Software Product Specification (SPS)

Development Team

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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