

**RPCServer** [↗](#)

```

+id: str
+logger: logging.Logger ↗
+things: Thing | List[Thing] ↗
+uninstantiated_things: Dict[str, Thing]
+context: zmq.asyncio.Context ↗
+transports: List[str | Enum] | str | Enum
+req_rep_server: AsyncZMQServer ↗
+event_publisher: EventPublisher ↗
+schedulers: Dict[str, Scheduler]
+schedulers_per_objekt: Dict[str, Scheduler]

+run_request_listener()
+recv_and_dispatch_requests()
+tunnel_message_to_things()
+run_thing_instance()
$execute_operation()
+process_timeouts()
+run_things_executor()
+run()
+stop()
+exit()

```

**Scheduler** [↗](#)

```

+instance: Thing ↗
+rpc_server: RPCServer
+next_job: Job
+has_job: bool
+last_operation_request: OperationRequest
+last_operation_reply: OperationReply

+wait_for_job()
+wait_for_operation()
+wait_for_reply()
+dispatch_job()
+reset_operation_request()
+reset_operation_reply()
+cleanup()
$extract_operation_tuple_from_request()
$format_reply_tuple()

```

**OperationReply: Tuple**

```

[0] - return value: SerializableData
[1] - serialized return value: PreserializedData
[2] - return value type: str (REPLY | ERROR )

```

**OperationRequest: Tuple**

```

[0] - thing ID: str
[1] - objekt: str
[2] - operation: str
[3] - payload: SerializableData
[4] - serialized payload: PreserializedData
[5] - thing execution context: dict

```

**SerializableData** [↗](#)

```

<<dataclass>>
+ value: Any
+ serializer: BaseSerializer ↗
+ content_type: str

+ serialize(): bytes
+ deserialize(): Any

```

**PreserializedData** [↗](#)

```

<<dataclass>>
+ value: Any
+ content_type: str

```

1..n

0..1

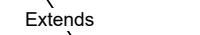
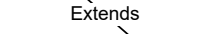
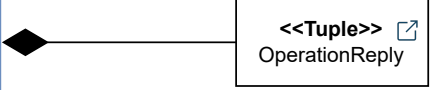
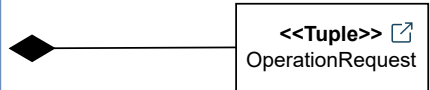
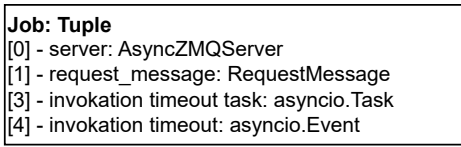
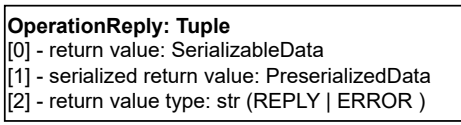
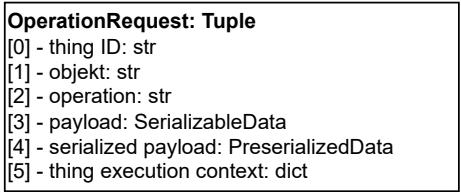
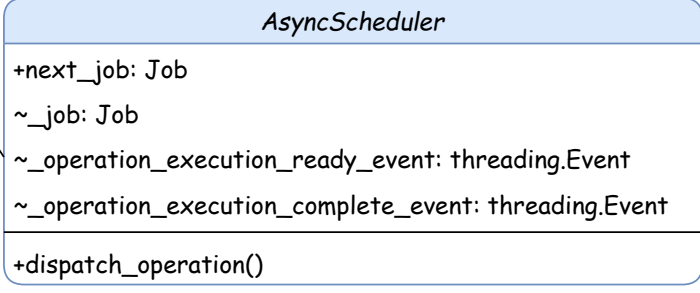
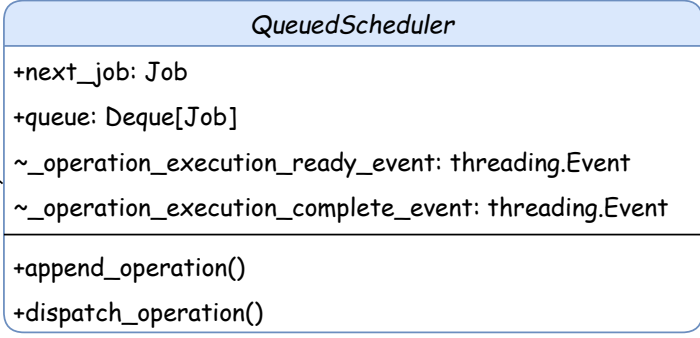
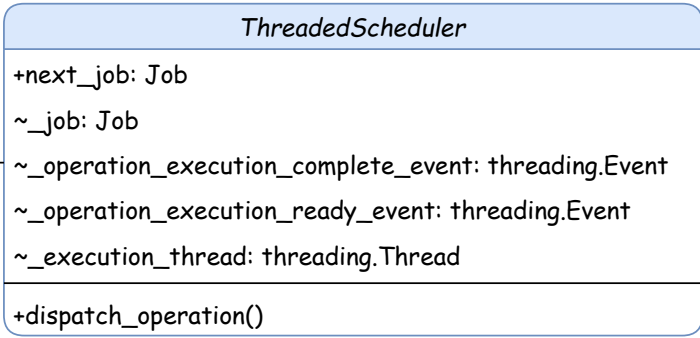
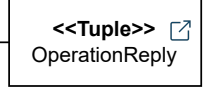
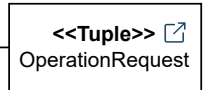
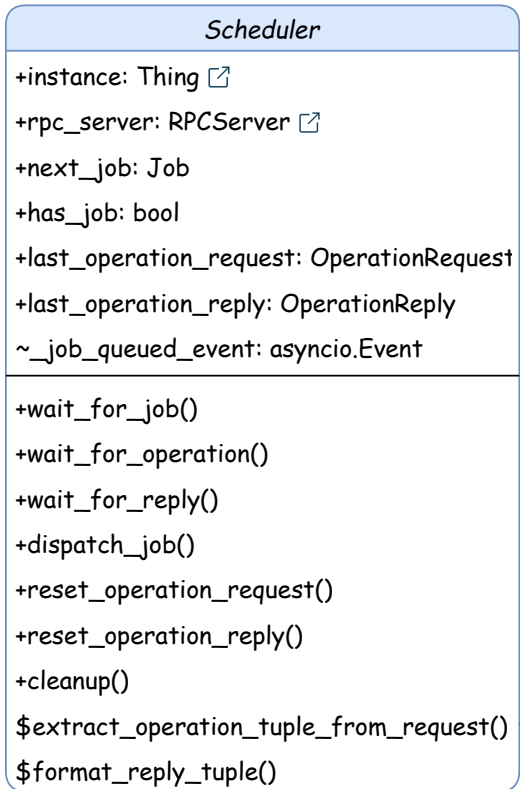
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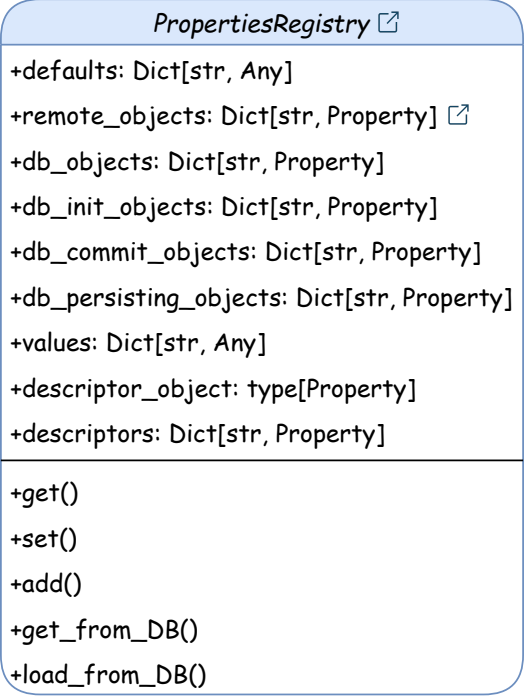
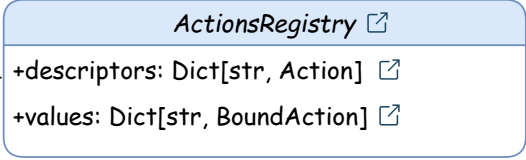
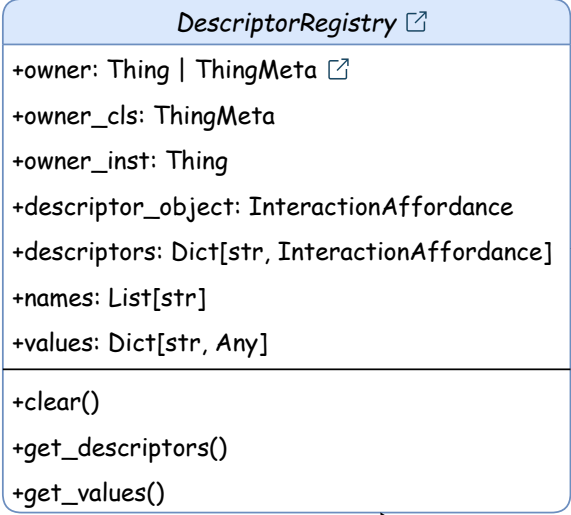
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«type»  
**InteractionAffordance:**  
type[Property | Action | Event]



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