

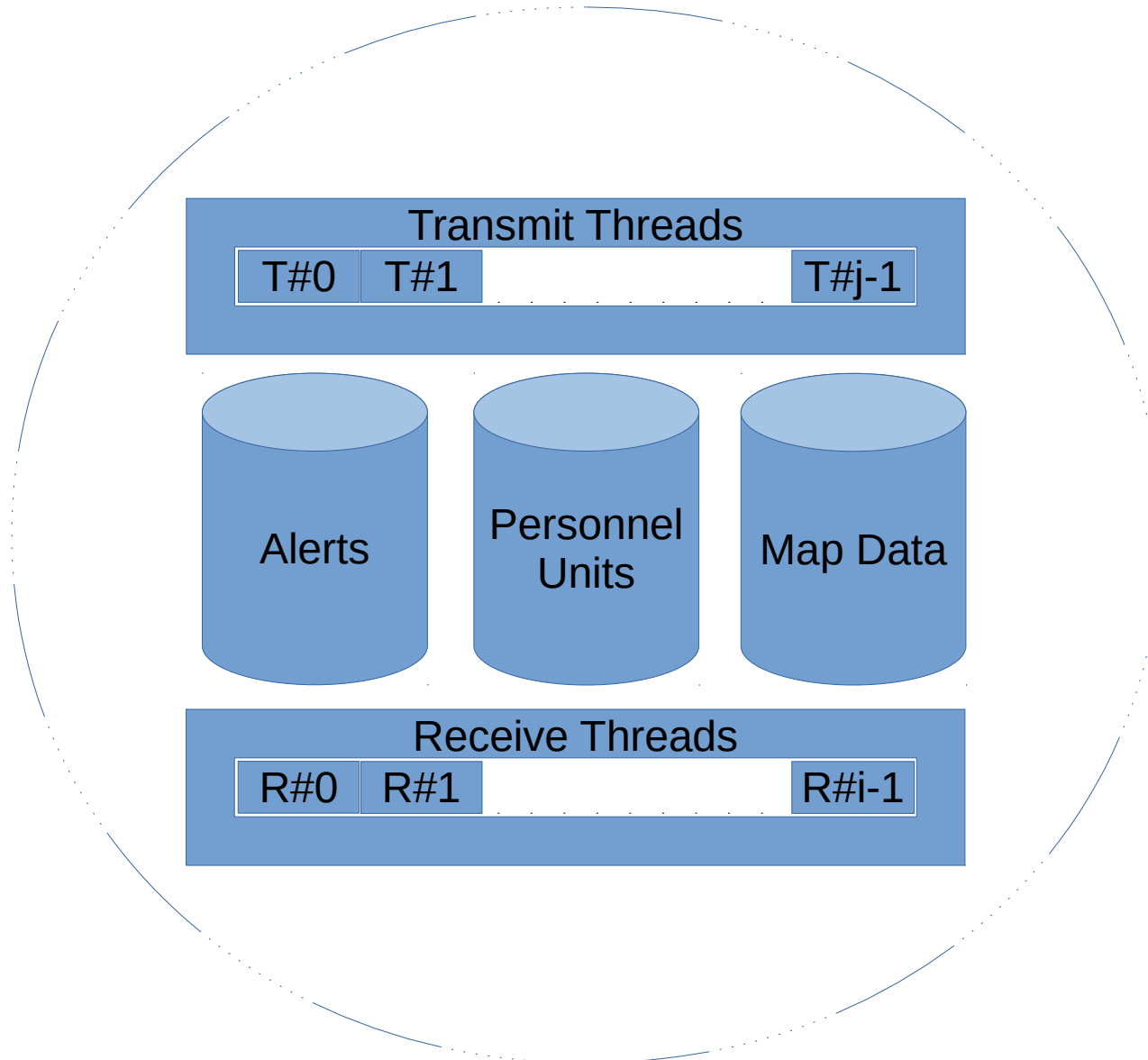
Design Overview

- Hardware Physical Layout
- Back-End Storage
- Front-End Display Interface
- Sensor Data Processing / Update
- External Network Data Interface

Hardware Physical Layout

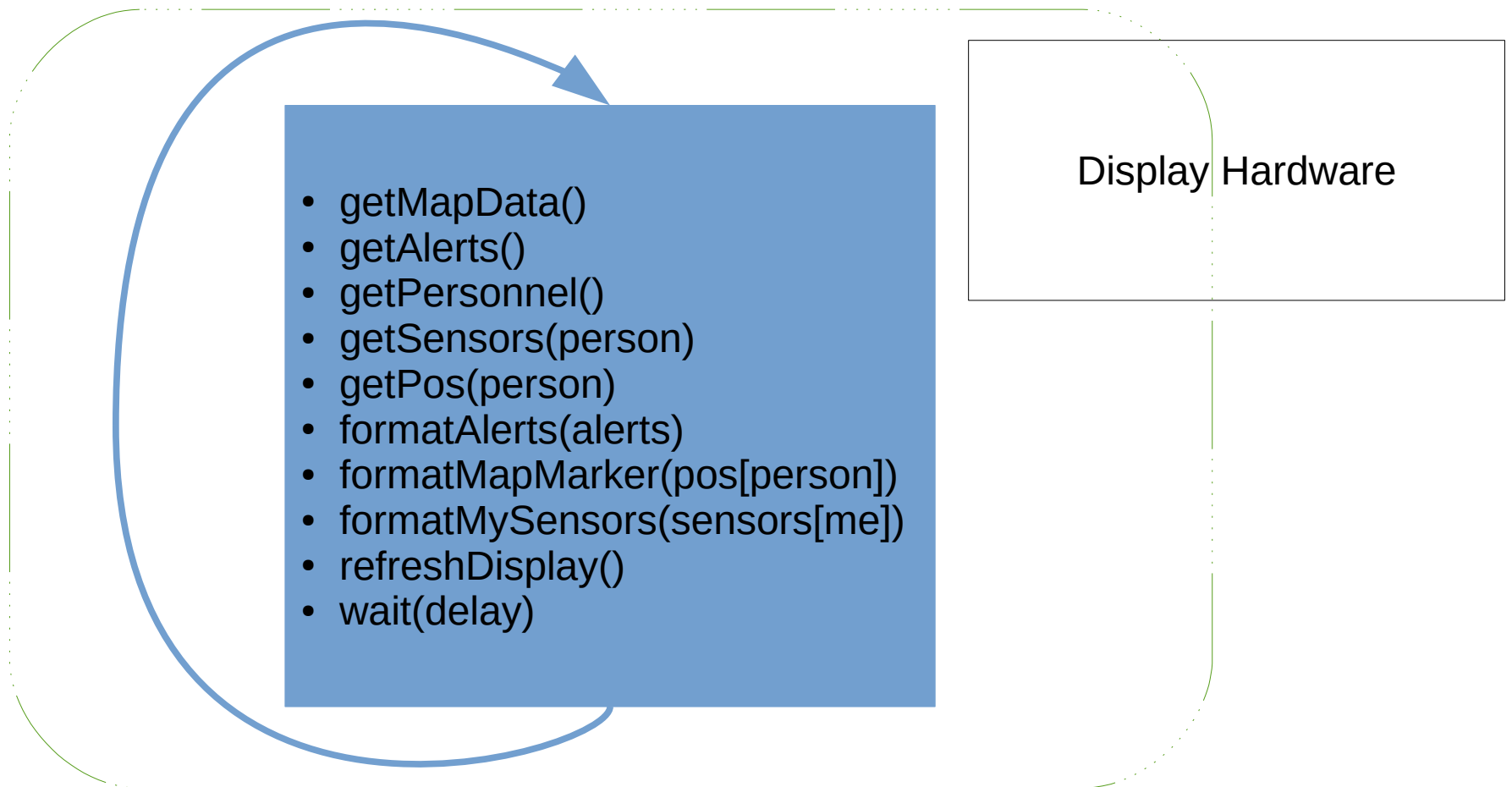
- Headset Mounted Display
- Back-End Server Unit (Pi-2)
- Marker Mounted Sensors
- Mobile Power Pack(s)
 - Possibly Shared By Sensors, Display and Back-End

Back-End Storage

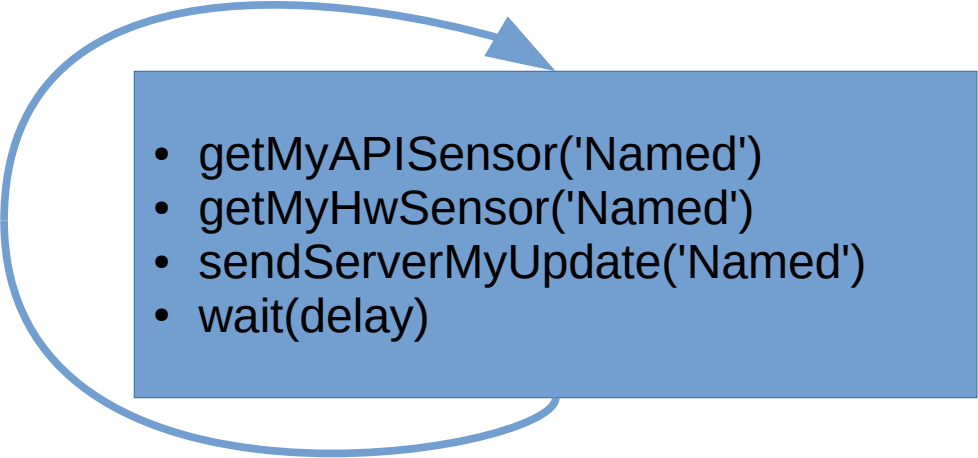


Note: If connection is from outside, use the 'External Network Data Interface' methods

Front-End Display Interface



Sensor Data Processing / Update

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- `getMyAPISensor('Named')`
 - `getMyHwSensor('Named')`
 - `sendServerMyUpdate('Named')`
 - `wait(delay)`

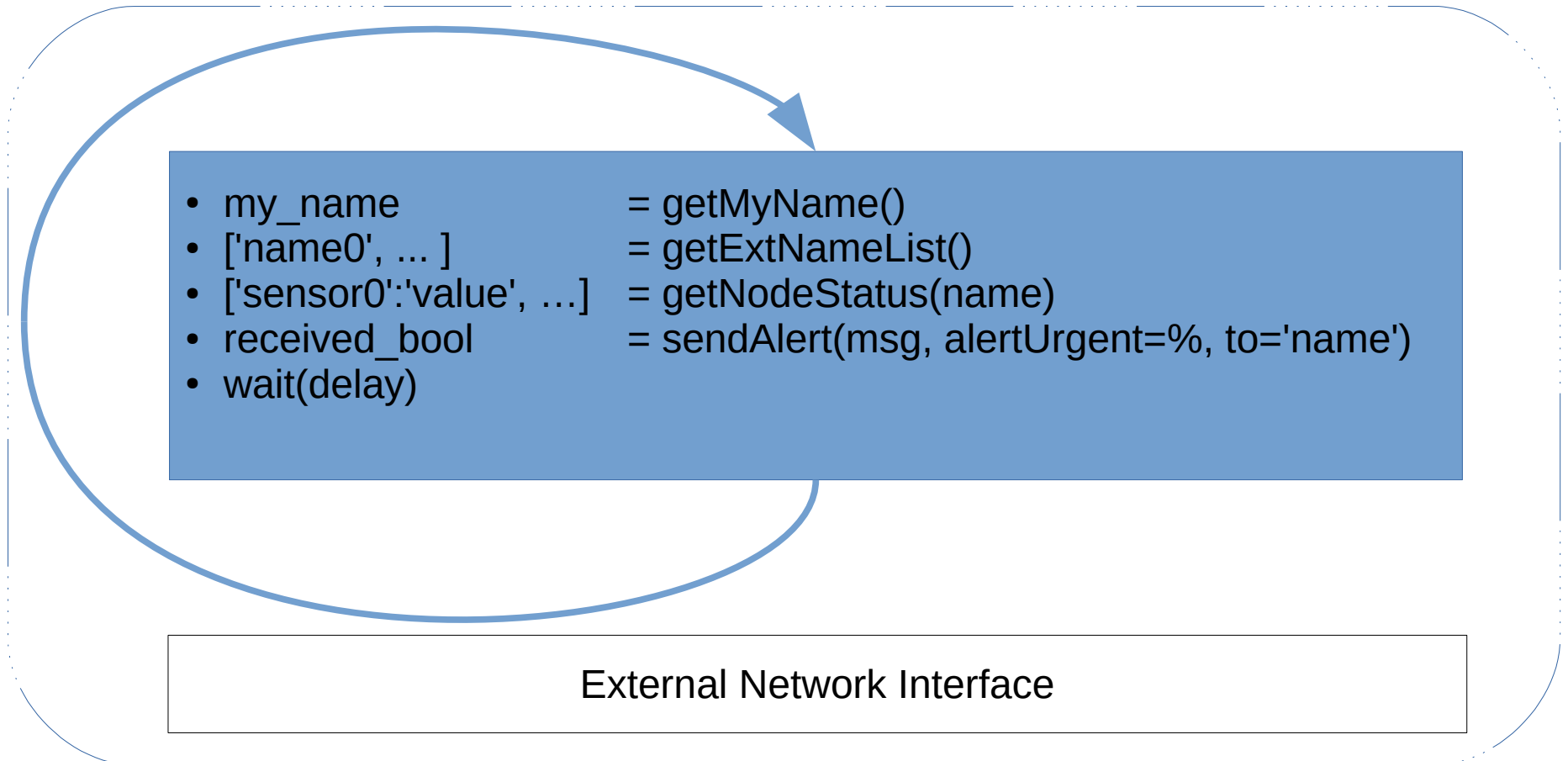
API / Network Connected Probes

P0	P#1	P#2		P#k-1
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Marker / Other Mounted Sensors

S0	S#1	S#2		S#h-1
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External Network Data Interface

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- The diagram illustrates the External Network Data Interface. It features a large, light-blue rounded rectangle containing a list of methods and their corresponding functions. A curved blue arrow points from the top of this rectangle to the 'External Network Interface' box below. The 'External Network Interface' is represented by a white rectangle with a thin black border at the bottom of the diagram.
- my_name = getName()
 - ['name0', ...] = getExtNameList()
 - ['sensor0':'value', ...] = getNodeStatus(name)
 - received_bool = sendAlert(msg, alertUrgent=%, to='name')
 - wait(delay)

External Network Interface

Collective Data Flow

