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Open Mission Control Technologies

Open Mission Control Technologies (Open MCT) is NASA open source software, available on GitHub, with an Apache II license. It brings mission control data visualization capability to the desktop, tablet and phones, using web browsers. Open MCT is currently in use on at least three operational CubeSat missions, including the Mars Cube One (MarCO) missions and the Arcsecond Space Telescope Enabling Research in Astrophysics (ASTERIA).

The key features of the platform are data visualization, all of your data browseable and searchable in one integrated environment, user composition of displays, integration with multiple data sources, and modularity for customization to different mission requirements. The code is available on GitHub at <https://github.com/nasa/openmct>. An informational website with documentation, tutorials and an online demonstration is available at <https://nasa.github.io/openmct/>.

In this demo we will show the capabilities of Open MCT, using data from a simulated lunar rover mission to showcase the capability for missions. The displays will show data from multiple domains in one integrated environment, including telemetry, imagery, mission timelines, lunar traverse maps, science data, science notebooks with integrated data, and logic driven summary widgets. We will demonstrate the assembly of this data into displays by users, without programming.

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