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JSC XXXXX-DD.mm.05

Trick High Level Architecture MODEL Inspection, Verification, and Validation

Simulation and Graphics Branch (ER7)
Software, Robotics and Simulation Division
Engineering Directorate

Package Release TrickHLA v2.9.0

Document Revision 1.0
DATE

National Aeronautics and Space Administration
Lyndon B. Johnson Space Center
Houston, Texas

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Abstract

This is the abstract of the MODEL.

Contents

Chapter 1

Introduction

MODEL introduction.

1.1 Identification of Document

This document describes the inspection, verification, and validation of the MODEL developed for use in the Trick Simulation Environment. This document adheres to the documentation standards defined in NASA Software Engineering Requirements Standard [**?**].

1.2 Scope of Document

This document provides information on the inspection, verification, and validation of the MODEL. This document provides information on the use of the MODEL.

1.3 Purpose and Objectives of Document

The purpose of this document is to demonstrate that the MODEL adheres to the requirements levied upon it, thus enabling the use of the MODEL in a dynamic simulation.

1.4 Documentation Status and Schedule

The information in this document is current with the TrickHLA v2.9.0 implementation of the MODEL. Updates will be kept current with module changes.

Author	Date	Description
YOUR NAME	DATE	Initial Version

Revised by	Date	Description

1.5 Document Contents

This document is organized into the following sections:

Chapter ??: Introduction - Identifies this document, defines the scope and purpose, present status, and provides a description of each major section.

Chapter ??: Related Documentation - Lists the related documentation that is applicable to this project.

Chapter ??: Inspection and Verification - Presents the inspection results on the MODEL.

Chapter ??: Validation - Presents the MODEL test plans and results.

Chapter ??: Requirements Traceability - Presents mapping of requirements to inspections and tests.

Bibliography - Informational references associated with this document.

Chapter 2

Related Documentation

2.1 Parent Documents

The following documents are parent to this document:

- *Trick High Level Architecture ()* [**?**]
- *MODEL* [**?**]

2.2 Applicable Documents

The following documents are referenced herein and are directly applicable to this document:

- *MODEL Product Requirements* [**?**]
- *MODEL Product Specification* [**?**]
- *MODEL User Guide* [**?**]
- *The Trick User's Guide: Trick 2005.0 Release* [**?**]
- *Trick Simulation Environment: User Training Materials: Trick 2005.0 Release* [**?**]
- *Trick Simulation Environment: Version Description: Trick 2005.0 Release* [**?**]
- *The Trick Design Document: Trick 2005.0 Release* [**?**]
- *NASA Software Engineering Requirements* [**?**]

Chapter 3

Inspection and Verification

Inspection MODEL_1: Documentation

The MODEL documentation set listed in chapter **??** satisfy requirement **??**.

Inspection MODEL_2: Trick Coding Standards

The MODEL source code satisfies the coding requirements **??**, **??**, **??**, **??**, and **??**.
THIS IS AN EXAMPLE FOR UNIVERSAL TIME.

Inspection MODEL_3: Time Representation

The universal time model contains the data items needed to satisfy requirement **??**.

Chapter 4

Validation

Test MODEL_1: Time Initialization

Purpose:
The purpose of this test is to verify that time is properly initialized.

Requirements:
By passing this test, the universal time module partially satisfies requirement **??** and completely satisfies requirement **??**.

Procedure:
FILL THIS IN.

Results:
FILL THIS IN.

Chapter 5

Requirements Traceability

Requirement	**Inspection or test**
?? - Documentation	Insp. **??** - Documentation
?? - Header File Trick Header	Insp. **??** - Trick Coding Standards
?? - Enumeration Comments	Insp. **??** - Trick Coding Standards
?? - Structure Comments	Insp. **??** - Trick Coding Standards
?? - Source File Trick Headers	Insp. **??** - Trick Coding Standards
?? - Function Comments	Insp. **??** - Trick Coding Standards
?? - Time Representation	Insp. **??** - Time Representation, Test **??** - Time Initialization

Table 5.1: Requirements Traceability

Chapter 6

Version Description

This section identifies the versions of the MODEL test items as described in the current release of the MODEL documentation.

6.1 Inventory

The following items comprise the complete configuration-managed inventory of the MODEL:

LIST ALL TEST FILES ASSOCIATED WITH THE MODEL THAT ARE IN THE RAZOR DATABASE.

6.2 Change Status

This is the basic implementation of the software suite. A change status is not provided.

6.3 Adaptation Data

This is the first release (basic version) of the MODEL software suite. No adaptation data is appropriate or is provided, as the user will define the ab initio data structures at initialization time.