

Benares EAP (build 5644) Release Notes

Build tagging

We are introducing build tags as means for organizing the builds. For example, we tag the builds that are released in the EAP.



In addition to marking builds with multiple tags, you can also filter builds in the history by clicking the desired tags.

Selena :: Installers ▶ History



Filter builds by tags: [View entire history >>](#)

#	Results	Artifacts	Changes
#7291	 Success	 View	Changes (10)
#7274	 Success	 View	Changes (24)
#7269	 Success	 View	Changes (18)
#7255	 Success	 View	Changes (295)

Thread dumps for Java and .Net build processes

This EAP release introduces a new feature that is aimed to address one of the shortcomings of a dedicated Continuous Integration server (multiple build agents in case of TeamCity): the necessity to login to a machine in the event that something goes wrong with the build. In addition to 1.0 version-old feature of killing the entire build processes tree right from the web UI, we are now providing means to investigate the issue: the ability to get the Java or .Net process thread dump right from the web UI!

Just click the link for the running build:

Overview of build #5644 (20 Sep 18:32)

Started:	 20 Sep 18:32 Stop build
Time left:	20m:06s (passed: 40m:26s, estimate: 1h:0m)
Triggered by:	lesya
Agent:	unit-177
Running step:	test : testng : Server Suite
Thread dump:	View thread dump

And a page showing the thread dump of the build processes(s) opens:

Thread dumps of Benares :: MasterBuild #5645

Process ID (PID): 3292

Process command line

```
"Thread-957" group="XML-RPC Runner" prio=5 id=2 546
  at java.net.SocketInputStream.socketRead0(Native Method)
  at java.net.SocketInputStream.read(SocketInputStream.java:129)
  at java.io.BufferedInputStream.fill(BufferedInputStream.java:218)
  at java.io.BufferedInputStream.read(BufferedInputStream.java:235)
  at org.apache.xmlrpc.WebServer2$Connection.readLine(WebServer2.java:798)
  at org.apache.xmlrpc.WebServer2$Connection.run(WebServer2.java:675)
  at org.apache.xmlrpc.WebServer2$Runner.run(WebServer2.java:609)
  at java.lang.Thread.run(Thread.java:595)

"Java2D Disposer" group="system" prio=10 daemon id=58 java.lang.ref.ReferenceQueue$Lock@eaaa40
  at java.lang.Object.wait(Native Method)
  at java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:116)
  at java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:132)
  at sun.java2d.Disposer.run(Disposer.java:125)
  at java.lang.Thread.run(Thread.java:595)

"Change Observer 1" group="main" prio=5 id=2 549
  at sun.misc.Unsafe.park(Native Method)
  at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:146)
  at java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(AbstractQueuedSynchronizer.java:217)
  at java.util.concurrent.DelayQueue.take(DelayQueue.java:135)
```

If the process is not Java or .Net, its command line is retrieved.

Please note that in this release Java thread dumps are supported only under Windows x86.

Search by build number

As the first step towards built-in search capabilities, searching by build number is now available:

Administration My Settings & Tools 5644

1 build found close

Build configuration	Build	Build artifacts
Benares :: MasterBuild	#5644 ✔ Tests passed: 2458, ignored: 8	View ▼

[» view results on a separate page](#)

No artifacts Changes (26) ▼ 19 Sep 01:30 (5m:28s)

Idle Pending (70) ▼ Run ▼

No artifacts Changes (26) ▼ 19 Sep 01:30 (46m:06s)

The search results can be viewed either in a pop-up window or on a separate page.

VCS-related improvements

VCS root specific user names

If TeamCity queries multiple VCS servers, you can now specify specific usernames for each VCS root configured.

VCS trigger quiet period

If your projects use several VCS roots you may benefit from new VCS trigger quiet period setting. This ensures TeamCity triggers a build only after a specified period for all VCS roots of the build configuration if there are no changes submitted to the VCS.

VCS triggering filters by VCS user, VCS root

Using VCS triggering rules you can now prevent builds from being triggered after changes are made by a particular user or checked into a specific VCS root. This can be used, for example, to prevent build from being triggered when the process itself checks changes in.

The syntax is a bit tricky, but quite powerful.

Build Triggering

Installers build configuration is currently active Pause

VCS Triggers Schedule Dependencies Other triggers

Enable triggering when files are checked into VCS

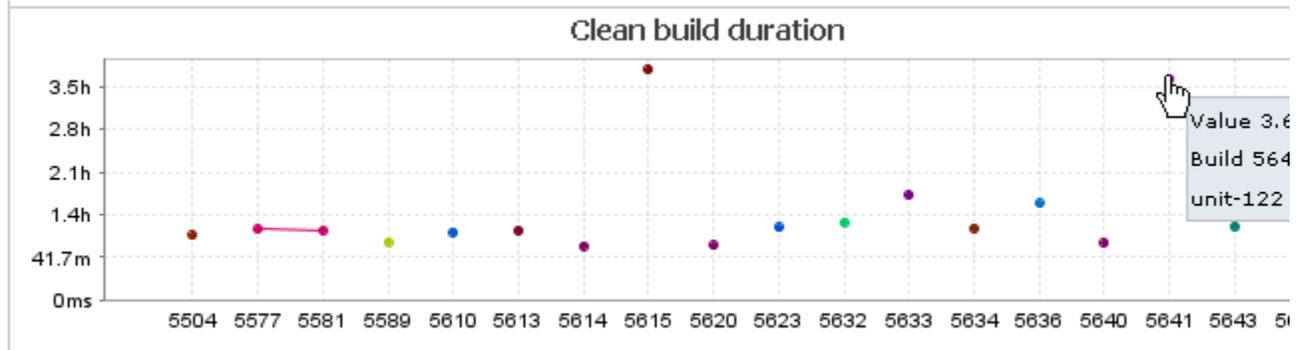
Trigger quiet period: 60

Build trigger rules: ?

```
+:**
-:user=builduser:**
-:root=External SVN:**.html
-:doc/*.xml
```

Statistics improvements

- New filters for date range and build status
- Code coverage statistics graph (displays 4 series for class, method, block and line coverages)
- Clean build duration (a build without checkout time) graph



RSS feeds for finished builds of a build configuration

If you use an RSS reader, you can now be notified about finished builds via a usual RSS feed (just make sure your RSS reader can access the server, and the [status widget](#) is enabled for the build configuration). Feed item text is generated using the [Free Marker](#) template engine, and if you are not afraid looking under the bonnet, you can customize the feed to better suit your needs (a default template sample is located in `.BuildServer\config\default-feed-item-template.ftl`).

 [Subscribe](#) to finished builds feed

Other

- Ability to view web diff for personal build changes
- External server URL (used in notifications) can now be edited via the web UI on the Server Configuration page
- Numerous performance improvements
- Multiple bug fixes for IPR build runner
- Simplified VCS roots attaching/detaching: now you can attach and detach VCS roots to/from the build configurations right from the Edit Project page