

Key:

Rate Units:

[Up/Down] (Bytes/Sec) * (Refresh Rate)

Expansion Scaling:

s → Number of Serial Sensor MCU Node Per Node

n → Number of Nodes Total

Example Strings:

```
MCU->Sensor:
{"all data":1}
{"sonic us":[0],"pressure bits":[617],"battery bits":[671],"acc q":[1.00,0.08,0.02],"velocity ms":[0.02],"dist mm":[0.00],"compass degN":[110.30]}
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Sensor->Server
{"update user": {"name": "Dummy",
                 "markerStruct": {"paint_level_full": 100, "tank_pressure": 0, "last_modify": "eus 2016-03-01 14:03:30.339000", "paint_level": 0,
                                 "batteries": [0], "first modify": "eus 2016-03-01 14:03:30.339000"}, "last modify": "eus 2016-03-01 14:03:36.950000", "uid": 0,
                 "posStruct": {"altitude": 0, "long": "", "planet": "earth", "last modify": "eus 2016-03-01 14:03:30.339000",
                              "lat": "", "heading": 0. "first modify": "eus 2016-03-01 14:03:30.339000"}.
                 "scanStruct": {"last_modify": "eus 2016-03-01 14:03:30.339000",
                               "pointStruct": {"0": {"y": 0.0, "x": 0.0, "deg N": 0.0, "dist m": 0.0}},
                               "first modify": "eus 2016-03-01 14:03:30.339000"}, "first modify": "eus 2016-03-01 14:03:30.359000"}
{"ME": 118}
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HUD->Server
Pos (HUD)->Server
Extern Server->Server
{"aet user": 312}
{"update user": {"name": "Dummy",
                 "markerStruct": {"paint_level_full": 100, "tank_pressure": 0, "last_modify": "eus 2016-03-01 14:03:30.339000", "paint_level": 0,
                                 "batteries": [0], "first_modify": "eus 2016-03-01 14:03:30.339000"}, "last_modify": "eus 2016-03-01 14:03:36.950000", "uid": 0,
                 "posStruct": {"altitude": 0, "long": "", "planet": "earth", "last_modify": "eus 2016-03-01 14:03:30.339000",
                              "lat": "", "heading": 0, "first_modify": "eus 2016-03-01 14:03:30.339000"}.
                 "scanStruct": {"last modify": "eus 2016-03-01 14:03:30.339000",
                               "pointStruct": {"0": {"y": 0.0, "x": 0.0, "deg N": 0.0, "dist m": 0.0}},
                               "first modify": "eus 2016-03-01 14:03:30.339000"}, "first modify": "eus 2016-03-01 14:03:30.359000"}
(Up/Down) Bytes/Sec * (Refresh Rate)
```