No Magic 18.5 FR (Feature Release)
Tool Usage Overview

1. Update Model
2. Check In/Out Projects
3. Publish for review
4. Review and Comment
Cameo Systems Modeler/Teamwork Cloud 18.5

• Tested Multi-user Teamwork Cloud functions
  • Locking model for model/content edit
  • Updating project
  • Unlocking and Committing Project to Server
  • Branching
  • Diffs and Merging (Using two-way Merge Plugin)
  • Configuration controls
  • User controls

• Assessment is that current version is sufficient for our small core team to effectively use. Must follow procedures with clear communication.
In order to open a specific project version, select a node with a corresponding version number in the Version tree and click Open.
1.2 Scope

Base project
sys_model_v32
41
442902 Elements
770 Diagrams

Compared project
sys_model_v32
43
444090 Elements
772 Diagrams

1.3 Overall changes

606 Overall changes

75 Added
492 Modified
39 Removed
Base project
Compared project
Documentation Generation

• Contractual documentation required in the form of .doc or .pdf
  • Requirements, System Design Descriptions
  • Looking for solution for exporting, near finished and familiar, documents from model

• Development work with No Magic through support contract
• Started with easy document - Science Requirements export with little to no post processing
• Second sprint – Mount DRD (215 pg. complex doc)
• Using modified VTL Word Template – Specific to DRD.
• Headless, automatic generation
3.3.3.1 General

**TS-MNT-7677** : **Mount - GIR Operational Acceleration** – The bidirectional acceleration rates of the Mount GIR shall be at least 0.2g/seg2.

**Rationale:** Flow down from parent.

**TS-MNT-7675** : **Mount - GIR Maximum Rate** – The Mount GIR shall have a bidirectional maximum slew rate of no greater than 2.0g/sec.

**Note:** This is the minimum value that shall be used for the design of all hardware.

**Rationale:** Flow down from parent.

**TS-MNT-7673** : **Mount - GIR Mechanical Range** – The mount GIR axis shall have sufficient range of motion to come to a complete and safe stop from the GIR Maximum Rate after either Over-Travel Limit is activated.

**Note:** The centre of this range is with the GIR Y axis aligned with the OSS Y axis.
Cameo Collaborator helps teams easily review model contents by connecting model authors, reviewers, and stakeholders on the web.
Cameo Collaborator 18.0 SP4

- Tested Multi-user Cameo Collaborator functions
  - Sharing with users
  - Review workflows
  - Graphical Redlining
  - Textual comments
  - Comment and Redline export to Word for reporting
  - Comment Workflow
  - Export times – 1-2 minutes for typical DRD, 10+ minutes for Entire Model

- Assessment is that SP4 adds functions that brings Collaborator to a state that will easily meet our review needs. Can’t say the same for previous versions.
- Future versions may allow web editing (considering usage)
Cameo Collaborator - Graphical Comments

- Observatory Performance Mode Analysis
  - Legacy System Requirements Analysis
  - Observatory Performance Analysis Detailed
  - Observatory Performance Mode Analysis
  - Observatory Performance Mode Analysis1
- Optical Analysis
- Simulation Configuration
- System Analysis Process
- System Requirements Analysis
  - Analysis Workflow
  - Structural Analysis Workflow
  - Test Equipment Needs Analysis
  - Thermal Analysis
  - Vibration Analysis
  - System level analysis
- 3-Behavior
- 4-Structure
- 5-Views
- 6-Architecture Trade-offs

Reposition.

Detail needed in next sprint.
<table>
<thead>
<tr>
<th>Text</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Mount shall have an altitude over azimuth structure.</td>
<td>Flowdown from parent requirement. <strong>Note:</strong> Level 3 architectural requirement missing.</td>
</tr>
<tr>
<td>The Mount shall have an instrument rotator to compensate for field rotation and deliver a non-rotating field of view to Direct Gregorian and Folded Port instruments mounted on the rotator.</td>
<td>Required due to the alt-azimuth tracking motion.</td>
</tr>
<tr>
<td>The Mount shall provide clear paths to deliver the focused beam of the Telescope to Science Instruments and the Wavefront Sensors.</td>
<td>The Mount is not to obstruct or vignette the focused beam from the primary mirrors. Requirements TS-MNT-12472, TS-MNT-13327 &amp; TS-MNT-13329 control the allowable obscuration of the incoming beam.</td>
</tr>
</tbody>
</table>

**Note:** The focused beam of the Telescope is defined in drawing GMT-TBD.

**Note:** The altitude over azimuth structure design is described in the Telescope Mount Design GMT-TEL-DOC-00703.

**Note:** Performance requirements for the Gregorian Instrument Rotator (GIR) are in sections 3.2 and 3.3.
Project sys_model_v32
Comments Report from Cameo Collaborator

1 Summary
1.1 Overview

2 Comments in total
0 Resolved comments
2 Unresolved comments

0 Replies in total
0 Resolved replies
0 Unresolved replies

1.2 Statistics by names
Brian Walls
2 comment(s)
0 reply(es)
Last activity
Apr 05, 2017 11:35 PM

No Magic, Inc.
Report generated on Apr 05, 2017 11:33 PM
By Brian Walls