

## OpenRTM-aist (Java) - #3704

EC RTC ACTIVATE

11/07/2016 04:25 PM - n-miyamoto

<b>Status:</b>		<b>Start date:</b>	11/07/2016
<b>Priority:</b>		<b>Due date:</b>	
<b>Assignee:</b>	katami	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	RELEASE_1_2_0		
<b>Description</b>			
<a href="#">#3697</a>			

### Associated revisions

**Revision 1038 - 09/07/2017 04:29 PM - t-katami**

[compat,bugfix,->releng\_1\_2] EC activation bug for multiple RTCs when they activated from participants RTCs. refs #3704

### History

**#1 - 09/07/2017 04:05 PM - katami**

- Status changed from to

examples/Composite SensorComp

- ControllerMotorrtc.conf.so
- SensorECController, Motor
- Motor, Controller, Sensor activate

```
public void myModuleInit(Manager mgr) {
    Properties prop = new Properties(Sensor.component_conf);
    mgr.registerFactory(prop, new Sensor(), new Sensor());
```

```
System.out.println("1");
// Create a component
RTObject_impl scomp = mgr.createComponent("Sensor");
if( scomp==null ) {
    System.err.println("Component create failed.");
    System.exit(0);
}
System.out.println("2");
RTC.RTObject srtc = scomp.getObjRef();
```

```
System.out.println("3");
// Create a component
RTObject_impl ccomp = mgr.createComponent("Controller");
if( ccomp==null ) {
    System.err.println("Component create failed.");
    System.exit(0);
}
System.out.println("4");
RTC.RTObject crtc = ccomp.getObjRef();
```

```
System.out.println("5");
// Create a component
RTObject_impl mcomp = mgr.createComponent("Motor");
if( mcomp==null ) {
    System.err.println("Component create failed.");
    System.exit(0);
}
System.out.println("6");
RTC.RTObject mrtc = mcomp.getObjRef();
```

```
System.out.println("7");
ExecutionContextListHolder eclist = new ExecutionContextListHolder();
eclist.value = srtc.get_owned_contexts();
```

```
System.out.println("8");
eclist.value[0].add_component(crtc);
System.out.println("9");
eclist.value[0].add_component(mrtc);
System.out.println("10");
```

```
eclist.value[0].activate_component(mrtc);
System.out.println("11");
eclist.value[0].activate_component(crtc);
System.out.println("12");
eclist.value[0].activate_component(srtc);
System.out.println("13");
}
```

```
./Sensor.sh -o exec_cxt.periodic.rate:1
```

```
1
2
3
4
5
6
7
8
9
10
11
12
13
```

```
Sensor Activated
Controller Activated
Motor Activated
```

```
$ rtls localhost/ -l
```

```
Active 2/0 1/0 1/0 0/0 Motor0.rtc
Active 2/0 1/0 1/0 0/0 Sensor0.rtc
Active 2/0 1/0 1/0 0/0 Controller0.rtc
- - - - - ubuntu.host_cxt
```

## #2 - 09/08/2017 02:20 PM - katami

- Assignee set to katami
- Target version set to RELEASE\_1\_2\_0
- % Done changed from 0 to 100

## #3 - 09/13/2017 11:22 AM - katami

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```
public void myModuleInit(Manager mgr) {
    Properties prop = new Properties(Sensor.component_conf);
    mgr.registerFactory(prop, new Sensor(), new Sensor());

    System.out.println("1");
    // Create a component
    RTOBJECT_impl scomp = mgr.createComponent("Sensor");
    if( scomp==null ) {
        System.err.println("Component create failed.");
        System.exit(0);
    }
    System.out.println("2");
    RTC.RTOBJECT srtc = scomp.getObjRef();

    System.out.println("3");
    // Create a component
    RTOBJECT_impl ccomp = mgr.createComponent("Controller");
    if( ccomp==null ) {
        System.err.println("Component create failed.");
        System.exit(0);
    }
    System.out.println("4");
    RTC.RTOBJECT crtc = ccomp.getObjRef();

    System.out.println("5");
    // Create a component
    RTOBJECT_impl mcomp = mgr.createComponent("Motor");
    if( mcomp==null ) {
        System.err.println("Component create failed.");
        System.exit(0);
    }
    System.out.println("6");
    RTC.RTOBJECT mrtc = mcomp.getObjRef();

    System.out.println("7");
    ExecutionContextListHolder eclist = new ExecutionContextListHolder();
    eclist.value = srtc.get_owned_contexts();

    System.out.println("8");
    eclist.value[0].add_component(crtc);
    System.out.println("9");
    eclist.value[0].add_component(mrtc);
    System.out.println("10");

    eclist.value[0].activate_component(mrtc);
    System.out.println("11");
    eclist.value[0].activate_component(crtc);
    System.out.println("12");
    eclist.value[0].activate_component(srtc);
    System.out.println("13");

    try{
        Thread.sleep(3000);
    }catch(InterruptedExcePtion e){}

    System.out.println("14");
    LifecycleState state;
    state = eclist.value[0].get_component_state(crtc);
    if (state == LifecycleState.ACTIVE_STATE) {
        System.out.println("Controller is ACTIVE_STATE");
    }
    System.out.println("15");
    state = eclist.value[0].get_component_state(mrtc);
    if (state == LifecycleState.ACTIVE_STATE) {
```

```
        System.out.println("Motor is ACTIVE_STATE");
    }
    System.out.println("16");
}
```

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
Sensor Activated ec\_id=0  
Controller Activated ec\_id=1000  
Motor Activated ec\_id=1000  
14  
Controller is ACTIVE\_STATE  
15  
Motor is ACTIVE\_STATE  
16

openrtsp(RTSE)participatingACTIVE