

StatusDisplay; navigation.json format

Introduction

StatusDisplay can read previously created routes and points of interest, stored in the Navigation.json file which can reside either in the same directory as the journals and Status.json or in the same directory as the StatusDisplay executable.

Like the Journal, Navigation.json is comprised of line delimited JSON with at the very least “timestamp” and “event” values.

The file can be edited to add / remove POI and Route event json lines.

SD.00 Change log

Version 1: 22nd August 2018; first issued with StatusDisplay Beta 0.0.3.9

Version 2: 23rd May 2019; issued with StatusDisplay Beta 0.0.6.1; added “StarPos” to “Waypoint” definition; removed “BodyID” and “Radius” from Waypoint definition. Waypoint “Proximity” is now expressed in metres rather than degrees of arc. Waypoint “Altitude” now refers to the altitude of the Waypoint (i.e. they may be aloft).

SD.01 NavigationHeader

When written: must be the first line of Navigation.json

Parameters:

None.

Example:

```
{ "timestamp":"2018-08-17T06:30:00Z", "event":"NavigationHeader" }
```

SD.02 POI

When written: between header and footer.

Parameters:

- Title: string
- Creator: string
- Type: string
- Class: string
- Waypoint: array of waypoint type

Example:

```
{ "timestamp":"2018-08-17T06:35:00Z", "event":"POI", "Title":"Dav's Hope", "Creator":"Frontier",  
  "Type":"Material Source", "Class":"N/A", "Waypoint":[ { "Flags":1, "Name":"Dav's Hope",
```

```
"StarSystem":"Hyades Sector DR-V c2-23", "BodyName":"Hyades Sector DR-V c2-23 A 5",  
"Latitude":44.816612, "Longitude":-31.388916 } ] }
```

SD.03 Route

When written: between header and footer.

Parameters:

- Title: string
- Creator: string
- Type: string
- Class: string
- Laps: integer
- Waypoint: array of waypoint type

Example:

```
{ "timestamp":"2018-08-20T11:00:00Z", "event":"Route", "Title":"Dav's Hope Circuit",  
"Creator":"Robert Maynard", "Type":"Material / Data Gathering", "Class":"N/A", "Laps":0,  
"Waypoint":[ { "Flags":1, "Name":"Point-01", "StarSystem":"Hyades Sector DR-V c2-23",  
"BodyName":"Hyades Sector DR-V c2-23 A 5", "Latitude":44.831158, "Longitude":-31.392847,  
"Proximity":12.500, "Altitude":0, "TimeLimit":0 }, { "Flags":1, "Name":"Point-02",  
"Latitude":44.826267, "Longitude":-31.399798, "Proximity":12.500, "Altitude":0, "TimeLimit":0 }, {  
"Flags":1, "Name":"Point-03", "Latitude":44.820392, "Longitude":-31.397276, "Proximity":12.500,  
"Altitude":0, "TimeLimit":0 }, { "Flags":1, "Name":"Point-04", "Latitude":44.815231, "Longitude":-  
31.396002, "Proximity":12.500, "Altitude":0, "TimeLimit":0 }, { "Flags":1, "Name":"Point-05",  
"Latitude":44.811618, "Longitude":-31.393813, "Proximity":12.500, "Altitude":0, "TimeLimit":0 }, {  
"Flags":1, "Name":"Point-06", "Latitude":44.811051, "Longitude":-31.393378, "Proximity":12.500,  
"Altitude":0, "TimeLimit":0 }, { "Flags":1, "Name":"Point-07", "Latitude":44.807884, "Longitude":-  
31.385948, "Proximity":12.500, "Altitude":0, "TimeLimit":0 }, { "Flags":1, "Name":"Point-08",  
"Latitude":44.812345, "Longitude":-31.378436, "Proximity":12.500, "Altitude":0, "TimeLimit":0 }, {  
"Flags":1, "Name":"Point-09", "Latitude":44.813875, "Longitude":-31.377689, "Proximity":12.500,  
"Altitude":0, "TimeLimit":0 }, { "Flags":1, "Name":"Point-10", "Latitude":44.822932, "Longitude":-  
31.382326, "Proximity":12.500, "Altitude":0, "TimeLimit":0 }, { "Flags":1, "Name":"Point-11",  
"Latitude":44.828847, "Longitude":-31.382872, "Proximity":12.500, "Altitude":0, "TimeLimit":0 } ] }
```

SD.04 NavigationFooter

When written: must be the last line of Navigation.json

Parameters:

None.

Example:

```
{ "timestamp":"2018-08-17T06:30:00Z", "event":"NavigationFooter" }
```

SD.05 Waypoint

Format of Waypoint array entries in POI and Route. The POI event should not have proximity criteria set, i.e. Proximity and TimeLimit, which will be ignored if set. Only relevant entries require to be set.

Parameters:

- Flags: integer; yet to be developed, currently default of 1.
- Name: string; user defined name of waypoint.
- StarSystem: string; name of system which contains waypoint.
- StarPos: as Journal specification (array of three float values).
- BodyName: string; body within StarSystem to which waypoint refers, if applicable.
- DockName: string; name of station if waypoint requires docking.
- Latitude: double precision float; degrees, latitude of Waypoint, if applicable.
- Longitude: double precision float; degrees, longitude of Waypoint, if applicable.
- Altitude: integer; altitude of Waypoint; metres.
- Proximity: double precision float; maximum distance (metres) for proximity check.
- TimeLimit: signed integer; seconds, maximum permissible time since last waypoint for proximity check.