Original	First Map	Category	Used by	Examples	Frequencies in %	Semantics in ITS
Backports	Backport	Workflow	MongoDB	TOOLS-1905, TOOLS-1968, COMPASS-4301, DOCS-13026	0.2% [66]	This issue backports / backported by Issue A
				ZOOKEEPER-3534, YUNIKORN-208,		
Blocked	Block	Temporal/Causal	Apache	ZEPPELIN-889	0.4%	This issue Blocked Issue A
				ZOOKEEPER-2342, ZEPPELIN-4452 DAOS-3760, DAOS-273, DAOS-256		
Blocker	Block	Temporal/Causal	Apache, IntelDAOS, Jira, JiraEcosystem	SRCTREEWIN-13457 AC-1027	5.7%, 6.5%, 1.0%, 5.8%	This issue blocks / is blocked by / is blocking Issue A
Blocks	Block	Temporal/Causal	Hyperledger, JiraEcosystem, MariaDB, Mindville, RedHat	URSA-5 ACJIRA-1981 MDEV-15935 ICS-1891 XNIO-376	8.3%, 0.0% [1], 13.0%, 2.3% [1], 15.3%	This issue blocks / is blocked by Issue A
Diocks	DIOCK	Temporali Gadisal	Williams, rearies	SRCTREE-2104 VCACHE-41	2.570 [1], 15.570	This issue Discovered while testing / Testing
Bonfire Testing	Bonfire Testing	Workflow	Jira, JiraEcosystem, Sonatype	OSSRH-66907	0.2% [216], 0.4%, 8.1%	discovered Issue A
Bonfire testing	Bonfire Testing	Workflow	JiraEcosystem	UPM-6051	0.5%	This issue Discovered while testing / Testing discovered Issue A
bornire testing	Bornie resurg	WOIKIIOW	Jiiaccosystem	OF W-0031	0.5 /6	This issue opened during git code review in / git code
Git Code Review	Bonfire Testing	Workflow	Hyperledger, Sakai	FABN-1283 SAK-31134	0.0% [7], 0.0% [1]	review opened Issue A
Tooting	Ponfire Testing	Workflow	Apacha	HDDS-4181	0.00/ 131	This issue Testing discovered / Discovered while
Testing	Bonfire Testing	VVOIKIIOW	Apache	XNIO-380, WINDUP-2292, JBEAP-	0.0% [2]	testing Issue A
Causality	Cause	Temporal/Causal	RedHat	10283	2.7%	This issue causes / caused by Issue A
Cause	Cause	Temporal/Causal	Jira, JiraEcosystem	SRCTREEWIN-13474 AC-1258	1.8%, 3.7%	This issue causes / caused by Issue A
Caused	Cause	Temporal/Causal	Sonatype	NEXUS-5146, NEXUS-1335	5.2%	This issue causes / caused by Issue A
Problem/Incident	Cause	Temporal/Causal	Apache, MariaDB, MongoDB	ZOOKEEPER-3371 CONJ-664, CONJ- 706 WT-7229	1.0%, 6.0%, 1.7%	This issue causes / caused by Issue A
Child-Issue	Parent-Child	Composition	Apache	ZEPPELIN-2368, HADOOP-16264	0.8%	This issue is a parent / child of Issue A
Parent Feature	Parent-Child	Composition	Apache	ZEPPELIN-1967, KAFKA-6687	0.0% [47]	This issue Parent Feature Issue A
Parent/Child	Parent-Child	Composition	SecondLife	STORM-1786, OPEN-105	6.5%	This issue is a parent / child of Issue A
multi-level hierarchy [GANTT]	Parent-Child	Composition	RedHat	RFE-1576	0.1% [57]	This issue is parent task / subtask of Issue A
				ZOOKEEPER-4209, ZOOKEEPER-1104		
Clonere	Clone	Duplication	Apache, Hyperledger, IntelDAOS, JFrog, Jira, JiraEcosystem, Mindville, MongoDB, RedHat, Sakai, SecondLife, Spring	STL-759 DAOS-7120 RTFACT- 22134 SRCTREEWIN-13480 WLC-42 ICC-79 WT-6338 WINDUP-2581, JBEAP-20958 YAFT-60 STORM-698	1.7%, 2.9%, 4.5%, 0.6%, 2.8%, 1.8%, 15.9%, 0.2% [59], 14.4%, 4.8%, 7.6%,	This issue is a clone of / cloned by / cloned as / cloned from / cloned to / clones / orginal of duplicate /
Cloners Cloners (old)	Clone	Duplication	RedHat	SPR-8443 XNIO-381, WFLY-13635	0.1% [14] 1.2%	duplicates Issue A This issue cloned to / cloned from Issue A
Collection	Incorporate	Composition	SecondLife	STORM-2067, STORM-1951	2.2%	This issue includes / is included in Issue A
Container	Incorporate	Composition	Apache	ZOOKEEPER-2139, YETUS-83	1.4%	This issue contains / is contained by Issue A
Contains(WBSGantt)	Incorporate	Composition	JFrog	RTFACT-14728, HAP-1357	1.3%	This issue contains / is contained in Issue A
Incorporate	Incorporate	Composition	Sakai	SAK-43977, SAK-43259	6.7%	This issue incorporates / incorporated by Issue A
Incorporates	Incorporate	Composition	Apache	ZOOKEEPER-3642, YARN-7055	2.7%	This issue incorporates / is part of Issue A
Part	Incorporate	Composition	Jira, JiraEcosystem	SRCTREEWIN-12484 VOTE-56	2.5%, 1.8%	This issue incorporates / incorporated by Issue A
PartOf	Incorporate	Composition	MariaDB	CONJ-736	7.9%	This issue includes / is part of
Superset	Incorporate	Composition	RedHat	WFCORE-5171	9.1%	This issue incorporates / incorporated by Issue A
Completes	Fix	Workflow	Apache	ZOOKEEPER-3829, OFBIZ-12093	0.2% [533]	This issue fixes / fixed by Issue A
Fixes	Fix	Workflow	Sonatype	OSSRH-54803	2.4%	This issue fixes / fixed by Issue A
Resolve	Fix	Workflow	Jira	MIG-150	0.1% [54]	This issue resolves / resolved by Issue A
Depend	Depend	Temporal/Causal	Sakai, Spring	YAFT-63, XD-3743	12.9%, 8.7%	This issue is depended on by / depends on Issue A
Dependency	Depend	Temporal/Causal	Apache, JFrog, Qt	ZEPPELIN-3856 TCAP-323 QTVSADDINBUG-678	0.0% [99], 8.0%, 16.4%	This issue Dependency / depends on / is a precondition for / is required for Issue A
Dependent	Depend	Temporal/Causal	Apache	ZOOKEEPER-704	0.2% [368]	This issue Dependent Issue A
				SRCTREEWIN-2098 UPM-2955		
Depends	Depend	Temporal/Causal	Jira, JiraEcosystem, MongoDB, SecondLife, Spring	SERVER-54301 STORM-685 SWS- 515	0.1% [51], 1.1%, 17.4%, 4.4%, 3.4%	This issue depends on / depended on by Issue A
Gantt Dependency	Depend	Temporal/Causal	MongoDB	WT-7164	1.1%	This issue has to be done before / after Issue A
						This issue depends upon / is depended upon by Issue
dependent	Depend	Temporal/Causal	Apache, Sonatype	ZOOKEEPER-3561 OSSRH-67203	5.0%, 3.7%	A
Derived	Derive	Workflow	Jira	SRCTREEWIN-6499, JSWCLOUD- 19707	0.5%	This issue derived from / has a derivative of Issue A
Detail	Detail	Workflow	Jira	JSWSERVER-8942	1.9%	This issue details / is detailed by Issue A
Documentation	Documented	Workflow	RedHat	WINDUP-2289	0.5%	This issue documents / is documented by Issue A
Documented	Documented	Workflow	MongoDB	DOCS-10562	4.5%	This issue documents / is documented by Issue A
			-	ZOOKEEPER-4256, IS-1289, DAOS-		
Duplicate	Duplicate	Duplication	Apache, Hyperledger, IntelDAOS, JFrog, Jira, JiraEcosystem, MariaDB, Mindville, MongoDB, Qt, RedHat, Sakai, Sonatype, Spring	3455, TCAP-321, SRCTREEWIN-12912, UPM-3802, CONJ-751, IMFC-41, WT- 7260, PYSIDE-1498, WINDUP-2496, SLIB-77, OSSRH-66926, XD-731	10.2%, 3.9%, 3.6%, 19.9%, 21.8%, 15.8%, 9.4%, 38.6%, 17.4%, 10.7%, 5.1%, 9.5%, 7.9%, 12.1%	This issue duplicates / duplicated by Issue A
Epic	Epic	Composition	JiraEcosystem	UPM-3616	0.2% [21]	This issue belongs to epic / is the epic for Issue A
						This issue Linked one can't finish until this issue is
Finish-to-Finish link (WBSGantt)	finish-finish	Temporal/Causal	JFrog	RTFACT-22296	0.0% [1]	done. / can't finish until the linked issue is done. Issue A
Timor to Timor and (Tracount)	IIIIOI IIIIOI	Tomporus oddodi	0.109		0.4% [13], 0.1% [4], 0.0%	^
Gantt End to End	finish-finish	Temporal/Causal	IntelDAOS, JFrog, MongoDB	DAOS-5115 RTFACT-21385 WT-5940	[16]	This issue has to be finished together with Issue A
Gantt: finish-finish	finish-finish	Temporal/Causal	RedHat	WRKLDS-260	0.0% [18]	This issue has to be finished together with Issue A
finish-finish [GANTT]	finish-finish	Temporal/Causal	RedHat	THREESCALE-6611	0.0% [1]	This issue has to be finished together with Issue A
Gantt End to Start	finish-start	Temporal/Causal	IntelDAOS, JFrog	DAOS-4867, HAP-1445	1.1%, 0.1% [3]	This issue has to be done before / after Issue A
Gantt: finish-start	finish-start	Temporal/Causal	RedHat	WFLY-14567	0.0% [42]	This issue has to be done before / after Issue A
finish-start [GANTT]		Tomporel/C	Dadilet	MELV 44277		This issue has to be done to force to a
Cantt Start to Stort	finish-start	Temporal/Causal	RedHat	WFLY-14377	0.0% [9]	This issue has to be done before / after Issue A
Gantt Start to Start Gantt: start-finish	start-start	Temporal/Causal	IntelDAOS, JFrog	DAOS-3295 RTFACT-20326	0.0% [1], 0.0% [1]	This issue has to be started together with Issue A
Gantt Start to Start Gantt: start-finish						This issue has to be started together with Issue A This issue is triggering / triggered by Issue A
	start-start start-finish Follow	Temporal/Causal Temporal/Causal Temporal/Causal	IntelDAOS, JFrog	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027	0.0% [1], 0.0% [1]	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A
Gantt: start-finish	start-start start-finish	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal	IntelDAOS, JFrog RedHat	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345	0.0% [1], 0.0% [1] 0% [11]	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A
Gantt: start-finish Follows Sequence Implement	start-start start-finish Follow Follow Implement	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow	InteIDAOS, JFrog RedHat Jira, JiraEcosystem RedHat InteIDAOS	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3]	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A
Gantt: start-finish Follows Sequence	start-start start-finish Follow Follow	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [11]	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split	start-start start-finish Follow Follow Implement Implement Split	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperledger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 DAOS-5377 DAOS-508RH-44699 IR-475 CONFCLOUD-30161 PLUGWEB-494 MXS-2632 WT-6718 WFLY-13499 OSSRH-62435	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5]	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split	start-start start-finish Follow Follow Implement Implement Split Split	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperfedger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem	DAOS-3295 RTFACT-20326 RHPANA-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-6377 OSSRH-44699 IR-475 CONFCLOUD-30161 PLUGWEB-494 IMXS-2832 WT-6718 WFLY-13459 OSSRH-62435 JSWSERVER-20493, UPM-1329	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1%	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / from Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown	start-start start-finish Follow Follow Implement Implement Split Split Split	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Composition	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperledger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem Qt	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 IR-475 CONFCLOUD-30161 PULGWEB-949 MXS-2632 WT-6718 WFLY-13459 OSSRH-62435 WFLY-13459 OSSRH-62435 USWSERVER-20493, UPM-1329 QTVSADDINBUG-680	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1% 6.4%	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / into / from Issue A This issue split to / into / from Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split	start-start start-finish Follow Follow Implement Implement Split Split	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperfedger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 IR-475 CONFCLOUD-30161 PLUGWEB-949 MXS-2632 WT-6718 WFLY-13459 OSSRH-62435 JSWSERVER-20493, UPM-1329 QTVSADDINBUG-680 AUI-4437	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1%	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / from Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown Preceded By Reference	start-start start-finish Follow Follow Implement Implement Split Split Split Relate	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Composition Temporal/Causal General Relation	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperfedger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem Qt JiraEcosystem Apache, Jira, JiraEcosystem	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 IR-475 CONFCLOUD-30161 PLUGWEB-494 MXX-2632 WT-6718 WFLY-13459 OSSRH-62435 JSWSERVER-20493, UPM-1329 QTVSADDINBUG-680 AUI-4437 ZOOKEEPER-4269 SRCTREEWIN- 12705 VOTE-21 JSWSERVER-124241 UPM-3813	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1% 6.4% 0.1% [7] 7.1%, 63.6%, 1.3% 0.3%, 22.0%, 48.7%,	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / from Issue A This issue resulted in / from Issue A This issue recedes / Preceded By This issue relates to / is related to Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown Preceded By	start-start start-finish Follow Follow Implement Implement Split Split Split Precede	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Temporal/Causal	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperledger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem Ot JiraEcosystem Apache, Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem	DAOS-3295 RTFACT-20326 RHPANI-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-6377 OSSRH-44699 IR-475 CONFCLOUD-30161 PLUGWEB-494 IMXS-2632 WT-6718 WFLY-1345 OSSRH-62435 JSWSERVER-20493, UPM-1329 QTVSADDINBUG-680 AUI-437 ZOOKEEPER-4269 SRCTREEWIN- 12705 VOTE-21 JSWSERVER-14241 UPM-3813 YAFT-51 XD-3010 WAGON-324 DAOS-6680	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1% 6.4% 0.1% [7] 7.1%, 63.6%, 1.3% 0.3%, 22.0%, 48.7%, 40.9%	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / into / from Issue A This issue resulted in / from Issue A This issue resulted in / from Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown Preceded By Reference	start-start start-finish Follow Follow Implement Implement Split Split Split Relate	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Composition Temporal/Causal General Relation	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperledger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem Qt JiraEcosystem Apache, Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Apache, IntelDAOS, Jira, MongoDB, RedHat, Spring	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 IR-475 CONFCLOUD-30161 PULGWEB-494 MXS-2632 WT-6718 WFLY-13459 OSSRH-62435 UFLY-13459 OSSRH-62435 UFLY-13459 OSSRH-62435 UFLY-13459 OSSRH-62435 UFLY-13459 OSSRH-62435 UFLY-13459 OSSRH-62435 UFLY-13459 OSSRH-162431 UFLY-13459 UFLY-1329 UTVSADDINBUG-680 AUI-4437 ZOOKEEPER-4269 SRCTREEWIN-12705 VOTE-21 UFLY-135WSERVER-14241 UPM-3813 VAFT-51 XD-3010 WAGON-324 DAOS-6880 UFLY-135WSERVER-766 SERVER-66222 XNIO-378 SWS-586	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.00 [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1% 6.4% 0.1% [7] 27.1%, 63.6%, 1.3% 0.3%, 22.0%, 48.7%, 40.9%	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / from Issue A This issue resulted in / from Issue A This issue recedes / Preceded By This issue relates to / is related to Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown Preceded By Reference Relate	start-start start-finish Follow Follow Follow Implement Implement Split Split Split Precede Relate Relate	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Composition Temporal/Causal General Relation	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperledger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem Qt JiraEcosystem Apache, Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem, Sakai, Spring Apache, IntelDAOS, Jira, MongoDB,	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 IR-475 CONFCLOUD-30161 PLUGWEB-94 MXS-2632 WT-6718 WFLY-13459 OSSRH-62435 JSWSERVER-20493, UPM-1329 QTVSADDINBUG-680 AUI-4437 ZOOKEEPER-4269 SRCTREEWIN-12705 VOTE-21 JSWSERVER-1241 UPM-3813 Y4FT-51 XD-3010 WAGON-324 DAOS-6680 JSWSERVER-766 SERVER-56222 XNIO-378 ESRVER-56222	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [127], 0.1% [5] 0.2% [167], 1.1% 6.4% 0.1% [7] 27.1%, 63.6%, 1.3% 0.3%, 22.0%, 48.7%, 40.9%	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / from Issue A This issue split to / into / from Issue A This issue resulted in / from Issue A This issue resulted in / from Issue A This issue resulted in / from Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown Preceded By Reference Relate Related	start-start start-finish Follow Follow Implement Implement Split Split Split Precede Relate Relate Relate	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Composition Temporal/Causal General Relation General Relation	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperledger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem Ot JiraEcosystem Apache, Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Apache, Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Hyperledger, MariaDB, Mindville, Qt,	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 IR-475 CONFCLOUD-30161 PLUGWEB-949 MXS-2632 WT-6718 WFLY-13459 OSSRH-62435 JSWSERVER-20493, UPM-1329 QTVSADDINBUG-680 AUI-4437 ZOOKEEPER-4269 SRCTREEWIN- 12705 VOTE-21 JSWSERVER-14241 UPM-3813 VAFT-51 XO-3010 WAGON-324 DAOS-6800 JSWSERVER-766 SERVER-56222 XNIO-376 SWS-586 TX-20 CONJ-720 ICS-852 TX-20 CONJ-720 ICS-852 TX-20 CONJ-720 CS-852 TX-20 CONJ-720 ICS-852 TX-20 CONJ-720 ICS-82 TX-20 CONJ-720 ICS-82 TX-20 CONJ-720 I	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1% 6.4% 0.1% [7] 27.1%, 63.6%, 1.3% 0.3%, 22.0%, 48.7%, 40.9% 1.4%, 12.1%, 0.0% [38], 49.1%, 26.6%, 6.9% 17.1%, 51.1%, 43.2%,	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / from Issue A This issue split to / into / from Issue A This issue resulted in / from Issue A This issue resulted in / from Issue A This issue recepted By This issue relates to / is related to Issue A This issue relates to / is related to Issue A
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Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown Preceded By Reference Relate Related Relates Relationship Regression	start-start start-finish Follow Follow Follow Implement Implement Split Split Split Precede Relate Relate Relate Relate Relate Breaks	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Temporal/Causal General Relation	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat IntelDAOS Sonatype Hyperledger, Jira, JiraEcosystem, MariaDB, MongoDB, RedHat, Sonatype Jira, JiraEcosystem Qt JiraEcosystem Apache, Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem, Sakai, Spring Apache, IntelDAOS, Jira, MongoDB, RedHat, Spring Apache, IntelDAOS, Jira, MongoDB, RedHat, Spring Apache, IntelDAOS, Jira, MongoDB, RedHat, Spring Apache, Jira Apache, Jira	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 1R-475 CONFCLOUD-30161 PLUGWEB-494 MXS-2632 WT-6718 WFLY-13499 OSSRH-62435 UTVSADDINBUG-680 AUI-4437 ZOOKEEPER-20493, UPM-1329 OTVSADDINBUG-680 AUI-4437 JWSERVER-14241 UPM-3813 VAFT-51 XD-3010 WAGON-324 DAOS-6680 XMSCRWER-766 SERVER-56222 XMIO-376 SWS-586 TX-20 COM-1720 ICS-852 OTVSADDINBUG-689 STORM-702 OSSRH-6776 OSSRH-6776 TCAP-329 ZOOKEEPER-2139 SRCTREEWIN-12988	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1% 6.4% 0.1% [7] 27.1%, 63.6%, 1.3% 0.3%, 22.0%, 48.7%, 40.9% 1.4%, 12.1%, 0.0% [38], 49.1%, 26.6%, 6.9% 17.1%, 51.1%, 43.2%, 22.4%, 29.4%, 38.8% 27.2% 1.8%, 0.4%	This issue has to be started together with Issue A This issue la triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / from Issue A This issue split to / from Issue A This issue resulted in / from Issue A This issue Precedes / Preceded By This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A
Gantt: start-finish Follows Sequence Implement Implements Issue split Split Work Breakdown Preceded By Reference Relate Related Related Relates Relationship Regression Replacement	start-start start-finish Follow Follow Follow Follow Implement Implement Split Split Split Split Precede Relate	Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Temporal/Causal Workflow Workflow Composition Composition Composition Temporal/Causal General Relation	IntelDAOS, JFrog RedHat Jira, JiraEcosystem RedHat Iira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Jira, JiraEcosystem Apache, Jira, JiraEcosystem Jira	DAOS-3295 RTFACT-20326 RHPAM-3211 SRCTREEWIN-13081 UPM-6027 WINDUP-2345 DAOS-5377 OSSRH-44699 IR-475 CONFCLOUD-30161 PULGWEB-494 MXS-2632 WT-6718 WFLY-13459 OSSRH-62435 UFLY-13459 UFM-1329 UTSADDINBUG-680 AUI-4437 ZOOKEEPER-4269 SRCTREEWIN-12705 VOTE-21 JSWSERVER-14241 UPM-3813 VAFT-51 XD-3010 WAGON-324 DAOS-6800 SWSERVER-766 SERVER-66222 XNIO-378 SWS-586 IT-X-20 COM-1720 ICS-852 GTVSADDINBUG-689 STORM-702 OSRH-67761 TGAP-329 ZOOKEEPER-2139 SRCTREEWIN-12988 GTSOLBUG-73	0.0% [1], 0.0% [1] 0% [11] 0.0% [42], 0.8% 4.2% 4.2% 0.1% [3] 0.3% [11] 0.5%, 0.0% [1], 0.1% [10], 0.2% [22], 0.4%, 0.1% [104], 0.1% [5] 0.2% [167], 1.1% 6.4% 0.1% [7] 27.1%, 63.6%, 1.3% 0.3%, 22.0%, 48.7%, 40.9% 1.4%, 12.1%, 0.0% [38], 49.1%, 26.6%, 6.9% 17.1%, 51.1%, 43.2%, 22.4%, 29.4%, 38.8% 27.2% 1.8%, 0.4%	This issue has to be started together with Issue A This issue is triggering / triggered by Issue A This issue follows / is followed by / Follow up to / Followed up by Issue A This issue follows up on / is followed up by Issue A This issue implements / is implemented by Issue A This issue implements / is implemented by Issue A This issue split to / from Issue A This issue split to / into / from Issue A This issue split to / into / from Issue A This issue Precedes / Preceded By This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue relates to / is related to Issue A This issue is proken by / breaks / is a regression of / has a regression in Issue A This issue is preplaced by / replaces Issue A
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Original	First Map	Category	Used by	Examples	Frequencies in %	Semantics in ITS
Subtask	Subtask	Composition	Apache, Hyperledger, IntelDAOS, JFrog, Jira, JiraEcosystem, MariaDB, MongoDB, Qt, RedHat, Sakai, SecondLife, Sonatype, Spring	ZOOKEEPER-3844 IS-192 DAOS- 5553 RTFACT-1132 CLOUD-3218 UPM-2179 MCOL-2088 COMPASS- 4513 OTOAINFRA-4365 WINDUPRULE-520 EVALSYS-204 STORM-2142 NEXUS-1210 XD-3624	32.5%, 27.6%, 5.8%, 36.3%, 2.5%, 20.4%, 6.1%, 1.6%, 23.8%, 20.4%, 17.6%, 31.0%, 13.4%, 49.8%	Special issue property
Epic-Relation	Epic	Composition	Apache, Hyperledger, IntelDAOS, JiraEcosystem, MariaDB, MongoDB, Qt, Sonatype, Spring	USERGRID-1244 BE-10 DAOS-6679, DAOS-4790 UPM-6013 CONJ-138, CONJ-26 TOOLS-1991 QTQAINFRA- 4365, QTBUG-74049 NEXUS-22147, NEXUS-23080 XD-2629, XD-3714	4.9%, 39.7%, 65.7%, 23.1%, 6.4%, 6.3%, 13.2%, 0.2% [9], 11.3%	Special issue property