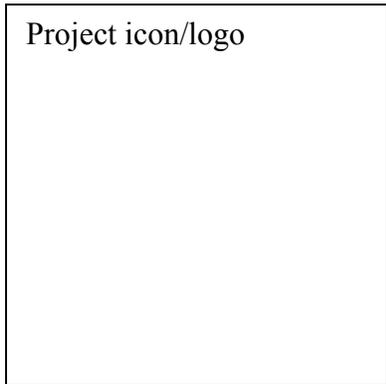


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Project Name

Document Title

Date

NOTE: THIS DOCUMENT IS PROVIDED AS A SAMPLE PROJECT REQUIREMENTS DOCUMENT TEMPLATE. IT WAS DEVELOPED AT LANGLEY RESEARCH CENTER FOR THE GIFTS PROJECT. THERE IS AN ASSOCIATED INSTRUCTION DOCUMENT ALSO FOUND AT THE RDMP WEB SITE. ANY QUESTIONS OR COMMENTS SHOULD BE DIRECTED TO THE LANGLEY SYSTEMS MANAGEMENT OFFICE OR DOCUMENT CURRATOR, WHO MAY BE REACHED VIA EMAIL AT THOMAS.A.SHULL@NASA.GOV

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Prepared by:

Name, Organization
Position

Name, Organization
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Approved by:

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Revision History

Version	Date	Description
	mm/dd/yy	

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Table of Contents

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1 INTRODUCTION

1.1 Purpose and Scope

This section describes the purpose and scope of this document. It describes the mission architectural entities (segment, element, or subsystem) of the “system of interest” whose requirements are included within this document and directs the reader to other documents where requirements for related mission architectural entities are located.

1.2 Document Control

The approved [insert document title here] will be placed under configuration control. Any changes will require Configuration Control Board approval per the GIFTS Configuration Management Plan (GIFTS 01-011).

1.3 Acronyms, Abbreviations, and Definitions

This section contains a document specific glossary of terms, acronyms, and abbreviations. This section should reference an appropriate mission glossary or glossary of a higher-level document to reduce repetition or potential conflict of common mission terms.

1.3.1 Acronyms

1.3.2 Abbreviations

1.3.3 Definitions

1.4 References

1.4.1 Document Precedence

This document is consistent with, and responsive to, the following documents. If the [insert document title here] conflicts with any of these documents, these documents take precedence:

Document Number	Document Title	Version or Date

1.4.2 Document Inclusion

The following documents form a part of the [insert document title here] to the extent specified herein:

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Document Number	Document Title	Version or Date

This section contains a complete list of all documents referenced in this document. The reference should include document number, document title, document version number, and specific sections or paragraphs when applicable. If no document version number is available, a document date is acceptable.

2 GENERAL DESCRIPTION

2.1 Functions and Purpose

This section should describe the goals, objectives, function, and purpose of the system of interest. This section is expected to be a narrative in clear, plain language containing multiple paragraphs (possibly multiple pages), figures, and/or tables.

2.1.1 Operations Concept

This section describes the operations concept of the system of interest.

2.1.2 System Modes and States

If the system of interest can operate in various modes or states, this subsection should detail these.

2.2 Relationship to Other Systems

This section describes the parent-child-sibling relationships of the system of interest. It identifies the external interfaces and introduced the internal architectural decomposition and interfaces. Interface diagrams are expected.

2.3 General Constraints

This section defines schedule, budget, resource, policy, regulatory, programmatic, or political constraints imposed on the system of interest. This section includes environmental, security, and safety statutes, policies, and guidelines to which the system of interest must comply. It is expected that this section will be written as requirements (shall statements), but in as general a manner as possible so that the document is flexible with respect to normal fluctuations in project schedule, budget, and resources.

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{rationale}

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3 SPECIFIC REQUIREMENTS

3.1 Functional Requirements

Requirements in this section detail the required functionality of the system of interest. These requirements reflect the functionality statements of Section 2.1 as requirements.

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3.2 Performance Requirements

Requirements in this section specify to what degree, to what quality, or to what quantity the required functions of Section 3.1 are to be carried out. These requirements address how well, how often, how long, how many, etc.

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3.3 Interface Requirements

Requirements in this section are functional requirements that identify all interfaces of the system of interest. It is a qualitative expansion of Section 2.2. This section should direct the reader to documentation that details the content of each interface.

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3.4 Operational Requirements

Requirements in this section detail how the system of interest will be operated. This section indicates the configurations or modes the system of interest is required to implement. These requirements expand upon the operational statements of Section 2.1 as requirements.

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3.5 Resource Requirements

Requirements in this section define what resources (ie. power, mass, stability) will be consumed by the system of interest. If appropriate, requirements in this section should be presented to show required resource consumption per configuration or mode described in Section 3.4.

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3.6 Environmental Requirements

Requirements in this section define the environmental conditions under which the system of interest is required to operate.

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3.7 Acceptance Testing Requirements

Requirements in this section establish the criteria or mechanism by which the system of interest will be tested for acceptance. Criteria or mechanism may be defined as a type of test (or tests), type of analysis (or analyses), or type of review (or reviews)

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3.8 Security Requirements

Requirements in this section define the required IT, ITAR, and physical security for the system of interest.

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3.9 Transportability Requirements

If applicable, requirements in this section define the required configuration of the system of interest for transport. Further, this section details the external systems (and the interfaces to those systems) required for transport of the system of interest.

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{rationale}

3.10 Quality Requirements

Requirements in this section define the required life-cycle quality assurance process for the system of interest.

{traceability link}

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{verification method}

{rationale}

3.11 Reliability Requirements

Requirements in this section define the required reliability of the system of interest including acceptable failure rate, downtime, and restart time.

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{allocation}

{verification method}

{rationale}

3.12 Maintainability Requirements

Requirements in this section detail how frequently, by whom, and by what means the system of interest will require maintenance.

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3.13 Safety Requirements

Requirements in this section define the life-cycle safety requirements for the system of interest and associated equipment, facilities, and personnel.

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