

# TIMELINE MANAGEMENT TOOL (TMT)



## Satellite/Payload activity and timeline management for real-time mission operations.



- Ingest Mission Events
- Ingest CMD PROCs
- Ingest/build CMD Activities
- Define Constraints
- Generate timelines
- Schedule activities
- Validate Timelines
- Submit Timelines for Approval
- Approve Timelines
- Submit Change Requests
- Implement changes
- Submit for Approval
- Approve Changes
- Generate CMD Page
- Track Execution
- Annotate Timeline As-Run

1) Primary Timeline Display

2) Link to activities

3) Change Request window

4) Graphical timeline display

5) Pass Plan

6) Activity Constraint definition

7) Constraint validation report

8) Command Page Output

Task	Time Range	Task	Constraint Type	Constraint Data	Status	Description
ACT Need high rate pass	2015-12-29 04:00:00 - 2015-12-29 04:00:00	ACT Need high rate pass	ThsRate	GE '12627ER'	FAIL	No timeline found for task time range
ACT Need high rate pass		ACT Need high rate pass	Contact Type	EQ 'SG1'	FAIL	No contact type found for task time range
ACT Need high rate pass		ACT Need high rate pass	Event Group	During 'SUN'	FAIL	Event group 'SUN' not found in task time range

# TIMELINE MANAGEMENT TOOL

## (TMT) KEY FEATURES



An innovative and efficient solution for safely managing real-time operations.

Timeline Management	<ul style="list-style-type: none"><li>✓ Mission Timeline Build/Mod</li><li>✓ Activity/timeline Time shift</li><li>✓ Launch slip</li><li>✓ Graphical Timeline Display</li><li>✓ Tabular Timeline Display</li><li>✓ Hyperlinks to activities/PROCs</li></ul>
Activity Management	<ul style="list-style-type: none"><li>✓ Activity Import/Build/Mod</li><li>✓ Constraint Definition</li></ul>
Event Management	<ul style="list-style-type: none"><li>✓ User-Defined Event Build/Mod</li><li>✓ Mission Event Ingest/Display (XML or .txt)</li></ul>
Constraint Checking	<ul style="list-style-type: none"><li>✓ Activity Validation</li><li>✓ Timeline Validation</li></ul>
CMD Page Generation	<ul style="list-style-type: none"><li>✓ CMD PROC Ingest/Display</li><li>✓ CMD Queue/Page generation</li></ul>
Configuration Management	<ul style="list-style-type: none"><li>✓ Fully integrated change request/approval</li><li>✓ Comprehensive Version History</li><li>✓ Version comparison feature</li></ul>
TMT Product Generation	<ul style="list-style-type: none"><li>✓ Timeline export</li><li>✓ Activity export</li></ul>
Operations Tracking	<ul style="list-style-type: none"><li>✓ Pass Plan Generation</li><li>✓ Activity execution tracking</li></ul>
Customization	<ul style="list-style-type: none"><li>✓ Customizable user roles and privileges</li><li>✓ Customizable input product definition</li><li>✓ Customizable constraint definition</li><li>✓ Customizable activity/event class definition</li><li>✓ Customizable for compatibility with mission T&amp;C system</li></ul>
User Interface	<ul style="list-style-type: none"><li>✓ Remote user interface via user-friendly web browser</li><li>✓ UTC time reference</li><li>✓ Configurable Countdown clock</li></ul>
Tool Architecture / Access	<ul style="list-style-type: none"><li>✓ Hosted on Apache web-server</li><li>✓ Remote Access</li><li>✓ Secure log in/authentication</li><li>✓ Selectable timeline databases</li><li>✓ Easy database management (copy/clone/import/export)</li></ul>

### TMT Heritage

*Fermi, DSCOVR, Raven, JPSS-01 (supporting flight operations)  
JPSS-02, STPSat-6, Landsat-9 (in development)*

For more information, please visit our website at [www.omitron.com](http://www.omitron.com) or e-mail us at [busdev@omitron.com](mailto:busdev@omitron.com)

Omitron, Inc. • 7051 Muirkirk Meadows Dr., Ste. A, Beltsville, MD 20705 • 301-474-1700