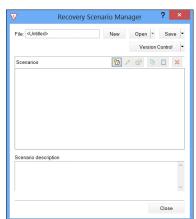


We can use a recovery scenario to handle the pop-up dialog, and this way, we will not have to refer to it in our code. The recovery scenario mechanism is a trap for the events we define as interfering with our test, which we call exceptions.

How to do it...

Proceed with the following steps:

 From the home page of UFT, navigate to Resources | Recovery Scenario Manager. A dialog with the same title will open. Here, in the scenario frame, click on the New scenario button on the lefthand side of the toolbar:

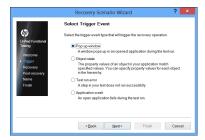


The Recovery Scenario Wizard window will then open up:

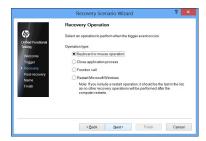


As it explicitly states, this wizard will guide you through the process of defining a recovery scenario for an unexpected event that needs to be handled, as it impedes your test from proceeding as planned. The wizard goes through four main stages.

First, we define the trigger event that interrupts the test run, which can be the appearance of an unexpected pop-up dialog, an object state, an unhandled test run error, or an application crash, as shown in the following screenshot:



 Next, we specify the recovery operations required to continue, which can be a key board or a mouse operation, by closing an application process, calling a custom function, or even restarting windows.



For the sake of this example, we selected **Keyboard or mouse operation**, and pressed the *Enter* key. The operation is added to the list, as shown in the following screenshot:



Please note that leaving the Add another recovery operation checkbox marked allows for repetition of this step. If you need only a single recovery operation, then uncheck the checkbox:



5. Next, is a post-recovery test run operation, which is related to UFTs built-in runtime mechanism and tells the tool what to do after the recovery operations are executed. It is imperative to analyze the requirement thoroughly for each particular case, because the options UFT offers would easily fail unless proper care is taken to ensure that test preconditions are kept. For example, there is no point in proceeding to the next test or Action iteration if the required application context is not guaranteed to show up at the start of the iteration. The following screenshot shows various post-recovery test run options:

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ne Post-Recovery Test Run Options are:

Repeat current step and continue: Actually, it is a retry
mechanism, which raises the question of what would happen
in the case of a recurring error. As no exit condition is
provided, an infinite loop of error-recovery-retry-error is a
real risk. The same procedure can be rewritten as a loop that
repeats the error-causing statement (or block of code) until
the error is eliminated. The code is as follows:

```
On Error Resume Next

'Statement that raises error

Do While Err.Number <> 0

'Statement that handles error

'Statement that raises error

Loop
```

 Proceed to next step: This test will attempt to execute after the step that gave rise to the error. The code equivalent of this option is the error-handling structure:

```
On Error Resume Next

'Statement that raises error

If Br.Number \diamondsuit 0 Then
'Statement that handles error

End If

'The next statement
```

Note

Our test will still fail if the recovery operation does not succeed, or if it does, but for some reason the exact application context fit for the next step is not reached (for example, we handled a pop-up dialog by closing it, but the application opened another one or reopened the same pop-up as it reflected a real problem in the application, such as a script exception as is common on the Web).

- Proceed to next action or component iteration: This
 option allows you to run the next action or component
 iteration. As previously mentioned, we must ensure that the
 problem is specific to the case we have run, and that our
 recovery procedure, together with the iteration initialization,
 produces the initial conditions required for the next iteration
 to run.
- Proceed to next test iteration: This option allows you to run the next iteration and ensures that the recovery scenario

(for example, closing the application or terminating its process) and the test iteration initialization always produce the conditions for the test to begin running from the first step (for example, opening the application, logging in, and so on).

- Restart current test run: This option allows you to restart
 the current test run. Some isolated glitches might cause a
 nonconsequential exception, which can be resolved by
 rerunning the test. However, if it is due to a real bug or
 some substantial infrastructure problem (for example, the
 server going down), then this will be to no avail.
- Stop the test run: This option allows you to stop the test run, but it enables analysis of the problem without having to review the effects of the exception on the next steps, hence allowing us to focus
- Next, we enter descriptive information about the scenario. Name the scenario and save it for future use as shown:



So far, we have used the step names exactly as they appear on serves:

Define the trigger event that interrupts the test run

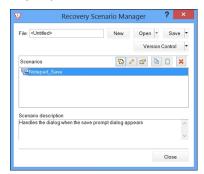
Specify the recovery operations required to continue

Choose a post-recovery test run operation

 Next, clicking on the Next button will lead to the following finish screen, in which we will check the option Add scenario to current test:



Now, click on Finish, which will return to the Recovery Scenario
 Manager dialog box:



We will then save the scenario to a file by clicking on Save. The resulting QRS file will then be available to all relevant tests.

How it works...

The recovery scenario that we define will be loaded in memory and activated, unless we choose to deactivate it by unloading the attached

ORS file or by using the following code:

Recovery.Enabled = False

We can set a recovery scenario to be activated on every step or on the occurrence of an error. A warning must be given here, as the first option may carry high costs regarding the performance of the test.

The test will run normally, while in parallel, the recovery mechanism will monitor to check whether the trigger event or events defined in our recovery scenarios actually occur. If they do, then the associated recovery procedure will be called into Action, and after its execution, the post-recovery operation, such as skipping to the next step, restarting the test run, or any of the other options detailed in the previous section, will be carried out.



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