

# IkeaDocuScan V3 - Business Test Plan: SUPERUSER ROLE

Version: 1.0 Date: 2025-11-14 Test Role: SuperUser (Administrator)

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## SuperUser Role Overview

### Capabilities

The SuperUser role has **full administrative access**:

- Includes All Publisher & Reader Capabilities**  **Plus:** - Delete documents and scanned files - Manage user permissions (create, edit, delete) - Create/edit/delete all reference data: - Countries - Currencies - Document Types - Document Names - Counter Parties - Access system configuration (SMTP, email templates, recipients) - View audit trail - See ALL documents (no permission filtering)
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## Critical Test Scenarios

### User Permission Management

#### TC-S-001: Create New User with Permissions

**Objective:** Verify SuperUser can create users and assign permissions

**Test Steps:** 1. Navigate to “User Permissions” 2. Click “Add User” 3. Enter Account Name: DOMAIN\new\_user 4. Set IsSuperUser: false 5. Add permissions: - Document Type: Invoice - Country: Sweden - Counter Party: ACME 6. Save

**Expected Result:** - User created in DocuScanUser table - Permissions created in UserPermissions table - User can now log in and see only permitted documents - Audit trail entry created

**Actual Result:** [To be filled]

**Status:**

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#### TC-S-002: Grant SuperUser Privileges

**Objective:** Verify granting SuperUser flag

**Test Steps:** 1. Edit existing user 2. Check “IsSuperUser” checkbox 3. Save

**Expected Result:** - User’s IsSuperUser flag set to true - User now has full access (ignores UserPermissions) - Audit trail records this critical change

**Actual Result:** [To be filled]

**Status:**

**Critical:** This grants full system access

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#### TC-S-003: Delete User with Existing Permissions

**Objective:** Verify user deletion handles orphaned permissions

**Pre-conditions:** - User exists with multiple UserPermission records

**Test Steps:** 1. Delete user

**Expected Result:** - User deleted from DocuScanUser - Associated UserPermissions automatically deleted (CASCADE) OR - Error: "Cannot delete - has existing permissions. Remove permissions first" - No orphaned permission records

**Actual Result:** [To be filled]

**Status:**

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#### TC-S-004: User with Conflicting Permissions

**Objective:** Test adding contradictory permissions

**Test Steps:** 1. Edit user 2. Add permission: Type=Invoice, Country=(NULL), Party=(NULL) [All invoices] 3. Add permission: Type=(NULL), Country=Germany, Party=(NULL) [All docs in Germany] 4. Save

**Expected Result:** - Both permissions saved - User sees UNION of both (invoices anywhere + all Germany docs) - No conflicts or errors

**Actual Result:** [To be filled]

**Status:**

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### Reference Data Management

#### TC-S-010: Create New Country

**Objective:** Verify creating reference data

**Test Steps:** 1. Navigate to "Country" (Admin menu) 2. Click "Add Country" 3. Enter Code: NO 4. Enter Name: Norway 5. Save

**Expected Result:** - Country created - Available in dropdowns throughout app - Audit trail entry created

**Actual Result:** [To be filled]

**Status:**

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#### TC-S-011: Delete Country - Not In Use

**Objective:** Delete country with no references

**Pre-conditions:** - Country "TestCountry" exists, not used by any documents/permissions

**Test Steps:** 1. Delete "TestCountry"

**Expected Result:** - Country deleted successfully - Removed from dropdowns - Audit trail entry

**Actual Result:** [To be filled]

**Status:**

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#### TC-S-012: Delete Country - In Use (Should Fail)

**Objective:** Verify deletion blocked if country is referenced

**Pre-conditions:** - Country “Sweden” used by: - 50 documents - 10 user permissions - 5 counter parties

**Test Steps:** 1. Attempt to delete “Sweden”

**Expected Result:** - Error: “Cannot delete - in use by X documents, Y permissions, Z counter parties” - Deletion blocked - Foreign key constraint prevents deletion

**Actual Result:** [To be filled]

**Status:**

**Critical:** Prevents data corruption

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#### TC-S-013: Edit Country - Change Code

**Objective:** Verify impact of changing country code (PK)

**Pre-conditions:** - Country “SE” (Sweden) used by documents

**Test Steps:** 1. Edit country “SE” 2. Change code to “SW” 3. Save

**Expected Result:** - Option A: Code is immutable (cannot change PK) - Option B: CASCADE update changes all references - No broken references

**Actual Result:** [To be filled]

**Status:**

**Critical:** Referential integrity

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#### TC-S-014: Duplicate Reference Data

**Objective:** Verify duplicate prevention

**Pre-conditions:** - Currency “USD” exists

**Test Steps:** 1. Attempt to create another currency with code “USD”

**Expected Result:** - Validation error: “Currency code already exists” - Duplicate not created

**Actual Result:** [To be filled]

**Status:**

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#### TC-S-015: Create Counter Party with Special Characters

**Objective:** Verify support for special characters in names

**Test Steps:** 1. Create Counter Party 2. Name: O’Brien & Associates (ö&ä) 3. Save

**Expected Result:** - Saved correctly - Displays correctly in dropdowns and search - No encoding issues

**Actual Result:** [To be filled]

**Status:**

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#### Document Type Field Configuration

### **TC-S-020: Configure Document Type - Required Fields**

**Objective:** Verify field configuration affects registration UI

**Test Steps:** 1. Edit Document Type “Invoice” 2. Set field configurations: - Amount: Required - Currency: Required - ActionDate: Optional 3. Save 4. As Publisher, register new Invoice document

**Expected Result:** - Amount and Currency show red asterisk (\*) - Cannot save without Amount and Currency - ActionDate is optional (can be empty)

**Actual Result:** [To be filled]

**Status:**

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### **TC-S-021: Configure Document Type - Field Visibility**

**Objective:** Verify hiding fields for certain document types

**Test Steps:** 1. Edit Document Type “Contract” 2. Disable “Amount” field 3. Save 4. Register new Contract

**Expected Result:** - Amount field not visible for Contracts - Other document types still show Amount - No validation errors

**Actual Result:** [To be filled]

**Status:**

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## **Configuration Management**

### **TC-S-030: Update SMIP Configuration**

**Objective:** Verify SMTP configuration with auto-test

**Test Steps:** 1. Navigate to “Configuration” → “SMTP Settings” 2. Update: - SmtpHost: smtp.test.com - SmtpPort: 587 - Username: test@test.com - Password: password 3. Click “Save” (triggers SMTP test)

**Expected Result:** - System tests SMTP connection before saving - If test succeeds: Settings saved - If test fails: Error message, settings NOT saved (rollback) - Audit trail entry

**Actual Result:** [To be filled]

**Status:**

**Critical:** Prevents saving broken SMTP config

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### **TC-S-031: Update Email Template**

**Objective:** Verify email template customization

**Test Steps:** 1. Navigate to “Configuration” → “Email Templates” 2. Edit “ActionReminderDaily” template 3. Modify HTML body (change header color) 4. Add placeholder: {{TestPlaceholder}} 5. Save

**Expected Result:** - Template saved - System validates HTML structure - Warning if placeholder undefined - Cached template cleared - Next email uses new template

**Actual Result:** [To be filled]

**Status:**

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#### **TC-S-032: Invalid Email Template**

**Objective:** Verify validation of malformed templates

**Test Steps:** 1. Edit email template 2. Enter HTML with mismatched braces: {{Count}} 3. Or invalid HTML: <div>No closing tag 4. Save

**Expected Result:** - Validation warning or error - Option to save anyway or fix - No system crash when rendering

**Actual Result:** [To be filled]

**Status:**

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#### **TC-S-033: Update Email Recipients**

**Objective:** Verify email recipient group management

**Test Steps:** 1. Navigate to “Configuration” → “Email Recipients” 2. Find “ActionReminderRecipients” group 3. Add email: new@company.com 4. Remove email: old@company.com 5. Save

**Expected Result:** - Recipients updated - Cache cleared - Next action reminder email goes to new list - Audit trail entry

**Actual Result:** [To be filled]

**Status:**

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### **Delete Operations**

#### **TC-S-040: Delete Document**

**Objective:** Verify document deletion

**Pre-conditions:** - Document exists: Barcode 12345678

**Test Steps:** 1. Search for document 2. Open document details 3. Click “Delete” button 4. Confirm deletion

**Expected Result:** - Confirmation prompt: “Are you sure?” - Document deleted from database - Attached PDF deleted from file system - Audit trail entry: “Deleted document 12345678” - Real-time update sent to other users - Document no longer appears in searches

**Actual Result:** [To be filled]

**Status:**

**Critical:** Permanent data loss

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#### **TC-S-041: Delete Document - Cancel**

**Objective:** Verify canceling deletion doesn’t delete

**Test Steps:** 1. Attempt to delete document 2. Click “Cancel” in confirmation dialog

**Expected Result:** - Document NOT deleted - Still exists in database - No audit entry

**Actual Result:** [To be filled]

**Status:**

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#### **TC-S-042: Delete Scanned File Separately**

**Objective:** Verify deleting PDF without deleting document record

**Pre-conditions:** - Document with attached PDF

**Test Steps:** 1. View document with PDF 2. Click “Delete File” (if available) OR 3. Use scanned file management page

**Expected Result:** - PDF deleted from file system - Document record remains (without file link) - Audit trail entry - Can re-attach different PDF later

**Actual Result:** [To be filled]

**Status:**

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#### **Audit Trail**

##### **TC-S-050: View Audit Trail**

**Objective:** Verify SuperUser can view all audit entries

**Test Steps:** 1. Navigate to “Audit Trail” 2. View list of all changes

**Expected Result:** - All audit entries visible - Shows: Who, When, What changed, Old/New values - Can filter by user, date range, entity type - Can export to Excel

**Actual Result:** [To be filled]

**Status:**

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##### **TC-S-051: Audit Trail Completeness**

**Objective:** Verify all data modifications are audited

**Test Steps:** 1. As SuperUser, perform: - Create document - Edit document - Delete document - Create counter party - Edit user permissions - Update configuration 2. Check audit trail

**Expected Result:** - All 6 operations have audit entries - Each entry shows old and new values - No gaps in audit trail

**Actual Result:** [To be filled]

**Status:**

**Critical:** Compliance requirement

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#### **No Permission Filtering**

##### **TC-S-060: SuperUser Sees All Documents**

**Objective:** Verify SuperUser bypasses permission filtering

**Pre-conditions:** - Database has: - 100 documents total - SuperUser has NO UserPermission records - OR SuperUser has limited permissions

**Test Steps:** 1. Login as SuperUser 2. Search all documents

**Expected Result:** - SuperUser sees ALL 100 documents - No filtering by UserPermissions  
- Can view/edit any document regardless of type/country/party

**Actual Result:** [To be filled]

**Status:**

**Critical:** SuperUser must have full access

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## Edge Cases & Data Corruption

### TC-S-070: Circular Reference Prevention

**Objective:** Verify prevention of circular dependencies

**Note:** May not be applicable depending on schema

**Test Steps:** 1. If ThirdParty can reference CounterParty: - Create CP1 with ThirdParty = CP2 - Create CP2 with ThirdParty = CP1

**Expected Result:** - Either: Circular reference allowed (not a problem) - Or: Validation prevents saving circular reference

**Actual Result:** [To be filled]

**Status:**

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### TC-S-071: Delete While Document is Being Edited

**Objective:** Test concurrent delete/edit scenario

**Pre-conditions:** - Two SuperUsers logged in

**Test Steps:** 1. SuperUser1: Opens document for edit 2. SuperUser2: Deletes same document 3. SuperUser1: Attempts to save changes

**Expected Result:** - Error: "Document no longer exists" - Save fails gracefully - No database error

**Actual Result:** [To be filled]

**Status:**

**Critical:** Concurrent operation safety

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### TC-S-072: Mass Delete Attempt

**Objective:** Test deleting many documents quickly

**Test Steps:** 1. Select 50 documents 2. Click "Delete Selected" (if available) 3. Confirm

**Expected Result:** - All 50 documents deleted - All 50 PDF files deleted - 50 audit trail entries created - No database timeout - Transaction succeeds or rolls back completely

**Actual Result:** [To be filled]

**Status:**

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### TC-S-073: Configuration Rollback on SMTP Failure

**Objective:** Verify automatic rollback if SMTP test fails

**Test Steps:** 1. Note current SMTP settings (working) 2. Update to invalid settings: - SmtpHost: invalid.smtp.server - Port: 999 3. Click Save (triggers test)

**Expected Result:** - SMTP test fails - Error: "SMTP test failed - settings not saved" - Database rolled back to previous settings - Current settings unchanged - Audit trail shows attempted change with "Rolled back" note

**Actual Result:** [To be filled]

**Status:**

**Critical:** Prevents breaking email functionality

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#### TC-S-074: Large Configuration Value

**Objective:** Test storing very large email template

**Test Steps:** 1. Edit email template 2. Paste 100KB HTML template 3. Save

**Expected Result:** - Template saves (nvarchar(MAX) field) - No truncation - Template renders correctly

**Actual Result:** [To be filled]

**Status:**

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### Test Results Summary

Category	Total	Pass	Fail	Blocked	Not Run
User Permissions	4				
Reference Data	6				
Document Type Config	2				
Configuration	4				
Delete Operations	3				
Audit Trail	2				
No Filtering	1				
Edge Cases	5				
<b>TOTAL</b>	<b>27</b>				

**Plus:** All Publisher tests (29) and Reader tests (32) should also pass

**Sign-Off:**

**Tested By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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