Internal Dependencies

References

- Analyze java package metrics in a graph database
- Calculate metrics
- py2neo

Artifacts

Table 1

· List all the artifacts this notebook is based on

| | artifactName | packages | types |
|---|------------------------------|----------|-------|
| 0 | axon-eventsourcing-4.8.0.jar | 9 | 130 |
| 1 | axon-disruptor-4.8.0.jar | 1 | 22 |
| 2 | axon-messaging-4.8.0.jar | 64 | 762 |
| 3 | axon-configuration-4.8.0.jar | 1 | 39 |
| 4 | axon-test-4.8.0.jar | 8 | 87 |
| 5 | axon-modelling-4.8.0.jar | 10 | 150 |

Cyclic Dependencies

Cyclic dependencies occur when one package uses a class of another package and vice versa. These dependencies can lead to a lot of trouble when one of these packages needs to be changed.

Table 2

· List packages with cyclic dependencies

| | packageName | dependentPackageName | forwardToBackwardBalance | numberForward | numberBackward | |
|----|---|--|--------------------------|---------------|----------------|-----|
| 0 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | 0.882353 | 16 | 1 | [Ge |
| 1 | org.axonframework.eventhandling | org.axonframework.tracing | 0.857143 | 13 | 1 | |
| 2 | org.axonframework.eventhandling | org.axonframework.messaging | 0.853659 | 38 | 3 | [Re |
| 3 | org.axonframework.eventhandling | org.axonframework.messaging.annotation | 0.840000 | 23 | 2 | [Se |
| 4 | org.axonframework.queryhandling | org.axonframework.tracing | 0.800000 | 9 | 1 | [Si |
| 5 | org.axonframework.eventsourcing | org. ax on framework. events our cing. events tore | 0.777778 | 16 | 2 | |
| 6 | org.axonframework.deadline | org.axonframework.tracing | 0.750000 | 7 | 1 | [5 |
| 7 | org.axonframework.commandhandling.callbacks | org.axonframework.commandhandling | 0.733333 | 13 | 2 | |
| 8 | org.axonframework.commandhandling | org.axonframework.tracing | 0.666667 | 5 | 1 | [Si |
| 9 | org.axonframework.eventhandling | org.axonframework.serialization | 0.647059 | 14 | 3 | |
| 10 | org.axonframework.messaging.unitofwork | org.axonframework.messaging | 0.647059 | 14 | 3 | |
| 11 | $org. ax on framework. event handling. as {\it ync}$ | org.axonframework.eventhandling | 0.538462 | 10 | 3 | |
| 12 | org.axonframework.eventhandling.replay | org.axonframework.eventhandling | 0.454545 | 8 | 3 | [Ri |
| 13 | org. ax on framework. serialization. upcasting. event | org.axonframework.eventhandling | 0.333333 | 6 | 3 | |
| 14 | org.axonframework.eventsourcing.eventstore.jdbc | org. ax on framework. events our cing. events to re. jdb | 0.317073 | 27 | 14 | [Jc |
| 15 | org.axonframework.modelling.command.inspection | org.axonframework.modelling.command | 0.250000 | 20 | 12 | |
| 16 | org. ax on framework. query handling. registration | org.axonframework.queryhandling | 0.250000 | 5 | 3 | |
| 17 | org.axonframework.messaging | org.axonframework.serialization | 0.238095 | 13 | 8 | |
| 18 | org.axonframework.eventhandling | org. ax on framework. even than dling. to ken store | 0.230769 | 8 | 5 | |
| 19 | org.axonframework.messaging.annotation | org. ax on framework. messaging. interceptors | 0.200000 | 3 | 2 | |
| 20 | org.axonframework.modelling.saga | org.axonframework.modelling.saga.metamodel | 0.142857 | 4 | 3 | [A |
| 21 | org. ax on framework. command handling. distributed | org.axonframework.commandhandling.distributed | 0.076923 | 7 | 6 | [Ac |

Table 3

• List packages with cyclic dependencies with every dependency in a separate row sorted by the easiest and most valuable to resolve

| | packageName | dependentPackageName | dependency | forwardToBackwardBalance | numbe |
|----|--------------------------------------|---|--|--------------------------|-------|
| 0 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QueryResponseMessage<- | 0.882353 | |
| 1 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | ConvertingResponseMessage GenericStreamingQueryMessage->ResponseType | 0.882353 | |
| 2 | org.axonframework.querynandling | org.axonframework.messaging.responsetypes | GenericStreamingQueryMessage->ResponseType GenericStreamingQueryMessage->PublisherRespons | 0.882353 | |
| 3 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QueryGateway->ResponseType | 0.882353 | |
| 4 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QueryGateway->ResponseTypes | 0.882353 | |
| 5 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryBus->ResponseType | 0.882353 | |
| 6 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | GenericSubscriptionQueryMessage->ResponseType | 0.882353 | |
| 7 | org.axonframework.gueryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->ResponseType | 0.882353 | |
| 8 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->OptionalResponseType | 0.882353 | |
| 9 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->PublisherResponseType | 0.882353 | |
| 10 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->MultipleInstancesRes | 0.882353 | |
| 11 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QuerySubscription->ResponseType | 0.882353 | |
| 12 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | DefaultQueryGateway->ResponseType | 0.882353 | |
| 13 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | GenericQueryMessage->ResponseType | 0.882353 | |
| 14 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | StreamingQueryMessage->ResponseType | 0.882353 | |
| 15 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QueryMessage->ResponseType | 0.882353 | |
| 16 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SubscriptionQueryMessage->ResponseType | 0.882353 | |
| 17 | org.axonframework.eventhandling | org.axonframework.tracing | EventMessage<-NestingSpanFactory | 0.857143 | |
| 18 | org.axonframework.eventhandling | org.axonframework.tracing | SubscribingEventProcessor\$Builder->SpanFactory | 0.857143 | |
| 19 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventBus\$Builder->SpanFactory | 0.857143 | |
| 20 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventBus\$Builder->NoOpSpanFactory | 0.857143 | |
| 21 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventBus->Span | 0.857143 | |
| 22 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventBus->SpanFactory | 0.857143 | |
| 23 | org.axonframework.eventhandling | org.axonframework.tracing | TrackingEventProcessor->SpanFactory | 0.857143 | |
| 24 | org.axonframework.eventhandling | org.axonframework.tracing | TrackingEventProcessor->Span | 0.857143 | |
| 25 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventProcessor->Span | 0.857143 | |
| 26 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventProcessor->SpanFactory | 0.857143 | |
| 27 | org.axonframework.eventhandling | org.axonframework.tracing | TrackingEventProcessor\$Builder->SpanFactory | 0.857143 | |
| 28 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventProcessor\$Builder->SpanFactory | 0.857143 | |
| 29 | org.axonframework.eventhandling | org.axonframework.tracing | AbstractEventProcessor\$Builder->NoOpSpanFactory | 0.857143 | |
| 30 | org.axonframework.eventhandling | org.axonframework.tracing | SimpleEventBus\$Builder->SpanFactory | 0.857143 | |
| 31 | org.axonframework.eventhandling | org.axonframework.messaging | EventMessage<-Headers | 0.853659 | |
| 32 | org.axonframework.eventhandling | org.axonframework.messaging | DomainEventMessage<-Headers | 0.853659 | |
| 33 | org. ax on framework. eventhand ling | org.axonframework.messaging | TrackingToken<-StreamableMessageSource | 0.853659 | |
| 34 | org.axonframework.eventhandling | org.axonframework.messaging | ReplayToken->Message | 0.853659 | |
| 35 | org. ax on framework. eventhand ling | org.axonframework.messaging | EventMessageHandler->Message | 0.853659 | |
| 36 | org. ax on framework. eventhand ling | org.axonframework.messaging | EventMessageHandler->MessageHandler | 0.853659 | |
| 37 | org. ax on framework. eventhand ling | org.axonframework.messaging | EventProcessor->MessageHandlerInterceptor | 0.853659 | |
| 38 | org. ax on framework. eventhand ling | org.axonframework.messaging | ${\bf Event Processor\hbox{->} Message Handler Interceptor Support}$ | 0.853659 | |
| 39 | org. ax on framework. eventhand ling | org.axonframework.messaging | GenericDomainEventMessage->MetaData | 0.853659 | |
| 40 | org. ax on framework. eventhand ling | org.axonframework.messaging | GenericDomainEventMessage->GenericMessage | 0.853659 | |
| 41 | org. ax on framework. eventhand ling | org.axonframework.messaging | GenericDomainEventMessage->Message | 0.853659 | |
| 42 | org.axonframework.eventhandling | org.axonframework.messaging | SubscribingEventProcessor\$Builder->Subscribabl | 0.853659 | |
| 43 | org. ax on framework. eventhand ling | org.axonframework.messaging | EventBus->MessageDispatchInterceptorSupport | 0.853659 | |
| 44 | org.axonframework.eventhandling | org.axonframework.messaging | EventBus->SubscribableMessageSource | 0.853659 | |
| 45 | org.axonframework.eventhandling | org.axonframework.messaging | Sequence Number Parameter Resolver Factory \$ Sequenc | 0.853659 | |
| 46 | org.axonframework.eventhandling | org.axonframework.messaging | MultiStreamableMessageSource\$Builder->Streamab | 0.853659 | |
| 47 | org.axonframework.eventhandling | org.axonframework.messaging | TrackingEventProcessorConfiguration->Streamabl | 0.853659 | |
| 48 | org.axonframework.eventhandling | org.axonframework.messaging | AbstractEventBus->MessageDispatchInterceptor | 0.853659 | |
| 49 | org.axonframework.eventhandling | org.axonframework.messaging | AnnotationEventHandlerAdapter->Message | 0.853659 | |
| 50 | org.axonframework.eventhandling | org.axonframework.messaging | TrackingEventProcessor->Message | 0.853659 | |
| 51 | org.axonframework.eventhandling | org.axonframework.messaging | TrackingEventProcessor->StreamableMessageSource | 0.853659 | |
| 52 | org.axonframework.eventhandling | org.axonframework.messaging | TrackingEventProcessor->InterceptorChain | 0.853659 | |
| 53 | org.axonframework.eventhandling | org.axonframework.messaging | MultiStreamableMessageSource\$IdentifiedStreama | 0.853659 | |

| | packageName | dependentPackageName | dependency | forward To Backward Balance | numbe |
|----|---------------------------------|-----------------------------|--|-----------------------------|-------|
| 54 | org.axonframework.eventhandling | org.axonframework.messaging | AbstractEventProcessor->ResultMessage | 0.853659 | |
| 55 | org.axonframework.eventhandling | org.axonframework.messaging | AbstractEventProcessor->MessageHandlerInterceptor | 0.853659 | |
| 56 | org.axonframework.eventhandling | org.axonframework.messaging | AbstractEventProcessor->DefaultInterceptorChain | 0.853659 | |
| 57 | org.axonframework.eventhandling | org.axonframework.messaging | EventMessage->Message | 0.853659 | |
| 58 | org.axonframework.eventhandling | org.axonframework.messaging | $Streaming {\tt EventProcessor->Streamable Message Source}$ | 0.853659 | |
| 59 | org.axonframework.eventhandling | org.axonframework.messaging | $Subscribing {\tt EventProcessor-} Subscribable {\tt Message}$ | 0.853659 | |

Interface Segregation Candidates

Well known from Design Principles and Design Patterns by Robert C. Martin, the *Interface Segregation Principle* suggests that software components should have narrow, focused interfaces rather than large, general-purpose ones. The goal is to minimize the dependencies between components and increase modularity, flexibility, and maintainability.

Smaller, focused and purpose-driven interfaces

- make it easier to modify individual components without affecting the rest of the system.
- make it clearer which client is affected by which change.
- don't force their clients to depend on methods they don't need.
- reduce the scope of changes since a change to one component doesn't affect others.
- lead to a more loosely coupled architecture that is easier to understand and maintain.

Reference: Analyze java package metrics in a graph database

How to apply the results

If just one method of a type is used, especially in many places, then the result of this method can be used to call e.g. a method or constuct an object instead of using the whole object and then just calling that single method.

If there are a couple of methods that are used for a distinct purpose, those could be factored out into a separate interface. The original type can extended/implement the new interface so that there are no breaking changes. Then all the callers, that use only this group of methods, can be changed to the new interface.

Table 3

 List top 20 most used combinations of methods of larger Types that might benefit from Interface Segregation

| | fullDependentTypeName | declaredMethods | calledMethodNames | calledMethods | callerTypes |
|----|---|-----------------|--|---------------|-------------|
| 0 | org. ax on framework. command handling. Command Message | 9 | [getCommandName] | 1 | 18 |
| 1 | org. ax on framework. eventh and ling. Event Message | 9 | [getIdentifier, getTimestamp] | 2 | 10 |
| 2 | org. ax on framework. event handling. Domain Event Mes | 10 | [getSequenceNumber] | 1 | 9 |
| 3 | $org. ax on framework. even than dling. Tracked {\sf Event Me}$ | 10 | [trackingToken] | 1 | 8 |
| 4 | $org. ax on framework. eventh and ling. Event {\tt Message}$ | 9 | [getIdentifier] | 1 | 8 |
| 5 | org. ax on framework. event handling. Domain Event Mes | 10 | $[{\tt getType}, {\tt getSequenceNumber}, {\tt getAggregateIdent}$ | 3 | 6 |
| 6 | org. ax on framework. messaging. Result Message | 9 | [isExceptional, exceptionResult] | 2 | 6 |
| 7 | org. ax on framework. command handling. Generic Comma | 14 | [asCommandResultMessage] | 1 | 5 |
| 8 | org. axon framework. dead line. Generic Dead line Message | 11 | [asDeadlineMessage] | 1 | 5 |
| 9 | org. ax on framework. eventh and ling. Tracked Event Me | 12 | [trackingToken] | 1 | 4 |
| 10 | org. ax on framework. dead line. Dead line Message | 10 | [getDeadlineName] | 1 | 4 |
| 11 | org. ax on framework. event handling. Domain Event Mes | 10 | [getType] | 1 | 4 |
| 12 | org. ax on framework. eventh and ling. Domain Event Mes | 10 | [getAggregateIdentifier] | 1 | 4 |
| 13 | $org. ax on framework. eventh and ling. Generic {\sf Event Me}$ | 10 | [asEventMessage] | 1 | 4 |
| 14 | org. ax on framework. common. transaction. No Transac | 4 | [instance] | 1 | 4 |
| 15 | org. ax on framework. command handling. Generic Comma | 15 | [asCommandResultMessage] | 1 | 3 |
| 16 | org. ax on framework. modelling. command. in spection | 13 | [type] | 1 | 3 |
| 17 | org. ax on framework. event handling. Domain Event Mes | 11 | $[{\tt getType}, {\tt getSequenceNumber}, {\tt getAggregateIdent}$ | 3 | 3 |
| 18 | $org. ax on framework. eventh and ling. Generic {\sf Event Me}$ | 11 | [asEventMessage] | 1 | 3 |
| 19 | $org. ax on framework. event handling. Domain {\tt Event Mes}$ | 10 | [getSequenceNumber, getAggregateIdentifier] | 2 | 3 |

Package Usage

Types that are used by multiple packages

Table 4

• List the top 20 packages that are used by the highest count of different packages

| | dependentType.fqn | dependentType.name | dependentTypeLabels | numberOfUsingPackages |
|----|---|--------------------------------------|--|-----------------------|
| 0 | org.axonframework.common.BuilderUtils | BuilderUtils | [Type, File, Java, ByteCode, Class] | 44 |
| 1 | org.axonframework.messaging.Message | Message | [Type, File, Java, ByteCode, GenericDeclaratio | 39 |
| 2 | org. ax on framework. common. Ax on Configuration Exce | $Axon Configuration {\sf Exception}$ | [Type, File, Java, ByteCode, Class] | 37 |
| 3 | org. ax on framework. messaging. Meta Data | MetaData | [Type, File, Java, ByteCode, Class] | 33 |
| 4 | org. ax on framework. eventh and ling. Event Message | EventMessage | $[{\it Type, File, Java, ByteCode, GenericDeclaratio}\\$ | 32 |
| 5 | org. ax on framework. messaging. unit of work. Unit Of Work | UnitOfWork | [Type, File, Java, ByteCode, GenericDeclaratio | 31 |
| 6 | org. ax on framework. serialization. Serializer | Serializer | [Type, File, Java, ByteCode, Interface] | 29 |
| 7 | org.axonframework.common.Assert | Assert | [Type, File, Java, ByteCode, Class] | 27 |
| 8 | org. ax on framework. common. transaction. Transacti | TransactionManager | [Type, File, Java, ByteCode, Interface] | 27 |
| 9 | org. ax on framework. serialization. Serialized Object | SerializedObject | [Type, File, Java, ByteCode, GenericDeclaratio | 25 |
| 10 | $org. ax on framework. serialization. Serialized {\it Type}$ | SerializedType | [Type, File, Java, ByteCode, Interface] | 24 |
| 11 | org. ax on framework. messaging. unit of work. Current | CurrentUnitOfWork | [Type, File, Java, ByteCode, Class] | 21 |
| 12 | org. ax on framework. common. Ax on Non Transient Excep | Axon Non Transient Exception | [Type, File, Java, ByteCode, Class] | 18 |
| 13 | org. ax on framework. eventh and ling. Domain Event Mes | DomainEventMessage | [Type, File, Java, ByteCode, GenericDeclaratio | 18 |
| 14 | $org. ax on framework. eventh and ling. Generic {\tt Event Me}$ | GenericEventMessage | $[{\sf Type, File, Java, ByteCode, Class, GenericDec}$ | 18 |
| 15 | org. ax on framework. even than dling. Tracking Token | TrackingToken | [Type, File, Java, ByteCode, Interface] | 18 |
| 16 | org. ax on framework. messaging. annotation. Paramet | ParameterResolverFactory | [Type, File, Java, ByteCode, Interface] | 18 |
| 17 | org.axonframework.common.Registration | Registration | [Type, File, Java, ByteCode, Interface] | 17 |
| 18 | org. ax on framework. serialization. Simple Serializ | SimpleSerializedObject | [Type, File, Java, ByteCode, Class, GenericDec | 17 |
| 19 | org.axonframework.common.ObjectUtils | ObjectUtils | [Type, File, Java, ByteCode, Class] | 16 |

Packages that are used by multiple artifacts

Table 5

• List the top 20 artifacts that only use a few (compared to all existing) packages of another artifact

| | artifactName | dependentArtifactName | dependentPackages | dependentArtifactPackages | packageUsagePercentage | dependentFullQualifiedPackageNames |
|----|----------------------------------|--------------------------|-------------------|---------------------------|------------------------|---|
| 0 | axon- disruptor-4.8.0 | axon-messaging-4.8.0 | 9 | 64 | 0.140625 | [org.axonframework.commandhandling.callbacks, |
| 1 | axon-test- 4.8.0 | axon-messaging-4.8.0 | 10 | 64 | 0.156250 | [org.axonframework.messaging.annotation, org.a |
| 2 | axon- eventsourcing- 4.8.0 | axon-modelling-4.8.0 | 2 | 10 | 0.200000 | [org.axonframework.modelling.command, org.axon |
| 3 | axon- disruptor-4.8.0 | axon-modelling-4.8.0 | 2 | 10 | 0.200000 | [org. axon framework. model ling. command. in spectio |
| 4 | axon- disruptor-4.8.0 | axon-eventsourcing-4.8.0 | 2 | 9 | 0.222222 | [org.axonframework.eventsourcing, org.axonfram |
| 5 | axon-test- 4.8.0 | axon-eventsourcing-4.8.0 | 2 | 9 | 0.222222 | [org.axonframework.eventsourcing, org.axonfram |
| 6 | axon- modelling- 4.8.0 | axon-messaging-4.8.0 | 18 | 64 | 0.281250 | [org.axonframework.common.caching, org.axonfra |
| 7 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | 20 | 64 | 0.312500 | [org.axonframework.common, org.axonframework.m |
| 8 | axon- configuration- 4.8.0 | axon-eventsourcing-4.8.0 | 4 | 9 | 0.444444 | [org.axonframework.eventsourcing.eventstore, o |
| 9 | axon-test- 4.8.0 | axon-modelling-4.8.0 | 5 | 10 | 0.500000 | [org. axon framework. modelling. command. in spectio |
| 10 | axon- configuration- 4.8.0 | axon-messaging-4.8.0 | 34 | 64 | 0.531250 | [org.axonframework.eventhandling, org.axonfram |
| 11 | axon- configuration- 4.8.0 | axon-modelling-4.8.0 | 6 | 10 | 0.600000 | [org.axonframework.modelling.saga.repository.i |
| 12 | axon- modelling- 4.8.0 | axon-modelling-4.8.0 | 6 | 10 | 0.600000 | [org.axonframework.modelling.saga.metamodel, o |
| 13 | axon-test- 4.8.0 | axon-test-4.8.0 | 5 | 8 | 0.625000 | [org.axonframework.test.matchers, org.axonfram |
| 14 | axon- messaging- 4.8.0 | axon-messaging-4.8.0 | 41 | 64 | 0.640625 | [org.axonframework.messaging.unitofwork, org.a |
| 15 | axon- eventsourcing- 4.8.0 | axon-eventsourcing-4.8.0 | 7 | 9 | 0.777778 | [org.axonframework.eventsourcing.eventstore, o |
| 16 | axon- configuration- 4.8.0 | axon-disruptor-4.8.0 | 1 | 1 | 1.000000 | [org.axonframework.disruptor.commandhandling] |

Packages that are used by multiple artifacts

Table 6

• List the top 20 packages that only use a few (compared to all existing) types of another package

| | artifactName dependentArtifactName packageName | | dependentPackage.fqn | dependentTypes | dependentPackageTy | |
|----|--|----------------------|---|-------------------------------------|--------------------|--|
| 0 | axon- modelling- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.modelling.saga.metamodel | org.axonframework.eventhandling | 1 | |
| 1 | axon-test- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.test.matchers | org.axonframework.eventhandling | 1 | |
| 2 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.eventsourcing.snapshotting | org.axonframework.eventhandling | 1 | |
| 3 | axon- eventsourcing- 4.8.0 | axon-modelling-4.8.0 | org.axonframework.eventsourcing.eventstore.jdbc | org.axonframework.modelling.command | 1 | |
| 4 | axon- eventsourcing- 4.8.0 | axon-modelling-4.8.0 | org.axonframework.eventsourcing.conflictresolu | org.axonframework.modelling.command | 1 | |
| 5 | axon- modelling- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.modelling.command.legacyjpa | org.axonframework.eventhandling | 2 | |
| 6 | axon- modelling- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.modelling.command | org.axonframework.eventhandling | 2 | |
| 7 | axon-test- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.test.eventscheduler | org.axonframework.eventhandling | 2 | |
| 8 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org. ax on framework. events our cing. conflict resolu | org.axonframework.eventhandling | 2 | |
| 9 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.eventsourcing.eventstore | org.axonframework.messaging | 1 | |
| 10 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org. ax on framework. events our cing. conflict resolu | org.axonframework.messaging | 1 | |
| 11 | axon-test- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.test.matchers | org.axonframework.messaging | 1 | |
| 12 | axon-test- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.test | org.axonframework.messaging | 1 | |
| 13 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.eventsourcing.eventstore.jpa | org.axonframework.serialization | 1 | |
| 14 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org. ax on framework. events our cing. events to re.leg | org.axonframework.serialization | 1 | |
| 15 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.eventsourcing.eventstore.jdbc | org.axonframework.serialization | 1 | |
| 16 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org. axon framework. events our cing. events to re. jdb | org.axonframework.eventhandling | 3 | |
| 17 | axon-test- 4.8.0 | axon-modelling-4.8.0 | org.axonframework.test.utils | org.axonframework.modelling.saga | 1 | |
| 18 | axon- eventsourcing- 4.8.0 | axon-messaging-4.8.0 | org. ax on framework. events our cing. conflict resolu | org.axonframework.commandhandling | 1 | |
| 19 | axon-test- 4.8.0 | axon-messaging-4.8.0 | org.axonframework.test.matchers | org.axonframework.commandhandling | 1 | |
| | | | | | | |