# Schema Migration Deployment Guide

### Overview

This guide provides instructions for deploying the schema changes where fields have been moved from ORDER forms to POTENTIAL\_SITE forms.

# Files Created/Modified

#### Core Files

```
    order-update.js - Complete update system for orders and potential sites
    config.js - Enhanced with new update forms and schemas
    migration-triggers.js - Automated schema migration system
    trigger-setup.js - Complete trigger management system
    deployment-script.js - Deployment orchestration script
```

# **Deployment Process**

### Step 1: Pre-Deployment Testing

```
// Test deployment readiness
var testResult = testDeployment();
console.log(testResult);
```

### Step 2: Quick Deployment (Recommended)

```
// Run complete deployment with safety checks
var deployResult = quickDeploy();
console.log(deployResult);
```

### Step 3: Manual Deployment (If needed)

```
// Run full deployment process
var deployResult = deploySchemaChanges({
   forceDeployment: false,
   autoRollbackOnFailure: true
});
console.log(deployResult);
```

### Step 4: Force Deployment (Emergency only)

```
// Force deployment bypassing validation
var deployResult = forceDeploy();
console.log(deployResult);
```

# What the Deployment Does

### 1. Pre-Deployment Validation

- Verifies spreadsheet access
- Checks required sheets exist
- Validates configuration integrity
- Confirms necessary permissions

### 2. System Backup

- Creates backup copies of all relevant sheets
- 📋 Creates deployment log sheet

### 3. Schema Migration

- Moves specified fields from ORDERS to POTENTIAL\_SITE\_APPROVALS
- Preserves existing data integrity
- 🕲 Updates form schemas

### 4. Trigger Setup

- Sets up periodic migration checks

### 5. Post-Deployment Validation

- Verifies migration completed successfully
- Confirms triggers are active

#### 6. Form Initialization

- Creates ORDER\_UPDATES sheet
- Sets up proper headers and formatting

### 7. Notifications

- Sends deployment status to administrators
- Includes detailed step-by-step results

# Fields Being Migrated

From ORDERS Schema → To POTENTIAL\_SITE\_APPROVALS Schema:

- 1. Start Building → Start Building
- 2. End Building → End Building
- 3. Project Address → Project Address
- 4. Estimated Quantity → Estimated Quantity
- 5. **Delivery Timeline** → **Delivery Timeline**
- 6. Custom Timeline → Custom Timeline

### **New Update Forms**

### 1. ORDER\_UPDATE Form

- Purpose: Update existing orders with new data
- Fields: All current order fields except the migrated ones
- Triggers: Automatic processing on form submission

### 2. POTENTIAL\_SITE\_UPDATE\_ENHANCED Form

- Purpose: Update potential sites with enhanced data
- Fields: All potential site fields plus the migrated fields
- Triggers: Automatic processing and cross-reference updates

# Monitoring and Maintenance

### **Check Migration Status**

```
// Check if migration is needed
var migrationNeeded = isMigrationNeeded();
console.log('Migration needed:', migrationNeeded);
```

### Manual Migration (If needed)

```
// Run migration manually
var migrationResult = runSchemaMigration();
console.log(migrationResult);
```

### **Setup Triggers Manually**

```
// Setup triggers manually
var triggerResult = setupMigrationTriggers();
console.log(triggerResult);
```

### **View Active Triggers**

```
// List all project triggers
var triggers = ScriptApp.getProjectTriggers();
triggers.forEach(trigger => {
   console.log(`Function: ${trigger.getHandlerFunction()}, Type:
${trigger.getEventType()}`);
});
```

# Troubleshooting

### If Deployment Fails

- 1. Check the error message in the deployment result
- 2. Verify permissions are sufficient
- 3. Ensure all required sheets exist
- 4. Try force deployment if safe to do so

### If Triggers Don't Work

- 1. Check trigger permissions
- 2. Manually run setupMigrationTriggers()
- 3. Verify function names are correct

### If Data is Missing

- 1. Check backup sheets for original data
- 2. Use transferMovedFieldsData() to re-migrate specific data
- 3. Contact system administrator

### **Emergency Rollback**

```
// Attempt rollback (implementation dependent)
var rollbackResult = rollbackDeployment();
console.log(rollbackResult);
```

# Post-Deployment Checklist

- Deployment completed successfully
- All triggers are active
- Update forms are accessible
- Data migration completed without loss
- Notifications sent to administrators
- Test order and potential site updates

- Document any issues or warnings

### **Contact Information**

For deployment issues or questions:

- System Administrator: As configured in CONFIG.NOTIFICATION\_CONFIG
- Business Head: As configured in CONFIG.NOTIFICATION\_CONFIG

### **Notes**

- Always test deployment in a safe environment first
- Keep backup sheets until deployment is fully verified
- Monitor system for 24-48 hours after deployment
- Update documentation if any changes are made