

# TH Trade Display Contest & Chiller Management

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## Test Document

System Integration Testing (SIT) & User Acceptance Testing (UAT)

**Prepared for:**

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## Version History

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| Version | Date              | Author       | Description           |
|---------|-------------------|--------------|-----------------------|
| 1.0     | December 15, 2025 | IT W360 Team | Initial test document |

## Test Summary

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| Metric            | Count |
|-------------------|-------|
| Total Test Cases  | 44    |
| Critical Priority | 12    |
| High Priority     | 15    |
| Medium Priority   | 11    |
| Low Priority      | 6     |

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# 1. Introduction

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## 1.1 Purpose

This document defines test cases for the TH Trade Display Contest & Chiller Management application. It covers functional testing, integration testing, and user acceptance testing (UAT).

## 1.2 Scope

| In Scope  | Out of Scope   |
|---|--|
| <ul style="list-style-type: none"><li>• Display Contest workflows</li><li>• Chiller Management workflows</li><li>• User role permissions</li><li>• Power Automate flows</li><li>• Mobile responsiveness</li></ul> | <ul style="list-style-type: none"><li>• Performance/load testing</li><li>• Security penetration testing</li><li>• Third-party integrations</li></ul> |

## 1.3 Test Approach

| Phase                            | Description                                  | Responsible         |
|----------------------------------|--|---------------------|
| SIT (System Integration Testing) | Verify end-to-end workflows and integrations | IT W360 Team        |
| UAT (User Acceptance Testing)    | Business users validate functionality        | CDT, RFOE, TradeOps |
| Regression                       | Re-test after bug fixes                      | IT W360 Team        |

## 2. Test Environment

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### 2.1 Environment Details

| Environment | URL/Details      | Purpose                 |
|-------------|------------------|-------------------------|
| Development | DEV environment  | Developer testing       |
| UAT         | UAT environment  | User acceptance testing |
| Production  | PROD environment | Live system             |

### 2.2 Test Accounts

| Role     | Test User                   | Region |
|----------|-----------------------------|--------|
| Admin    | admin.test@th.nestle.com    | All    |
| Sales    | sales.test@th.nestle.com    | North  |
| RFOE     | rfoe.test@th.nestle.com     | North  |
| TradeOps | tradeops.test@th.nestle.com | All    |
| CDT      | cdt.test@th.nestle.com      | All    |
| Viewer   | viewer.test@th.nestle.com   | All    |

### 2.3 Test Data

| Data Type     | Quantity              | Notes                                 |
|---------------|-----------------------|---------------------------------------|
| Test Shops    | 10 shops per region   | Mix of Semi WS and Local Sup          |
| Test Chillers | 5 chillers per region | Various door counts and budgets       |
| Test Contests | 2 contests            | One per category (Mixes, PSC Premium) |
| Test Images   | Standard set          | Valid JPG/PNG files < 10MB            |

### 3. Test Cases - Authentication & Authorization

#### TC-AUTH-001: Single Sign-On (SSO) Authentication

**Priority:** Critical

**Precondition:** User is signed in to Microsoft 365 with valid Nestle corporate account (@th.nestle.com)

**Test Steps:**

1. Navigate to Power Apps portal or open Power Apps mobile app
2. Select "TH Trade Display Contest" application
3. Wait for app to load (SSO authentication happens automatically)

**Expected Result:** User is automatically authenticated via Microsoft SSO and redirected to loading screen, then to appropriate home screen based on role (no email/password input required)

**Status:** Pending

#### TC-AUTH-002: Role-Based Menu Visibility - Sales

**Priority:** Critical

**Precondition:** User logged in with Sales role

**Test Steps:**

1. Login as Sales user
2. Open navigation menu
3. Verify visible menu items

**Expected Result:**

- Display Contest - Visible
- Chiller - Visible
- Contest (settings) - NOT visible
- Role - NOT visible

**Status:** Pending

### TC-AUTH-003: Role-Based Menu Visibility - Admin

**Priority:** Critical

**Precondition:** User logged in with Admin role

**Test Steps:**

1. Login as Admin user
2. Open navigation menu
3. Verify all menu items are visible

**Expected Result:** All menu items visible: Display Contest, Shop, Contest, Chiller, Role

**Status:** Pending

### TC-AUTH-004: Region-Based Data Filtering

**Priority:** High

**Precondition:** Sales user assigned to North region only

**Test Steps:**

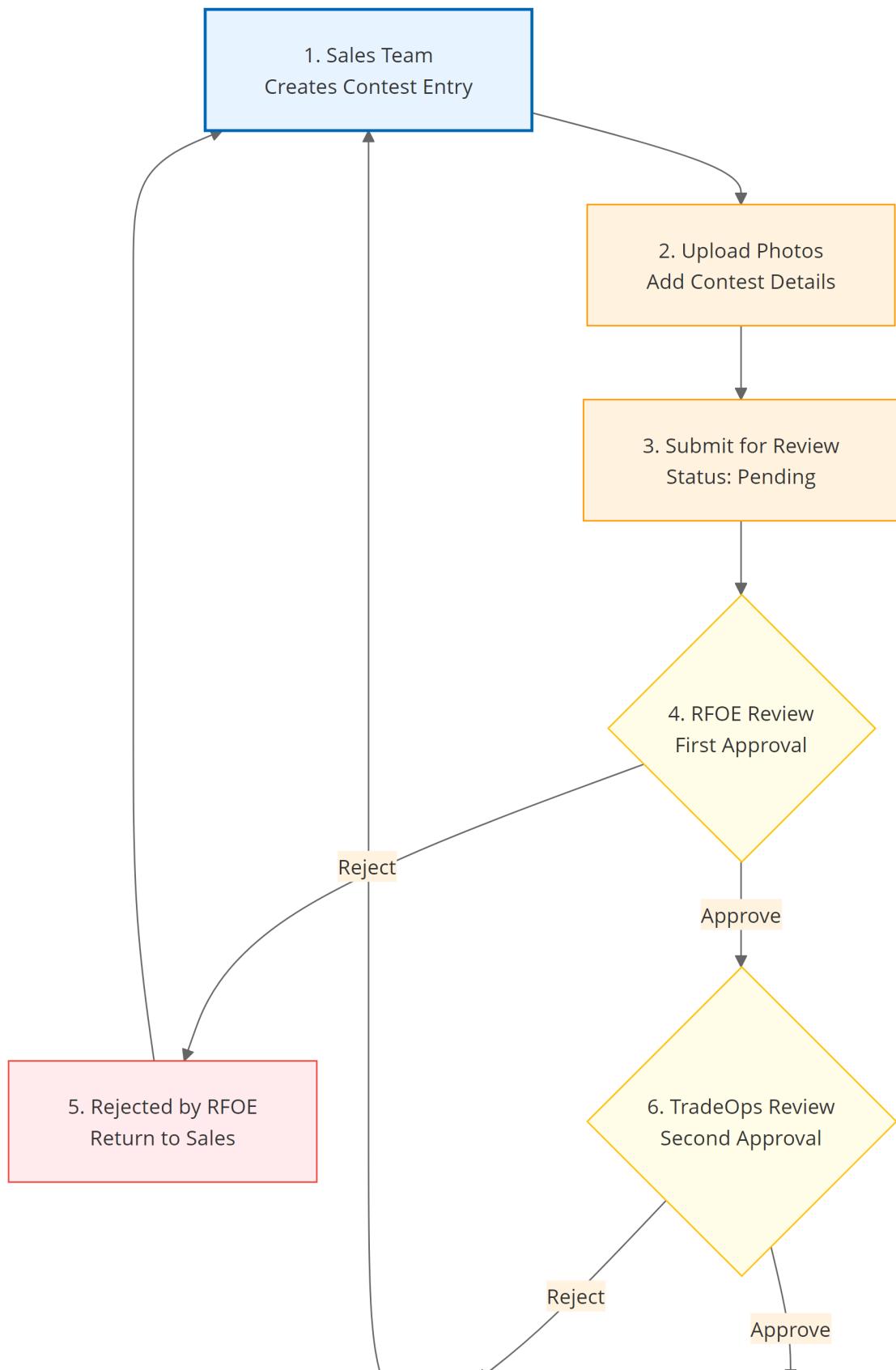
1. Login as Sales user (North region)
2. Navigate to Display Contest
3. View shop list

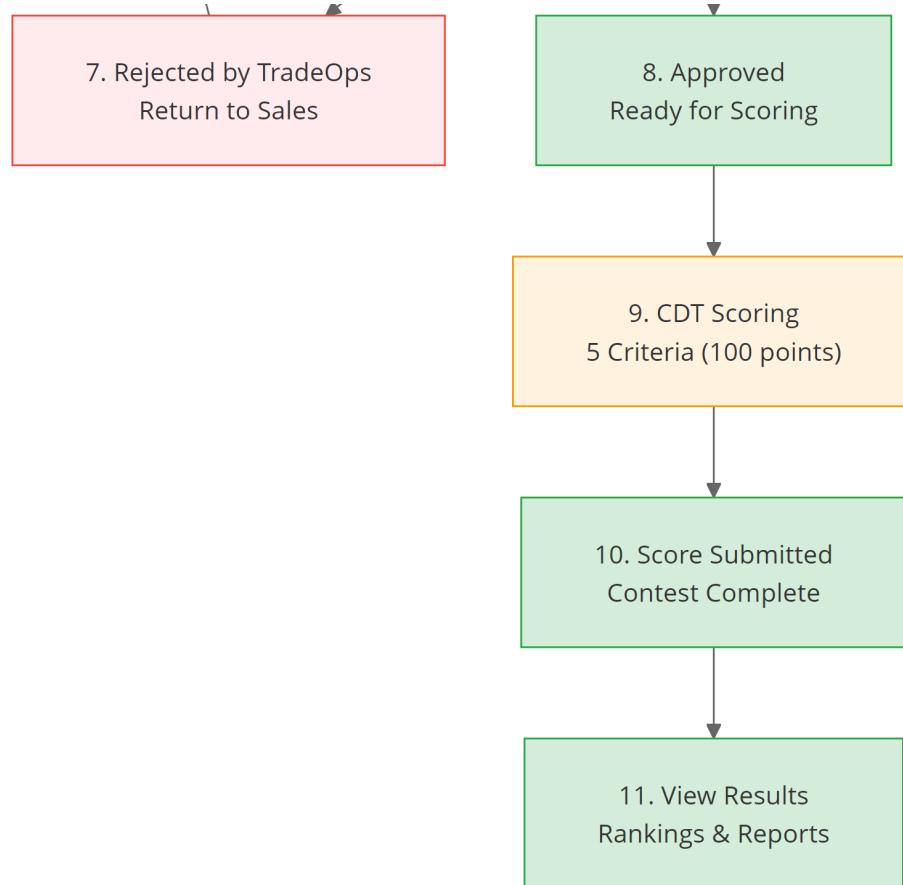
**Expected Result:** Only shops in North region are displayed. Shops from other regions (South, BKK+CE) are NOT visible.

**Status:** Pending

## 4. Test Cases - Display Contest

The following test cases cover the complete Display Contest workflow shown below:





*Display Contest Approval Workflow - Test Coverage Reference*

#### 4.1 Submission Tests

## TC-DC-001: Submit Contest Photos - Complete Submission

**Priority:** Critical

**Precondition:** Sales user logged in, active contest exists

**Test Steps:**

1. Navigate to Display Contest
2. Select a shop from the list
3. Upload photo for "Left Side" (ด้านซ้าย)
4. Upload photo for "Right Side" (ด้านขวา)
5. Upload photo for "Front" (ด้านหน้า)
6. Upload photo for "Overall" (ภาพรวม)
7. Click Submit button

**Expected Result:**

- All photos uploaded successfully to SharePoint
- Submission status changes to "Submitted"
- Success message displayed
- Submission appears in RFOE's pending list

**Status:** Pending

## TC-DC-002: Submit Contest Photos - Validation Error (Missing Photos)

**Priority:** High

**Precondition:** Sales user logged in, active contest exists

**Test Steps:**

1. Navigate to Display Contest
2. Select a shop from the list
3. Upload only 1 photo (e.g., Front only)
4. Click Submit button

**Expected Result:** Validation error displayed: "Please upload photos for all required angles (Left, Right, Front)"

**Status:** Pending

### TC-DC-003: Photo Upload - Invalid File Type

**Priority:** Medium

**Test Steps:**

1. Navigate to Display Contest
2. Select a shop
3. Try to upload a PDF file instead of image

**Expected Result:** Upload is blocked by Power Apps control. Only image files can be selected from the device.

**Note:** The system relies on the native file picker filter - no custom error message is displayed.

**Status:** Pending

## 4.2 Approval Workflow Tests

### TC-DC-004: RFOE Approval

**Priority:** Critical

**Precondition:** Submission in "Submitted" status, RFOE user logged in

**Test Steps:**

1. Login as RFOE user
2. Navigate to Display Contest
3. Filter by "Submitted" status
4. Select a submission
5. Review all photos
6. Click "อนุมัติ" (Approve) button

**Expected Result:**

- Status changes to "RFOE Approved"
- Submission moves to TradeOps queue
- Approval timestamp recorded

**Status:** Pending

## TC-DC-005: RFOE Rejection

**Priority:** High

**Precondition:** Submission in "Submitted" status, RFOE user logged in

**Test Steps:**

1. Login as RFOE user
2. Select a submission to reject
3. Click "ปฏิเสธ" (Reject) button
4. Enter rejection reason
5. Confirm rejection

**Expected Result:**

- Status changes to "Rejected"
- Rejection notification sent to Sales (via Power Automate)
- Rejection reason saved and visible to Sales

**Status:** Pending

## TC-DC-006: TradeOps Approval

**Priority:** Critical

**Precondition:** Submission in "RFOE Approved" status, TradeOps user logged in

**Test Steps:**

1. Login as TradeOps user
2. Navigate to Display Contest
3. Filter by "RFOE Approved" status
4. Select a submission
5. Click "อนุมัติ" (Approve) button

**Expected Result:** Status changes to "TradeOps Approved". Submission now available for CDT scoring.

**Status:** Pending

## 4.3 Scoring Tests

### TC-DC-007: CDT Scoring - Complete Score Entry

**Priority:** Critical

**Precondition:** Submission in "TradeOps Approved" status, CDT user logged in

**Test Steps:**

1. Login as CDT user
2. Navigate to Display Contest
3. Filter by "TradeOps Approved"
4. Select a submission
5. Click on photo to open viewer
6. Enter scores: Creativity=15, Arrangement=35, Equipment=8, Outstanding=18, Stacks=9
7. Click Save/Submit

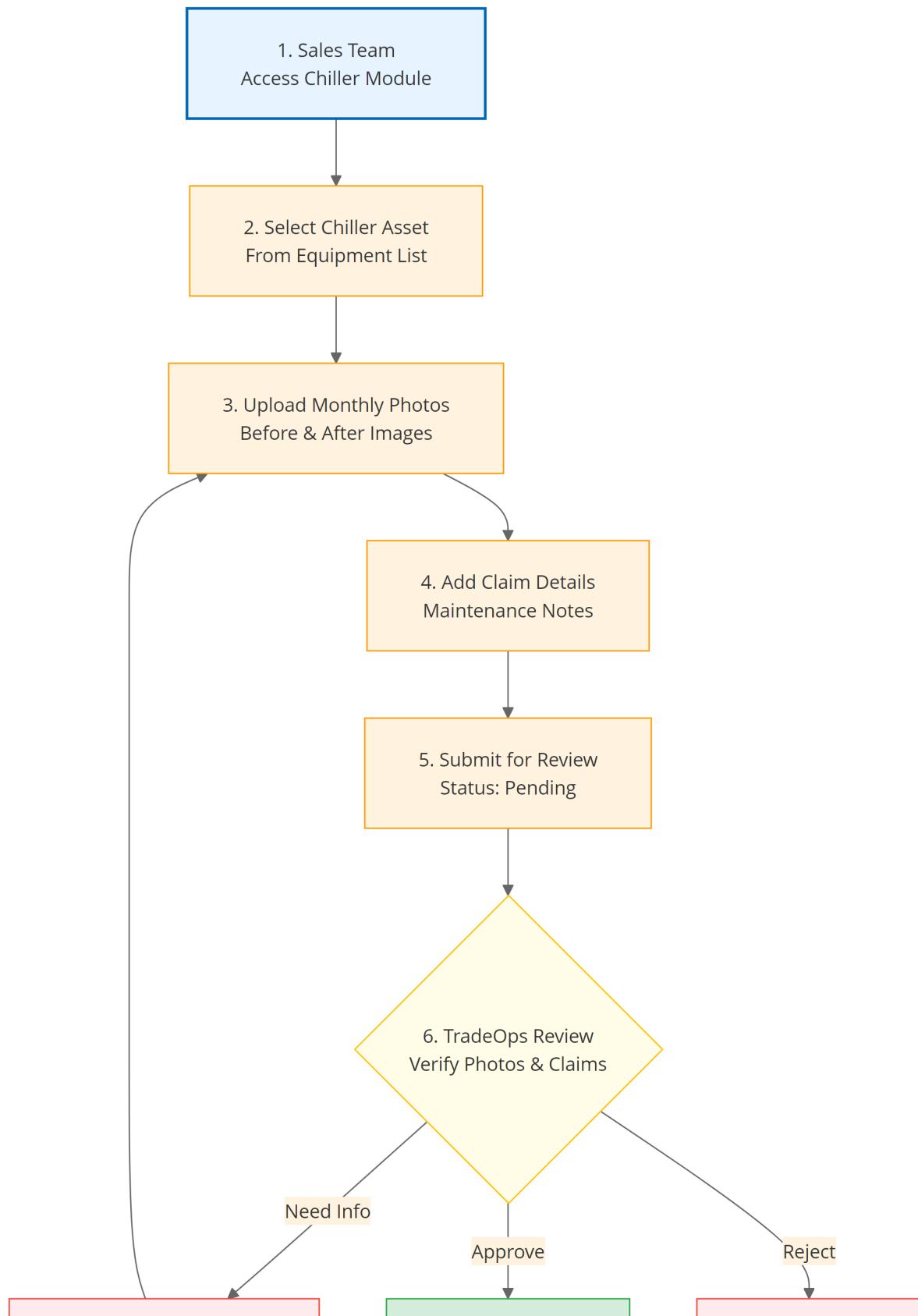
**Expected Result:**

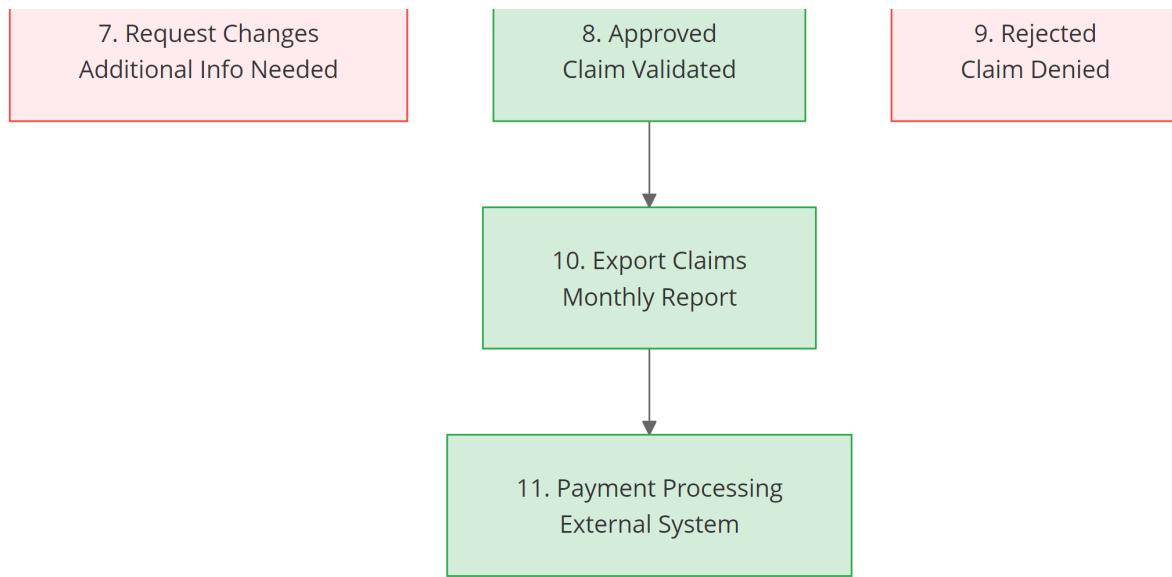
- All scores saved correctly
- Total score calculated: 85
- Status changes to "CDT Submitted"

**Status:** Pending

## 5. Test Cases - Chiller Management

The following test cases cover the Chiller Management workflow shown below:





*Chiller Management Workflow - Test Coverage Reference*

## 5.1 Monthly Photo Upload Tests

### TC-CH-001: Upload Monthly Chiller Photos

**Priority:** Critical

**Precondition:** Sales user logged in, chiller assigned to user's region

**Test Steps:**

1. Navigate to Chiller menu
2. Select current month from filter
3. Select a chiller from the list
4. Click "ເພີ້ມຮູບ" (Add Photo) button
5. Select "Front" photo type
6. Upload front photo
7. Repeat for "Side" photo
8. Enter claim amounts
9. Click Submit

**Expected Result:**

- Photos uploaded to SharePoint
- Claim record created with status "Submitted"
- Amounts saved correctly

**Status:** Pending

## TC-CH-002: Save Chiller Claim as Draft

**Priority:** High

### Test Steps:

1. Navigate to Chiller menu
2. Select a chiller
3. Upload one photo only
4. Click "บันทึก" (Save) instead of Submit

**Expected Result:** Claim saved with status "Draft". Can be edited and completed later.

**Status:** Pending

## TC-CH-003: Chiller Claim Approval

**Priority:** Critical

**Precondition:** Chiller claim in "Submitted" status, TradeOps user logged in

### Test Steps:

1. Login as TradeOps user
2. Navigate to Chiller menu
3. Filter by "Submitted" status
4. Select a claim
5. Review photos and amounts
6. Click "Approve"

**Expected Result:** Status changes to "Approved". Claim ready for export.

**Status:** Pending

## TC-CH-004: Chiller Claim Rejection

**Priority:** High

### Test Steps:

1. Login as TradeOps user
2. Select a submitted claim
3. Click "Reject"
4. Enter rejection reason
5. Confirm

### Expected Result:

- Status changes to "Rejected"
- Rejection notification sent to Sales
- Reason visible in claim details

**Status:** Pending

## 6. Test Cases - Administration

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### 6.1 Shop Management Tests

#### TC-ADM-001: Add New Shop

**Priority:** High

**Precondition:** Admin user logged in

**Test Steps:**

1. Navigate to Shop menu
2. Click "+ Add" button
3. Enter Code: "TEST001"
4. Select Region: "North"
5. Select Channel: "LMT-LNE"
6. Enter Name: "Test Shop"
7. Enter Address: "123 Test Street"
8. Select Shop Type: "Semi WS"
9. Click "Add"

**Expected Result:** Shop created successfully and appears in the shop list

**Status:** Pending

#### TC-ADM-002: Edit Existing Shop

**Priority:** Medium

**Test Steps:**

1. Navigate to Shop menu
2. Select an existing shop
3. Click "Edit" button
4. Modify shop name
5. Click "Save"

**Expected Result:** Shop updated successfully with new name displayed

**Status:** Pending

### TC-ADM-003: Delete Shop with Confirmation

Priority: Medium

**Test Steps:**

1. Navigate to Shop menu
2. Select a shop to delete
3. Click "Remove" button
4. Verify confirmation dialog appears
5. Click "Yes, Delete"

**Expected Result:** Shop deleted and no longer appears in the list

Status: Pending

## 6.2 Role Management Tests

### TC-ADM-004: Assign Role to User

Priority: Critical

**Precondition:** Admin user logged in

**Test Steps:**

1. Navigate to Role menu
2. Click "+ Add User"
3. Select user from dropdown
4. Select role: "Sales"
5. Click "Save"

**Expected Result:**

- Role assignment created
- User appears in role list
- User can now access Sales features on next login

Status: Pending

## 6.3 Contest Configuration Tests

## TC-ADM-005: Configure Contest Prizes

**Priority:** High

### Test Steps:

1. Navigate to Contest menu
2. Select a contest
3. Click "Edit"
4. Modify Prize 1: 25000
5. Modify Prize 2: 15000
6. Modify Prize 3: 10000
7. Click "Save"

**Expected Result:** Prize amounts updated and reflected in contest details

**Status:** Pending

## 7. Test Cases - Power Automate Flows

### TC-FLOW-001: Upload Contest Image Flow

**Priority:** Critical

**Flow Name:** THTradeUploadContestImage

**Test Steps:**

1. Trigger image upload from app
2. Verify flow execution starts
3. Check SharePoint for uploaded file
4. Verify metadata extraction (timestamp, GPS)

**Expected Result:**

- Flow completes successfully
- Image saved to correct SharePoint folder
- Metadata captured in Dataverse record

**Status:** Pending

### TC-FLOW-002: Rejection Notification Flow

**Priority:** High

**Flow Name:** THTradeRejectionNotificationdisplay-contest

**Test Steps:**

1. As RFOE, reject a submission
2. Check flow run history
3. Verify Sales user receives email

**Expected Result:**

- Email sent to Sales user
- Email contains rejection reason
- Email contains link to submission

**Status:** Pending

## TC-FLOW-003: Upload Reminder Flow

**Priority:** Medium

**Flow Name:** THTradeUploadReminder-15thRound1

**Test Steps:**

1. Manually trigger flow (or wait for schedule)
2. Check flow run history
3. Verify recipients received reminder emails

**Expected Result:** Reminder emails sent to all Sales users with pending submissions

**Status:** Pending

## TC-FLOW-004: Export Monthly Claim Flow

**Priority:** High

**Flow Name:** THTradeExportMonthlyClaim

**Test Steps:**

1. Trigger export flow
2. Wait for flow completion
3. Check SharePoint for exported file
4. Open file and verify data

**Expected Result:**

- Excel file generated
- Contains all approved claims for the month
- Data formatted correctly for settlement processing

**Status:** Pending

## 8. Non-Functional Tests

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### 8.1 Responsive Design Tests

#### TC-NF-001: Mobile Responsiveness

Priority: High

Test Steps:

1. Open app on mobile device (iPhone/Android)
2. Navigate through all screens
3. Verify layout adapts correctly
4. Test photo upload on mobile

Expected Result:

- All screens display correctly on mobile
- Navigation menu collapses to hamburger
- Buttons and inputs are touch-friendly
- Photo upload works from camera/gallery

Status: Pending

#### TC-NF-002: Tablet Responsiveness

Priority: Medium

Test Steps:

1. Open app on tablet (iPad/Android tablet)
2. Test in both portrait and landscape orientations
3. Navigate through all screens

Expected Result: All screens display correctly in both orientations with proper spacing and layout

Status: Pending

### 8.2 Browser Compatibility Tests

### TC-NF-003: Browser Compatibility

Priority: Medium

**Test Steps:** Test the application on:

- Google Chrome (latest)
- Microsoft Edge (latest)
- Mozilla Firefox (latest)
- Safari (macOS/iOS)

**Expected Result:** Application functions correctly on all supported browsers without visual or functional issues

Status: Pending

## 8.3 Bilingual Support Tests

### TC-NF-004: Thai Language Display

Priority: High

**Test Steps:**

1. Navigate through all screens
2. Verify Thai text displays correctly
3. Check Thai input in text fields
4. Verify Thai characters in exports

**Expected Result:** All Thai text renders correctly without garbled characters or encoding issues

Status: Pending

## 9. UAT Sign-Off

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### 9.1 Test Execution Summary

| Category                       | Total     | Passed | Failed | Blocked | Not Run |
|--------------------------------|-----------|--------|--------|---------|---------|
| Authentication & Authorization | 4         |        |        |         |         |
| Display Contest                | 7         |        |        |         |         |
| Chiller Management             | 4         |        |        |         |         |
| Administration                 | 5         |        |        |         |         |
| Power Automate Flows           | 4         |        |        |         |         |
| Non-Functional                 | 4         |        |        |         |         |
| <b>TOTAL</b>                   | <b>28</b> |        |        |         |         |

### 9.2 Defects Summary

| Severity | Open | In Progress | Resolved | Closed |
|----------|------|-------------|----------|--------|
| Critical |      |             |          |        |
| High     |      |             |          |        |
| Medium   |      |             |          |        |
| Low      |      |             |          |        |

### 9.3 UAT Sign-Off Checklist

- All critical test cases have passed
- All high priority test cases have passed
- No critical or high severity defects remain open
- All Power Automate flows tested and working
- Mobile responsiveness verified
- Thai language support verified
- User documentation reviewed and approved
- Training materials prepared

## 9.4 Sign-Off Approval

| Role                 | Name | Signature | Date |
|----------------------|------|-----------|------|
| Business Owner (CDT) |      |           |      |
| Project Manager      |      |           |      |
| QA Lead              |      |           |      |
| IT Lead              |      |           |      |

### Document End

For questions about this test document, contact IT W360 - X-Stream Ops.