# **Dynamic Action Plans for Experience Cloud - Complete Deployment Guide**

#### **Overview**

This solution enables external guest users to create dynamic action plans through Experience Cloud, which are then synchronized with native Salesforce Action Plans. The system provides a secure, scalable bridge between public-facing forms and internal Salesforce processes.

# Architecture Summary

```
Guest User (Experience Cloud)

↓ [Submits via LWC]

Custom Objects (Bridge Layer)

↓ [Platform Events]

Async Processing (Batch/Queueable)

↓ [Integration Service]

Native Action Plans (Internal Salesforce)
```

# Complete File List

ActionPlanIntegrationService.cls
ActionPlanIntegrationService.cls-meta.xml
ActionPlanEventHandler.cls
ActionPlanEventHandler.cls-meta.xml
ActionPlanSyncBatch.cls
ActionPlanSyncBatch.cls-meta.xml
ActionPlanMonitorController.cls
ActionPlanMonitorController.cls-meta.xml
ActionPlanSecurityUtils.cls
ActionPlanSecurityUtils.cls-meta.xml
│
DynamicActionPlanControllerTest.cls-meta.xml
triggers/
ActionPlanEventTrigger.trigger
ActionPlanEventTrigger.trigger-meta.xml
├ lwc/
LactionPlanMonitor/
actionPlanMonitor.js
actionPlanMonitor.html
actionPlanMonitor.css
actionPlanMonitor.js-meta.xml
permissionsets/
Guest_Action_Plan_Creator.permissionset-meta.xml
customSettings/
Action_Plan_Settingsc.object-meta.xml
labels/
CustomLabels.labels-meta.xml

remoteSiteSettings/
RemoteSiteSettings.remoteSite-meta.xml

# **7** Pre-Deployment Requirements

## **System Requirements**

Component	Requirement
Salesforce Edition	Enterprise or Higher
Experience Cloud	Enabled with available licenses
Sales Cloud	Action Plans feature enabled
Platform Events	Available allocation (min 10/hour)
API Calls	Sufficient daily allocation

## **Enable Required Features**

#### 1. Experience Cloud

Setup → Digital Experiences → Settings → Enable

#### 2. Action Plans

Setup → Feature Settings → Sales → Action Plans → Enable

#### 3. Platform Events

Setup → Platform Events → Allocations → Verify

#### **Development Environment**

- Salesforce CLI v2.0+ installed
- VS Code with Salesforce Extensions Pack
- Git configured
- Sandbox or Developer org ready

# **Deployment Order of Operations**

#### Phase 1: Foundation (Day 1)

#### **Step 1.1: Authenticate to Org**

# # Authenticate to sandbox sfdx auth:web:login -a MyOrgAlias -r https://test.salesforce.com # Verify connection sfdx force:org:display -u MyOrgAlias

#### **Step 1.2: Deploy Custom Objects**

```
# Deploy objects and fields
sfdx force:source:deploy -p force-app/main/default/objects -u MyOrgAlias

# Verify in UI
sfdx force:org:open -p /lightning/setup/ObjectManager/home -u MyOrgAlias
```

#### **Step 1.3: Deploy Platform Event**

#### bash

# Deploy platform event

sfdx force:source:deploy -p force-app/main/default/objects/Action\_Plan\_Event\_\_e -u MyOrgAlias

#### Phase 2: Core Logic (Day 2)

#### **Step 2.1: Deploy Apex Classes**

#### bash

# Deploy all Apex classes

sfdx force:source:deploy -p force-app/main/default/classes -u MyOrgAlias

# Deploy triggers

sfdx force:source:deploy -p force-app/main/default/triggers -u MyOrgAlias

#### **Step 2.2: Run Tests**

#### bash

# Run specific test class

sfdx force:apex:test:run -n DynamicActionPlanControllerTest -r human -u MyOrgAlias

# Run all tests with coverage

sfdx force:apex:test:run -l RunLocalTests -c -r human -u MyOrgAlias

#### Phase 3: User Interface (Day 3)

#### **Step 3.1: Deploy Lightning Web Components**

bash

# Deploy LWCs sfdx force:source:deploy -p force-app/main/default/lwc -u MyOrgAlias

#### **Step 3.2: Deploy Configuration Files**

```
# Deploy permission sets
sfdx force:source:deploy -p force-app/main/default/permissionsets -u MyOrgAlias

# Deploy custom settings
sfdx force:source:deploy -p force-app/main/default/customSettings -u MyOrgAlias

# Deploy labels
sfdx force:source:deploy -p force-app/main/default/labels -u MyOrgAlias

# Deploy remote site settings
sfdx force:source:deploy -p force-app/main/default/remoteSiteSettings -u MyOrgAlias
```

#### Phase 4: Experience Cloud Setup (Day 4)

#### **Step 4.1: Create Experience Site**

- 1. Navigate to Setup → Digital Experiences → All Sites
- 2. Click New
- 3. Choose Build Your Own (Aura)
- 4. Configure:
  - Name: (Action Plan Portal)
  - URL: (actionplans)
  - Template: Build Your Own

# Step 4.2: Configure Guest User

1. Go to Experience Builder	
2. Settings → General	
3. Guest User Profile → View	
4. Enable:	
✓ API Enabled	
☑ View Setup and Configuration	
5. Assign Permission Set: Guest_Action_Plan_Creator	
Step 4.3: Add Components to Pages	
1. In Experience Builder, go to Home page	
2. Drag (dynamicActionPlanBuilder) component	
3. Configure properties:	
Related Object Type: Lead	
Enable CAPTCHA: true	
Phase 5: Configuration (Day 5)	
Step 5.1: Initialize Custom Settings	
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```
// Execute in Anonymous Apex

Action_Plan_Settings__c settings = Action_Plan_Settings__c.getOrgDefaults();

settings.Enable_Auto_Sync__c = true;

settings.Rate_Limit_Per_Hour__c = 5;

settings.Max_Tasks_Per_Plan__c = 20;

settings.Batch_Size__c = 50;

settings.Enable_Email_Notifications__c = true;

settings.Admin_Email__c = 'admin@yourcompany.com';

settings.Experience_Cloud_URL__c = 'https://yourdomain.my.site.com/actionplans';

settings.Enable_CAPTCHA_c = true;

settings.CAPTCHA_Site_Key__c = 'your-recaptcha-site-key';

settings.CAPTCHA_Secret_Key__c = 'your-recaptcha-secret-key';

settings.Data_Retention_Days__c = 90;

upsert settings;
```

#### **Step 5.2: Create Task Templates**

```
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```

```
// Execute in Anonymous Apex
List<Task_Template__c> templates = new List<Task_Template__c>{
  new Task_Template__c(
    Name = 'Initial Contact',
    Description__c = 'Make initial contact with customer',
    Category__c = 'Sales',
    Default_Duration_Days__c = 1,
    Is_Active__c = true,
    Is_Public__c = true,
    Display_Order_c = 10,
    Task_Type__c = 'Call',
    Default_Priority__c = 'High'
  ),
  new Task_Template__c(
    Name = 'Send Documentation',
    Description__c = 'Send required documentation',
    Category__c = 'Sales',
    Default_Duration_Days__c = \frac{2}{2},
    Is_Active__c = true,
    Is_Public__c = true,
    Display_Order_c = 20,
    Task_Type__c = 'Email',
    Default_Priority__c = 'Medium'
  ),
  new Task_Template__c(
    Name = 'Follow Up',
    Description__c = 'Follow up on initial contact',
    Category__c = 'Sales',
    Default_Duration_Days_c = 3,
    Is_Active__c = true,
    Is_Public__c = true,
    Display_Order_c = 30,
    Task_Type__c = 'Call',
```

```
Default_Priority__c = 'Low'
)
};
insert templates;
```

#### Step 5.3: Schedule Batch Jobs

```
apex

// Schedule hourly sync

ActionPlanSyncBatch.ActionPlanBatchScheduler scheduler =
new ActionPlanSyncBatch.ActionPlanBatchScheduler();
System.schedule('Hourly Action Plan Sync', '0 0 * * * ?', scheduler);

// Schedule daily cleanup
ActionPlanEventHandler.ActionPlanScheduler cleanupScheduler =
new ActionPlanEventHandler.ActionPlanScheduler();
System.schedule('Daily Action Plan Cleanup', '0 0 2 * * ?', cleanupScheduler);
```

# Post-Deployment Testing

#### **Test 1: Guest User Access**

- 1. Open incognito browser
- 2. Navigate to: (https://yourdomain.my.site.com/actionplans)
- 3. Verify page loads without login

#### **Test 2: Create Action Plan**

- 1. Enter test user information:
  - Email: test@example.com
  - Name: Test User

- 2. Add 2-3 tasks
- 3. Submit and note reference number

#### **Test 3: Verify Sync**

- 1. Login to Salesforce
- 2. Navigate to App Launcher → Action Plans
- 3. Verify new action plan created
- 4. Check Lead/Contact created with email

#### **Test 4: Monitor Dashboard**

- 1. Add (actionPlanMonitor) component to Lightning App
- 2. Verify metrics display
- 3. Test "Process Pending" button

# Monitoring & Maintenance

#### **Daily Monitoring Tasks**

apex			

```
// Check sync status

SELECT COUNT(Id), Status_c

FROM Custom_Action_Plan_c

WHERE CreatedDate = TODAY

GROUP BY Status_c

// Check for errors

SELECT Id, External_Reference_Id_c, Error_Message_c

FROM Custom_Action_Plan_c

WHERE Status_c = 'Failed'

AND CreatedDate = LAST_N_DAYS:7
```

#### **Weekly Tasks**

- Review sync success rate (target: >95%)
- Check storage usage
- Review security logs
- Update task templates based on usage

#### **Monthly Tasks**

- Clean up logs older than 90 days
- Review and optimize batch performance
- Audit guest user submissions

# **X** Troubleshooting Guide

Issue: Guest User "Insufficient Privileges"

Solution:

```
apex

// Verify permission set assignment

SELECT Id, PermissionSetId, AssigneeId

FROM PermissionSetAssignment

WHERE PermissionSet.Name = 'Guest_Action_Plan_Creator'

AND Assignee.UserType = 'Guest'
```

#### **Issue: Action Plans Not Syncing**

#### Check:

- 1. Platform Event limits: (Setup → Platform Events → Usage)
- 2. Batch job status: (Setup → Apex Jobs)
- 3. Error logs: Query (Action\_Plan\_Submission\_Log\_\_c)

#### **Issue: Rate Limiting Not Working**

#### Verify:

```
apex

Action_Plan_Settings__c settings = Action_Plan_Settings__c.getOrgDefaults();

System.debug('Rate Limit: ' + settings.Rate_Limit_Per_Hour__c);
```

#### Issue: CAPTCHA Not Displaying

#### Check:

- 1. Remote Site Settings active
- 2. CAPTCHA keys in Custom Settings
- 3. Browser console for errors

# Security Best Practices

#### **Data Protection**

- V All inputs sanitized via (ActionPlanSecurityUtils)
- **XSS** protection enabled
- SQL injection prevention
- **V** CSRF token validation

#### **Rate Limiting**

- **V** 5 submissions/hour/email (configurable)
- **V** CAPTCHA required
- V IP tracking enabled

#### **Audit Trail**

- **V** All submissions logged
- Security events tracked
- **V** Error details captured

# Performance Optimization

#### **Batch Processing**

- Default batch size: 50 records
- Scheduled every hour
- Automatic retry for failed records

#### **Governor Limits**

- SOQL queries optimized with selective filters
- Bulk DML operations
- Platform Cache ready (optional)

#### **Page Performance**

- LWC lazy loading
- Minimal server calls
- Client-side validation

# **Support Resources**

#### **Documentation Links**

- Salesforce Action Plans
- Experience Cloud Setup
- Platform Events Guide

#### **Contact Information**

- Technical Support: <a href="mailto:support@yourcompany.com">support@yourcompany.com</a>
- Admin Email: <a href="mailto:admin@yourcompany.com">admin@yourcompany.com</a>

# Version History

Version	Date	Changes
1.0.0	2025	Initial release
1.0.1	TBD	Performance optimizations

1.1.0 TBD Enhanced security features	Version	Date	Changes
	1.1.0	TBD	Enhanced security features

# **License**

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#### **▲** Important Notes:

- 1. Always test in sandbox before production
- 2. Ensure proper backup before deployment
- 3. Configure security settings before going live
- 4. Monitor closely for first 48 hours post-deployment
- **☑ Deployment Complete!** Your Dynamic Action Plans solution is now ready for use.