



PARADIN ENVIROTECH

Software Requirements Specification

ShieldCert System - Model  
Management Module

Version: 1.0

Date: 2025-12-22

Status: Draft

<https://www.securewithpaladin.com>

# Table of Contents

- 1 Document Information
- 2 Project Overview
  - 2.1 What Are We Building
    - 2.1.1 System Function
    - 2.1.2 Users
    - 2.1.3 Problem Solved
    - 2.1.4 Key Success Metric
  - 2.2 Scope
    - 2.2.1 In Scope
    - 2.2.2 Out Of Scope
- 3 User Requirements
  - 3.1 Model Creation
  - 3.2 Model Management
- 4 Detailed Feature Requirements
  - 4.1 Ft Model Create
    - 4.1.1 Priority
    - 4.1.2 User Story
    - 4.1.3 Preconditions
    - 4.1.4 Postconditions
    - 4.1.5 Acceptance Criteria
- 5 Data Model
  - 5.1 Entities
    - 5.1.1 Model
      - 5.1.1.1 Description
      - 5.1.1.2 Key Fields

- 5.1.2 Modelsubstitution
  - 5.1.2.1 Description
  - 5.1.2.2 Key Fields
- 6 Business Rules
- 7 Sign Off
  - 7.1 Approval
  - 7.2 Document History



# 1 Document Information

Field	Value
Project Name	ShieldCert System - Model Management Module
Version	1.0
Date	2025-12-22
Project Manager	TBD
Tech Lead	TBD
Qa Lead	TBD
Platforms	['Web']
Document Status	Draft
Client	Paladin Envirotech
Document Code	SHIELDCERT-MODEL-122025

## 2 Project Overview

### 2.1 What Are We Building

#### 2.1.1 System Function

Product catalog management system that handles model number creation, approval workflow, product classification, and substitute model management for IT assets throughout the ITAD process.

#### 2.1.2 Users

- Model Management Team: Model approval and catalog maintenance
- Operations Staff: Model creation during asset processing
- Auditing Operators: Model selection during asset data capture
- Value Recovery Team: Model information for pricing and sales

#### 2.1.3 Problem Solved

Eliminates inconsistent product identification, ensures standardized model catalog, automates approval workflow, provides substitute model handling for rejected items, and maintains accurate product specifications for valuation and processing.

#### 2.1.4 Key Success Metric

100% standardized product identification, 95% model approval efficiency, zero duplicate models, and automated substitute model replacement.

## 2.2 Scope

### 2.2.1 In Scope

- Model number creation and approval workflow
- Product type and manufacturer association
- Image upload and management
- Model search and filtering capabilities
- Rejected model substitution process

- Weight and description management
- Tech line classification for processing decisions

## 2.2.2 Out Of Scope

- Automated model recognition from images
- Integration with manufacturer databases
- Advanced product specifications management
- Pricing optimization based on model data



# 3 User Requirements

## 3.1 Model Creation

Feature Code	I Want To	So That I Can	Priority	Notes
FT-MODEL-CREATE	Create new model numbers with all required specifications	Standardize product identification across the system	Must	Includes product type, manufacturer, weight, and approval workflow
FT-MODEL-APPROVE	Review and approve model numbers before operational use	Ensure catalog accuracy and completeness	Must	Model Management Team approval required before use
FT-MODEL-SUBSTITUTE	Replace rejected model numbers with approved substitutes	Automatically update all affected assets with correct models	Must	Auto-updates existing assets and notifies management team

## 3.2 Model Management

Feature Code	I Want To	So That I Can	Priority	Notes
FT-MODEL-SEARCH	Search model catalog by number, type, or manufacturer	Quickly find existing models during asset processing	Must	Fast search across all model attributes
FT-MODEL-IMAGE	Upload and manage images for model numbers	Provide visual reference for asset identification	Should	Image storage and display in model catalog

# 4 Detailed Feature Requirements

## 4.1 Ft Model Create

### 4.1.1 Priority

Must Have

### 4.1.2 User Story

As a user, I want to create new model numbers so that I can standardize product identification across the system

### 4.1.3 Preconditions

User has model creation permissions, product types and manufacturers exist

### 4.1.4 Postconditions

Model created with approval status, available for use when approved

### 4.1.5 Acceptance Criteria

- Model Number (required, unique)
- Product Type selection from system list
- Manufacturer selection from system list
- Description (required for approval)
- Short Description (optional)
- Weight (optional, required for approval, numeric)
- Status: Active/Inactive
- Approval Status: Approved/Not Approved
- Sub Model Number (required when not approved)
- Image upload capability
- Operations Users can create but not approve models
- Model Management Team can approve and edit all fields
- Rejected model error with substitute suggestion

# 5 Data Model

## 5.1 Entities

### 5.1.1 Model

#### 5.1.1.1 Description

Product model catalog

#### 5.1.1.2 Key Fields

- model\_id (Primary Key)
- model\_number (Required, Unique)
- product\_type\_id (Foreign Key)
- manufacturer\_id (Foreign Key)
- description (Required for approval)
- short\_description
- weight (Required for approval)
- status (Active/Inactive)
- approval\_status (Approved/Not Approved)
- sub\_model\_number
- image\_url
- tech\_line\_classification
- created\_date
- created\_by
- approved\_date
- approved\_by

#### 5.1.2 Modelsubstitution

##### 5.1.2.1 Description

Rejected model substitutes

### 5.1.2.2 Key Fields

- substitution\_id (Primary Key)
- rejected\_model\_id (Foreign Key)
- substitute\_model\_id (Foreign Key)
- substitution\_date
- substituted\_by
- affected\_assets\_count



## 6 Business Rules

- Model numbers must be unique across the system
- Description and weight required for model approval
- Operations Users can create but not approve models
- Model Management Team required for approval
- Rejected models must have substitute assigned
- Auto-update all assets when model substituted
- Approved models cannot be deleted, only inactivated



## 7 Sign Off

### 7.1 Approval

Role	Name	Signature	Date

### 7.2 Document History

Version	Date	Changes Made	Changed By
1.0	2025-12-22	Initial Model Management module SRS	SRS Development Team