## **Smart Bridge Smart Lighting Subsystem Blink Red Led** Period: 2000ms Period: 200ms [SmartLightActive] after 2s / led.switchOff() ON SYS ON **SYS OFF** entry/ [!BlinkActive] Composite State after 2s / led.switchOn()\_ OFF led.switchOff() [!BlinkActive] **BLINK OFF** entry / -[!SmartLightActive]-[BlinkActive] led.switchOff() Output: led **Input:** Motion Sensor (ms), Light Sensor (ls) Variable: Timer t Output: led boolean SmartLightActive boolean BlinkActive **Water Level Subsystem** Period: 200ms [wl <= WL1 AND WL > WL2 NORMAL PRE ALARM entry / greenLed.switchOn() entry / IBlinkActive = true do / wl = wls.getDistance() do / wl = wls.getDistance() exit / greenLed.switchOff() [wl > WL1]exit / redLed.switchOff(), BlinkActive = false $[wl \le WL2 AND wl \ge WL_MAX]$ [wl <= WL2 AND wl >= WL\_MAX [wl <= WL1 AND wl > WL2 MANUAL **ALARM** [wl > WL1] entry / redLed.switchOn(), entry / redLed.switchOn(), SmartLightActive = false SmartLightActive = false do / wl = wls.getDistance(), do / wl = wls.getDistance(), –[remoteControl]valve.update() valve.update() exit / valve.close(), redLed.switchOff(), SmartLightActive = true \_[!remoteControl]-Output: redLed, greenLed, Variables: boolean remoteControl (from DT), wl, WL1, WL2, WL MAX **Input:** Water Level Sensor (wls) valve Variables: boolean SmartLightActive (from DT), boolean BlinkActive