

# Package Dependencies for Java with Neo4j

## 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-4.7.5.jar | 9        | 130   |
| 1 | axon-messaging-4.7.5.jar     | 61       | 729   |
| 2 | axon-disruptor-4.7.5.jar     | 1        | 22    |
| 3 | axon-test-4.7.5.jar          | 8        | 85    |
| 4 | axon-configuration-4.7.5.jar | 1        | 39    |
| 5 | axon-modelling-4.7.5.jar     | 10       | 149   |

## 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              | [C  |
| 1  | org.axonframework.eventhandling                   | org.axonframework.tracing                          | 0.857143                 | 13            | 1              |     |
| 2  | org.axonframework.eventhandling                   | org.axonframework.messaging                        | 0.853659                 | 38            | 3              |     |
| 3  | org.axonframework.eventhandling                   | org.axonframework.messaging.annotation             | 0.840000                 | 23            | 2              | [Se |
| 4  | org.axonframework.queryhandling                   | org.axonframework.tracing                          | 0.800000                 | 9             | 1              |     |
| 5  | org.axonframework.eventsourcing                   | org.axonframework.eventsourcing.eventstore         | 0.777778                 | 16            | 2              |     |
| 6  | org.axonframework.deadline                        | org.axonframework.tracing                          | 0.750000                 | 7             | 1              | [S  |
| 7  | org.axonframework.commandhandling.callbacks       | org.axonframework.commandhandling                  | 0.733333                 | 13            | 2              | [L  |
| 8  | org.axonframework.commandhandling                 | org.axonframework.tracing                          | 0.666667                 | 5             | 1              |     |
| 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.axonframework.eventhandling.async             | org.axonframework.eventhandling                    | 0.538462                 | 10            | 3              | [v  |
| 12 | org.axonframework.eventhandling.replay            | org.axonframework.eventhandling                    | 0.454545                 | 8             | 3              | [f  |
| 13 | org.axonframework.serialization.upcasting.event   | org.axonframework.eventhandling                    | 0.333333                 | 6             | 3              |     |
| 14 | org.axonframework.eventsourcing.eventstore.jdbc   | org.axonframework.eventsourcing.eventstore.jdbc... | 0.317073                 | 27            | 14             | [.  |
| 15 | org.axonframework.queryhandling.registration      | org.axonframework.queryhandling                    | 0.250000                 | 5             | 3              |     |
| 16 | org.axonframework.messaging                       | org.axonframework.serialization                    | 0.238095                 | 13            | 8              |     |
| 17 | org.axonframework.eventhandling                   | org.axonframework.eventhandling.tokenstore         | 0.230769                 | 8             | 5              |     |
| 18 | org.axonframework.messaging.annotation            | org.axonframework.messaging.interceptors           | 0.200000                 | 3             | 2              |     |
| 19 | org.axonframework.modelling.command.inspection    | org.axonframework.modelling.command                | 0.172414                 | 17            | 12             |     |
| 20 | org.axonframework.modelling.saga                  | org.axonframework.modelling.saga.metamodel         | 0.142857                 | 4             | 3              | [A  |
| 21 | org.axonframework.commandhandling.distributed.... | org.axonframework.commandhandling.distributed      | 0.076923                 | 7             | 6              |     |

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<-<br>ConvertingResponseMessage | 0.882353                 |       |
| 1  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | DefaultQueryGateway->ResponseType                   | 0.882353                 |       |
| 2  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | GenericSubscriptionQueryMessage->ResponseType       | 0.882353                 |       |
| 3  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | GenericStreamingQueryMessage->PublisherRespons...   | 0.882353                 |       |
| 4  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | GenericStreamingQueryMessage->ResponseType          | 0.882353                 |       |
| 5  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QuerySubscription->ResponseType                     | 0.882353                 |       |
| 6  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QueryMessage->ResponseType                          | 0.882353                 |       |
| 7  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | StreamingQueryMessage->ResponseType                 | 0.882353                 |       |
| 8  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QueryGateway->ResponseTypes                         | 0.882353                 |       |
| 9  | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | QueryGateway->ResponseType                          | 0.882353                 |       |
| 10 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryBus->ResponseType                        | 0.882353                 |       |
| 11 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SubscriptionQueryMessage->ResponseType              | 0.882353                 |       |
| 12 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->PublisherResponseType     | 0.882353                 |       |
| 13 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->MultipleInstancesRes...   | 0.882353                 |       |
| 14 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->OptionalResponseType      | 0.882353                 |       |
| 15 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | SimpleQueryUpdateEmitter->ResponseType              | 0.882353                 |       |
| 16 | org.axonframework.queryhandling | org.axonframework.messaging.responsetypes | GenericQueryMessage->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                 | TrackingEventProcessor->Span                        | 0.857143                 |       |
| 20 | org.axonframework.eventhandling | org.axonframework.tracing                 | TrackingEventProcessor->SpanFactory                 | 0.857143                 |       |
| 21 | org.axonframework.eventhandling | org.axonframework.tracing                 | TrackingEventProcessor\$Builder->SpanFactory        | 0.857143                 |       |
| 22 | org.axonframework.eventhandling | org.axonframework.tracing                 | SimpleEventBus\$Builder->SpanFactory                | 0.857143                 |       |
| 23 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventProcessor->SpanFactory                 | 0.857143                 |       |
| 24 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventProcessor->Span                        | 0.857143                 |       |
| 25 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventProcessor\$Builder->SpanFactory        | 0.857143                 |       |
| 26 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventProcessor\$Builder->NoOpSpanFactory    | 0.857143                 |       |
| 27 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventBus\$Builder->SpanFactory              | 0.857143                 |       |
| 28 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventBus\$Builder->NoOpSpanFactory          | 0.857143                 |       |
| 29 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventBus->SpanFactory                       | 0.857143                 |       |
| 30 | org.axonframework.eventhandling | org.axonframework.tracing                 | AbstractEventBus->Span                              | 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.axonframework.eventhandling | org.axonframework.messaging               | TrackingToken<-StreamableMessageSource              | 0.853659                 |       |
| 34 | org.axonframework.eventhandling | org.axonframework.messaging               | MultiStreamableMessageSource\$IdentifiedStream...   | 0.853659                 |       |
| 35 | org.axonframework.eventhandling | org.axonframework.messaging               | SequenceNumberParameterResolverFactory\$Sequenc...  | 0.853659                 |       |
| 36 | org.axonframework.eventhandling | org.axonframework.messaging               | SubscribingEventProcessor\$Builder->Subscriabl...   | 0.853659                 |       |
| 37 | org.axonframework.eventhandling | org.axonframework.messaging               | TrackingEventProcessor->Message                     | 0.853659                 |       |
| 38 | org.axonframework.eventhandling | org.axonframework.messaging               | TrackingEventProcessor->StreamableMessageSource     | 0.853659                 |       |
| 39 | org.axonframework.eventhandling | org.axonframework.messaging               | TrackingEventProcessor->InterceptorChain            | 0.853659                 |       |
| 40 | org.axonframework.eventhandling | org.axonframework.messaging               | EventMessageHandler->MessageHandler                 | 0.853659                 |       |
| 41 | org.axonframework.eventhandling | org.axonframework.messaging               | EventMessageHandler->Message                        | 0.853659                 |       |
| 42 | org.axonframework.eventhandling | org.axonframework.messaging               | EventMessage->Message                               | 0.853659                 |       |
| 43 | org.axonframework.eventhandling | org.axonframework.messaging               | MultiStreamableMessageSource->StreamableMessag...   | 0.853659                 |       |
| 44 | org.axonframework.eventhandling | org.axonframework.messaging               | GenericEventMessage->GenericMessage                 | 0.853659                 |       |
| 45 | org.axonframework.eventhandling | org.axonframework.messaging               | GenericEventMessage->MetaData                       | 0.853659                 |       |
| 46 | org.axonframework.eventhandling | org.axonframework.messaging               | GenericEventMessage->Message                        | 0.853659                 |       |
| 47 | org.axonframework.eventhandling | org.axonframework.messaging               | GenericEventMessage->MessageDecorator               | 0.853659                 |       |
| 48 | org.axonframework.eventhandling | org.axonframework.messaging               | TrackingEventProcessor\$Builder->StreamableMess...  | 0.853659                 |       |
| 49 | org.axonframework.eventhandling | org.axonframework.messaging               | ReplayToken->Message                                | 0.853659                 |       |
| 50 | org.axonframework.eventhandling | org.axonframework.messaging               | EventBus->MessageDispatchInterceptorSupport         | 0.853659                 |       |
| 51 | org.axonframework.eventhandling | org.axonframework.messaging               | EventBus->SubscribableMessageSource                 | 0.853659                 |       |
| 52 | org.axonframework.eventhandling | org.axonframework.messaging               | SubscribingEventProcessor->SubscribableMessage...   | 0.853659                 |       |
| 53 | org.axonframework.eventhandling | org.axonframework.messaging               | TrackingEventProcessorConfiguration->Streamabl...   | 0.853659                 |       |

|    | packageName                     | dependentPackageName        | dependency   | forwardToBackwardBalance | 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 | TrackingTokenParameterResolverFactory\$Tracking... | 0.853659                 |       |
| 58 | org.axonframework.eventhandling | org.axonframework.messaging | MultiStreamableMessageSource\$Builder->Streamab... | 0.853659                 |       |
| 59 | org.axonframework.eventhandling | org.axonframework.messaging | AnnotationEventHandlerAdapter->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 construct 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 extend/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*

|    | dependentTypeFullQualifiedName                    | declaredMethods | calledMethodNames                                 | calledMethods | callerTypes |
|----|---|-----------------|---|---------------|-------------|
| 0  | org.axonframework.commandhandling.CommandMessage  | 19              | [getCommandName]                                  | 1             | 20          |
| 1  | org.axonframework.eventhandling.TrackedEventMe... | 16              | [trackingToken]                                   | 1             | 14          |
| 2  | org.axonframework.eventhandling.DomainEventMes... | 21              | [getSequenceNumber]                               | 1             | 11          |
| 3  | org.axonframework.eventhandling.EventMessage      | 19              | [getIdentifier]                                   | 1             | 9           |
| 4  | org.axonframework.commandhandling.GenericComma... | 38              | [asCommandResultMessage]                          | 1             | 8           |
| 5  | org.axonframework.eventhandling.DomainEventMes... | 21              | [getSequenceNumber, getType, getAggregateIdent... | 3             | 8           |
| 6  | org.axonframework.eventhandling.EventMessage      | 19              | [getTimestamp, getIdentifier]                     | 2             | 8           |
| 7  | org.axonframework.eventhandling.GenericEventMe... | 29              | [asEventMessage]                                  | 1             | 7           |
| 8  | org.axonframework.messaging.ResultMessage         | 21              | [exceptionResult, isExceptional]                  | 2             | 7           |
| 9  | org.axonframework.deadline.DeadlineMessage        | 23              | [getDeadlineName]                                 | 1             | 6           |
| 10 | org.axonframework.eventhandling.EventBus          | 4               | [publish]   | 1             | 6           |
| 11 | org.axonframework.eventhandling.DomainEventMes... | 21              | [getSequenceNumber, getAggregateIdentifier]       | 2             | 5           |
| 12 | org.axonframework.modelling.command.inspection... | 15              | [inspectAggregate]                                | 1             | 5           |
| 13 | org.axonframework.commandhandling.GenericComma... | 38              | [asCommandResultMessage]                          | 2             | 4           |
| 14 | org.axonframework.deadline.GenericDeadlineMessage | 36              | [asDeadlineMessage]                               | 1             | 4           |
| 15 | org.axonframework.eventhandling.DomainEventMes... | 21              | [getAggregateIdentifier]                          | 1             | 4           |
| 16 | org.axonframework.serialization.SimpleSerializ... | 13              | [emptyType]                                       | 1             | 4           |
| 17 | org.axonframework.common.transaction.NoTransac... | 10              | [instance]  | 1             | 4           |
| 18 | org.axonframework.eventhandling.ReplayToken       | 42              | [isReplay]  | 1             | 3           |
| 19 | org.axonframework.eventhandling.GapAwareTracki... | 27              | [getGaps, withGapsTruncatedAt, newInstance, ad... | 5             | 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]               | 41                    |
| 1  | org.axonframework.messaging.Message                 | Message                    | [Type, File, Java, ByteCode, GenericDeclaratio... | 36                    |
| 2  | org.axonframework.common.AxonConfigurationException | AxonConfigurationException | [Type, File, Java, ByteCode, Class]               | 35                    |
| 3  | org.axonframework.eventhandling.EventMessage        | EventMessage               | [Type, File, Java, ByteCode, GenericDeclaratio... | 30                    |
| 4  | org.axonframework.messaging.Metadata                | Metadata                   | [Type, File, Java, ByteCode, Class]               | 30                    |
| 5  | org.axonframework.messaging.unitofwork.UnitOfWork   | UnitOfWork                 | [Type, File, Java, ByteCode, GenericDeclaratio... | 28                    |
| 6  | org.axonframework.common.Assert                     | Assert                     | [Type, File, Java, ByteCode, Class]               | 26                    |
| 7  | org.axonframework.serialization.Serializer          | Serializer                 | [Type, File, Java, ByteCode, Interface]           | 26                    |
| 8  | org.axonframework.common.transaction.Transaction... | TransactionManager         | [Type, File, Java, ByteCode, Interface]           | 23                    |
| 9  | org.axonframework.serialization.SerializedObject    | SerializedObject           | [Type, File, Java, ByteCode, GenericDeclaratio... | 22                    |
| 10 | org.axonframework.messaging.unitofwork.Current...   | CurrentUnitOfWork          | [Type, File, Java, ByteCode, Class]               | 21                    |
| 11 | org.axonframework.serialization.SerializedType      | SerializedType             | [Type, File, Java, ByteCode, Interface]           | 21                    |
| 12 | org.axonframework.common.AxonNonTransientExcep...   | AxonNonTransientException  | [Type, File, Java, ByteCode, Class]               | 18                    |
| 13 | org.axonframework.messaging.annotation.Paramet...   | ParameterResolverFactory   | [Type, File, Java, ByteCode, Interface]           | 18                    |
| 14 | org.axonframework.eventhandling.DomainEventMes...   | DomainEventMessage         | [Type, File, Java, ByteCode, GenericDeclaratio... | 17                    |
| 15 | org.axonframework.eventhandling.TrackingToken       | TrackingToken              | [Type, File, Java, ByteCode, Interface]           | 17                    |
| 16 | org.axonframework.eventhandling.GenericEventMe...   | GenericEventMessage        | [Type, File, Java, ByteCode, GenericDeclaratio... | 16                    |
| 17 | org.axonframework.common.Registration               | Registration               | [Type, File, Java, ByteCode, Interface]           | 16                    |
| 18 | org.axonframework.common.ObjectUtils                | ObjectUtils                | [Type, File, Java, ByteCode, Class]               | 15                    |
| 19 | org.axonframework.messaging.MessageDispatchInt...   | MessageDispatchInterceptor | [Type, File, Java, ByteCode, GenericDeclaratio... | 15                    |

# 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-4.7.5     | axon-messaging-4.7.5     | 9                 | 61                        | 0.147541               | [org.axonframework.messaging, org.axonframework...]     |
| 1  | axon-test-4.7.5          | axon-messaging-4.7.5     | 10                | 61                        | 0.163934               | [org.axonframework.commandhandling, org.axonframewo...] |
| 2  | axon-eventsourcing-4.7.5 | axon-modelling-4.7.5     | 2                 | 10                        | 0.200000               | [org.axonframework.modelling.command, org.axon...]      |
| 3  | axon-disruptor-4.7.5     | axon-modelling-4.7.5     | 2                 | 10                        | 0.200000               | [org.axonframework.modelling.command, org.axon...]      |
| 4  | axon-disruptor-4.7.5     | axon-eventsourcing-4.7.5 | 2                 | 9                         | 0.222222               | [org.axonframework.eventsourcing.eventstore, o...]      |
| 5  | axon-test-4.7.5          | axon-eventsourcing-4.7.5 | 2                 | 9                         | 0.222222               | [org.axonframework.eventsourcing.eventstore, o...]      |
| 6  | axon-modelling-4.7.5     | axon-messaging-4.7.5     | 18                | 61                        | 0.295082               | [org.axonframework.common.jpa, org.axonframewo...]      |
| 7  | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5     | 20                | 61                        | 0.327869               | [org.axonframework.eventhandling, org.axonfram...]      |
| 8  | axon-configuration-4.7.5 | axon-eventsourcing-4.7.5 | 4                 | 9                         | 0.444444               | [org.axonframework.eventsourcing.eventstore.jp...]      |
| 9  | axon-test-4.7.5          | axon-modelling-4.7.5     | 5                 | 10                        | 0.500000               | [org.axonframework.modelling.saga, org.axonfra...]      |
| 10 | axon-configuration-4.7.5 | axon-messaging-4.7.5     | 34                | 61                        | 0.557377               | [org.axonframework.eventhandling.scheduling, o...]      |
| 11 | axon-configuration-4.7.5 | axon-modelling-4.7.5     | 6                 | 10                        | 0.600000               | [org.axonframework.modelling.command.inspectio...]      |
| 12 | axon-modelling-4.7.5     | axon-modelling-4.7.5     | 6                 | 10                        | 0.600000               | [org.axonframework.modelling.command.inspectio...]      |
| 13 | axon-test-4.7.5          | axon-test-4.7.5          | 5                 | 8                         | 0.625000               | [org.axonframework.test, org.axonframework.tes...]      |
| 14 | axon-messaging-4.7.5     | axon-messaging-4.7.5     | 40                | 61                        | 0.655738               | [org.axonframework.messaging.unitofwork, org.a...]      |
| 15 | axon-eventsourcing-4.7.5 | axon-eventsourcing-4.7.5 | 7                 | 9                         | 0.777778               | [org.axonframework.eventsourcing.eventstore, o...]      |
| 16 | axon-configuration-4.7.5 | axon-disruptor-4.7.5     | 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 | dependentPackageType |
|----|--------------------------|-----------------------|--|-------------------------------------|----------------|----------------------|
| 0  | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.snapshotting         | org.axonframework.eventhandling     | 1              |                      |
| 1  | axon-test-4.7.5          | axon-messaging-4.7.5  | org.axonframework.test.matchers                      | org.axonframework.eventhandling     | 1              |                      |
| 2  | axon-modelling-4.7.5     | axon-messaging-4.7.5  | org.axonframework.modelling.saga.metamodel           | org.axonframework.eventhandling     | 1              |                      |
| 3  | axon-eventsourcing-4.7.5 | axon-modelling-4.7.5  | org.axonframework.eventsourcing.conflictresolution   | org.axonframework.modelling.command | 1              |                      |
| 4  | axon-eventsourcing-4.7.5 | axon-modelling-4.7.5  | org.axonframework.eventsourcing.eventstore.jdbc      | org.axonframework.modelling.command | 1              |                      |
| 5  | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.conflictresolution   | org.axonframework.eventhandling     | 2              |                      |
| 6  | axon-test-4.7.5          | axon-messaging-4.7.5  | org.axonframework.test.eventscheduler                | org.axonframework.eventhandling     | 2              |                      |
| 7  | axon-modelling-4.7.5     | axon-messaging-4.7.5  | org.axonframework.modelling.command                  | org.axonframework.eventhandling     | 2              |                      |
| 8  | axon-modelling-4.7.5     | axon-messaging-4.7.5  | org.axonframework.modelling.command.legacyjpa        | org.axonframework.eventhandling     | 2              |                      |
| 9  | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.conflictresolution   | org.axonframework.messaging         | 1              |                      |
| 10 | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.eventstore           | org.axonframework.messaging         | 1              |                      |
| 11 | axon-test-4.7.5          | axon-messaging-4.7.5  | org.axonframework.test                               | org.axonframework.messaging         | 1              |                      |
| 12 | axon-test-4.7.5          | axon-messaging-4.7.5  | org.axonframework.test.matchers                      | org.axonframework.messaging         | 1              |                      |
| 13 | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.eventstore.jdbc      | org.axonframework.serialization     | 1              |                      |
| 14 | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.eventstore.jpa       | org.axonframework.serialization     | 1              |                      |
| 15 | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.eventstore.legacyjpa | org.axonframework.serialization     | 1              |                      |
| 16 | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.eventstore.jdbc      | org.axonframework.eventhandling     | 3              |                      |
| 17 | axon-test-4.7.5          | axon-modelling-4.7.5  | org.axonframework.test.utils                         | org.axonframework.modelling.saga    | 1              |                      |
| 18 | axon-eventsourcing-4.7.5 | axon-messaging-4.7.5  | org.axonframework.eventsourcing.conflictresolution   | org.axonframework.commandhandling   | 1              |                      |
| 19 | axon-test-4.7.5          | axon-messaging-4.7.5  | org.axonframework.test.matchers                      | org.axonframework.commandhandling   | 1              |                      |