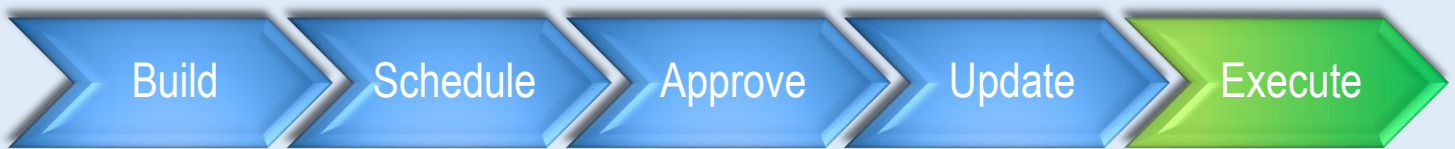


TIMELINE MANAGEMENT TOOL (TMT)



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

The screenshot displays the TMT software interface with several windows and a data table. The windows are numbered 1 through 8, corresponding to the legend on the right. Window 1 is the primary timeline display, window 2 is a link to activities, window 3 is a change request window, window 4 is a graphical timeline display, window 5 is a pass plan window, window 6 is an activity constraint definition window, window 7 is a constraint validation report window, and window 8 is a command page output window.

Task Time Range	Task	Constraint Type	Constraint Data	Status	Description
2015-12-29 04:00:00 - 2015-12-29 04:00:00	ACT Need high rate pass	ThnRate	GE 126278K	FAIL	No thnrate found for task time range
	ACT Need high rate pass	Contact Type	EQ SGI	FAIL	No contact type found for task time range
	ACT Need high rate pass	Event Group	During SUN	FAIL	Event group 'SUN' not found in task time range

- 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

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

TMT Heritage

Fermi, DSCOVR, ICESat-2, JPSS, SSCO/Raven

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