Open by priority and Open Vs Closed charts, as well as charts in the planning folder.

Support for Command Line Interface (CLI) Reporting

TeamForge CLI Documentation is now available to help you create custom reports leveraging TeamForge’s powerful reporting framework. Find the documentation at http://help.collab.net/topic/clireportsframework/faq/cliframeowkoverview.html.

Customizable Metrics and Dashboards

Working with some of the world’s largest enterprises, CollabNet has packaged industry best engineering practices into customizable metrics and dashboards accessible from the CollabNet community site. CollabNet continuously provides new templates between TeamForge release cycles to ensure you have the latest and greatest.

New Features to Improve Usability, Administration & Integrations

Usability, administration and integration updates provide you with the most secure infrastructure, as development teams adopt the latest and greatest technologies to help them do their jobs. The latest shipping versions of Subversion, Git, Gerrit, and more are fully-tested, supported and ship with tight integrations to TeamForge 7.2.

- **Multi-Select Jump-To.** A new feature in the keywords function on multi-select filters makes it easier to find what you need by jumping to a value in a multi-select list when typing the first letter.

- **Quick View Edit in Tracker & Planning Boards.** Planning Boards have added a Quick Edit icon so you can instantly view and edit artifacts and Expandable Text Box fields.

- **Native Orchestrate Integration.** Orchestrate is now a native TeamForge component with preconfigured TeamForge Trackers (JIRA trackers integration with Orchestrate is optional).

- **Print or Download HighCharts.** Home page lifecycle metric reports can now be printed or downloaded in different formats.

- **Planning Board Stretch.** Larger, more detailed descriptions can be accommodated by dragging the corner of the description text box to expand it in the Planning Board popup.

- **Event and Email Delivery.** Enhancements include improved RBAC query, faster email processing & delivery, and new send and monitoring options. BCC is now used in place of CC, batch sends are available, and there is separate monitoring for events.

- **Easier On-boarding & Installation.** The new CTF installer has been improved to provide an easier, more modern and robust onboarding and upgrading experience. We’ve made it easier to upgrade
and install TeamForge by removing virtually all manual steps involved in the installation. Oracle is now part of the mainstream installation and "About add-ons" is now a core product page. The install documentation has been improved. The CATF installer repos are now RPM based and SCM integrations are now automatically integrated during the installation process.

- **Enterprise Support.** Enterprise support for Subversion 1.8.8 and support for Gerrit 2.7 (8.1.x series) with SuSe on RHEL. Also the TeamForge integration new features include the ability to receive automated emails notifications for all Git changes, and usable workflows. Additionally, CollabNet has extended support for 10 down-rev “point” or dot releases of Git (8.0.1 to 8.0.6 and 8.1.0 to 8.1.3).

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**TeamForge with Orchestrate Integration for Full Lifecycle Traceability**

TeamForge with Orchestrate connects disparate tools, teams and activities, producing cross-functional associations and visual traceability throughout the software development lifecycle, while delivering central visibility and control for your enterprise. Visualize and monitor all your delivery pipelines and activity streams by monitoring any tool—from planning, code, build, test, release and deployment. Automatically create associations across any activity provide full-traceability into who did what, where, when and why in real time.

**Preconfigured Orchestrate Tab upon project creation**

TeamForge 7.2 Orchestrate is now preconfigured in TeamForge upon project creation and updates provide deeper integration with third-party tools, adds work Item orchestration, and includes packaged adapters for CollabNet TeamForge Issue Tracker (or any other similar tool). New features also included are notifications of activity stream updates, the ability to customize default pipelines, along with other user and performance enhancements.

**Work Item Associations via TeamForge Trackers or Any Similar Tool**

In addition to commits, builds and code reviews, Orchestrate now supports the inclusion of “work item” activities via the TeamForge Issue Tracker or via adapters for other third-party issue trackers. Adapters allow you to build your own integration with similar tools.
• **Work Item Orchestration.** TeamForge now supports work item orchestration with packaged adaptors for the CollabNet TeamForge tracker. Adding a tracker source to a pipeline brings work item updates to the Orchestrate activity stream, providing broader lifecycle coverage and traceability.

• Clicking the Projects link in the navigation breadcrumbs brings you to a two-tiered view that displays the pipelines and tracker sources for each project you have access to.

• By default, the TeamForge trackers in each project are made available to Orchestrate as tracker sources. JIRA and other tracker sources can be added by clicking **Add Tracker Source.** Clicking the Add Tracker Source button brings up the Tracker source screen where you can enter configuration data for the tracker source you’d like to add.

• Once a tracker source is added, individual trackers can be added to a pipeline.

• Click the **Work Item** step in the pipeline then **Add a New Source.**

• Each pipeline can be scoped so that only selected trackers and work item statuses appear in the stream.
Once one or more trackers are added to a pipeline, work item updates show up in the pipeline activity stream. (Refer to upper left image above)

Clicking a work item displays details and metadata about the work item. Click See work item to navigate directly to the work item in the source tracker. (Refer to upper right image above)

Referencing a TeamForge tracker or JIRA Object ID in a commit message will automatically create an association between the work item and commit. (Refer to bottom left image above)

Work item associations are catalogued. The traceability explorer shows work items and their relationships. (Refer to bottom right image above)

**Notification of Activity Stream updates**

Orchestrate now includes notifications of activity stream updates both on the page and in the browser tab to stay abreast of new activities and never miss a beat.
Default Pipeline

In TeamForge 7.2, a default pipeline is displayed when you click the Orchestrate button. By default, the default is the oldest pipeline. Change the default pipeline by clicking the Mark as default button on a pipeline home page.

More details in Activity Widgets

Association and traceability “view” widgets now show more information to clue you into the heart of your pipelines much faster. For example, commit widgets now show the commit message, build widgets show summary test result stats, and code review widgets show the title information.

Other TeamForge Orchestrate Updates

TeamForge trackers, Jira work items, or similar items from any other external source can be added to your pipeline steps from the list of available trackers for new and previously identified Tracker Sources. Also, you can now list all pipelines to which you have access and view Tracker Source information identifying the contributors to tracker steps from within Orchestrate’s Projects link in the navigation breadcrumb. Additionally, you can change your default pipeline to show your favorite pipeline and activity streams.

Why Use Orchestrate in Your Projects

The TeamForge Orchestrate tab in your project acts as a control center for delivery pipelines with embedded social activity streams, extensible APIs, and automated, graphical traceability of delivery pipelines across tools and clouds. Teams can achieve greater efficiency through global pipeline visibility, identification and remediation. Visually track and monitor all your pipelines and related work items down individual issues, code commits, code reviews, continuous integration activities, and these complex relationships from a single modern and lightweight user interface. Spend less time with cumbersome point tools and more time writing, testing, and deploying code.

- **Full-Traceability.** Traceability is a key requirement for visibility and governance, however, traditionally it has been difficult to achieve in mixed tools environments. TeamForge Orchestrate automates traceability across activities, regardless of the underlying tools, to achieve compliance and provide an auditable “system of record.”

- **Delivery Pipeline Visualizer.** TeamForge Orchestrate includes an interactive, graphical interface for visualizing activities you are monitoring. Interactive graphical displays help to quickly provide root cause analysis of build failures or roll back to underlying associations for further insight. One click to discover and drill-in to answer questions such as. What broke my build? How was that code tested? And by whom?

- **Open and Extensible.** Orchestrate allows you to integrate a heterogenous tool chain, allowing you to harness your best-of-breed tool tools across the enterprise. Now, any tool can be included by writing your own adapter.
• **Social Activity Streams.** TeamForge Orchestrate facilitates collaboration and coordination with embedded activity streams in the CI/CD pipeline that link comments and discussions to events, data and activities. These activity streams add context to events - the “who” and “why” to the “what” and “how”.

## New in TeamForge 7.2 Git/Gerrit

New features in TeamForge 7.2 Git/Gerrit support include a more user friendly and accessible history rewrite plugin, a new SCM activity notification plugin, and enhanced support for TeamForge project scope (dashboards and RBAC). Additionally, TeamForge 7.2 adds support for Gerrit 2.7 on all platforms.

### History Rewrite Resurrection

In TeamForge 7.2, Project Resurrect is now available to all Gerrit users, and no longer limited to Gerrit or Site Administrators. Users with Git read permissions may now resurrect deleted Git branches through the Gerrit UI. Hovering over deleted SHA1s will show the associated commit messages. [Learn more here.](#)

### Improved Gerrit Notifications

There is a brand new notification plugin for Gerrit, which ensures you never miss an accidental Git history rewrite because you don’t have access to the repository. Git push activity and history protection events can now be automatically sent to TeamForge forums allowing users without repository access to receive notifications. [Learn more here.](#)

### Repository-level Delete Permission

TeamForge now provides more detailed permissions for your Source Code tool, allowing View, Commit and Delete permissions to be granted to roles on an individual Git repository basis. [Learn more here.](#)

The new TeamForge – Git integration provides more detailed user permissions for your Source Code tool, allowing View, Commit and Delete permissions to be granted to roles on an individual Git repository basis.
Project Owners can now have repositories with different Code Review settings and determine a role’s access to each separately. Previously the delete permission could only be set on all Git repositories in a project not on individual repositories. As a result, if you wanted to establish a role that had the reviewer permissions for a Git repository that you defined as having an "Optional Code review," then users with that role were automatically reviewers on all "Mandatory Code review" Git repositories. You had no ability to block them from having a role (specifically the reviewer role) for the Mandatory repository or you had to establish separate TeamForge projects to support both.

Delete Gerrit Projects
Gerrit Administrators can now permanently delete/recycle projects (Git repositories) in Gerrit (see: http://wp.me/p2TTRs-3Hy). Use this feature if you want to delete repositories and all code reviews associated with them because the code is no longer needed/used; reuse an old project name; or free up disk space.

To permanently delete Gerrit projects, use the new Gerrit Delete-Project plug-in compatible with CollabNet TeamForge 7.2. You can download Gerrit Delete-Project plug-in jar (delete-project-1.1.jar) file from the ctf.open.collab.net site here.

TeamForge Project Scoped Dashboards
In TeamForge 7.2, you can now see Gerrit change requests across different Git repositories within the same TeamForge project in one dashboard/report. Clicking the Dashboards button in Gerrit displays four dashboards which group all changes to all Git repositories of the parent TeamForge project. For more information visit: http://blogs.collab.net/teamforge/introducing-teamforge-project-scope-into-gerrit-welcome-to-cross-repo-dashboards-and-advanced-rbac and http://wp.me/p2TTRs-3Jx
Advanced RBAC

You can now define custom Gerrit access rights that inherit down to all Git repositories of the same TeamForge project. This allows project administrators the ability to delegate access rights across all Git repositories in a project. From within Gerrit, click Access. Granting permissions to groups at this level will allow those permissions to be applied to all Git repositories in the project. Learn more here.

Other Enhancements

More performant eventing for TeamForge makes it easier for a project to use more than 100 Git repositories which is especially important for customers doing Android or ChromeOS development. A plug-in is available allowing Gerrit administrators to now permanently delete and recycle projects or repos in Gerrit. Learn more here.

Support for Gerrit 2.7 (on SuSe, CentOS and RHEL)

Gerrit 2.8 support will come in Q3 as part of the frequent delivery stream (13 point releases since TeamForge 7.1 so far).

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