

Surface (SFC)
(TCP Socket Client)

Asynchronous : surface
can send a command at
any time in any time
interval.

Timed: heartbeat
transaction occurs
regularly. Possibly every
quarter, half, or full
second, or user defined.

SFC -> ROV Command
{
 "cmd": command,
 "param": {
 "a": 1,
 "b": 2,
 "c": 3,
 etc...
 }
}

SFC -> ROV Heartbeat
{
 "cmd": "heartbeat",
 "param": {
 "id": rand #
 }
}

ROV -> SFC Heartbeat
{
 "id": sfc heartbeat id,
 "sensors": {
 "depth": value0,
 "temp": value1,
 "head": value2,
 etc...
 }
}

ROV
(TCP Socket Server)

