

ing the results in a visual form that makes it easy to spot items of exception/deviation so that further analysis can be directed and corrective actions followed.

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*This software is available for commercial licensing. Please contact Daniel Broderick of the California Institute of Technology at [danielb@caltech.edu](mailto:danielb@caltech.edu). Refer to NPO-47532.*



### **Web-Based Customizable Viewer for Mars Network Overflight Opportunities**

This software displays a full summary of information regarding the overflight opportunities between any set of lander and orbiter pairs that the

user has access to view. The information display can be customized, allowing the user to choose which fields to view/hide and filter.

The software works from a Web browser on any modern operating system. A full summary of information pertaining to an overflight is available, including the proposed, tentative, requested, planned, and implemented. This gives the user a chance to quickly check for inconsistencies and fix any problems.

Overflights from multiple lander/orbiter pairs can be compared instantly, and information can be filtered through the query and shown/hidden, giving the user a customizable view of the data. The information can be exported to a CSV (comma separated value) or XML (extensible markup language) file. The software only grants access to users who are authorized to view the information.

This application is an addition to the MaROS Web suite. Prior to this addition, information pertaining to overflight opportunities would have a limited amount of data (displayed graphically) and could only be shown in strict temporal ordering. This new display shows more information, allows direct comparisons between overflights, and allows the data to be manipulated in ways that it was unable to be done in the past.

The current software solution is to use CSV files to view the overflight opportunities.

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