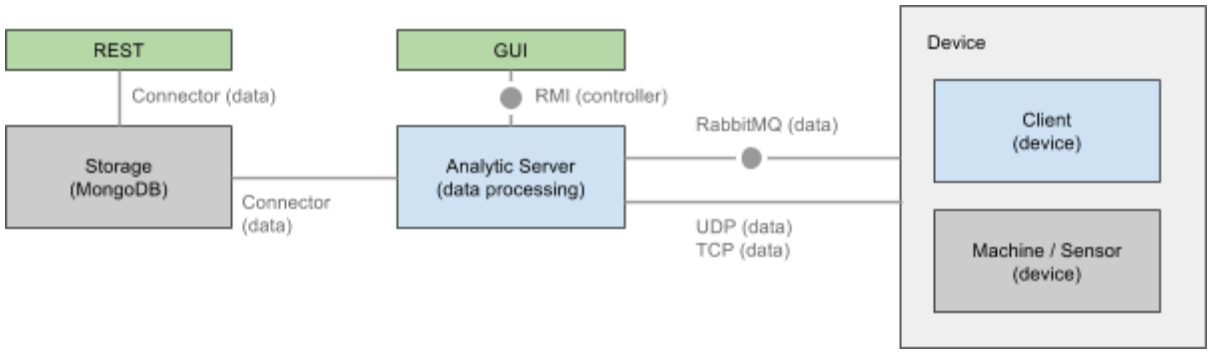
Randy Wind (s1791540)
Andrew Peter Prifer (s2535009)

Smart Service Center

Project Proposal (v2)



To ensure the live time and functioning of the servers/sensors we need to set up a communication pathway that regularly sends heartbeats to the analytic server and dashboard. Because not all servers and sensors are directly approachable over the ned we need an operator daemon wrapping the functionality to be exposed to the web (our communication interface)

The data pathway starts with the devices sending information like Energy consumption/generation, up/down/idle time and so on. The data is collected by the analytic server and returns commands for the devices their behaviour.

The analytical server stores data and results for later analytics and training/optimization purposes, these are the data and result pathways.

REST api is used to access data from the web stored in the storage node. The analytic server implements a controller and is accessible through RMI by GUI (command line or visual or connector) separated from the system itself.

Technologies

RMI - control the analytic server.
RabbitMQ/UDP/TCP - send data queue, control devices queue.
MongoDB - In this case we use MongoDB connector for storage and retrieve information.
NodeJS - Used to setup the REST interface to access data.

Questions.;

None Yet