

SYSTEM LEVEL

Battery group

voltage > threshold

Normal

on enter:
GPS
GPRS

Low

on enter:
no GPS
no GPRS

voltage < threshold

Base Station group

beacon received

Base Station

on enter:
no GPS
dump log
on active:
send readings to the BS

No Base Station

on enter:
GPS
on active:
log locally

timeout

APPLICATION LEVEL

Communication group

N beacons received

Leader

on active:
do not send beacon

Not Leader

on active:
send beacon

timeout

Activity group

big GPS difference

negligible GPS difference

Running

on active:
track often

Resting

on active:
track rarely

Not Moving

on active:
track once

small GPS difference

acceleration detected