



PARADIN ENVIROTECH

Software Requirements Specification

ShieldCert System - System Administration Module

Version: 1.0

Date: 2025-12-22

Status: Draft

<https://www.securewithpaladin.com>

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ENVIROTECH

1 Document Information

Field	Value
Project Name	ShieldCert System - System Administration Module
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Project Manager	TBD
Tech Lead	TBD
Qa Lead	TBD
Platforms	['Web']
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Client	Paladin Envirotech
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2 Project Overview

2.1 What Are We Building

2.1.1 System Function

System administration platform providing user management, role-based access control, master data management, audit trail monitoring, and system configuration capabilities that support all operational modules with security, compliance, and administrative oversight.

2.1.2 Users

- System Administrators: Complete system management and configuration
- IT Managers: User access and security oversight
- Compliance Officers: Audit trail monitoring and reporting
- Operations Managers: Master data configuration and maintenance

2.1.3 Problem Solved

Provides centralized user management, ensures consistent access control across all modules, maintains configurable master data, enables comprehensive audit monitoring, and supports system-wide configuration management.

2.1.4 Key Success Metric

100% role-based access control enforcement, complete audit trail coverage, centralized master data management, and streamlined user administration.

2.2 Scope

2.2.1 In Scope

- User creation, management, and role assignment
- Role and permission management system
- Master data configuration for all dropdown lists
- Comprehensive audit trail monitoring and reporting

- Access control enforcement across all modules
- System configuration management

2.2.2 Out Of Scope

- Advanced analytics and business intelligence
- Integration with external identity providers
- Automated user provisioning from HR systems
- Advanced security monitoring and threat detection



3 User Requirements

3.1 User Management

Feature Code	I Want To	So That I Can	Priority	Notes
FT-USER-MANAGE	Create, edit, and manage user accounts	Control system access and maintain user information	Must	Complete user lifecycle management with role assignment
FT-ROLE-MANAGE	Create and manage user roles with permissions	Define access levels and system capabilities	Must	Granular permission assignment and role-based access control

3.2 Master Data

Feature Code	I Want To	So That I Can	Priority	Notes
FT-MASTER-DATA	Manage all system master data and dropdown lists	Maintain consistent reference data across modules	Must	Centralized configuration for all system reference data

3.3 Audit Monitoring

Feature Code	I Want To	So That I Can	Priority	Notes
FT-AUDIT-TRAIL	View comprehensive audit trails for all system functions	Monitor system usage and ensure compliance	Must	Complete activity logging with user, action, and

Feature Code	I Want To	So That I Can	Priority	Notes
				timestamp tracking



4 Master Data Entities

- SOW Types
- Payment Terms
- Countries
- US States
- Currencies
- Product Types
- Manufacturers
- Sales Order Types
- Sales Channels
- Incoterms
- Shipment Methods
- Carriers
- Order Statuses (Inbound/Outbound)
- Services
- Packaging Types
- Grading Comments
- Container/Truck Types
- Truck Sizes

5 Data Model

5.1 Entities

5.1.1 User

5.1.1.1 Description

System user accounts

5.1.1.2 Key Fields

- user_id (Primary Key)
- username (Unique)
- email (Unique)
- first_name
- last_name
- status (Active/Inactive)
- created_date
- last_login_date
- password_hash
- failed_login_attempts

5.1.2 Role

5.1.2.1 Description

User roles and permissions

5.1.2.2 Key Fields

- role_id (Primary Key)
- role_name (Unique)
- description
- status (Active/Inactive)
- created_date

- created_by

5.1.3 Permission

5.1.3.1 Description

System permissions

5.1.3.2 Key Fields

- permission_id (Primary Key)
- permission_name
- module
- action (Create, Read, Update, Delete)
- description

5.1.4 Auditlog

5.1.4.1 Description

System audit trail

5.1.4.2 Key Fields

- audit_id (Primary Key)
- user_id (Foreign Key)
- module
- action
- entity_type
- entity_id
- old_values (JSON)
- new_values (JSON)
- timestamp
- ip_address
- user_agent

6 Business Rules

- Each user must have at least one role assigned
- Roles can have multiple permissions
- Users can have multiple roles
- All system actions must be logged in audit trail
- Master data changes reflected system-wide immediately
- User account lockout after failed login attempts
- Role-based access control enforced on all modules



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 System Administration module SRS	SRS Development Team