

room.basic.service.timing Model Documentation

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1 Model Description

2 Protocol Classes

2.1 PTimer

2.1.1 Incoming Messages

Message	Data	Type	Description
startTimer	time	uint32	
startTimeout	time	uint32	
kill			

2.1.2 Outgoing Messages

Message	Data	Type	Description
timeout			

3 Actor Classes

3.1 ATimingService

3.1.1 Structure

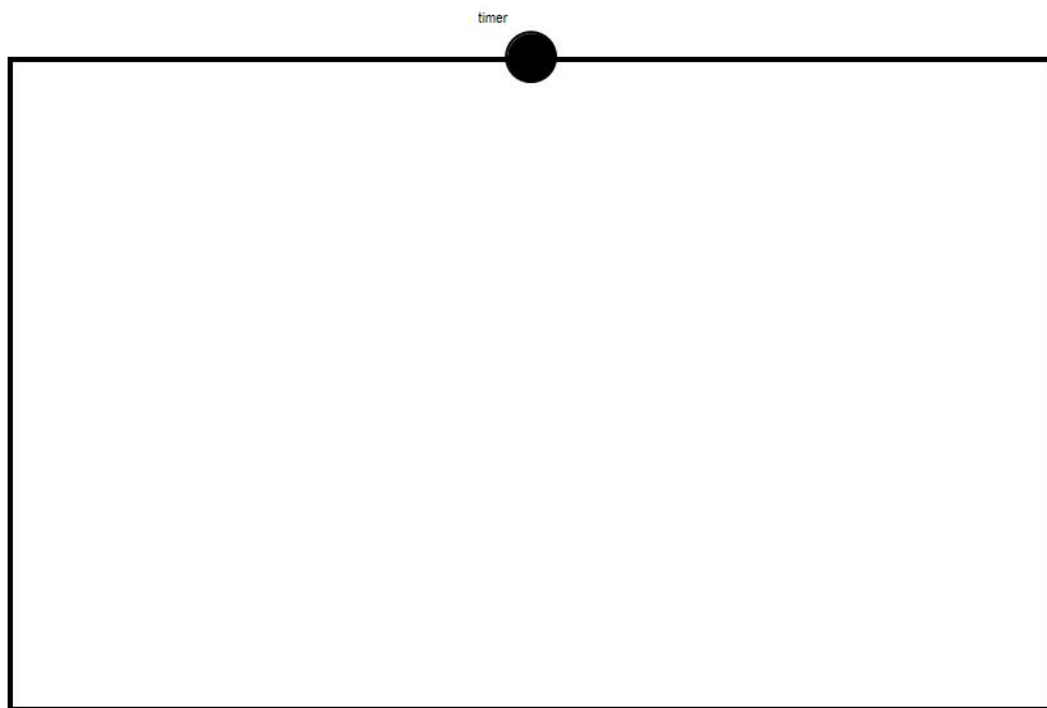


Figure 1: ATimingService Structure

3.1.2 Behavior

3.1.2.1 Top Level

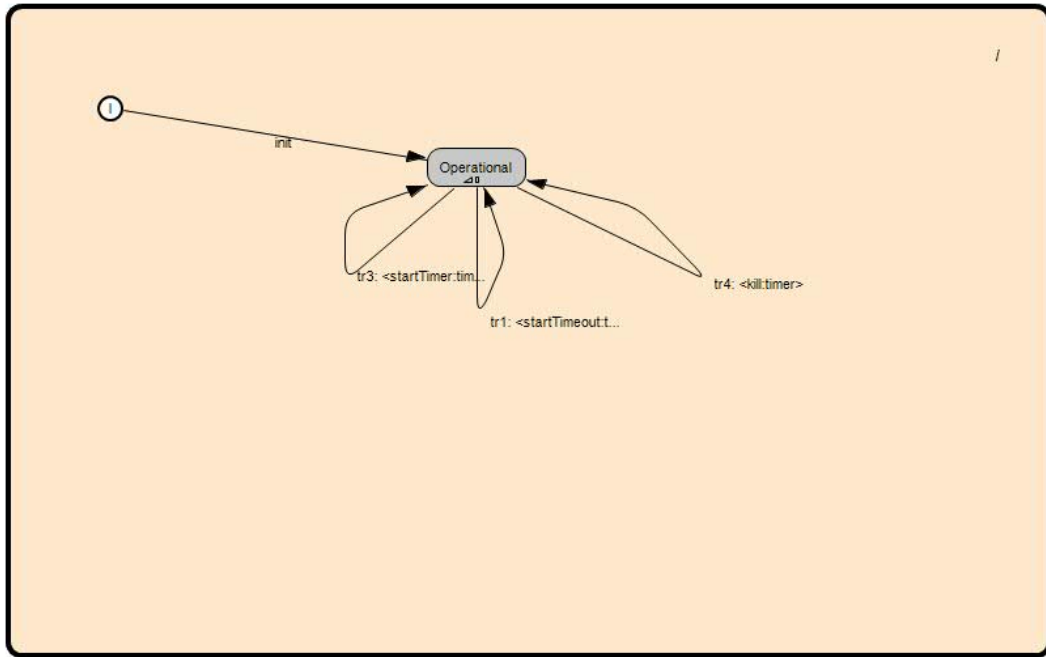


Figure 2: ATimingService Top State

3.1.3 Attributes

Name	Type	Description
tcbs	tcb	
usedTcbsRoot	tcb	
freeTcbsRoot	tcb	

3.1.4 Operations

Name:	getTcb
ReturnType:	tcb
Arguments:	

Name:	returnTcb
ReturnType:	void
Arguments:	block:tcb

Name:	removeTcbFromUsedList
ReturnType:	void
Arguments:	idx:int32

Name:	putTcbToUsedList
ReturnType:	void
Arguments:	block:tcb

Name:	isTimeGreater
ReturnType:	boolean
Arguments:	t1:targetTime, t2:targetTime

Name:	addTime
ReturnType:	void
Arguments:	t1:targetTime, t2:targetTime