

```

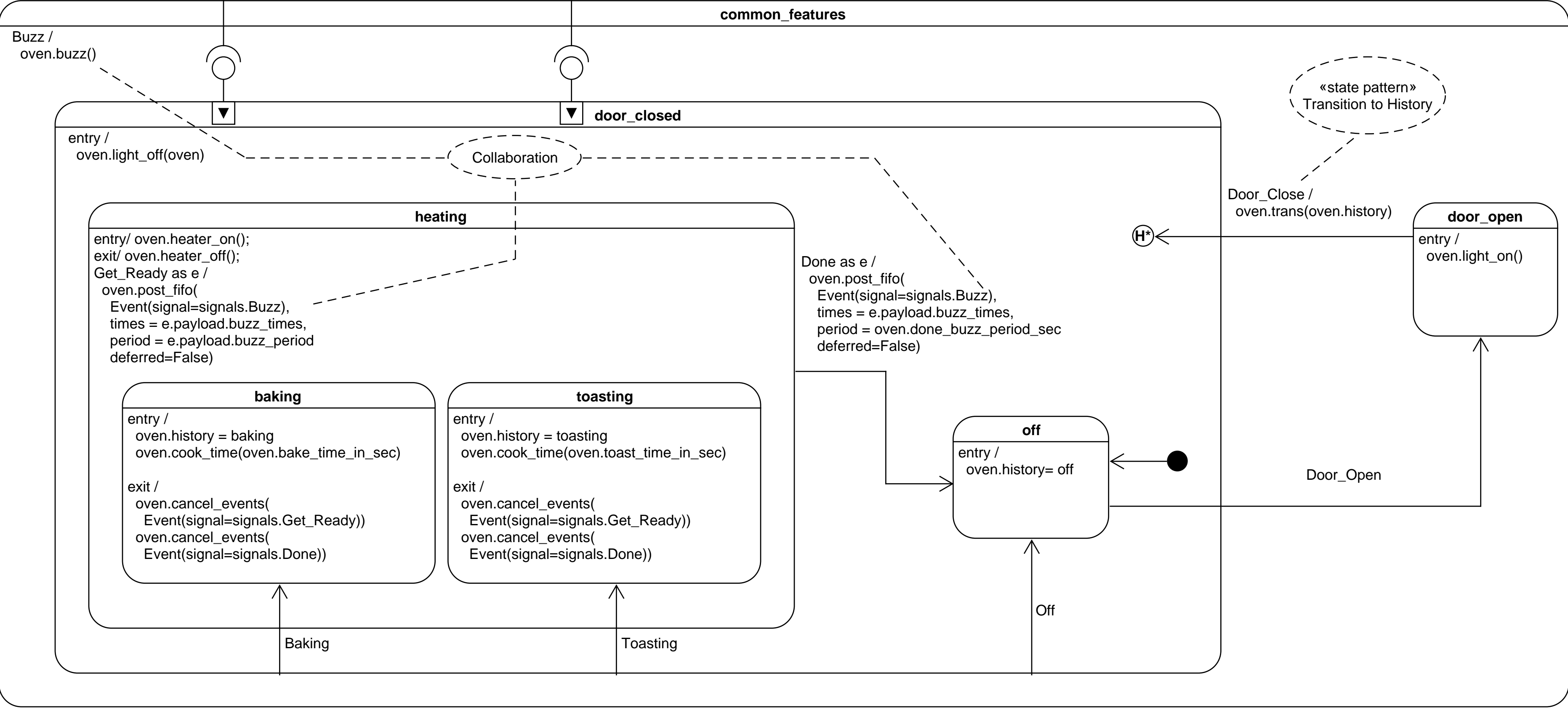
get_ready_time_in_sec = time_in_sec - \
self.get_ready_sec

self.post_fifo(
  Event(signal=signals.Get_Ready,
    payload=BuzzSpec(buzz_times=1)),
  times=1,
  period=get_ready_time_in_sec,
  deferred=True)

self.post_fifo(
  Event(signal=signals.Done,
    payload=BuzzSpec(buzz_times=2),
  times=1,
  period=time_in_sec
  deferred=True)
  
```

```

BuzzSpec = namedtuple(
  'BuzzSpec', ['buzz_times'])
  
```



common_features

Buzz / oven.buzz()

door_closed

entry / oven.light_off(oven)

Collaboration

heating

```

entry/ oven.heater_on();
exit/ oven.heater_off();
Get_Ready as e /
oven.post_fifo(
  Event(signal=signals.Buzz),
  times = e.payload.buzz_times,
  period = e.payload.buzz_period
  deferred=False)
  
```

baking

```

entry /
oven.history = baking
oven.cook_time(oven.bake_time_in_sec)

exit /
oven.cancel_events(
  Event(signal=signals.Get_Ready))
oven.cancel_events(
  Event(signal=signals.Done))
  
```

Baking

toasting

```

entry /
oven.history = toasting
oven.cook_time(oven.toast_time_in_sec)

exit /
oven.cancel_events(
  Event(signal=signals.Get_Ready))
oven.cancel_events(
  Event(signal=signals.Done))
  
```

Toasting

```

Done as e /
oven.post_fifo(
  Event(signal=signals.Buzz),
  times = e.payload.buzz_times,
  period = oven.done_buzz_period_sec
  deferred=False)
  
```

off

```

entry /
oven.history= off
  
```

Off

H*

Door_Close / oven.trans(oven.history)

door_open

```

entry /
oven.light_on()
  
```

«state pattern»
Transition to History

Door_Open