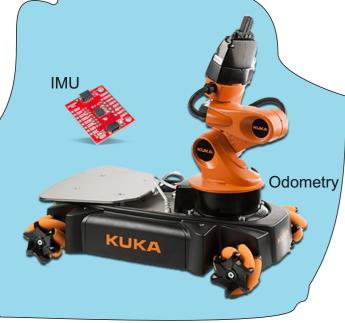
network_config_file.json

```
"Remote": {
        PC on the local network
        with IP 192.168.0.5
                                                            "optical_flow_PC" : {
                                                                 "IP": "192.168.0.5",
          Optical flow
                                                                 "ClockServerPort": "1234",
                                                                  "Peripheries" : {
                                                                        "optical flow": {
                                                                              "Port": "5555"
     Rapberry PI on the local network
                                                            "GPS RP":{
     with IP 192.168.0.15
                                                                  "IP": "192.168.0.15",
                                                                 "ClockServerPort": "1234",
            Indoor GPS
                                                                  "Peripheries": {
                                                                        "GPS": {
                                                                              "Port": "5555",
                                                                              "hwm": 10
Onboard PC: (running the sensor fusion)
                                                     },
                                                     "LocalPeripheries": {
```



"IMU" : {

"odometry": {

"type": "tcp",

"hwm" : 15

"type" : "tcp",

"address": "5560"

"address": "5556"

```
(similarly)
```

#include "Periphery.h"

using namespace SF;

return 0;

int main() { try {

#include "ClockSynchronizer.h"

while (true) {

catch (std::exception e) {

main.cpp - a local periphery

exit(EXIT FAILURE);

std::cout << e.what() << std::endl;

main.cpp - a periphery

NetworkConfig n("network_config_file.json");

Periphery p1(n.GetPeripheryData("optical_flow"));

auto v = Eigen::VectorXd::Ones(4) * 5;

auto S = Eigen::MatrixXd::Identity(4, 4) * 7;

p1.SendValueAndVariance(8, v, S, OUTPUT);

// Get values (covariance matrix) from the sensor

```
#include "Periphery.h"
using namespace SF;
int main() {
     try {
            Periphery p1(n.GetPeripheryData("IMU"));
            while (true) {
                   // Get values (covariance matrix) from the sensor
                   auto v = Eigen::VectorXd::Ones(4) * 5;
                  auto S = Eigen::MatrixXd::Identity(4, 4) * 7;
                  p1.SendValueAndVariance(8, v, S, OUTPUT);
     return 0;
     catch (std::exception e) {
            std::cout << e.what() << std::endl;
            exit(EXIT_FAILURE);
```

auto clockServer = InitClockSynchronizerServer(n.GetClockSyncData("optical_flow_PC"));

(similarly)

main.cpp - the logger

```
#include "Logger.h"
using namespace SF;
int main() {
      try {
            std::string filename = "log_output.log";
            Logger I(filename);
            I.AddPeripheries(NetworkConfig("networkconfig 1.json"));
            I.Start(DTime(2000));
            //Until your job is done...
            std::this_thread::sleep_for(std::chrono::milliseconds(3000));
            return 0;
     catch (std::exception e) {
            std::cout << e.what() << std::endl;
            exit(EXIT FAILURE);
```