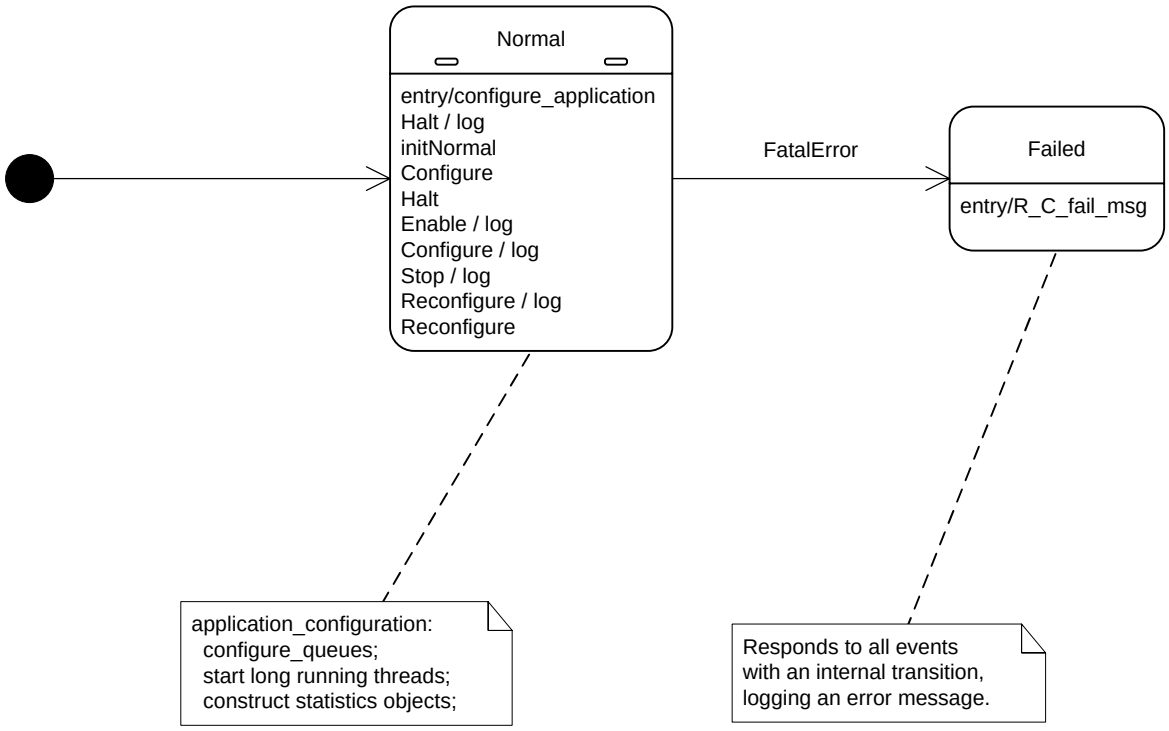
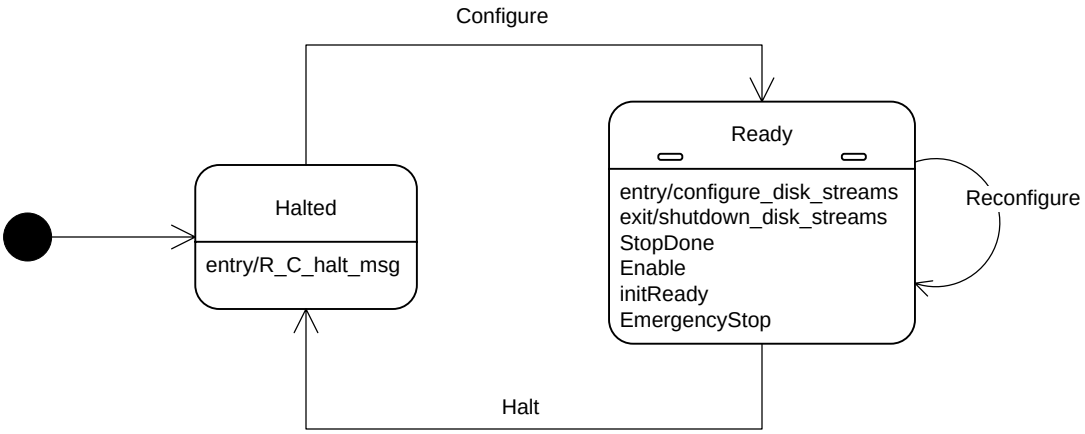
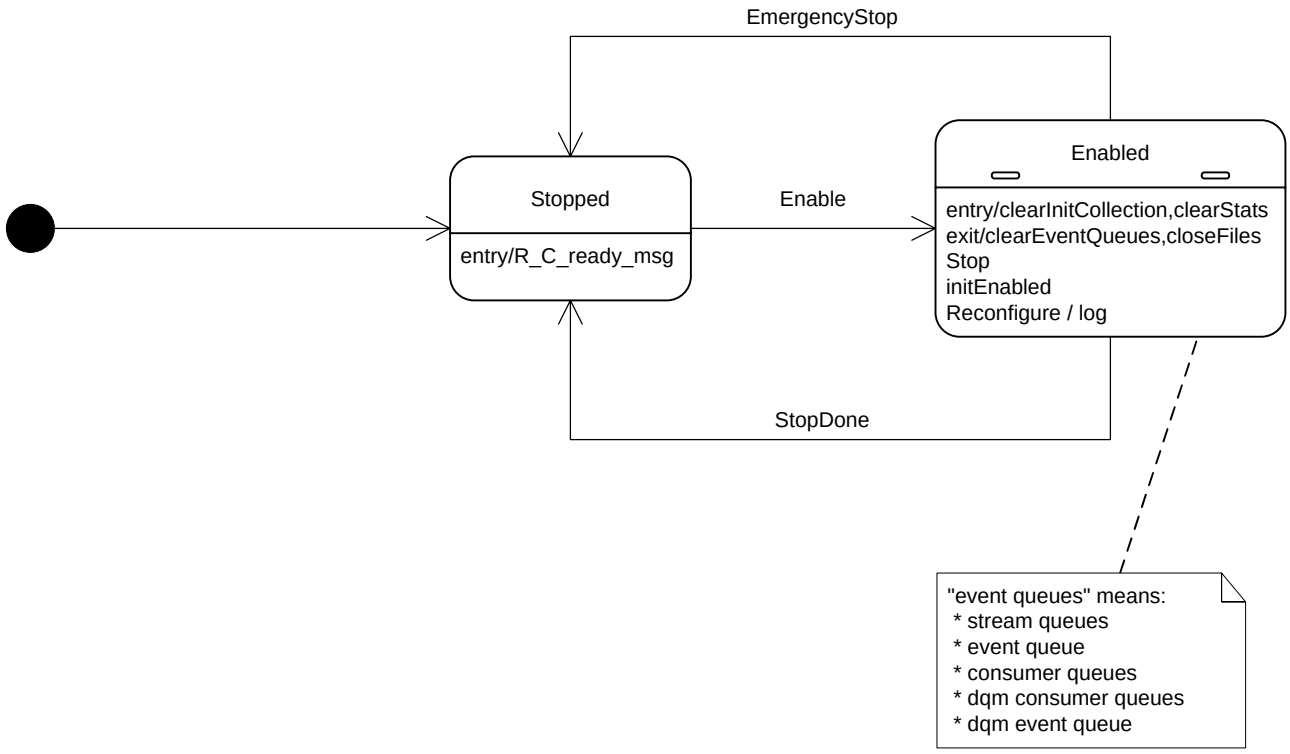
Top-level states



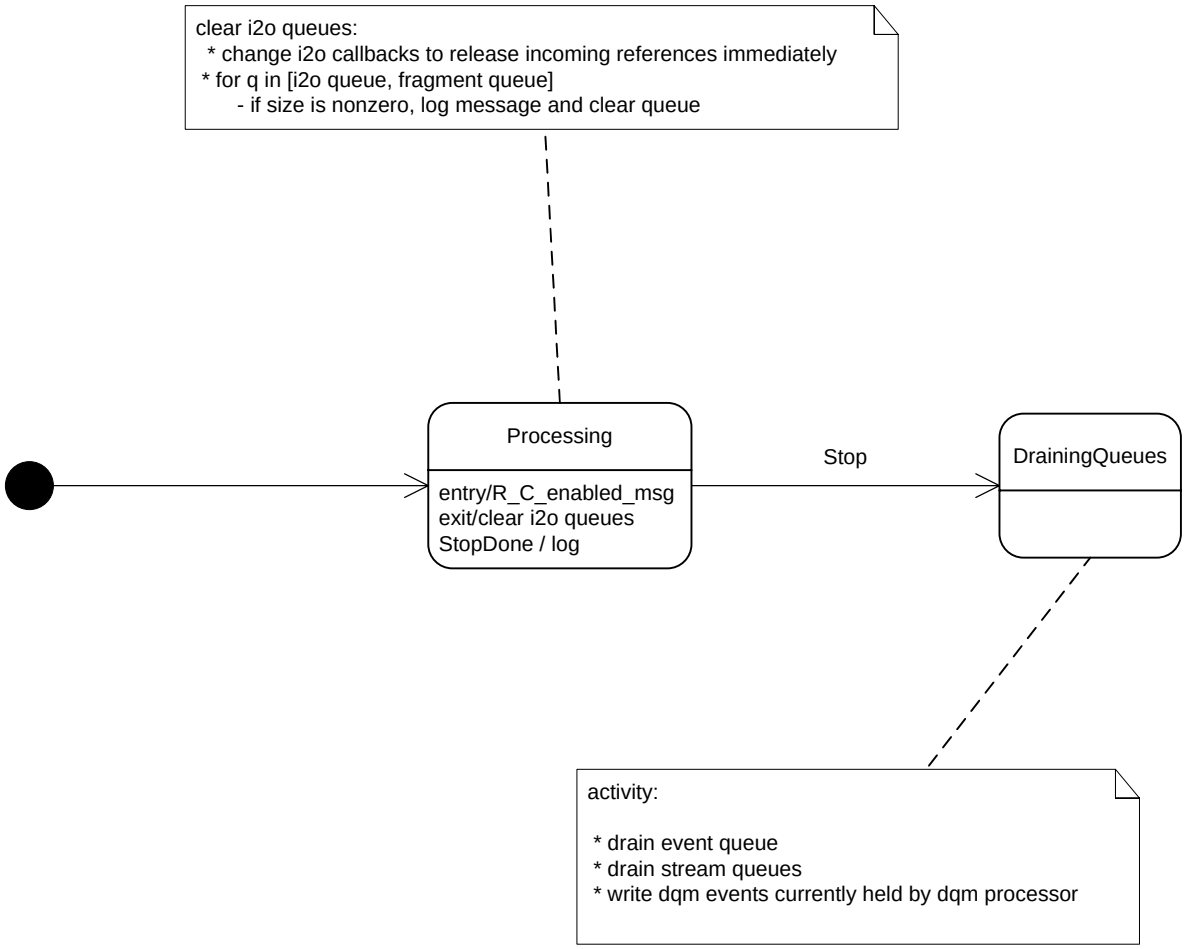
Substates for *Normal* state.

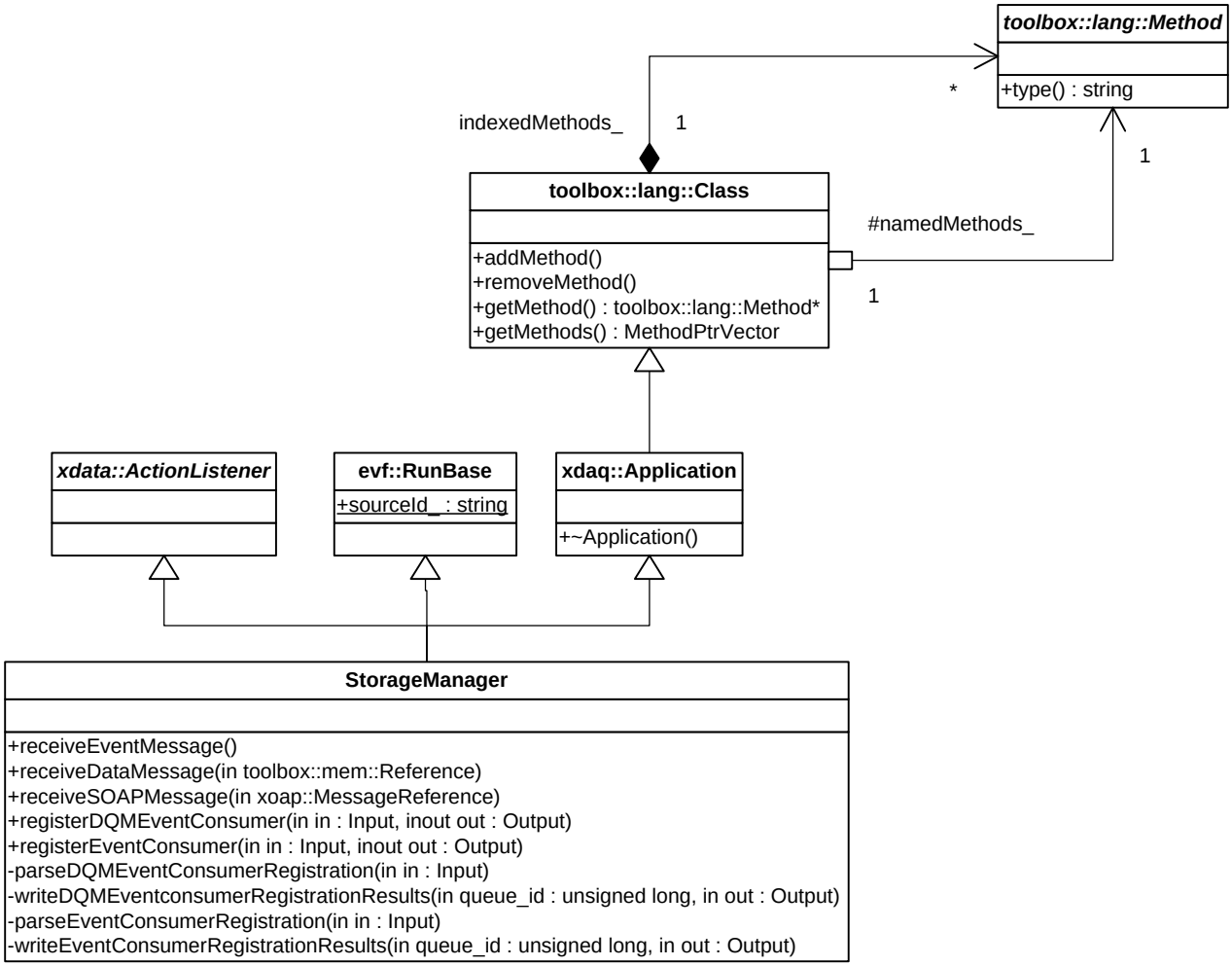


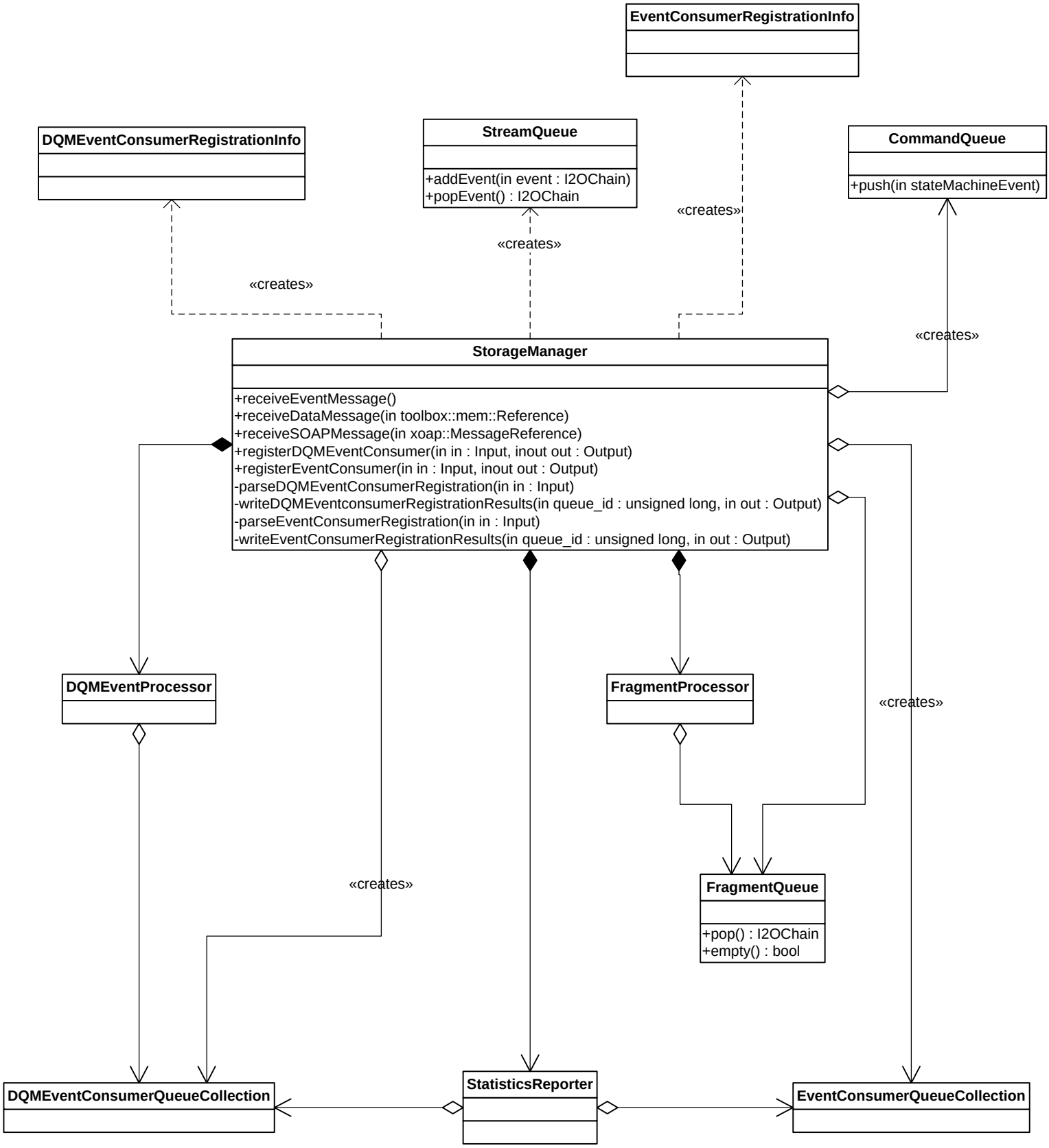
Substates for *Ready* state

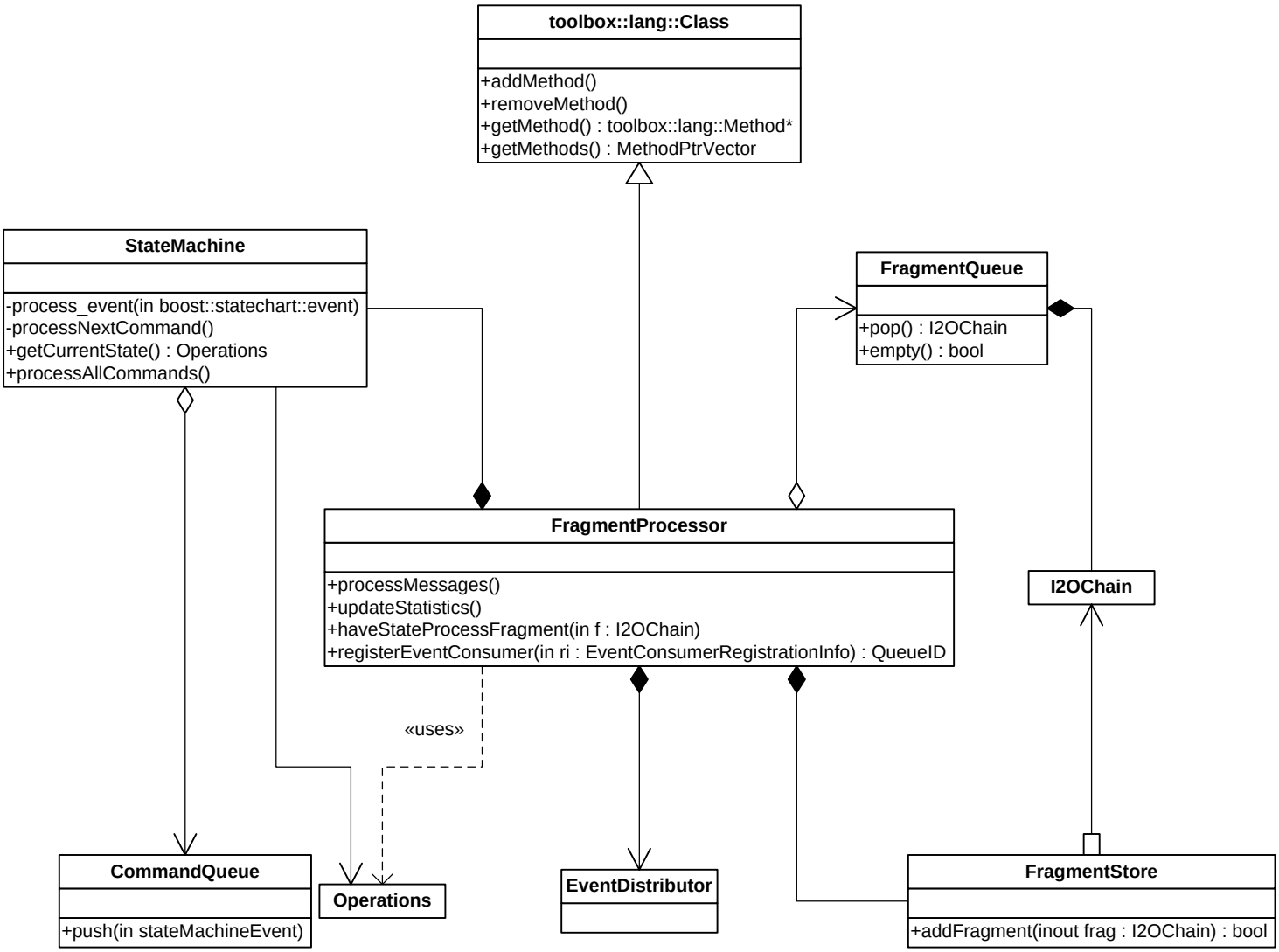


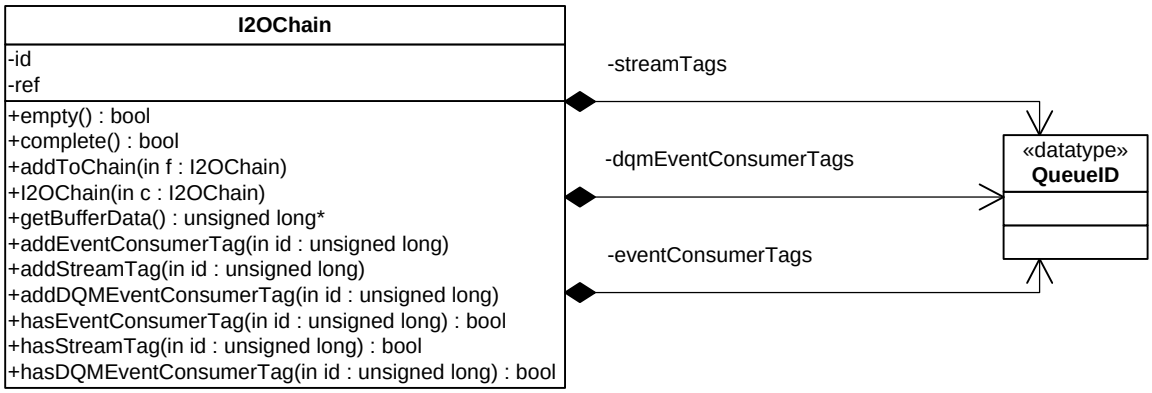
Substates for *Enabled* State

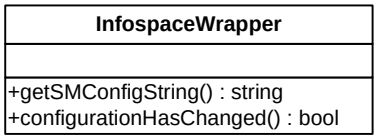


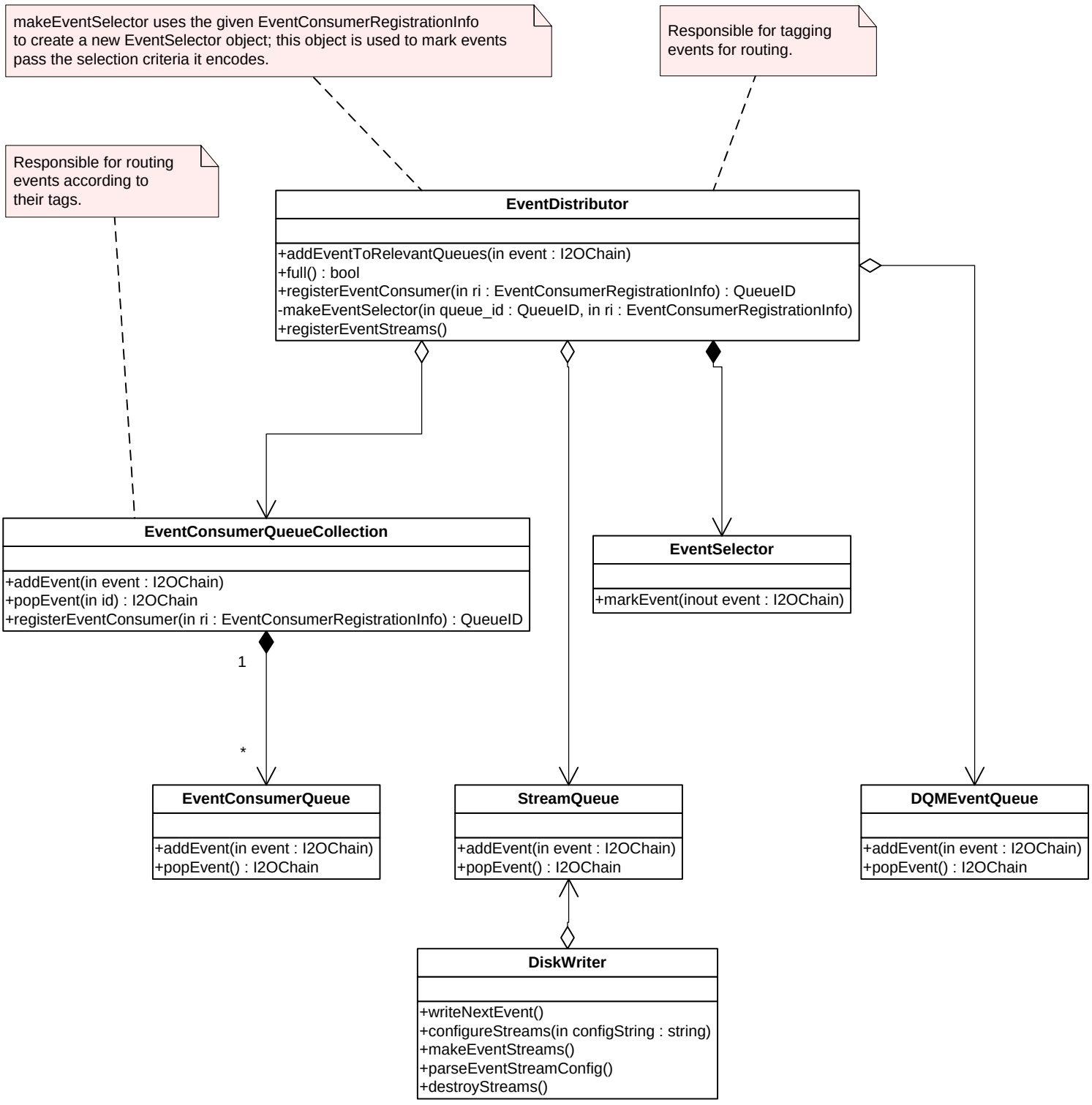

toolbox::lang::Method
+type() : string
*
indexedMethods_
1
1
toolbox::lang::Class
+addMethod()
+removeMethod()
+getMethod() : toolbox::lang::Method*
+getMethods() : MethodPtrVector
#namedMethods_
1
xdata::ActionListener
evf::RunBase
+sourceId_ : string
xdaq::Application
+~Application()
StorageManager
+receiveEventMessage()
+receiveDataMessage(in toolbox::mem::Reference)
+receiveSOAPMessage(in xoap::MessageReference)
+registerDQMEventConsumer(in in : Input, inout out : Output)
+registerEventConsumer(in in : Input, inout out : Output)
-parseDQMEventConsumerRegistration(in in : Input)
-writeDQMEventconsumerRegistrationResults(in queue_id : unsigned long, in out : Output)
-parseEventConsumerRegistration(in in : Input)
-writeEventConsumerRegistrationResults(in queue_id : unsigned long, in out : Output)

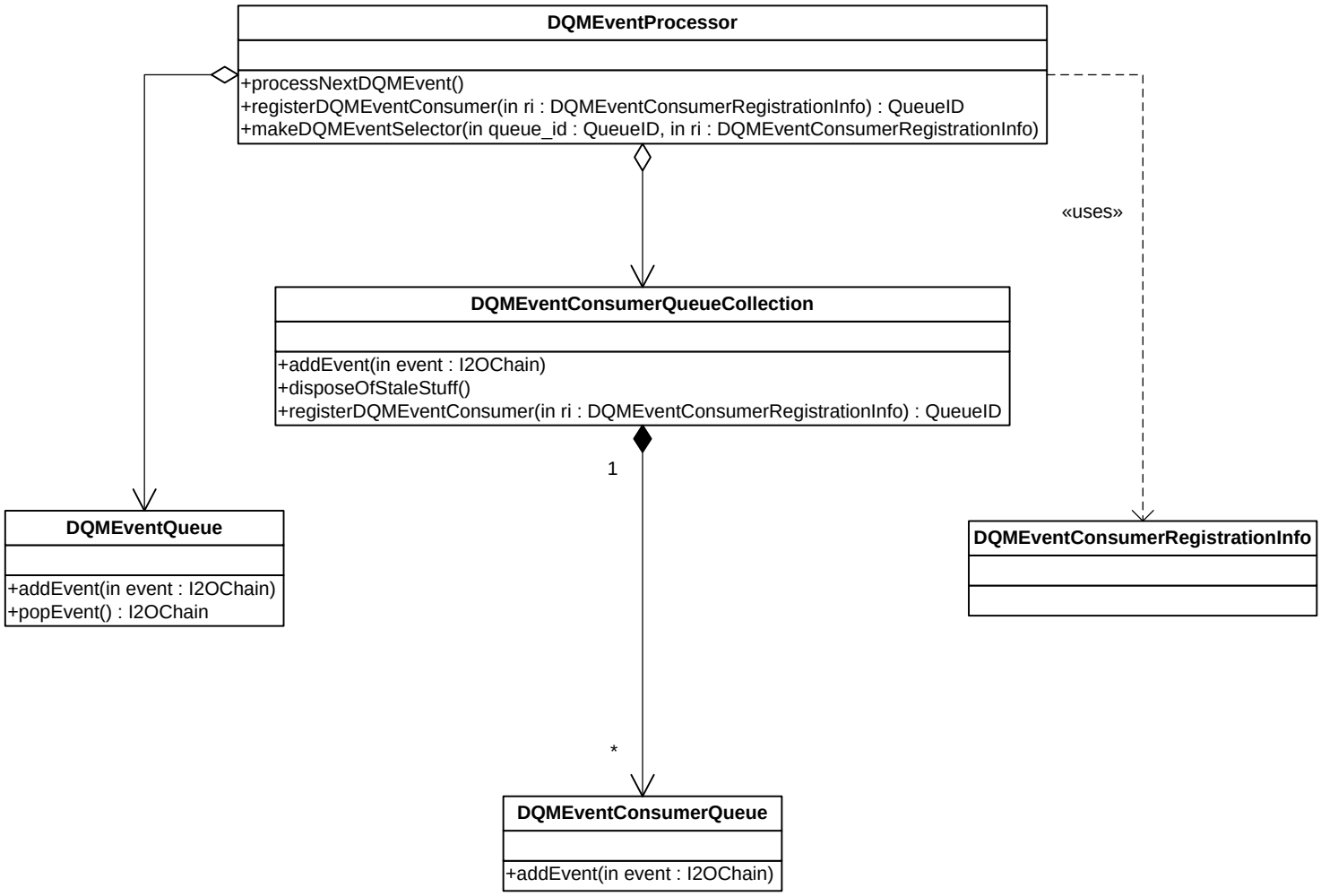

EventConsumerRegistrationInfo
DQMEventConsumerRegistrationInfo
StreamQueue
+addEvent(in event : I2OChain)
+popEvent() : I2OChain
CommandQueue
+push(in stateMachineEvent)
«creates»
«creates»
«creates»
«creates»
StorageManager
+receiveEventMessage()
+receiveDataMessage(in toolbox::mem::Reference)
+receiveSOAPMessage(in xoap::MessageReference)
+registerDQMEventConsumer(in in : Input, inout out : Output)
+registerEventConsumer(in in : Input, inout out : Output)
-parseDQMEventConsumerRegistration(in in : Input)
-writeDQMEventconsumerRegistrationResults(in queue_id : unsigned long, in out : Output)
-parseEventConsumerRegistration(in in : Input)
-writeEventConsumerRegistrationResults(in queue_id : unsigned long, in out : Output)
DQMEventProcessor
FragmentProcessor
«creates»
«creates»
FragmentQueue
+pop() : I2OChain
+empty() : bool
DQMEventConsumerQueueCollection
StatisticsReporter
EventConsumerQueueCollection


toolbox::lang::Class
+addMethod()
+removeMethod()
+getMethod() : toolbox::lang::Method*
+getMethods() : MethodPtrVector
StateMachine
-process_event(in boost::statechart::event)
-processNextCommand()
+getCurrentState() : Operations
+processAllCommands()
FragmentQueue
+pop() : I2OChain
+empty() : bool
FragmentProcessor
+processMessages()
+updateStatistics()
+haveStateProcessFragment(in f : I2OChain)
+registerEventConsumer(in ri : EventConsumerRegistrationInfo) : QueueID
I2OChain
«uses»
CommandQueue
+push(in stateMachineEvent)
Operations
EventDistributor
FragmentStore
+addFragment(inout frag : I2OChain) : bool

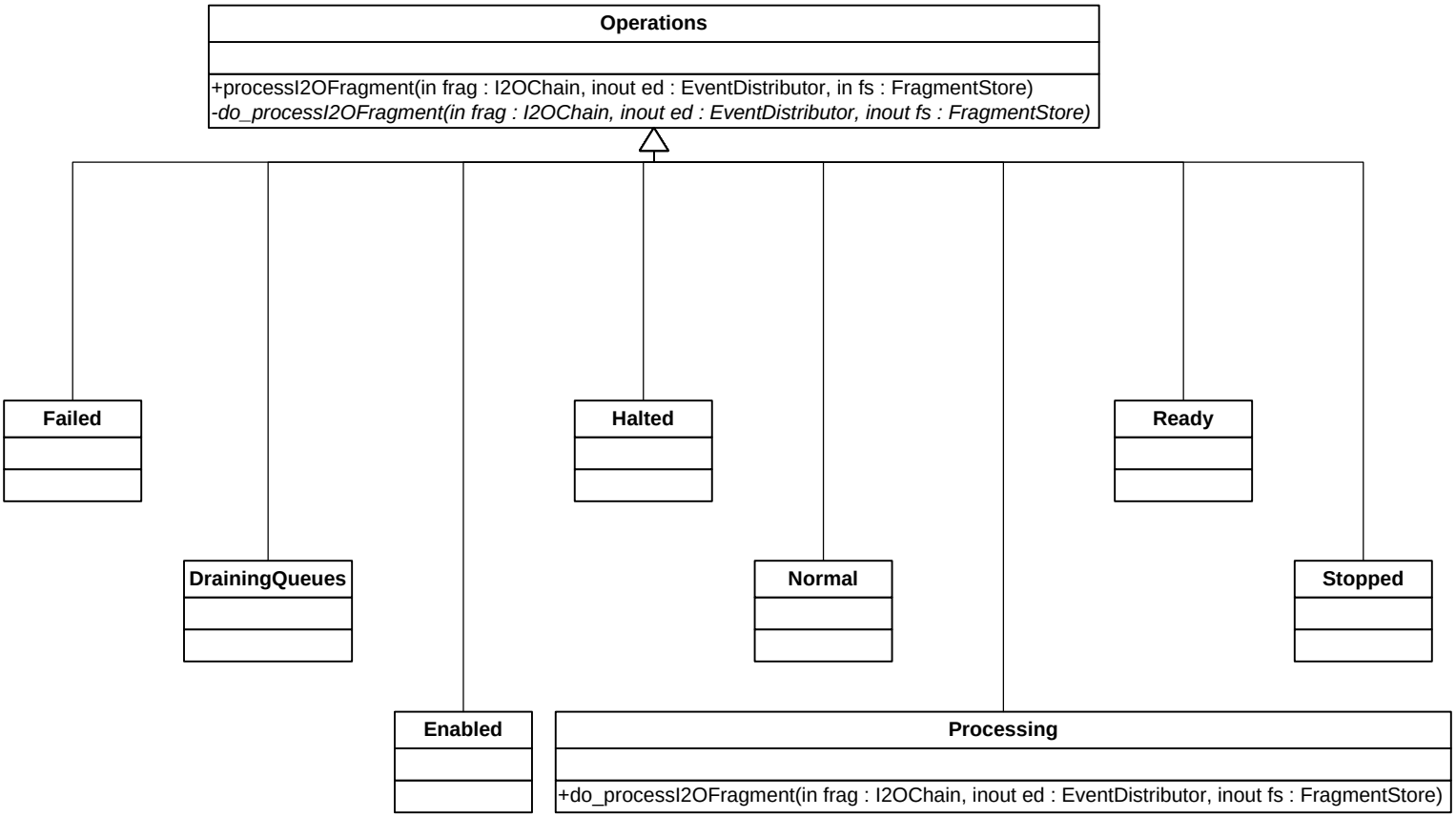

I2OChain
-id
-ref
+empty() : bool
+complete() : bool
+addToChain(in f : I2OChain)
+I2OChain(in c : I2OChain)
+getBufferData() : unsigned long*
+addEventConsumerTag(in id : unsigned long)
+addStreamTag(in id : unsigned long)
+addDQMEventConsumerTag(in id : unsigned long)
+hasEventConsumerTag(in id : unsigned long) : bool
+hasStreamTag(in id : unsigned long) : bool
+hasDQMEventConsumerTag(in id : unsigned long) : bool
-streamTags
-dqmEventConsumerTags
-eventConsumerTags
«datatype»
QueueID

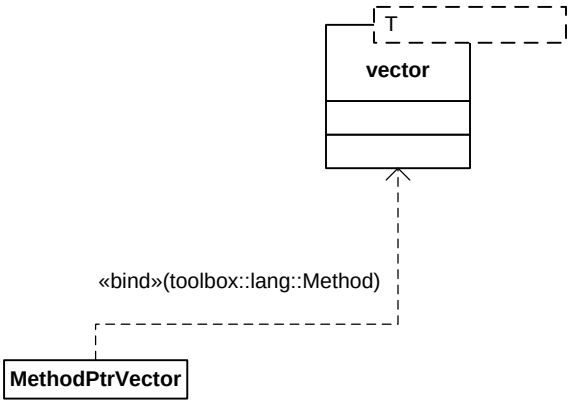

InfospaceWrapper
+getSMConfigString() : string
+configurationHasChanged() : bool


makeEventSelector uses the given EventConsumerRegistrationInfo to create a new EventSelector object; this object is used to mark events pass the selection criteria it encodes.
Responsible for tagging events for routing.
Responsible for routing events according to their tags.
EventDistributor
+addEventToRelevantQueues(in event : I2OChain)
+full() : bool
+registerEventConsumer(in ri : EventConsumerRegistrationInfo) : QueueID
-makeEventSelector(in queue_id : QueueID, in ri : EventConsumerRegistrationInfo)
+registerEventStreams()
EventConsumerQueueCollection
+addEvent(in event : I2OChain)
+popEvent(in id) : I2OChain
+registerEventConsumer(in ri : EventConsumerRegistrationInfo) : QueueID
EventSelector
+markEvent(inout event : I2OChain)
1
*
EventConsumerQueue
+addEvent(in event : I2OChain)
+popEvent() : I2OChain
StreamQueue
+addEvent(in event : I2OChain)
+popEvent() : I2OChain
DQMEventQueue
+addEvent(in event : I2OChain)
+popEvent() : I2OChain
DiskWriter
+writeNextEvent()
+configureStreams(in configString : string)
+makeEventStreams()
+parseEventStreamConfig()
+destroyStreams()


DQMEventProcessor
+processNextDQMEvent()
+registerDQMEventConsumer(in ri : DQMEventConsumerRegistrationInfo) : QueueID
+makeDQMEventSelector(in queue_id : QueueID, in ri : DQMEventConsumerRegistrationInfo)
«uses»
DQMEventConsumerQueueCollection
+addEvent(in event : I2OChain)
+disposeOfStaleStuff()
+registerDQMEventConsumer(in ri : DQMEventConsumerRegistrationInfo) : QueueID
1
DQMEventQueue
+addEvent(in event : I2OChain)
+popEvent() : I2OChain
DQMEventConsumerRegistrationInfo
*
DQMEventConsumerQueue
+addEvent(in event : I2OChain)

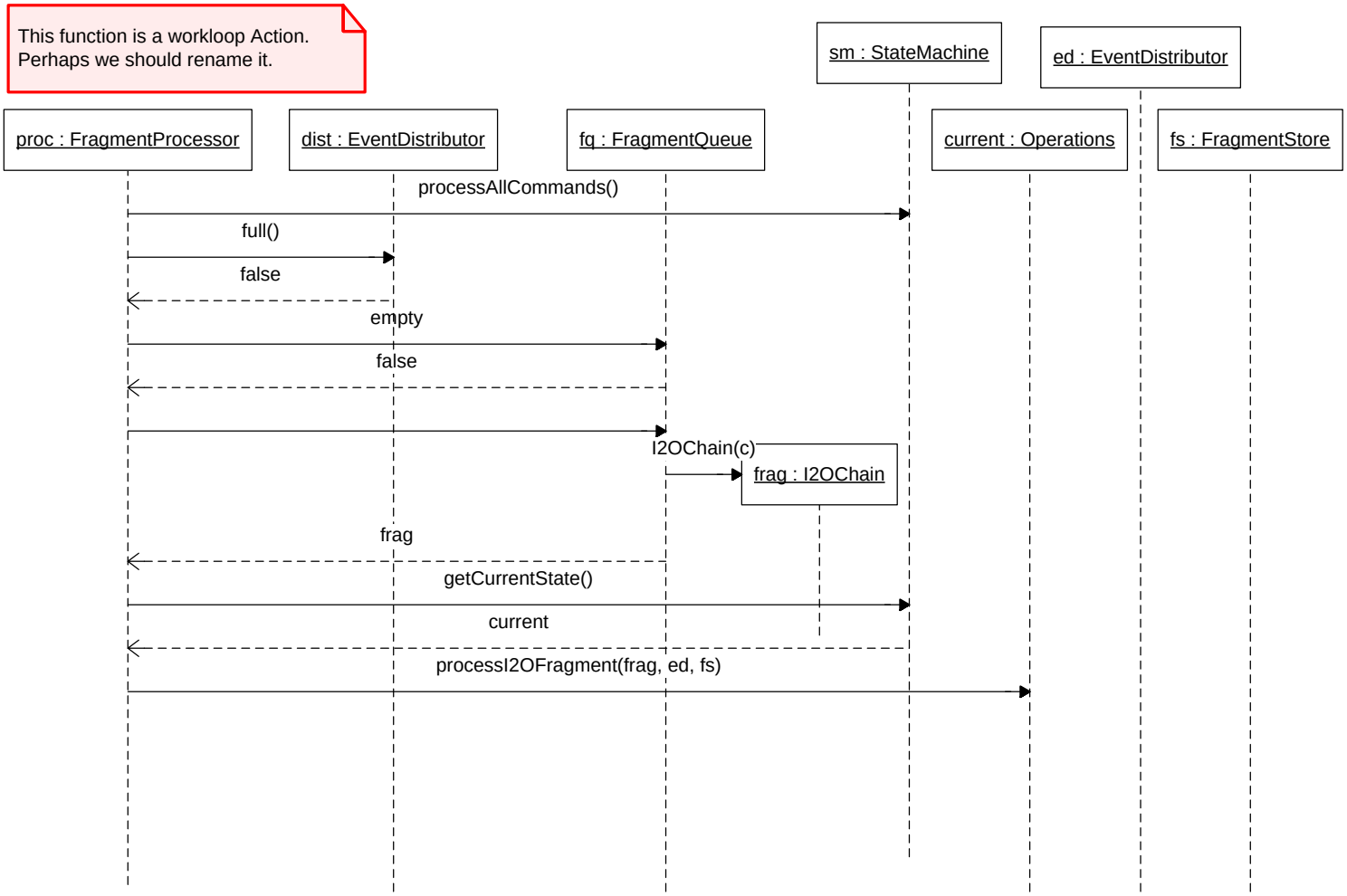
State classes show only the inheritance from Operations, not the inheritance from the Boost Statechart classes.



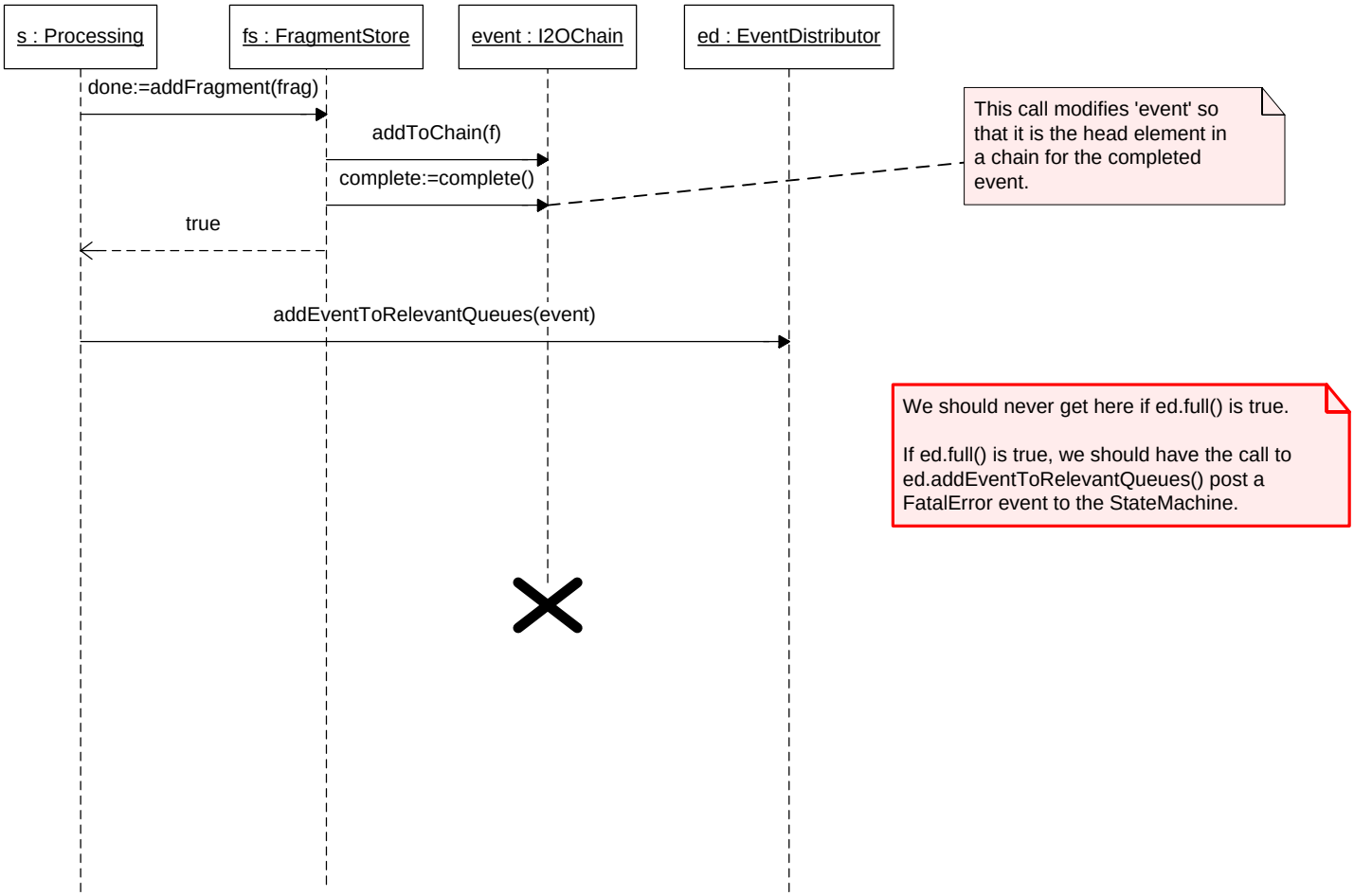

T
vector
«bind»(toolbox::lang::Method)
MethodPtrVector


Input
Output

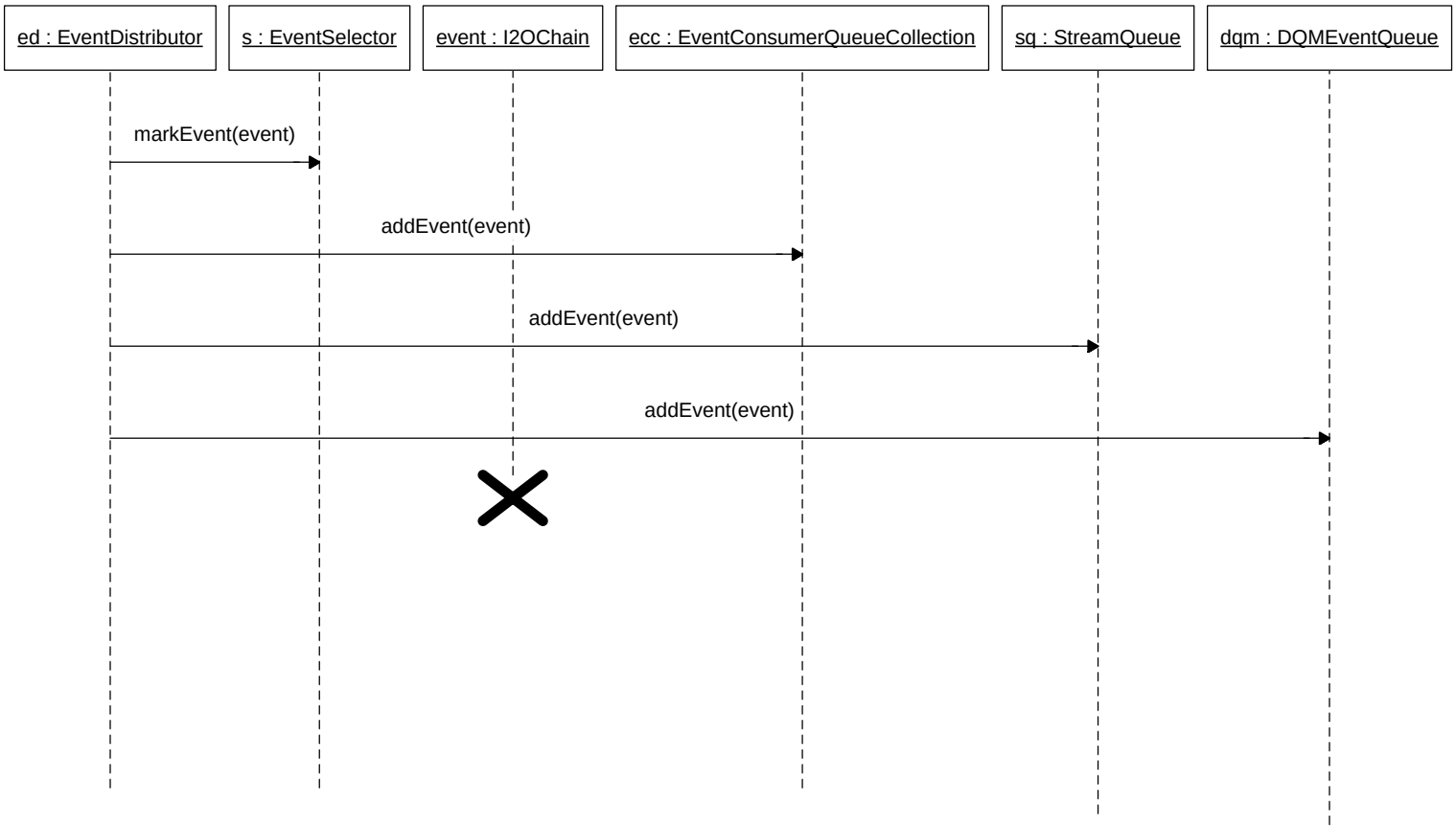
FragmentProcessor::processMessages



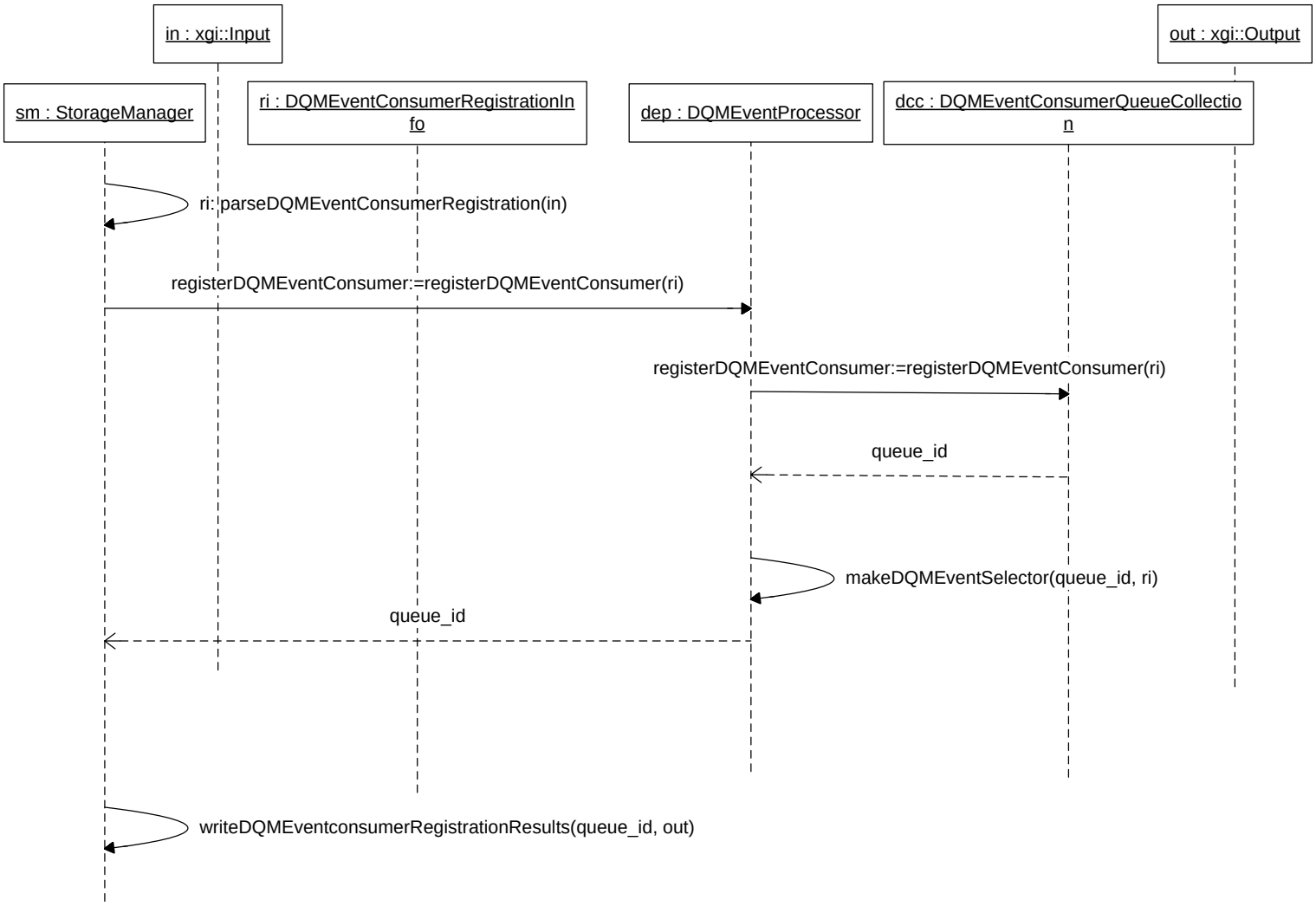
Processing State processing a fragment: last fragment case (do_processI2OFragment)



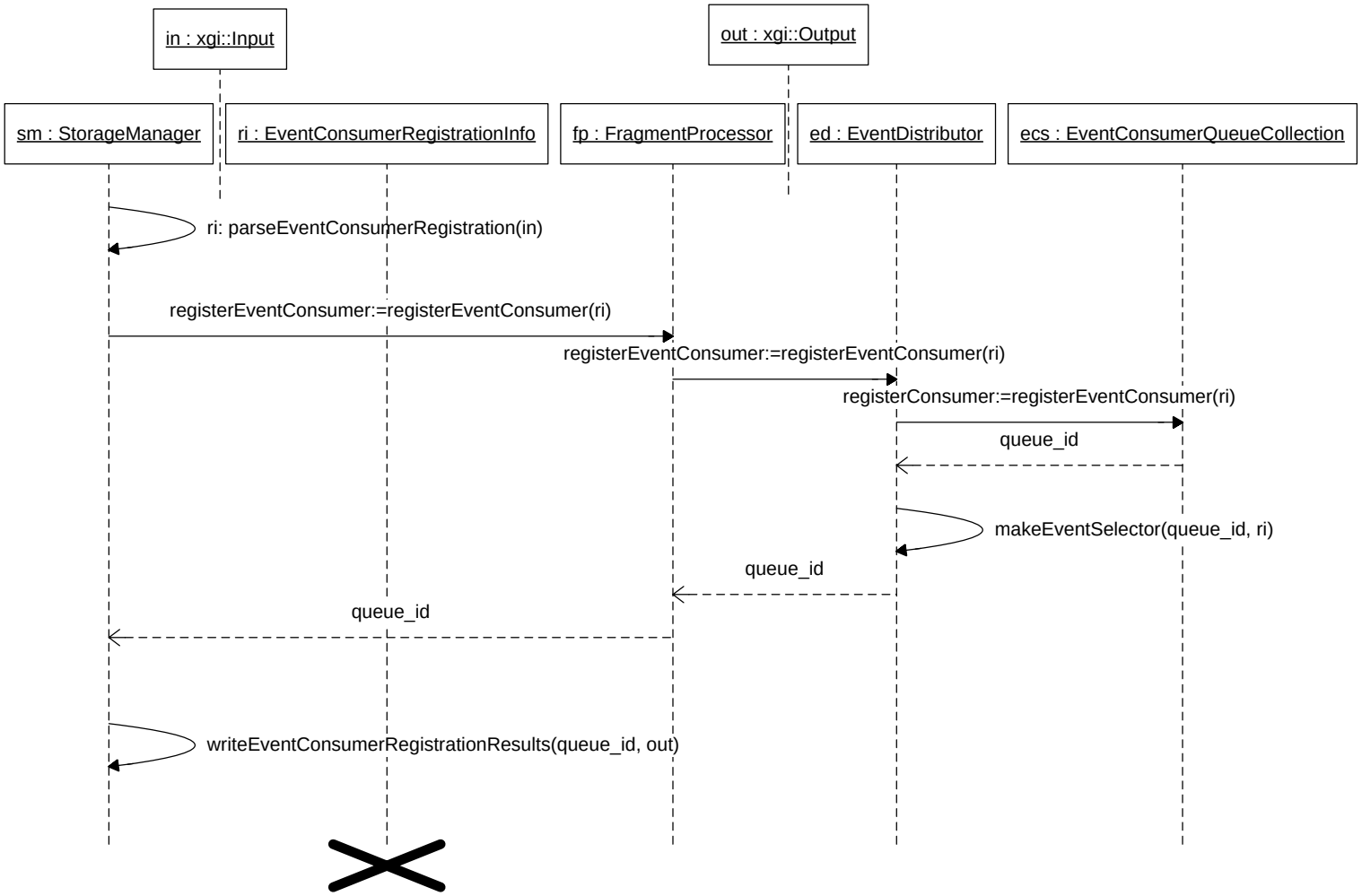
EventDistributor::addEventToRelevantQueues



DQMEvent consumer registration (StorageManager::registerDQMEventConsumer)

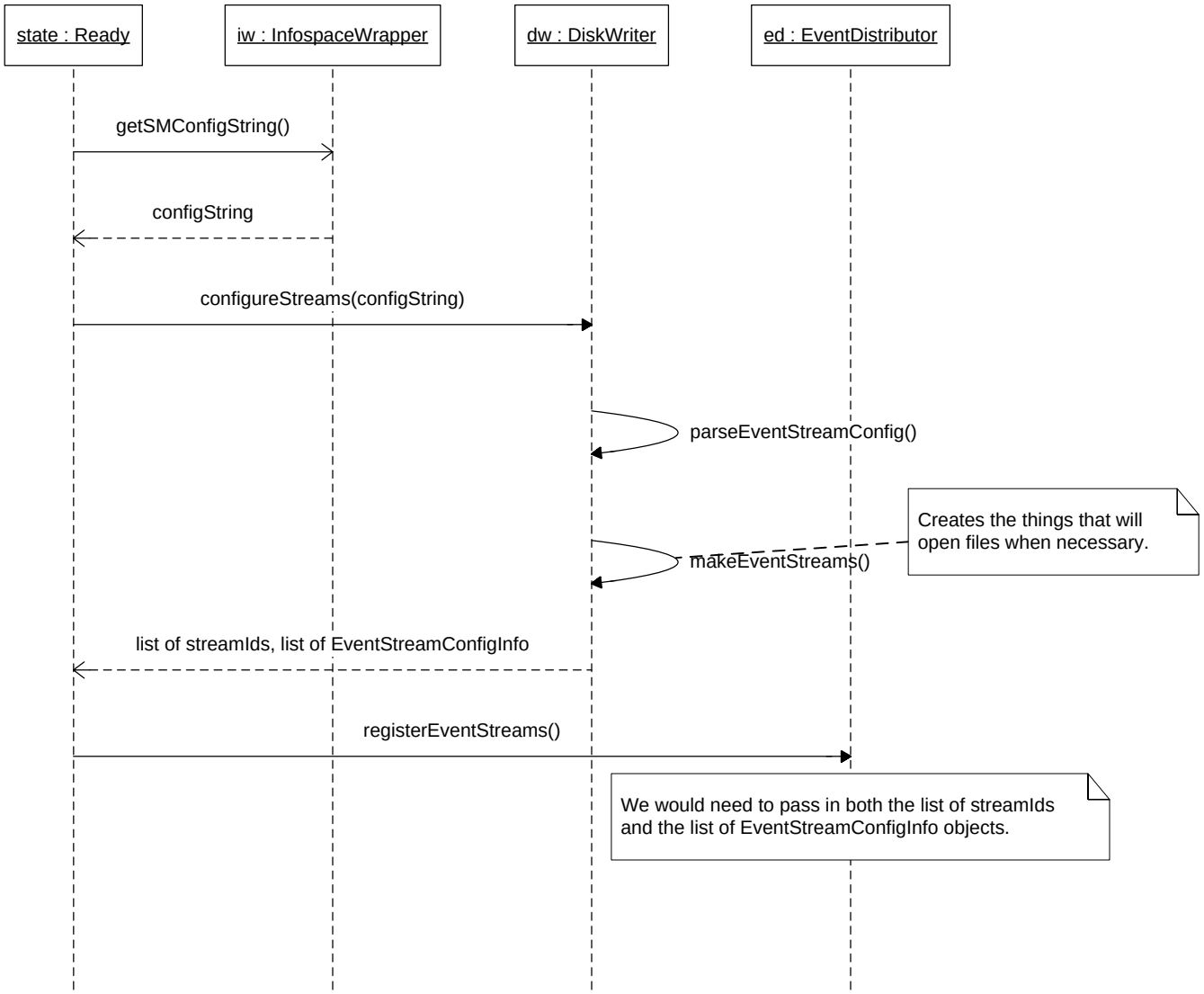


Event consumer registration (StorageManager::registerEventConsumer)



We still need to determine how timeouts for deregistration are handled.

Event stream configuration
(Ready entry action)



Should we move the parsing of the config string into the EventDistrbitor, move that operation to an early part of the sequence, and pass the list of EventStreamConfigInfo objects to the DiskWriter?

We need to figure out how to make the Ready state aware of the other objects that it needs (the InfospaceWrapper, the DiskWriter, and possibly the EventDistributor).

SM callback for Enable SOAP command