



**MHHS  
PROGRAMME**  
Industry-led, Elexon facilitated

---

# MHHS ADO Training Guide

## Test Execution

### #1 Executing Test in ADO

---

Document Type - External

December 2024

# MHHS Programme – Executing Tests in ADO

## Change Record

Date	Author(s)	Version	Change Detail
22/09/2023	Karthikeyan Ganesan	0.1	Initial draft
06/10/2023	Karthikeyan Ganesan	1.0	Updates following SRO review
04/03/2024	Karthikeyan Ganesan	2.0	New SIT Functional Test Scenario template added into slide 8 on section 2 and SIT Functional Test Case template added into slide 10, 11 on section 3. New section added for pausing and assigning test cases to new team into slide 14,15,16
26/09/2024	Karthikeyan Ganesan	2.1	New Test Scenario and Test Case template updated, updates to slides 8 & 10
03/10/2024	Karthikeyan Ganesan	3.0	Updates following SRO review
09/12/2024	Karthikeyan Ganesan	3.1	New Section 7 added for Test Case Description
18/12/2024	Karthikeyan Ganesan	4.0	Updates following SRO review

# MHHS Programme – Executing Tests in ADO

## Reviewers

Reviewer	Role	Version
Nicola Farley	MHHS Qualification Manager	1.0
Simon Berry	LDP SI Test Support Manager	1.0, 2.0
Kiran Raj	MHHS SIT Functional Test Lead	1.0, 2.0, 2.1, 3.0, 3.1, 4.0
Heath Thomas	LDP SI Test Support Manager	2.1, 3.0, 3.1, 4.0
Dominic Mooney	LDP SIT Manager	3.1

# MHHS Programme – Executing Tests in ADO

## Document References

Ref no.	Document name	Published
MHHS-DEL1704	MHHS ADO Training Guide #3 Raising a Defect in ADO	03/10/2024
MHHS-DEL1705	MHHS ADO Training Guide #1 Release Management Form	03/10/2024
MHHS-DEL1706	MHHS ADO Training Guide #1 Executing Test in ADO	03/10/2024
MHHS-DEL1703	MHHS ADO Training Guide #2 Defect Status Overview	03/10/2024
MHHS-DEL1707	MHHS ADO Training Guide #1 Creating Queries and Dashboards in ADO	06/10/2023
MHHS-DEL1736	MHHS ADO Training Guide #1 Environments Downtime Form	03/10/2024
MHHS-DEL 1701	MHHS ADO Training Guide #1 Permissions and Access Requests	03/10/2024
MHHS-DEL1796	Defect and Release Management Lifecycle diagram	03/10/2024

## MHHS Programme – Executing Test in ADO

---

Test Plans in ADO allow you to manage and track testing activities. A test plan contains one or more test suites (test scenarios), which are containers for grouping related test cases.

Test Cases, on the other hand, are individual units of testing, describing a specific test scenario that must be performed to verify the functionality of a system or application.

Test cases can also be linked to the respective work item (defect) using the parent/child linking. Together, these three entities provide a comprehensive framework for managing tests and users can generate charts / reports for testing status and outcomes.



**MHHS  
PROGRAMME**  
Industry-led, Elexon facilitated

---

# 1. Filtering the test Cases

---

# MHHS Programme – Filtering the test Cases

Summary - Overview

https://dev.azure.com/MHHSProgramme/MHHS%20Demo

Azure DevOps MHHSProgramme / MHHS Demo / Overview / Summary

MHHS Demo

Private Invite

### About this project

Help others to get on board!

Describe your project and make it easier for other people to understand it.

+ Add Project Description

### Project stats

Period: Last 7 days

Boards

2 Work items created

0 Work items completed

### Members 17

DP JJ SH KG DB KA KA CU



**MHHS  
PROGRAMME**  
Industry-led, Elexon facilitated

---

## 2. ADO Test Scenario Template


---



# ADO Test Scenario Template




TEST SUITE.24170

24170 SITFTS-0050 Create MPAN

 Girish Ligde 0 comments [Add tag](#)

State: In Progress Area: MHHS SIT Functional Master  
Reason: New test suite Iteration: MHHS SIT Functional Master

Updated by Hrishikesh Namade (MHHSProgramme): 11 Sept

[Details](#)   

### Theme

New Connections

### Description

Create an MPAN through new connection process, appoint services and install meter & Energise the MPAN

### Boundaries

Processing ends once the Meter is Installed (if not Unmetered) and Energisation has occurred

### Test Case Variables

- (1) Smart, import+export, forward-dated (MPAN Creation current date)
- (2) Traditional, single MPAN, forward-dated (MPAN Creation current date)
- (3) Advanced Single MPAN, forward-dated (MPAN Creation current date)
- (4) Unmetered, single MPAN, forward-dated (MPAN Creation current date)


### Notes/Guidance

[Click to add Notes/Guidance](#)

### Exception Codes

NA

### Discussion

 *Add a comment. Use # to link a work item, ! to link a pull request, or @ to mention a person.*

### Classification

Functional Category  
**Create MPAN**  
Functional Area 1  
**New Connection**  
Functional Area 2  
**New MPAN, New Connection successful**  
Creator  
**Shaun Magee, Dan Gee**  
Priority  
**High**  
Scenario size  
**Large**  
Business Process  
BP001, BP002, BP003, BP010B(Related), BP010C (Linked), BP009, BP008, (+BP003A for Smart m...  
Design Document Ref  
  
Mapped Requirements  
  
Pre-Requisites



**MHHS  
PROGRAMME**  
Industry-led, Elexon facilitated

---

## 3. ADO Test Case Template

---

# ADO Test Case Template (1 of 2)

TEST CASE 34323\*
✕

34323 SITFSTS-0090 TC01 Smart Metered

Rohini Deshmukh (MHHSProgramme) 0 comments [Add tag](#)

State: Design

Reason: New

Area: MHHS SIT Functional Master

Iteration: MHHS SIT Functional Master

Updated by Alastair Hay: 17 Sept

**Test Case Reference**

Test Case Reference  
SITFSTS-0090 TC01

**Test Scenario Ref**

SITFSTS-0090 Appoint MS - failed

**Test Case Description (1/2)**

Test Case Title	Step No.	Business Process	BP Step	Traceability Requirement	Service Producing Trigger	Input/Trigger
SITFSTS-0090 - Smart Metered Initial Registration New MPAN creation - Start	1	BP001	5	MHHS-BR-LD-010.1 MHHS-BR-LD-010.2	LDSO	DB01
	2	BP001	40 41	MHHS-BR-RS-089 MHHS-BR-RS-090 MHHS-BR-RS-091 MHHS-BR-RS-091.1 MHHS-BR-RS-091.2 MHHS-BR-RS-092 MHHS-BR-RS-093 MHHS-BR-RS-093.1	REGS	IF-050
	3	BP001	42		DIP	PUB-050
	4	BP001	43	MHHS-BR-EES-016.3	DIP	PUB-050

**Test Case Description (2/2)**

[Click to add Test Case Description \(2/2\)](#)

**Test Preconditions**

**Related Work**

+ Add link ▾

[Add an existing work item](#) as a parent

**Classification**

Priority Grouping

Test Phase / Cycle  
Cycle 2 - SIT-F

Test Case Points

Meter Type  
Smart Meter

MPAN Type  
Import/Export

Effective time  
forward-dated (MPAN Creation current date)

Test Case Version  
0.5.2

**Roles**

CSS  
EES  
Helix  
LDSO  
MDS  
REGS  
SDS  
SMS  
Supplier

**Multiple MPAN Types**

[Click to add Multiple MPAN Types](#)

**Out of Scope**

Out of Scope  False

Reason

**Test Case Status**

Passed with Observations  False

Reason

Passed with Workaround  False

Reason

Blocked  False

Reason

Not Applicable  False

Reason

**Test Assurance**

Evidence  False

Test Assurance Status  
Pending

Test Assurance Fail Reason

# ADO Test Case Template (2 of 2)

TEST CASE 23979

23979 SITFTS-0150 TC01- Smart Import DS Chg

Aman Shimpi (MHHSProgramme) 0 comments Add tag

Steps

Rich text editor toolbar: Bold, Italic, Underline, Link, Unlink, Text color, Background color, Undo, Redo, Bulleted list, Numbered list, Indent, Outdent, Text background color, Text color, Bold, Italic, Underline.

Steps	Action	Expected result	Attachments
1.	BP003 - 10,20 Sender - SUPC Receiver - DIP Evidence - Y SUPC sends IF-031 to DIP for a DS Appointment for Import MPAN	http 202 response from DIP	
2.	BP003 - 30 Sender - DIP Receiver - REGS Evidence - N DIP sends PUB-031 to REGS		
3.	BP003 - 40 Sender - DIP Receiver - REGS Evidence - Y REGS receives PUB-031 - Supplier Service Appointment Request	REGS receives PUB-031 DSApp with details of Data Services Appointment and confirms the supplier service appointment request from the Supplier successfully updates on downstream systems. Capture test evidence in the form of logs / screenshots from downstream systems/apps.	
4.	BP003 - 45 Sender - REGS Receiver - DIP Evidence - Y REGS sends IF-032 - Supplier Service Provider Appointment Request Response to the DIP.	http 202 response from DIP	
5.	BP003 - 50 Sender - DIP Receiver - SUPC Evidence - N DIP sends PUB-032 - Supplier Service Provider Appointment Request Response to the Supplier.		
6.	BP003 - 55 Sender - DIP Receiver - SUPC Evidence - Y Supplier receives PUB -032 - Supplier Service Provider Appointment Request Response and waits for Acceptance	Supplier receives PUB-032 DSAppInitialResp with details of Data Services Appointment Initial Response and confirms Supplier Service Provider Appointment Request Response and waits for acceptance successfully updates on downstream systems. Capture test evidence in the form of logs / screenshots from downstream systems/apps.	

In the Steps field:

- Action column is the step information and action the user needs to perform within each step:
  - The first line identifies the Business Process ID along with the Business Process step
  - The second line identifies the Sender
  - The third line identifies the Receiver
  - The fourth line identifies if evidence is required or not
  - The fifth line is the action for that step.
- Expected Result is the outcome the user should expect for that step
- Attachments is any evidence required for that step



**MHHS  
PROGRAMME**  
Industry-led, Elexon facilitated

---

## 4. Executing Test in ADO - Pass

---

# MHHS Programme – Executing Test in ADO ( Pass)

The screenshot shows the Azure DevOps web interface for a project named "MHHS Demo". The browser address bar shows the URL: <https://dev.azure.com/MHHSProgramme/MHHS%20Demo>. The breadcrumb navigation is: MHHSProgramme / MHHS Demo / Overview / Summary.

The left sidebar contains the following navigation items: Overview, Summary (selected), Dashboards, Wiki, Boards, Repos, Pipelines, Test Plans, and Artifacts. At the bottom of the sidebar is "Project settings".

The main content area is titled "MHHS Demo" and includes a "Private" status indicator and an "Invite" button. The "About this project" section contains the text: "Help others to get on board! Describe your project and make it easier for other people to understand it." Below this text is a button labeled "+ Add Project Description" and an illustration of a person running on clouds.

The "Project stats" section shows a dropdown menu for "Period: Last 7 days" and two metrics: "Boards" with 2 work items created and 0 work items completed.

The "Members" section shows 17 members, with the first seven represented by colored circles: DP, JJ, SH, KG, DB, KA, and CU.



---

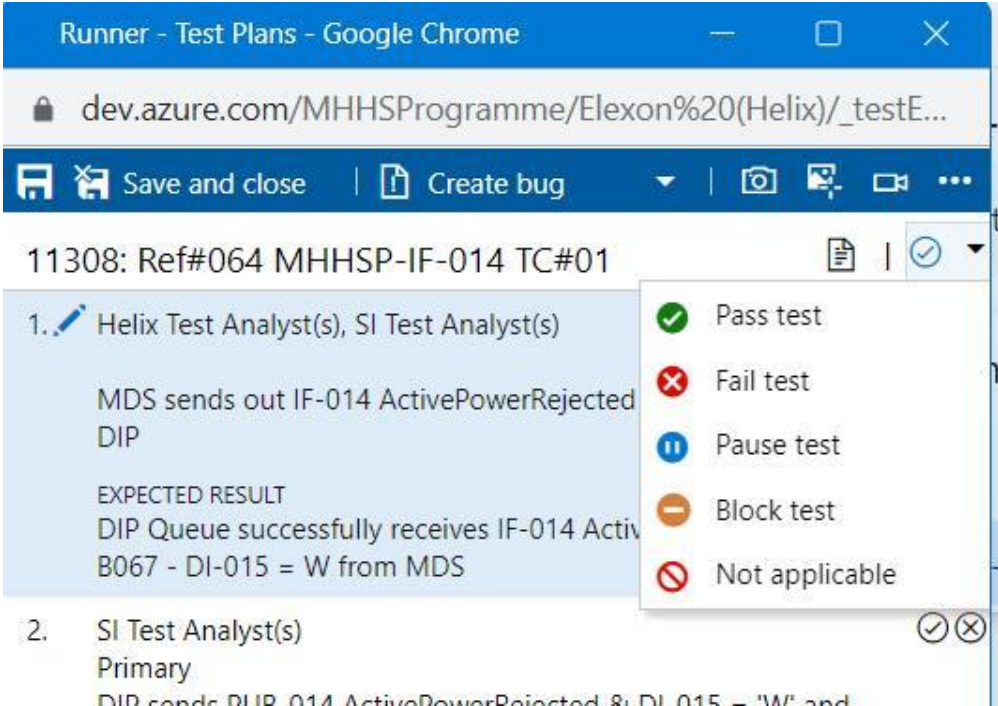
## 5. Executing test in ADO - Pausing the test case and assigning to a different PP/user

---

# Executing Tests in ADO: how we can pass tests back and forth cleanly

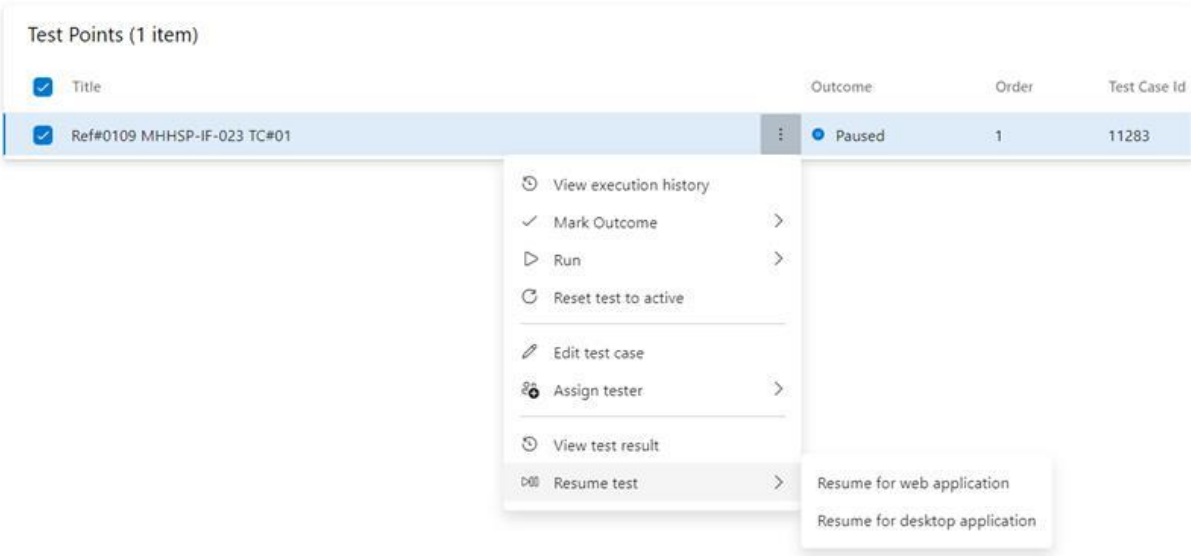
## When you run tests in ADO and want to pass it over to another team to continue:

- 1. Before you Save and close, use the drop down on the right and select 'Pause test' (see below)
- 2. Once you have Paused the test you can Save and close
- **TIP:** This will stop the test going into a failed state and allow teams to pass tests back and forth adding evidence and passing steps correctly



## When you are resuming a test that:

- 1. Click the 3 dots
- 2. Select -> resume test
- 3. Select -> resume for web application





# Executing Tests in ADO: how to assign a 'Paused test' to another team

**When you have paused a test, and want to hand it over the test case to the next Participant team to execute in the business process under test, you can do this by:**

- 1. Highlighting the test case to be handed over in the Test Plan area
- 2. Open the menu by **Clicking the 3 dots**
- 3. Go to the **Assign Tester** option
- 4. **Select the participant Market Role** you want to assign the test case to as per the next steps in the test case
- 5. You will then be able to see the allocated **participant Market Role** in the test plan Execute list view of Cohort test cases (which can also be filtered by Market Role(s) if needed)

NOTE – All PP Market Roles that are in your Cohort will be available from the drop-down list. In the case of paired cohort ADO instances, you will be able to select the PP Market Role identifying by your main cohort.

Title	Outcome	Order	Tester	Test Case Id
TEST CASE 1	Paused	1	COHORT A - SUP	24636
TEST CA...	Paused	2	COHORT B - SUPI	24637
TEST CA...	Passed	3	COHORT A - ADS	24638
TEST CA...	Blocked	4	COHORT A - SUP	24639
TEST CA...	Failed	5	COHORT A - SUP	24640



**MHHS  
PROGRAMME**  
Industry-led, Elexon facilitated

---

## 6. Executing Test in ADO – Raising Defect for failed test case

---

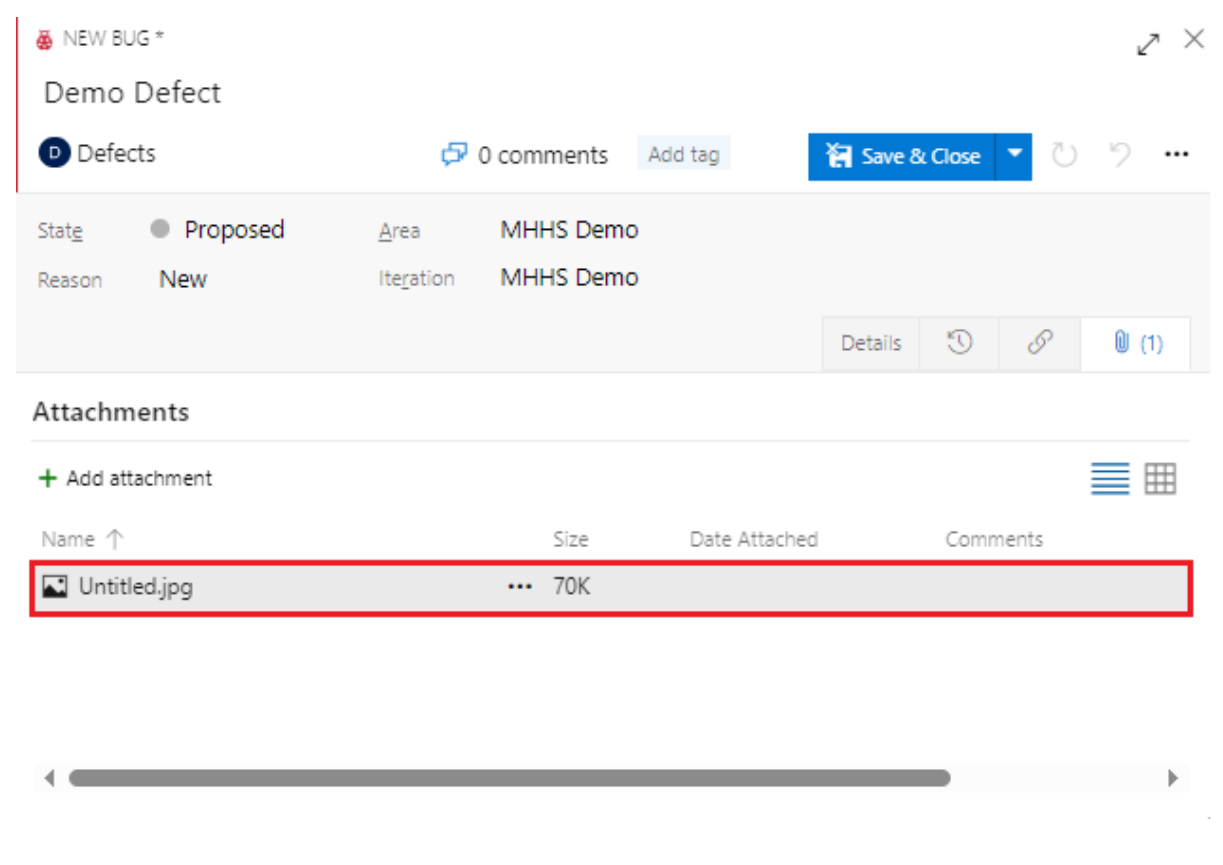
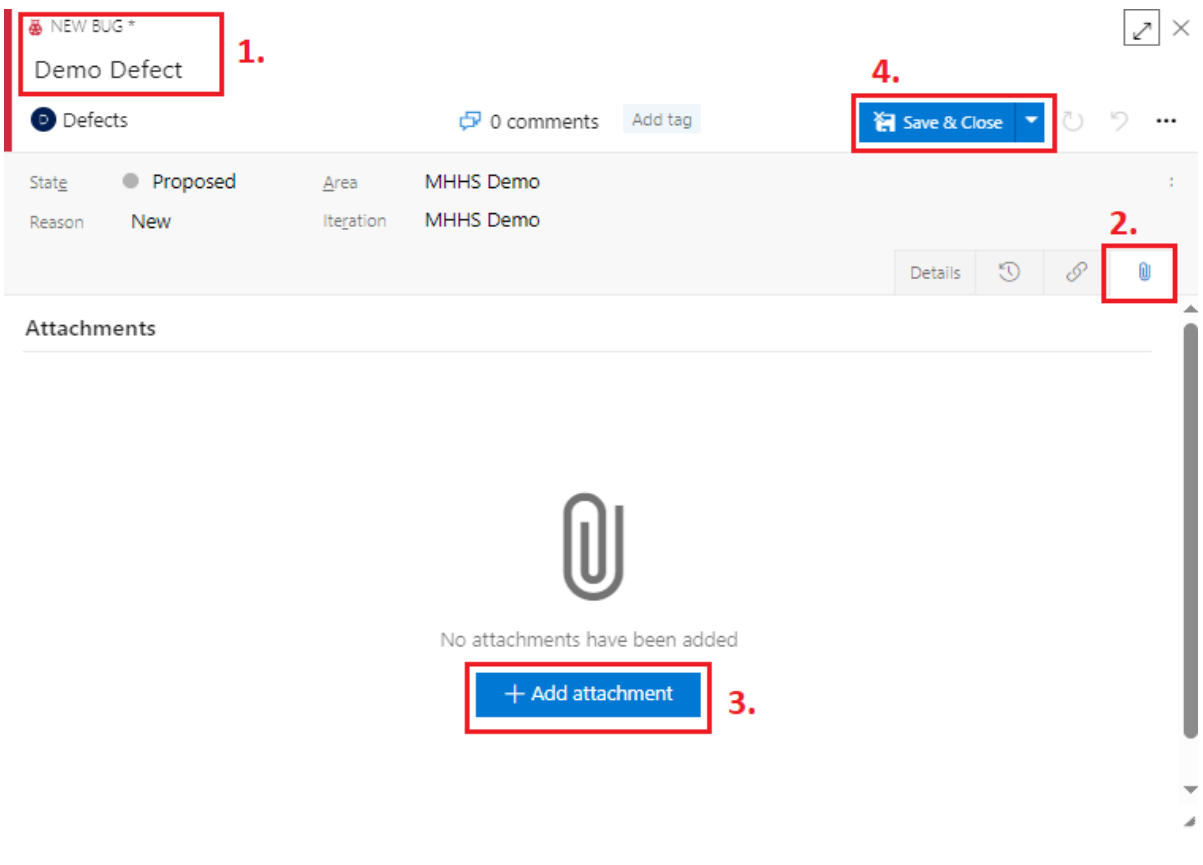
# Executing Test in ADO – Raising Defect for failed test case

The screenshot shows the Azure DevOps interface for a project named 'MHHS Demo'. The browser address bar shows the URL: <https://dev.azure.com/MHHSProgramme/MHHS%20Demo>. The page title is 'Summary - Overview'. The breadcrumb navigation is 'MHHSProgramme / MHHS Demo / Overview / Summary'. The left sidebar contains the following navigation items: Overview, Summary, Dashboards, Wiki, Boards, Repos, Pipelines, Test Plans, and Artifacts. The main content area is titled 'MHHS Demo' and includes a 'Private' status and an 'Invite' button. The 'About this project' section contains the text 'Help others to get on board! Describe your project and make it easier for other people to understand it.' and an 'Add Project Description' button. The 'Project stats' section shows '2 Work items created' and '0 Work items completed' for the 'Last 7 days' period. The 'Members' section lists 17 members with their initials in colored circles: DP, JJ, SH, KG, DB, KA, KA, CU.

# Executing Test in ADO – Attaching Evidence to a Defect

When a test case fails, and a defect is raised. The below are steps to attach an evidence for the defect :

1. Ensure the evidence is being attached to the correct Defect
2. Click on the attachment icon from the Defects template
3. Click on 'add attachment' to attach an evidence
4. Once the appropriate evidence is attached, click on 'Save & Close' to complete the process of attaching evidence





---

## 7. Test Case Description - Accessing Test Case/ Test Scenario links from Test Case Description

---

## Test Case Description - Accessing Test Case/ Test Scenario links from Test Case Description

### Problem Statement:

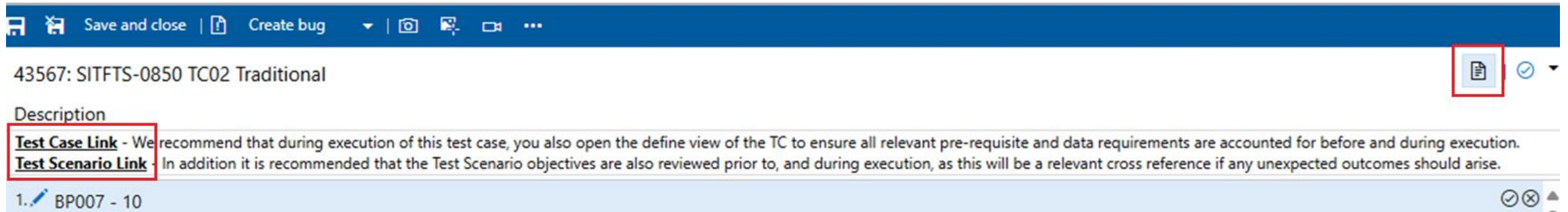
In the Cycle 2 Retrospective, Participants fed back that During Test Case execution, key information regarding the Test objective, test pre-requisites and data requirements is not visible in the ADO Execute view, consequently leading to invalid defects and test restarts occurring

### Improvement Context:

The fact that both the ADO define and execute views can be opened simultaneously during execution does not have good awareness within the MHHS ADO user community

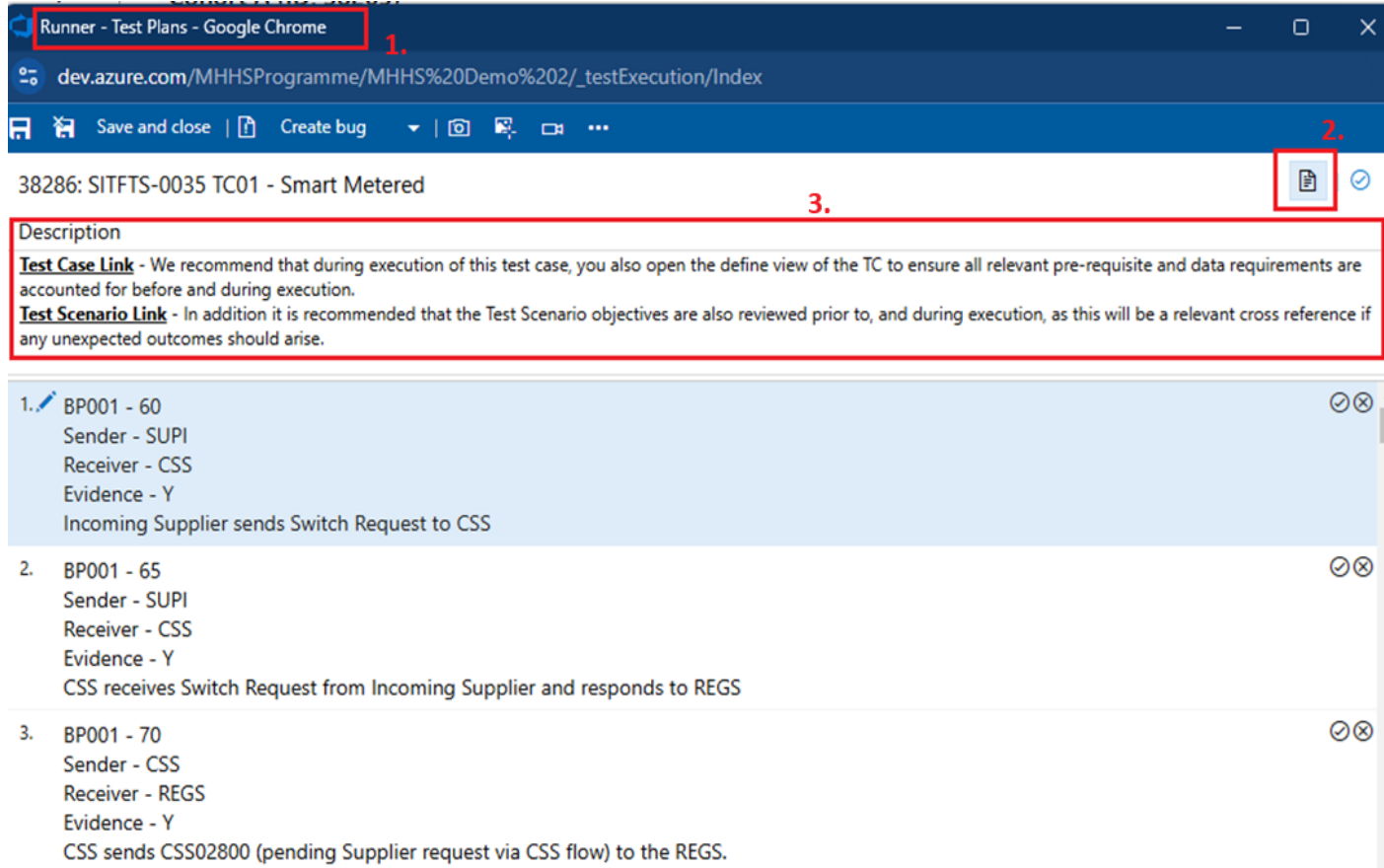
### Summary of Solution:

The programme has sought to improve the accessibility and visibility of this information for users from within the ADO Execute view, by providing clickable Links to both the associated Test Case and Scenario details accessible to users to open when in the Execute view



The screenshot shows the ADO Execute view for a test case. The top bar is blue and contains the text "Save and close" and "Create bug" with various icons. Below the bar, the test case ID "43567: SITFTS-0850 TC02 Traditional" is displayed. A red box highlights a document icon in the top right corner. Below the ID, the word "Description" is followed by two lines of text: "Test Case Link - We recommend that during execution of this test case, you also open the define view of the TC to ensure all relevant pre-requisite and data requirements are accounted for before and during execution." and "Test Scenario Link - In addition it is recommended that the Test Scenario objectives are also reviewed prior to, and during execution, as this will be a relevant cross reference if any unexpected outcomes should arise." A red box highlights the "Test Case Link" and "Test Scenario Link" text. At the bottom, the text "1. BP007 - 10" is displayed with a red box around it.

# Execute View



The below are the steps to navigate to a Test Case or Test Scenario during execution:

1. Open the Test Case on Execute Runner Window
2. Click on the 'Description' icon to expand the field
3. Click on the Test Case Link or Test Scenario Link to open the respective Test Case and Test Scenario on a new window

# Test Case Description – Execute View

**Test Case Reference**

Test Case Reference  
SITFTS-0035 TC01

**Test Scenario Ref**

SITFTS-0035 Change of supplier and DS, no change of MS

**Test Case Description (1/2)**

Test Case Title	Key Journey Events	Step No.	Business Process	BP Step	Traceability Requirement	Service Producing Trigger	Imp
SITFTS-0035 - Smart Metered	Change of Supply - Start	1	BP001	60	N/A	SUPI	CSS
		2	BP001	65	N/A	SUPI	CSS
		3	BP001	70	MHHS-BR-RS-005	CSS	CSS

**Related Work**

Add link

Add an existing work item as a parent

**Classification**

Priority Grouping

Test Phase / Cycle  
Cycle 3 - SIT -F

Test Case Points

Meter Type  
Smart Meter

MPAN Type  
Single MPAN

Effective time  
Forward-dated

Test Case Version  
0.5.3

**Roles**

CSS  
DCC

**Execute window**

38286: SITFTS-0035 TC01 - Smart Metered

**Description**

**Test Case Link** - We recommend that during execution of this test case, you also open the define view of the TC to ensure all relevant pre-requisite and data requirements are accounted for before and during execution.

**Test Scenario Link** - In addition it is recommended that the Test Scenario objectives are also reviewed prior to, and during execution, as this will be a relevant cross reference if any unexpected outcomes should arise.

- BP001 - 60  
Sender - SUPI  
Receiver - CSS  
Evidence - Y  
Incoming Supplier sends Switch Request to CSS
- BP001 - 65  
Sender - SUPI  
Receiver - CSS  
Evidence - Y  
CSS receives Switch Request from Incoming Supplier and responds to REGS
- BP001 - 70  
Sender - CSS  
Receiver - REGS  
Evidence - Y  
CSS sends CSS02800 (pending Supplier request via CSS flow) to the REGS.
- BP001 - 70  
Sender - CSS  
Receiver - REGS  
Evidence - Y  
Registration Service receives pending Supplier request via CSS flow.
- BP001 - 75  
Sender - REGS  
Receiver - DIP  
Evidence - Y  
REGS sends IF-002 to the DIP  
EXPECTED RESULT  
http 201 response from DIP
- BP001 - 75  
Sender - DIP  
Receiver - SUPI  
Evidence - N  
DIP sends PUB-002 to the Incoming Supplier  
EXPECTED RESULT  
PUB-002 Sent to new Supplier in order to obtain all relevant information to successfully set up the site in all systems and determine correct Service provider

The details of the Test Case and the Test Scenario can be viewed in a separate window simultaneously during execution.



# Define View

The screenshot shows the Azure DevOps interface for the 'MHHS SIT Functional Master' project. The breadcrumb path is 'Test Plans / SITF Cycle 3 - All Cohorts'. The left sidebar has 'Test Plans' highlighted with a red box and the number '1.'. The central pane shows a tree view of test suites, with 'Cohort A - Sprint 8 (24)' selected and highlighted with a red box and the number '2.'. The right pane shows a list of test cases, with 'SITFSTS-0900 TC01 Traditional to Smart Meter Exchange' selected and highlighted with a red box and the number '4.'. The bottom pane shows the details of the selected test case, with the 'Summary' tab selected and highlighted with a red box and the number '5.'. The 'Description' tab is also highlighted with a red box and the number '6.'. The description text is: 'Test Case Link - We recommend that during execution of this test case, you also open the define view of the TC to ensure all relevant pre-requisite and data requirements are accounted for before and during execution. Test Scenario Link - In addition it is recommended that the Test Scenario objectives are also reviewed prior to, and during execution, as this will be a relevant cross reference if any unexpected outcomes should arise.'

## Below are the steps to access the Test Scenario Link from Define View of a Test Case:

1. From the 'MHHS SIT Functional Master' project, click on Test Plans
2. From the Test Plans navigate to the respective Cohort folder
3. Click on Define View
4. Double click the Test Case
5. From the Test Case template, navigate to the Summary page
6. On the Summary Page you will find the links to the Test Scenario and the Test Case