Interface Design Document (IDD)

Development Team

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# Interface Design Document (IDD)

## 1. Scope

### 1.1 Identification

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

### 1.2 Document Overview

**IDD-002: Document Purpose** - The document **shall** describe the design of system interfaces - The document **shall** define interface specifications and protocols - The document **shall** specify interface implementation details

## 2. Referenced Documents

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

## 3. Interface Overview

**IDD-004: System Description** - The document **shall** provide an overview of system interfaces - The document **shall** describe interface architecture and design - The document **shall** specify interface types and classifications

## 4. Interface Specifications

### 4.1 User Interfaces

**IDD-005: User Interface Design** - The document **shall** describe user interface design principles - The document **shall** specify UI components and layouts - The document **shall** define user interaction patterns

### 4.2 Hardware Interfaces

**IDD-006: Hardware Interface Design** - The document **shall** describe hardware interface specifications - The document **shall** specify communication protocols - The document **shall** define interface timing and electrical characteristics

### 4.3 Software Interfaces

**IDD-007: Software Interface Design** - The document **shall** describe software interface specifications - The document **shall** define API contracts and data formats - The document **shall** specify interface versioning and compatibility

### 4.4 Communications Interfaces

**IDD-008: Communications Interface Design** - The document **shall** describe communications interface specifications - The document **shall** define network protocols and data formats - The document **shall** specify security and authentication requirements

## 5. Interface Implementation

**IDD-009: Implementation Details** - The document **shall** describe interface implementation approach - The document **shall** specify development tools and frameworks - The document **shall** define testing and validation procedures

## 6. Interface Testing

**IDD-010: Testing Requirements** - The document **shall** describe interface testing strategies - The document **shall** specify test cases and validation criteria - The document **shall** define performance and reliability requirements

## 7. Notes

* **IDD**: Interface Design Document
* **API**: Application Programming Interface
* **UI**: User Interface