

```
[
  {
    "id": "672c2e02.e187f",
    "type": "function",
    "z": "c030ea18.227328",
    "name": "Convert to TrackLine",
    "func": "var msg1 = {};\nif (msg.payload) {\n  msg1.payload = msg.payload;\n\n  msg1.payload.layer = \"Track\";\n  msg1.payload.name = \"Track line\";\n  \n  delete msg1.payload.radius;\n}\nreturn msg1;",
    "outputs": 1,
    "noerr": 0,
    "x": 582,
    "y": 209,
    "wires": [
      [
        "163c9ecb.cd0731"
      ]
    ]
  },
  {
    "id": "eeca7a33.81c228",
    "type": "function",
    "z": "c030ea18.227328",
    "name": "Convert to TrackPins",
    "func": "var msg1 = {};\nif (msg.payload) {\n  msg1.payload=msg.payload;\n\n  msg1.payload.layer = \"Pins\";\n  msg1.payload.iconColor = \"blue\";\n  msg1.payload.name=Date().toString();\n  msg1.payload.icon = \"fa-wifi\";\n  \n  delete msg1.payload.radius;\n}\nreturn msg1;",
    "outputs": 1,
    "noerr": 0,
    "x": 583,
    "y": 169,
    "wires": [
      [
        "70de8592.565134"
      ]
    ]
  },
  {
    "id": "960ba7c5.2d19f8",
    "type": "function",
    "z": "c030ea18.227328",
    "name": "Convert to Worldmap",
    "func": "var msg1 = {};\nif (msg.payload) {\n  msg1.payload=msg.payload;\n\n  msg1.payload.layer = \"Current Location\";\n  msg1.payload.name = \"Current Location\";\n  msg1.payload.iconColor = \"orange\";\n  msg1.payload.icon = \"wifi\";\n}\nreturn msg1;",
    "outputs": 1,
    "noerr": 0,
    "x": 577,
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        "y": 128,
        "wires": [
            [
                "70de8592.565134"
            ]
        ]
    },
    {
        "id": "210849b.ada12b6",
        "type": "worldmap",
        "z": "c030ea18.227328",
        "name": "HERE geolocation",
        "lat": "51.839617",
        "lon": " 5.877225",
        "zoom": "",
        "layer": "OSM grey",
        "cluster": "",
        "maxage": "12000",
        "usermenu": "show",
        "layers": "show",
        "panit": "false",
        "hiderightclick": "false",
        "coords": "none",
        "path": "",
        "x": 957,
        "y": 181,
        "wires": []
    },
    {
        "id": "163c9ecb.cd0731",
        "type": "worldmap-tracks",
        "z": "c030ea18.227328",
        "name": "Map Track",
        "depth": "200",
        "x": 580.5,
        "y": 263,
        "wires": [
            [
                "70de8592.565134"
            ]
        ]
    },
    {
        "id": "a1ed1743.cfaee8",
        "type": "function",
        "z": "c030ea18.227328",
        "name": "LoRa Cloud geolocation",
        "func": "\nvar loracloud_token = \"AQEAHGAMit81n00TPjZtvdL/
Dktp9DbJJcEHw1pC3K/xVE6dpJNu\"\nvar dev_url = \"https://gls.loracloud.com/api/
v3/solve/singleframe\";\n\n\nvar data = {\n    \"gateways\": [],\n

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[illegible]

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},
{
  "id": "c87ad6e9.c88f8",
  "type": "http request",
  "z": "c030ea18.227328",
  "name": "",
  "method": "use",
  "ret": "txt",
  "url": "",
  "tls": "",
  "x": 565,
  "y": 416,
  "wires": [
    [
      "c141234b.2e4128"
    ]
  ]
},
{
  "id": "e9935a07.14b73",
  "type": "function",
  "z": "c030ea18.227328",
  "name": "Convert to GPS-json",
  "func": "var msg1 = {};\n\nif (msg.payload.result.locationEst) {\n\nmsg1.payload = msg.payload;\n  msg1.payload.date = Date().toString();\nmsg1.payload.lon = msg.payload.result.locationEst.longitude;\n  msg1.payload.lat = msg.payload.result.locationEst.latitude;\n\n  // processed with Google\n  if (msg.payload.result.locationEst) {\n    msg1.payload.radius = msg.payload.result.locationEst.toleranceHoriz;\n    delete msg1.payload.result.locationEst.toleranceHoriz;\n  }\n  \n  // processed with HERE\n  if (msg.payload.result.locationEst.toleranceHoriz) {\n    msg1.payload.radius = msg.payload.result.locationEst.toleranceHoriz;\n  }\n  delete msg1.payload.result.locationEst.toleranceHoriz;\n}\n\nreturn msg1;",
  "outputs": 1,
  "noerr": 0,
  "x": 566,
  "y": 450,
  "wires": [
    [
      "bab88ca4.94a518"
    ]
  ]
},
{
  "id": "fe0736dd.3e148",
  "type": "function",
  "z": "c030ea18.227328",
  "name": "Convert to TrackLine",
  "func": "var msg1 = {};\n\nif (msg.payload) {\n  msg1.payload = msg.payload;\n\nmsg1.payload.layer = \"Track\";\n  msg1.payload.name = \"Track line\";\n  \n}

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delete msg1.payload.radius;\n}\nreturn msg1;","
  "outputs": 1,
  "noerr": 0,
  "x": 574,
  "y": 575,
  "wires": [
    [
      "f2de102.4a3af7"
    ]
  ]
},
{
  "id": "179e9571.ca5b23",
  "type": "function",
  "z": "c030ea18.227328",
  "name": "Convert to TrackPins",
  "func": "var msg1 = {};\nif (msg.payload) {\n  msg1.payload=msg.payload;\n\nmsg1.payload.layer = \"Pins\";\n  msg1.payload.iconColor = \"red\";\nmsg1.payload.name=Date().toString();\n  msg1.payload.icon = \"signal-stream\";\n\n  delete msg1.payload.radius;\n}\nreturn msg1;","
  "outputs": 1,
  "noerr": 0,
  "x": 575,
  "y": 535,
  "wires": [
    [
      "70de8592.565134"
    ]
  ]
},
{
  "id": "8a25a860.fcb66",
  "type": "function",
  "z": "c030ea18.227328",
  "name": "Convert to Worldmap",
  "func": "var msg1 = {};\nif (msg.payload) {\n  msg1.payload=msg.payload;\n\nmsg1.payload.layer = \"Current Location\";\n  msg1.payload.name = \"Current Location\";\n  msg1.payload.iconColor = \"orange\";\n  msg1.payload.icon = \"wifi\";\n\n}\nreturn msg1;","
  "outputs": 1,
  "noerr": 0,
  "x": 569,
  "y": 494,
  "wires": [
    [
      "70de8592.565134"
    ]
  ]
},
{

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    "id": "bab88ca4.94a518",
    "type": "switch",
    "z": "c030ea18.227328",
    "name": "",
    "property": "payload",
    "propertyType": "msg",
    "rules": [
      {
        "t": "nnull"
      }
    ],
    "checkall": "true",
    "outputs": 1,
    "x": 335,
    "y": 481,
    "wires": [
      [
        "fe0736dd.3e148",
        "8a25a860.fcb66",
        "179e9571.ca5b23"
      ]
    ]
  },
  {
    "id": "f2de102.4a3af7",
    "type": "worldmap-tracks",
    "z": "c030ea18.227328",
    "name": "Map Track",
    "depth": "200",
    "x": 572.5,
    "y": 629,
    "wires": [
      [
        "70de8592.565134"
      ]
    ]
  },
  {
    "id": "c141234b.2e4128",
    "type": "json",
    "z": "c030ea18.227328",
    "name": "Convert to JSON",
    "pretty": false,
    "x": 350,
    "y": 425,
    "wires": [
      [
        "e9935a07.14b73"
      ]
    ]
  }
]

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```

    },
    {
      "id": "de666f76.1a99e8",
      "type": "worldmap",
      "z": "c030ea18.227328",
      "name": "LoRaWANgeolocation",
      "lat": "51.839617",
      "lon": " 5.877225",
      "zoom": "",
      "layer": "Esri Satellite",
      "cluster": "",
      "maxage": "12000",
      "usermenu": "show",
      "layers": "show",
      "panit": "false",
      "hiderightclick": "false",
      "coords": "none",
      "path": "",
      "x": 988,
      "y": 359,
      "wires": []
    },
    {
      "id": "70de8592.565134",
      "type": "worldmap",
      "z": "c030ea18.227328",
      "name": "LoRaWANgeolocation",
      "lat": "51.839617",
      "lon": " 5.877225",
      "zoom": "",
      "layer": "Esri Satellite",
      "cluster": "",
      "maxage": "12000",
      "usermenu": "show",
      "layers": "show",
      "panit": "false",
      "hiderightclick": "false",
      "coords": "none",
      "path": "",
      "x": 932,
      "y": 456,
      "wires": []
    },
    {
      "id": "33904170.e35066",
      "type": "function",
      "z": "c030ea18.227328",
      "name": "Convert to GPS-json",
      "func": "var msg1 = {};\n\nif (msg.payload.location) {\n\n  msg1.payload =\nmsg.payload;\n  msg1.payload.date = Date().toString();\n  msg1.payload.lon =

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msg.payload.location.lng;\n  msg1.payload.lat = msg.payload.location.lat;\n\n  //
processed with Google\n  if (msg.payload.accuracy) {\n    msg1.payload.radius =
msg.payload.accuracy;\n    delete msg1.payload.accuracy;\n  }\n  \n  //
processed with HERE\n  if (msg.payload.location.accuracy) {\n
msg1.payload.radius = msg.payload.location.accuracy;\n  }\n\n  delete
msg1.payload.location;\n}\n\nreturn msg1;";
  "outputs": 1,
  "noerr": 0,
  "x": 574,
  "y": 84,
  "wires": [
    [
      "3eebd796.68d308"
    ]
  ]
},
{
  "id": "3eebd796.68d308",
  "type": "switch",
  "z": "c030ea18.227328",
  "name": "",
  "property": "payload",
  "propertyType": "msg",
  "rules": [
    {
      "t": "nnull"
    }
  ],
  "checkall": "true",
  "outputs": 1,
  "x": 360,
  "y": 118,
  "wires": [
    [
      "672c2e02.e187f",
      "960ba7c5.2d19f8",
      "eeca7a33.81c228"
    ]
  ]
},
{
  "id": "938e13bc.bdea28",
  "type": "http request",
  "z": "c030ea18.227328",
  "name": "",
  "method": "use",
  "ret": "txt",
  "url": "",
  "tls": "",
  "x": 557,

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"y": 34,
"wires": [
  [
    "a8b35a7d.246ba",
    "5098a8ee.548358"
  ]
]
},
{
  "id": "a8b35a7d.246ba",
  "type": "json",
  "z": "c030ea18.227328",
  "name": "Convert to JSON",
  "pretty": false,
  "x": 349,
  "y": 84,
  "wires": [
    [
      "33904170.e35066"
    ]
  ]
},
{
  "id": "a756bd2e.bbbf08",
  "type": "mqtt in",
  "z": "c030ea18.227328",
  "name": "crazyturtletracker",
  "topic": "crazyturtletracker/devices/crazyturtle01/up",
  "qos": "2",
  "datatype": "json",
  "broker": "8303d8e5.1bf908",
  "x": 109,
  "y": 365,
  "wires": [
    [
      "a1ed1743.cfaee8",
      "a0e73d82.045898"
    ]
  ]
},
{
  "id": "d23afafd.7979c",
  "type": "mqtt in",
  "z": "c030ea18.227328",
  "name": "crazyturtletracker",
  "topic": "crazyturtletracker/devices/crazyturtle01/up",
  "qos": "2",
  "datatype": "json",
  "broker": "8303d8e5.1bf908",
  "x": 96,
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```

        "y": 70,
        "wires": [
            [
                "4ebf4c7.499df34"
            ]
        ]
    },
    {
        "id": "4ebf4c7.499df34",
        "type": "function",
        "z": "c030ea18.227328",
        "name": "Ask HERE Geolocation API",
        "func": "var here_appid = \"XOyGdOnvBrVKhZyfitdr\";\nvar here_appcode =\n\"RXSjLqX23VkvgojT0WB6g\";\nvar here_apikey =\n\"zJ_o4jdgoryZBFCWMQiwOp9nbTLFWKDIEkHSiomgvw\";\nvar dev_url = \"https://\npos.ls.hereapi.com/positioning/v1/locate?apiKey=\"+here_apikey;\n\nvar data = {\n  \"wlan\": []\n};\n\nif (msg.payload.payload_fields.macaddress.mac_1)\n{\n  data[\"wlan\"][0] = {\n    \"mac\":\nmsg.payload.payload_fields.macaddress.mac_1,\n  }\n}\n\nif\n(msg.payload.payload_fields.macaddress.mac_2) {\n  data[\"wlan\"][1] =\n{\n  \"mac\": msg.payload.payload_fields.macaddress.mac_2,\n}\n}\n\n\nvar msg = {\n  \"method\": \"POST\", \n  \"url\": dev_url,\n  \"headers\": {\n    \"Content-Type\": \"application/\njson\"\n  }, \n  \"payload\": JSON.stringify(data)\n};\n\nreturn msg;\n\n",
        "outputs": 1,
        "noerr": 0,
        "x": 344,
        "y": 34,
        "wires": [
            [
                "938e13bc.bdea28"
            ]
        ]
    }
  ],
  {
    "id": "a0e73d82.045898",
    "type": "debug",
    "z": "c030ea18.227328",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "x": 133,
    "y": 471,
    "wires": []
  }
]

```

```

    "id": "5098a8ee.548358",
    "type": "debug",
    "z": "c030ea18.227328",
    "name": "",
    "active": true,
    "tosidebar": true,
    "console": false,
    "tostatus": false,
    "complete": "false",
    "x": 828,
    "y": 124,
    "wires": []
  },
  {
    "id": "8303d8e5.1bf908",
    "type": "mqtt-broker",
    "z": "",
    "name": "",
    "broker": "mqtt://eu.thethings.network",
    "port": "1990",
    "clientid": "",
    "usetls": false,
    "compatmode": true,
    "keepalive": "60",
    "cleansession": true,
    "birthTopic": "",
    "birthQos": "0",
    "birthRetain": "false",
    "birthPayload": "",
    "closeTopic": "",
    "closeQos": "0",
    "closeRetain": "false",
    "closePayload": "",
    "willTopic": "",
    "willQos": "0",
    "willRetain": "false",
    "willPayload": ""
  }
]

```