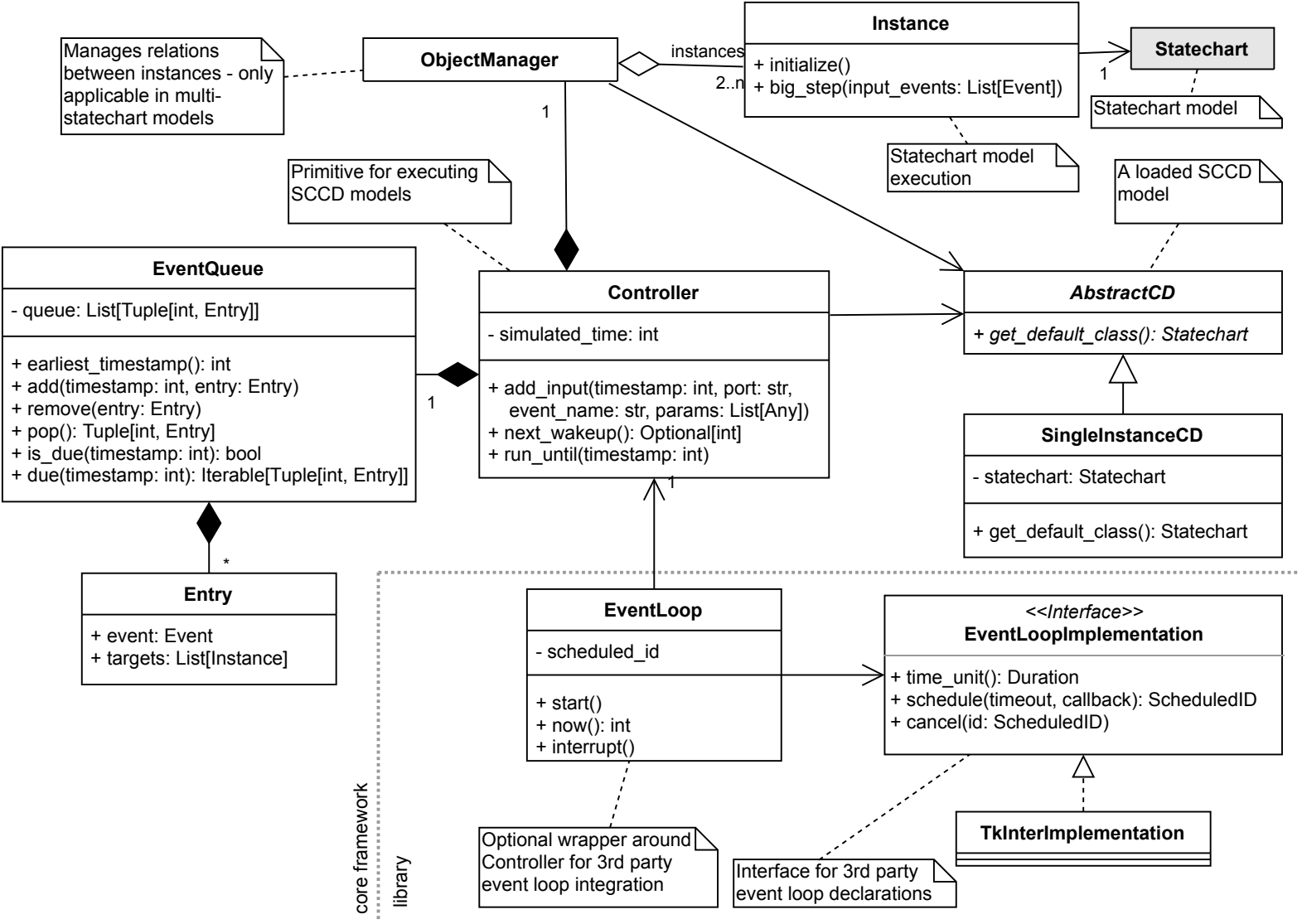
Manages relations between instances - only applicable in multi-statechart models
ObjectManager
instances
2..n
1
Instance
+ initialize()
+ big_step(input_events: List[Event])
1
Statechart
Statechart model
Statechart model execution
Primitive for executing SCCD models
A loaded SCCD model
EventQueue
- queue: List[Tuple[int, Entry]]
+ earliest_timestamp(): int
+ add(timestamp: int, entry: Entry)
+ remove(entry: Entry)
+ pop(): Tuple[int, Entry]
+ is_due(timestamp: int): bool
+ due(timestamp: int): Iterable[Tuple[int, Entry]]
1
Controller
- simulated_time: int
+ add_input(timestamp: int, port: str, event_name: str, params: List[Any])
+ next_wakeup(): Optional[int]
+ run_until(timestamp: int)
1
AbstractCD
+ get_default_class(): Statechart
SingleInstanceCD
- statechart: Statechart
+ get_default_class(): Statechart
*
Entry
+ event: Event
+ targets: List[Instance]
EventLoop
- scheduled_id
+ start()
+ now(): int
+ interrupt()
<<Interface>>
EventLoopImplementation
+ time_unit(): Duration
+ schedule(timeout, callback): ScheduledID
+ cancel(id: ScheduledID)
TkInterImplementation
Optional wrapper around Controller for 3rd party event loop integration
Interface for 3rd party event loop declarations
core framework
library