Software Product Specification (SPS)

Development Team

2024-06-26

# Software Product Specification (SPS)

## 1. Scope

### 1.1 Identification

**SPS-001: Document Identification** - The document **shall** be identified by the following information: - **Document Name**: [Document Name] - **Document Identifier**: [SPS-001] - **Version**: 1.0 - **Classification**: [Unclassified/Classified Level]

### 1.2 Document Overview

**SPS-002: Document Purpose** - The document **shall** specify the software product characteristics and capabilities - The document **shall** define product features and functionality - The document **shall** describe product performance and quality attributes

## 2. Referenced Documents

**SPS-003: Referenced Standards** - MIL-STD-498: Software Development and Documentation - [Other applicable standards]

## 3. Product Overview

**SPS-004: Product Description** - The document **shall** provide a comprehensive product description - The document **shall** specify product purpose and objectives - The document **shall** describe product scope and boundaries

## 4. Product Features

### 4.1 Functional Features

**SPS-005: Functional Capabilities** - The document **shall** describe all functional features and capabilities - The document **shall** specify feature requirements and specifications - The document **shall** define feature interactions and dependencies

### 4.2 Non-Functional Features

**SPS-006: Quality Attributes** - The document **shall** specify performance requirements - The document **shall** describe reliability and availability features - The document **shall** define security and safety features

## 5. Product Architecture

**SPS-007: Architecture Description** - The document **shall** describe the product architecture - The document **shall** specify component structure and relationships - The document **shall** define interface specifications

## 6. Product Interfaces

**SPS-008: Interface Specifications** - The document **shall** describe user interfaces - The document **shall** specify external system interfaces - The document **shall** define data interfaces and formats

## 7. Product Performance

**SPS-009: Performance Specifications** - The document **shall** specify performance requirements and metrics - The document **shall** describe performance characteristics - The document **shall** define performance testing criteria

## 8. Product Quality

**SPS-010: Quality Specifications** - The document **shall** specify quality requirements and standards - The document **shall** describe quality assurance measures - The document **shall** define quality testing and validation procedures

## 9. Product Constraints

**SPS-011: Constraint Specifications** - The document **shall** specify technical constraints and limitations - The document **shall** describe operational constraints - The document **shall** define regulatory and compliance requirements

## 10. Notes

* **SPS**: Software Product Specification
* **Product**: Software system or application