Telemetry Metadata File

The telemetry metadata file is a new convention that was conceived during the MOMA project. Its main purpose is to store metadata about a telemetry file. However, its purpose may be extended in the future to include post processed data and perhaps other information. The original goal was to provide the ability to distinguish between the various instrument models. In other missions the file extension was used to determine the model, but after the patch file mechanism was adopted we lost this capability.

All versions will have their GSE metadata stored in the **gse** key. This allows us to easily add/remove/modify top level keys without breaking backwards compatibility and to also differentiate between items that are not necessarily GSE metadata.

Versions

Version 2

Fields

All fields from version 1 are carried over.

New

- **default_mcal** - The default mass calibration file that should be used to calibrate the science data. The mcal file should exist in the TID. In the rare case that it does not exist, MOMA Data View will attempt to use a different mcal file in the TID. If none exists, then it will attempt to copy one from the default mcal location. All other applications should quit with a message indicating the mcal file was missing in order to avoid misleading the user.

Example


```
{
 "gse":{
   "default_mcal": "2015-01-01-00.00.00-identity.mcal",
   "mission":"moma",
   "model":"etu",
   "patch_files":[
     "m1",
     "m2",
     "m3"
   ],
   "tid":534,
```

```
    "tid_dir":"2015-09-29-13.46.05-00534-",
    "tmfile_name":"tm.mom.m1.m2.m3",
    "version":1
  }
}
```


Version 1

Fields

- **mission** - Defines the mission for this data
- **model** - Defines the model of the instrument that this telemetry data was generated with. The model key is used to differentiate between things that may differ between the various models, such as the default mcal location or the SEB DAC table. The model's corresponding entry in the 699config.ini file can be found by combining the mission and model like `<MISSION>_<MODEL>`. For example, for the MOMA mission and ETU model, its group in the 699config.ini file would be MOMA_ETU.
- **patch_files** - This list defines the patch files that should be applied after the default database is loaded. They should be applied in the same order they are listed. The current convention is the corresponding patch file for a patch can be found in the TMDef directory and is in all caps with the ".txt" suffix. For example, for the m1 patch file, the text file can be found at *momagse/TMDef/M1.txt*
- **tid** - The test ID for this data
- **tid_dir** - The original TID directory that was generated
- **tmfile_name** - The telemetry file's name. This key can be used to determine the name of the telemetry file. If the telemetry file's name changes, this key should be updated.
- **version** - The version of the format

Example


```
{
  "gse":{
    "mission":"moma",
    "model":"etu",
    "patch_files":[
      "m1",
      "m2",
      "m3"
    ],
    "tid":534,
    "tid_dir":"2015-09-29-13.46.05-00534-",
    "tmfile_name":"tm.mom.m1.m2.m3",
    "version":1
  }
}
```


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