The ATUAV Eye Tracker Service

Starting the Service

1. define processors in a text file in the following format:
    each line begins with a unique Tobii eye tracker product ID
    separated by a tab comes a comma separated list of IDs to name each EmdatProcessor listening to that eye tracker.
    if “-c” follows a processor ID, that processor will collect data cumulatively
    e.g. the below will create 2 EmdatProcessors for TT120-204080900268. “observer” will be interval based and “experiment-c” will be cumulative

    TT120-204-80900268 observer,experiment-c

2. run with arguments:
    -b = base address for the service (e.g. localhost:8080)
    -p = filepath/to/processors.txt

Calling the Service

1. start data collection by calling start with a runID and AOI definitions
localhost:8080/start?runId={runId}&aois={aois}
    - sets AOIs
    - starts data collection

2a. periodically poll for whether a condition has been met by the data collected by a processor
localhost:8080/condition?processorId={processorId}&condition={condition}&callback={callback}
    - returns true if condition was met, false otherwise

2b. alternatively poll for all features and do the analysis client side
localhost:8080/features?processorId={processorId}&callback={callback}
    - returns a JSON representation of features and values

3. stop data collection
localhost:8080/stop
    - stops data collection
    - clears data

Defining Conditions

Conditions are hardcoded in the ATUAV_RT project. To create a new condition just create a new class that implements the **Condition** interface. That's it, no further configuration is needed since Conditions are loaded by reflection and automatically attached to every EmdatProcessor.

Tobii Documentation

- Tobii Studio
- Tobii SDK 3.0