

## 1-2) Data types, events and interfaces

### **AOCS\_MODE: *Enumeration***

NOMINAL\_MODE  
SAFE\_MODE  
SCIENCE\_MODE

### **Angular\_Velocity: *Struct***

Rate\_X: *Integer* [-30, +30]  
Rate\_Y: *Integer* [-30, +30]  
Rate\_Z: *Integer* [-30, +30]

### **Duration: *Primitive***

*Integer* [0, 2<sup>32</sup>-1]

### **GYR\_FAILURE: *Event***

Last\_Acq\_AV: Angular\_Velocity

### **<<Interface>> AOCS\_IF**

Set\_Mode (*in* AOCS\_mode mode)  
Step()

### **<<Interface>> GYR\_IF**

GYR\_AV: ro Angular\_Velocity

### **<<Interface>> THR\_IF**

Exec\_THR\_Cmd (*in* Duration dr)