

Inventory Data Structures

Mazen Elbawab

INVENTORY DATA

# Inventory General data

## Kit Compositions

* Garments Only
* Sensor Kit Only
* Brainpack Only
* Full Kit

## Equipment Statuses

* ready
* in use
* defective
* In production
* Testing

## Sensor Types

* Nod IMU
* EM IMU
* StretchSense

## Brainpacks QA Statuses

* Charging Cycle Tested/Failed
* Buttons Tested/Failed
* LED Tested/Failed
* Sensors Connection Tested/Failed
* Software Connection Tested/Failed
* Command Tested/Failed
* Streaming Tested/Failed
* Tested and Ready

## Sensors QA Statuses

* Firmware Tested/Failed
* Power Tested/Failed
* Orientation Tested/Failed
* Tested and Ready

## Suits/Octopi QA Statuses possible

* Baseplate Tested/Failed
* Wiring Tested/Failed
* Connector Tested/Failed
* Power Tested/Failed
* Tested and Ready

## Anatomical locations

* Torso
* Left Upper arm
* Left Fore arm
* Left Thigh
* Left Tibia
* Right Upper arm
* Right Fore arm
* Right Thigh
* Right Tibia

## Inventory data extraction

* Kits ready to use
* Kits producible
* Brainpacks ready to use
* Brainpacks producible
* Sensor sets ready to use
* Sensor sets producible
* Shirts ready to use
* Shirts producible
* Pants ready to use
* Pants producible
* Sensors ready to use
* Sensors defective

## Components types

* Batteries
* BP Screws
* Capsule Screws
* USB Cables
* USB Chargers
* Narrows (m)
* Over-mold Bases
* Light Pipes
* BP top
* BP bottom
* Old BP top
* Old BP bottom
* Micro SD
* SD Cover
* Capsule top
* Capsule Bottom
* Sensor PCB
* Ribbon Cable (m)
* BP Buttons
* Capsule Washers
* Aux Cables
* Capsule Buttons

# inventory data structures

## Company (Continued)

* Company ID
* List of Related Kits

## Kits

* Kit ID (=serial number)
* Kit location
* Kit status
* Related Brainpack ID
* Related Sensors Set ID
* Related Shirt ID
* Related Pants ID
* Related Company ID

## Components

* Component type ID
* Component Status
* Quantity

## Brainpacks (CONTINUED)

* Brainpack ID (=serial number)
* Brainpack Location
* Brainpack Version
* Brainpack Status
* Brainpack QA status
* Related Power Board ID
* Related Data Board ID
* Related Kit ID

## Power boards

* Power board ID (=Serial Number)
* Power board Version
* Power board Firmware version
* Power board Status
* Related Brainpack ID

## Data boards

* Data board ID (=Serial Number)
* Data board Version
* Data board Firmware version
* Data board Status
* Related Brainpack ID

## Sensor Sets

* Sensor Set ID
* List of related sensors
* Sensor set QA status
* Related Kit ID

## Sensors

* Sensor ID (=Serial Number)
* Sensor Type
* Sensor Version
* Sensor Location
* Sensor Firmware
* Sensor Status
* Sensor QA Status
* Related Sensor Set ID
* Sensor Anatomical location ID

## Top garments

* Shirt ID (=Serial Number)
* Related Octopus ID
* Related Kit ID
* Shirt Size
* Shirt Location
* Shirt Status
* Shirt QA Status

## Bottom garments

* Pants ID (=Serial Number)
* Related Octopus ID
* Related Kit ID
* Pants Size
* Pants Location
* Pants Status
* Pants QA Status

## Shirts Octopi

* Shirt Octopus ID (=Serial Number)
* Related top garment ID
* Shirt Octopus Size
* Shirt Octopus Location
* Shirt Octopus Status
* Shirt Octopus QA Status

## Pants Octopi

* Pants Octopus ID (=Serial Number)
* Related bottom garment ID
* Pants Octopus Size
* Pants Octopus Location
* Pants Octopus Status
* Pants Octopus QA Status