

## SYSTEM LEVEL

## Battery group

voltage &gt; threshold

**Normal***on enter:*  
enable GPS**Low***on enter:*  
disable GPS

voltage &lt; threshold

## Base-station group

BS beacon received

**Reachable***on enter:*  
activate NotMoving  
dump log  
*on active:*  
send readings to the BS**Unreachable***on active:*  
log locally

timeout

## APPLICATION LEVEL

## Health conditions group

normal temperature

**Healthy***on active:*  
create normal beacon**Diseased***on active:*  
create alert beacon

abnormal temperature

## Activity group

large GPS difference negligible GPS difference

**Running***on active:*  
track often**Resting***on active:*  
track rarely**NotMoving***on active:*  
no tracking

small GPS difference acceleration detected