

# Project : apache

We introduce some terms for avoiding confusions.

- **Explicit version declaration in Maven:** a library version is declared as a hard-coded value in version tag, e.g., `<version>2.5</version>`.
- **Implicit version declaration in Maven:** a library version is declared as a referenced value in version tag through a declared property, e.g., `<version>${guava.version}</version>`.
- **Inconsistent library:** a library whose multiple versions are used in multiple modules of a project; e.g., module A declares guava 2.5 but module B declares guava 2.6.
- **False consistent library:** a library that is used in multiple modules of a project with the same version declared separately; e.g., module A declares guava 2.5 explicitly and module B declares guava 2.5 explicitly. Therefore, such a consistency is likely to turn into inconsistency when there is an incomplete library update.

## I. Overview

Your project have **1** inconsistent library.

## II. Inconsistent Libraries

### 1. junit:junit

The distinct versions are 4.13, 4.12.

Index	Module	Type	Property	Version
1	hbase-rest	implicit	junit.version	4.13
2	hbase-shaded/hbase-shaded-check-invariants	implicit	junit.version	4.13
3	hbase-shaded/hbase-shaded-testing-util-tester	implicit	junit.version	4.13
4	hbase-it	implicit	junit.version	4.13
5	hbase-assembly	implicit	junit.version	4.13
6	hbase-build-configuration	implicit	junit.version	4.13
7	hbase-testing-util	implicit	junit.version	4.13
8	hbase-metrics-api	implicit	junit.version	4.13
9	hbase-procedure	implicit	junit.version	4.13
10	hbase-rsgroup	implicit	junit.version	4.13
11	hbase-hadoop-compat	implicit	junit.version	4.13
12	hbase-replication	implicit	junit.version	4.13
13	hbase-shaded/hbase-shaded-client-byo-hadoop	implicit	junit.version	4.13
14	hbase-thrift	implicit	junit.version	4.13
15	hbase-metrics	implicit	junit.version	4.13
16	hbase-shaded/hbase-shaded-client	implicit	junit.version	4.13

17	hbase-shaded/hbase-shaded-testing-util	implicit	junit.version	4.13
18	hbase-hbtop	implicit	junit.version	4.13
19	hbase-hadoop2-compatible	implicit	junit.version	4.13
20	hbase-mapreduce	implicit	junit.version	4.13
21	hbase-examples	implicit	junit.version	4.13
22	hbase-archetypes/hbase-shaded-client-project	implicit	junit.version	4.12
23	hbase-zookeeper	implicit	junit.version	4.13
24	hbase-shaded/hbase-shaded-with-hadoop-check-in-variants	implicit	junit.version	4.13
25	hbase-protocol-shaded	implicit	junit.version	4.13
26	hbase-shaded	implicit	junit.version	4.13
27	hbase-backup	implicit	junit.version	4.13
28	hbase-shell	implicit	junit.version	4.13
29	hbase-protocol	implicit	junit.version	4.13
30	hbase-annotations	implicit	junit.version	4.13
31	hbase-shaded/hbase-shaded-mapreduce	implicit	junit.version	4.13
32	hbase-common	implicit	junit.version	4.13
33	hbase-checkstyle	implicit	junit.version	4.13
34	hbase-archetypes/hbase-archetype-builder	implicit	junit.version	4.13
35	hbase-resource-bundle	implicit	junit.version	4.13
36	hbase-server	implicit	junit.version	4.13
37	hbase-archetypes	implicit	junit.version	4.13
38	hbase-external-blockcache	implicit	junit.version	4.13
39	hbase-client	implicit	junit.version	4.13
40	hbase-endpoint	implicit	junit.version	4.13
41	hbase-archetypes/hbase-client-project	implicit	junit.version	4.12
42	hbase-http	implicit	junit.version	4.13

## Harmonization Recommendation

### Inheritance Relationship of POMs in All Related Modules

See [apache\\_fdse\\_hbase\\_2020-02-20\\_junit\\_junit\\_jar\\_0.png](#) for details.

The inconsistent library versions in Modules 1-42 are harmonized into version 4.13-beta-1.

### Harmonization Effort

Index	Module	NA (NAC)	NDA (NDAC)	NMA (NMAC)
1	hbase-rest	33(134)	0(0)	0(0)
2	hbase-shaded/hbase-shaded-check-invariants	0	0	0
3	hbase-shaded/hbase-shaded-testing-util-tester	1(1)	0(0)	0(0)
4	hbase-it	12(25)	0(0)	1(1)
5	hbase-assembly	0	0	0
6	hbase-build-configuration	0	0	0
7	hbase-testing-util	1(1)	0(0)	0(0)
8	hbase-metrics-api	0	0	0
9	hbase-procedure	44(125)	0(0)	0(0)
10	hbase-rsgroup	4(11)	0(0)	0(0)
11	hbase-hadoop-compat	1(1)	0(0)	0(0)
12	hbase-replication	11(39)	0(0)	0(0)
13	hbase-shaded/hbase-shaded-client-byo-hadoop	0	0	0
14	hbase-thrift	27(122)	0(0)	0(0)
15	hbase-metrics	7(24)	0(0)	0(0)
16	hbase-shaded/hbase-shaded-client	0	0	0
17	hbase-shaded/hbase-shaded-testing-util	0	0	0
18	hbase-hbtop	3(17)	0(0)	0(0)
19	hbase-hadoop2-compat	12(23)	0(0)	0(0)
20	hbase-mapreduce	108(389)	0(0)	0(0)
21	hbase-examples	7(14)	0(0)	0(0)
22	hbase-archetypes/hbase-shaded-client-project	1(4)	0(0)	1(4)
23	hbase-zookeeper	26(82)	0(0)	0(0)
24	hbase-shaded/hbase-shaded-with-hadoop-check-invariants	0	0	0
25	hbase-protocol-shaded	0	0	0
26	hbase-shaded	0	0	0
27	hbase-backup	11(89)	0(0)	0(0)
28	hbase-shell	0	0	0
29	hbase-protocol	0	0	0
30	hbase-annotations	0	0	0
31	hbase-shaded/hbase-shaded-mapreduce	0	0	0

32	hbase-common	143(547)	0(0)	0(0)
33	hbase-checkstyle	0	0	0
34	hbase-archetypes/hbase-archetype-builder	0	0	0
35	hbase-resource-bundle	0	0	0
36	hbase-server	1375(4528)	0(0)	1(1)
37	hbase-archetypes	0	0	0
38	hbase-external-blockcache	0	0	0
39	hbase-client	73(232)	0(0)	0(0)
40	hbase-endpoint	25(75)	0(0)	0(0)
41	hbase-archetypes/hbase-client-project	1(4)	0(0)	1(4)
42	hbase-http	11(25)	0(0)	0(0)

*NA (Number of APIs): the number of called library APIs in one module.*

*NAC (Number of API Calls): the number of library API calls in one module.*

*NDA (Number of Deleted APIs): the number of called library APIs that are deleted in the recommended library version.*

*NDAC (Number of Deleted API Calls): the number of library API calls that are deleted in the recommended library version.*

*NMA (Number of Modified APIs): the number of called library APIs whose call graphs (A control flow graph which represents calling relationships between subroutines in the library) are modified in the recommended library version.*

*NMAC (Number of Modified API Calls): the number of library API calls to modified library APIs.*

## Files related:

Module	File	Type	API
hbase-it	hbase-it/src/test/java/org/apache/hadoop/hbase/mtr/IntegrationTestMTTR.java	Modified	org.junit.Assume.assumeFalse(boolean)
hbase-archetypes/hbase-shaded-client-project	hbase-archetypes/hbase-shaded-client-project/src/test/java/org/apache/hbase/archetypes/exemplars/shaded_client/TestHelloHBase.java	Modified	org.junit.Assert.assertEquals(java.lang.String,java.lang.Object,java.lang.Object)
hbase-server	hbase-server/src/test/java/org/apache/hadoop/hbase/regionserver/wal/TestHBaseWalOnEC.java	Modified	org.junit.Assume.assumeNoException(java.lang.String,java.lang.Throwable)
hbase-archetypes/hbase-client-project	hbase-archetypes/hbase-client-project/src/test/java/org/apache/hbase/archetypes/exemplars/client/TestHelloHBase.java	Modified	org.junit.Assert.assertEquals(java.lang.String,java.lang.Object,java.lang.Object)

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5	hbase-assembly	0	0	0
6	hbase-build-configuration	0	0	0
7	hbase-testing-util	1(1)	0(0)	0(0)
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25	hbase-protocol-shaded	0	0	0
26	hbase-shaded	0	0	0
27	hbase-backup	11(89)	0(0)	0(0)
28	hbase-shell	0	0	0
29	hbase-protocol	0	0	0
30	hbase-annotations	0	0	0
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32	hbase-common	143(547)	0(0)	0(0)
33	hbase-checkstyle	0	0	0
34	hbase-archetypes/hbase-archetype-builder	0	0	0
35	hbase-resource-bundle	0	0	0
36	hbase-server	1375(4528)	0(0)	0(0)

37	hbase-archetypes	0	0	0
38	hbase-external-blockcache	0	0	0
39	hbase-client	73(232)	0(0)	0(0)
40	hbase-endpoint	25(75)	0(0)	0(0)
41	hbase-archetypes/hbase-client-pr object	1(4)	0(0)	1(4)
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hbase-archetypes/hbase-client-project	hbase-archetypes/hbase-client-project/src/test/java/org/apache/hbase/archetypes/exemplars/client/TestHelloHBase.java	Modified	org.junit.Assert.assertEquals(java.lang.String,java.lang.Object,java.lang.Object)