CAPS Test Suite:

!!!Make sure you delete entries in PYTHONPATH, PYTHON HOME, and PATH before you start testing!!!

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Description of tests in order:

CHECK EDITING CONFIG.PY:

just do the tests below with the config file pointing to a non-standard directory

JUST LAYERS:

tests loading and deleting raster and vector layers

CHECK DLGSCENARIOTYPES AND OPEN EDITING FILES AND BASE LAYER FILES:

tests if the correced base layers, constraints layers are loaded in proper order.

BASIC SCENARIO MENU CHECK

tests the basic scenario menu functions

CHECK ADD POINTS (also good for lines and polygons)

tests adding points/lines/polygons

CHECK COPY PASTE

tests copy and paste

CHECK TOOL SELECT

tests select tool behavior

CHECK SNAPPING OF NEW ROADS

tests snapping constraints checking and pasting constraints checking

CHECK SAVE SCENARIO AS:

tests save scenario as

CHECK SCENARIO IO ERRORS

tests scenario open in another app

CHECK SCENARIO MENU WITH EDITS:

tests cancel, save and discard in "Save Scenario" dialog

CHECK DISCARD EDITS:

test discarding edits

CHECK SCENARIO MENU MESSAGE BOXES:

tests save, cancel and discard dirty scenario

CHECK MODIFYING FEATURES ON A BASE LAYER

checks modify feats on a base layer

CHECK MODIFY FEATURES ON AN EDITING LAYER:

tests modify feats on an editing layer

CHECK PROJECT MANAGEMENT AND SFTP UPLOAD

Tests reading, writing, validating, isDirty and sftp functions

TEST EVERY READ/WRITE OCCURANCE IN THE APP WITH THE FILE OPEN

IN ANOTHER APP, WITH THE FILE NOT EXISTING ETC.

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JUST LAYERS:

Are buttons right on loading?

Click empty legend: any problems?

Load vector: are buttons right?

Delete vector in legend: does app go back to initial state?

Load raster: are buttons right?

Delete raster in legend: does app go back to initial state?

Load vector again: are buttons right?

Load raster with the vector: are buttons right?

Delete the raste and the vector: are the buttons right? is the selection right in the legend?

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CHECK DLGSCENARIOTYPES AND OPEN EDITING FILES AND BASE LAYER FILES:

start with new scenario and click edit scenario and choose a scenario edit type(SET)

are the editingLayer and baseLayer names correct and highlighted?

Is the color of the features in the base layer correct?

are the constraints layers loaded

save the scenario

start with the three editing layers open and drag another layer above them. click "edit scenario,” choose a SET

are the editingLayer, baseLayer and constraints layer names correct and highlighted?

Is the color of the features in the base layer correct?

does the editing layer get moved to the top of the layer list?

try for all editing types

save the scenario

start with the three editing layers, base layers and another layer above them and choose a new SET

are the editingLayer, base layer and constraints layer names correct and highlighted?

Is the color of the features in the base layer correct?

does the editLayer and the baseLayer get moved to the top of the layer list?

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BASIC SCENARIO MENU CHECK

Open a scenario" buttons OK?

Open a different scenario: buttons OK?

Make a change to open scenario (i.e. load layer)

Save scenario

Open a different scenario: should NOT get message

Open the previous scenario: Is the added layer there? Buttons OK?

Add another layer and click "Save Scenario As"

save the scenario with the same name

are buttons OK"

Click "New Scenario": should NOT get message

are buttons OK?

Open the previous scenario: is the added layer saved?

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CHECK ADD POINTS, LINES, POLYGONS

Chose a point scenario edit type (SET) and select the point editing layer. Does add points appear?

are selection buttons on? (they shouldn't be except for "Select Features")

deselect Edit Scenario: does Add Points disappear? are buttons right?

select Edit Scenario and chose a SET: does Add Points appear? are buttons correct?

Choose another edit scenario type: do I get any messages? (I shouldn't)

open a a raster layer: do I get any messages? (I shouldn't) Are add points deselected?, are all other buttons correct?

Select the points edit layer, and add a point: try to ‘open a scenario’ ? do I get prompted (I should)

click cancel: is selection correct in layer panel?

is my added point still there? are all buttons in the proper state?

select a ‘save scenario as’ and click discard: are the button states correct?

are my edits deleted?

select a point editing layer, make an edit and select manage projects.

click Yes: are my edits saved? Do I get ‘save scenario’ msg? click yes, are button states correct?

open remaining point SETs, add points and click the select button:

are symbols correct (square for dam, circle for culvert, diamond for ter crossing, star for tidal rest)

delete one added point: do I get a message box? (I should just get the delete message), are button states correct

select the second point and deselect it: do I get a message? I shouldn't are button states correct:

add another point and save the scenario: do I get a save edits message? I should. Select cancel.

click ‘new scenario’: do I get prompted? I should. Cancel and select open vector, do I get prompted? Shouldn’t

click ‘export scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Click ‘edit scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Make an edit to the edit\_scenario(points) layer.

select a raster layer and click ‘new scenario’ do I get msg? I shouldn’t. Choose to discard edits and click cancel in the

‘save scenario’ dialog. Is my point deleted?

remove a layer: do I get a message? I shouldn’t, remove a layer: remove a layer:

try to delete the edit\_scenario(points) layer. Do I get a message? I should. Click ‘no’ is everything the same?

try to delete the edit\_scenario(points) layer. Do I get a message? I should. Click ‘yes’ is everything the same?

close the app: do I get prompted to save? I should

click cancel: does the app stay open?

close the app: click discard, does the app close ok?, any open windows?

open the app, make a point edit, close the app and choose save: does the app close ok?

open the editing layer: is the edit that you saved there?

Make each of the three point edit types: is there a different symbol for each type?

Open the vector attribute table. Are the entries correct?

Chose a line scenario edit type (SET) and select the line editing layer. Does add lines appear?

are selection buttons on? (they shouldn't be except for "Select Features")

deselect Edit Scenario: does Add Lines disappear? are buttons right?

select Edit Scenario and chose a SET: does Add Lines appear? are buttons correct?

Choose another edit scenario type: do I get any messages? (I shouldn't)

open a a raster layer: do I get any messages? (I shouldn't) Are add lines deselected?, are all other buttons correct?

Select the lines SET, and add a line: try to ‘open a scenario’ ? do I get prompted (I should)

click cancel: is selection correct in layer panel?

is my added line still there? are all buttons in the proper state?

select a ‘save scenario as’ and click discard: are the button states correct?

are my edits deleted?

select a line editing layer, make an edit and select manage projects.

click ‘Save’: are my edits saved? Do I get ‘save scenario’ msg? click ‘Save’, are button states correct?

open line SETs, add lines and click the select button:

delete one added line: do I get a message box? (I should just get the delete message), are button states correct

select the second line and deselect it: do I get a message? I shouldn't are button states correct:

add another line and save the scenario: do I get a save edits message? I should. Select cancel.

click ‘new scenario’: do I get prompted? I should. Cancel and select open vector, do I get prompted? Shouldn’t

click ‘export scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Click ‘edit scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

select a raster layer and click ‘new scenario’ do I get msg? I shouldn’t.

choose ‘save scenario as’ and discard in the ‘save scenario’ dialog. Is my line deleted?

remove a layer: do I get a message? I shouldn’t, remove a layer: remove a layer:

try to delete the edit\_scenario(lines) layer. Do I get a message? I should. Click ‘no’ is everything the same?

try to delete the edit\_scenario(lines) layer. Do I get a message? I should. Click ‘yes’ is everything the same?

close the app: do I get prompted to save? I should

click cancel: does the app stay open?

close the app: click discard, does the app close ok?, any open windows?

open the app, make a line edit, close the app and choose save: does the app close ok?

open the editing layer: is the edit that you saved there?

Open the vector attribute table. Are the entries correct?

Chose a polygon scenario edit type (SET) and select the polygon editing layer. Does add polygons appear?

are selection buttons on? (they shouldn't be except for "Select Features")

deselect Edit Scenario: does Add Polygons disappear? are buttons right?

select Edit Scenario and chose a SET: does Add Polygons appear? are buttons correct?

Choose another edit scenario type: do I get any messages? (I shouldn't)

open a a raster layer: do I get any messages? (I shouldn't) Are add polygons deselected?, are all other buttons correct?

Select the polygons edit layer, and add a polygon: try to ‘open a scenario’ ? do I get prompted (I should)

click cancel: is selection correct in layer panel?

is my added polygon still there? are all buttons in the proper state?

select a ‘save scenario as’ and click discard: are the button states correct?

are my edits deleted?

select a polygon editing layer, make an edit and select manage projects.

click Yes: are my edits saved? Do I get ‘save scenario’ msg? click yes, are button states correct?

open remaining polygon SETs, add polygons and click the select button:

delete one added polygon: do I get a message box? (I should just get the delete message), are button states correct

select the second polygon and deselect it: do I get a message? I shouldn't are button states correct:

add another polygon and save the scenario: do I get a save edits message? I should. Select cancel.

click ‘new scenario’: do I get prompted? I should. Cancel and select open vector, do I get prompted? Shouldn’t

click ‘export scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Click ‘edit scenario’ click cancel: does everything stay in the same state? selection correct in the layer menu?

Make an edit to the edit\_scenario(polygons) layer.

select a raster layer and click ‘new scenario’ do I get msg? I should. Choose to discard edits and click cancel in the

‘save scenario’ dialog. Is my polygon deleted?

remove a layer: do I get a message? I shouldn’t, remove a layer: remove a layer:

try to delete the edit\_scenario(polygons) layer. Do I get a message? I should. Click ‘no’ is everything the same?

try to delete the edit\_scenario(polygons) layer. Do I get a message? I should. Click ‘yes’ is everything the same?

close the app: do I get prompted to save? I should

click cancel: does the app stay open?

close the app: click discard, does the app close ok?, any open windows?

open the app, make a polygon edit, close the app and choose save: does the app close ok?

open the vector layer: is the edit that you saved there?

Open the vector attribute table. Are the entries correct?

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CHECK TOOL SELECT

Choose a point SET and click toolSelect: are buttons right?

click clear selelection: do I get msgBox? (I should), are buttons still right?

click delete selection: do I get msgBox?, are buttons still right?

Are copy selection and paste selection grayed out? They should be.

Make a selection on the points base layer and click clear selelection: do I get msgBox? (I shouldn't)

are buttons still right? is selection cleared?

is select features button deselected? (it shouldn't be)

Open a test points layer, open Vector Attribute table, make a selection and click delete selection:

do I get msgBox? (I should), are buttons still right?

Click ‘OK’ is selection deleted?, did attribute table update?

is the select features button deselected? (it should be)

choose zoom to layer extent from the legend context menu: did the extents update properly?

make a selection: any messages? there shouldn't be

Save the scenario and close the app: did you get a message? you shouldn't,

Open the app, open the scenario, choose a SET, make a selection, close the app and click discard, any problems?

open a test vector, make a selection, close the app and click cancel

does the app stay open? it should

With a vector layer selected, delete some layer:

are buttons correct for the newly selected layer?

try both vector and raster new selections

Select a vector layer, make a selection and remove some layer:

Do I get a msg box? (I shouldn't ),

Make a selection and click all other buttons: do things work properly?

select a raster and click all other buttons: do things work properly?

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CHECK COPY PASTE

select a test vector layer, make a selection and click copy: does selection get cleared? (it should)

is select button deactivated (it should be), are buttons right?

select another vector layer: does anything happen? (it shouldn't) are buttons right?

select a raster layer: do I get a msgBox? (I shouldn’t), are buttons right

click Add Raster: do I get a msgBox? (I should not), is the layer loaded? (it should be)

choose a layer other than the SET layer type, click paste: do I get a message? I should, are all buttons correct?

click Add Vector: do I get a msgBox? (I shouldn't)

choose the editing layer for the current SET, click paste: are the features pasted into the layer?, are the buttons right?

If you got a failed constraints msg, choose 2 test points on a stream and paste. Are the features pasted? Are buttons right?

make a selection, choose another nonpoint vector layer and click paste:

do I get a msgBox? (I should)

make a selection, click copy and remove a layer: do I get msg box? (I should not)

is select button deactivated? is selection cleared, is the layer removed?

click the Edit Scenario button: do I get a message box? I should get prompted to save edits. Click cancel

Click the ‘save edits’ button and click the ‘Edit Scenario’ button. Should not get msg.

make a selection, click copy and remove the layer you are working on:

do I get a msgbox? (I should not)

make a selection, click copy and click the "toggle edit" button

do I get a messagebox? (I shouldn’t), choose another SET, is the copy deleted? It should not be.

Can you paste the edits as the current SET ?

make a selection, click copy, save edits and save the scenario and close the app: do I get a message? (I shouldn't )

open a vector layer, make selection, click delete: click cancel in the msg box is everything OK?

is the select button still depressed? (it should be), are buttons ok?

make a selection and click delete: do I get a message box? (I should). Click ‘OK’

are the features deleted?

click cancel: is the select tool still on? (it should be)

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CHECK SNAPPING OF NEW ROADS

open a 'Add roads' scenario edit type and try adding a new road not on an existing road.

Do I get an error message? I should

Add a road that starts on an existing road. Does it work? It should

Add a road that starts near but not on a new road. If too far, do I get error? I should.

Add a road that starts near a new road. Does it snap to new road? Do I get error? I shouldn't.

Add another road that starts near a new road. Does it snap to new road? Do I get error? I shouldn't.

Add at least one new road that crosses a stream.

Open a lines 'test' layer and try copying and pasting a new road not on an existing road. Should get error.

Copy and paste one new road on and one new road off an existing road. Should get error.

Copy and paste 3 new roads on existing road. Did they paste? They should

Check the attribute table. Are all fields correct?

open a terrestrial passage scenario edit type and add not on a road or new road. Do I get error? I should.

Add a terr passage on a new road. Do I get error? Does it snap to new road?

Open a points 'test' layer and copy and paste a terr passage not on a road. Should get error.

copy and paste one on and one off a road. Should get error.

copy and paste 3 new ter passages on roads. Should work. Do I get error?

open a bridge culvert scenario edit type and add a point not on a new road or stream.

Do I get an error? I should.

Add a point on a new road but not on a stream. Do I get an error? I should.

Add a point on a new road and on a stream.

Do I get an error? I shouldn't. Is the point snapped to the new road?

open a points 'test' layer and copy and paste a culvert not on a stream. Should get error.

copy and paste one on and one off a stream. Should get error.

copy and paste 3 new culverts on streams. Should work

open a dam scenario edit type and add a dam not on a stream. Do I get an error? I should.

Add a dam on a stream centerline. Does it work? It should

open a points 'test' layer and copy and paste a dam not on a stream. Should get error.

copy and paste one on and one off a stream. Should get error.

copy and paste 3 new dams on streams. Should work

open a tidal restriction scenario edit type and try to add not on a stream. Do I get error? I should.

Add a tidal restriction on a stream. Does it work? It should.

open a points 'test' layer and copy and paste a tr not on a stream. Should get error.

copy and paste one on and one off a stream. Should get error.

copy and paste 3 new trs on streams. Should work

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CHECK SAVE SCENARIO AS:

Open the app. Is the Save Edit button active? It should be. Remove the layers one by one until there are no layers.

Does the ‘Save Edits’ button stay active? It should. Save the scenario as s6.cap

Click ‘New Scenario’. Does the ‘Save Edit’ button become active? It should. Save the scenario as s1

Is the ‘Save Edits’ button grayed out? It should be. Remove a layer. Is the ‘Save Edits’ button active? It should be.

Click ‘Save Scenario As’ and choose Discard and Save the scenario as s7. Does scenario S1 have all 5 layers?

It should. Open s7, does it have 4 layers? It should

open the app, save the scenario as s1. Does the directory get created?, the caps file?

click "New Scenario" and reopen. Is everything correct?

Click ‘new scenario’ and click ‘save scenario as’ and cancel. Everything OK?

Click ‘Save Scenario’ again and save as s1. Did you get the ‘Save As’ dialog? You should.

Click ‘save scenario as’ save as s2. Directory created? Caps file created?

Open a new vector file and click ‘Save Scenario As’. Cancel the dialog. Everything the same? It should be.

Click ‘Save Scenario As’ and ‘discard’ in the ‘Save Scenario’ dialog. Now save the scenario with a new name, s3.

Open the scenario s2 you discarded. Is the vector layer missing? It should be. Open the scenario s3 you saved. Is the vector missing? It should be.

Make an edit to the scenario. Click ‘Save Scenario As’ and cancel in ‘Save Edits’. Everything OK

Click ‘Save Scenario As’ and click ‘Discard’ in the ‘Save Edits’ dialog. Now click cancel in the ‘Save Scenario’ dialog. Are the edits gone? They should be.

Make another edit, click ‘Save Scenario As’ and click ‘save’ in the ‘Save Edits’ dialog. Click ‘Cancel’ in the ‘Save Scenario’

Dialog. Is the edit there? Should be.

Click ‘Save Scenario As’ and ‘Discard’ in the ‘Save Scenario’ dialog and save as s4. Open the old s3 scenario. Is the editing

layer gone? Are base layers or other added layers gone? They should be. Open the new s4 scenario. Is the editing layer gone? Are base layers or other added layers gone? They should be. From the scenario

s3 and s4 directories as well?

add a all 3 scenario type edits to editing shapefiles, save the scenario as with the same name,

Click "new scenario" then reopen, are the layers correct with edits? are the shapefiles in the directory?

export the scenario, export it again to check for overwrite problems

save this scenario with a new name 's2'. Are the editing layers copied? is the export scenario copied?

add a layer, and overwrite the old scenario s1. are the layers correct?, the editingfiles? the export file?

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CHECK SCENARIO IO ERRORS

Open a scenario. Any error messages?

New scenario. any messages?

Open a scenario, add layer and save. message? No

Open the same scenario in Word and save in CAPS. message Yes.

Add layer to scenario, close Word, save file. message? No

Save the scenario with another name. message? No,

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CHECK SCENARIO MENU WITH EDITS

Load a SET, make edit and click on "New Scenario"

should get save edits message try cancel file dialog, everything OK?

click on ‘open scenario’ choose save edits should get save scenario msg.

Choose ‘discard’, and cancel the ‘open scenario dialog’,

the editing layer should be removed in the legend and file system.

Note that we are still in editing mode but there is no editing layer to edit.

The “add points, lines etc.” is active but this does not seem to cause any problems.

Things are reset when choosing a new SET.

Reopen the unsaved scenario

everything OK? Buttons?, scenario same?

Load 2 SETS and make edits in each and click on "Open Scenario":should get message

try cancel, click ‘save scenario as’ save and edits and cancel file dialog. Everything OK

Save the scenario, choose new scenario and Reopen saved scenario everything OK? Buttons?, scenario same?

Load another SET so you have point, line and polygon editing layers, make edit and click on "Open Scenario": get message

click discard edits. Buttons OK?

Try to export the scenario and don’t save the scenario. Then try ‘new scenario.’ Get ‘save scenario” msg. you should

Choose ‘discard.’ Is the editing layer deleted in both the legend and file system? It should be.

Load another Set make edit and click on Exit: should get message. try cancel, everything OK?

Chose exit again, save edits and discard scenario, does app close? Is last SET editing layer removed from file system?

Reopen the app and the last scenario. Last SET and edits gone?

Load another Set make edit and click on Exit: should get message. Save edits and save scenario.

Reopen the app and the last scenario. Everything saved?

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CHECK DISCARD EDITS (01/31/12)

make some point edits and save and then make some more point edits, click save scenario and discard

are correct points discarded? is save button OK, are symbols ok?

make some point edits and save and then make some more point edits, make another layer the active layer,

click open scenario, discard and cancel.

are correct points discarded? is save button OK?

delete base layer features and save, then delete some more, click open scenario, discard and cancel

are correct points discarded? is save button OK?

delete base layer features and save, then delete some more, make another layer the active layer, click open scenario, discard and cancel

are correct points discarded? is save button OK?

modify base layer features and save, then modify some more, click save scenario as, discard and cancel

are correct points discarded? is save button OK?

copy some points from a "paste points" layer and paste into the editing layer and save, copy some more

click edit scenario, discard and cancel

are correct points discarded? is save button OK?

delete a point on the paste points layer. is everything OK?

Look at the attribute table. Is everything OK?

make some line edits and save and then make some more line edits, click save scenario as, discard the edits,

discard the scenario and save with a new name. Reopen both scenarios. Are the edits and editing layers gone?

They should be.

make some line edits and save and then make some more line edits, click save scenario as, discard the edits,

but save the scenario and save with a new name. Reopen both scenarios. Are the edits and editing layers present?

They should be

are correct lines discarded? is save button OK?

make some line edits and save and then make some more line edits, click save scenario as, save the edits,

and save the scenario and save with a new name. Reopen both scenarios. Are the edits and editing layers present?

They should be. Check the attribute table for correct entries.

delete a line on the paste lines layer. is everything OK?

copy some lines from a "paste lines" layer and paste into the editing layer and save, copy some more

click close app, discard. Reopen app.

are correct lines discarded? is save button OK?

make some polygon edits and save and then make some more polygon edits and discard.

are correct polygons discarded? is save button OK?

copy some points from a "paste polygons" layer and paste into the editing layer and save, copy some more and discard

are correct polygons discarded? is save button OK?

delete a polygon on the paste points layer. is everything OK?

Check the attribute table.

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CHECK MODIFYING/DELETING FEATURES ON A BASE LAYER

select 4 points on a points base layer, click modify, modify the points,

are the features modified?, are all buttons correct, are the symbols correct?

select 4 points on a points base layer, click modify, modify 3 points, click cancel, click yes

are the features modified (they shouldn't be)?, are all buttons correct, symbols correct?

select 4 points on a points base layer, click modify, modify 3 points, click cancel, click no and continue

are the features modified (they should be)?, are all buttons correct?

Select a point on any remaining SETS and modify. Are symbols correct?

Look at attribute table. Things OK?

Delete some features on the base layer. Everything OK?

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CHECK MODIFYING/DELETING FEATURES ON AN EDITING LAYER:

open all 7 sets and make a few edits on each, select 3 edits and click modify features, modify the features.

are the features modified?, are all buttons correct, are the symbols correct?

do the same for lines and polygons.

select 3 points edits, click modify, modify two features(clear console), cancel and select "yes"

are 2 of the three modified, are symbols correct (they should be)?, are all buttons correct?

select 3 points edits, click modify, modify two features, cancel and select no then finish modifying

are the original features changed (they shouldn't be), are all buttons correct, are symbols correct?

open the points editing layer in QGIS and modify edits. What happens? The edit is made. close QGIS and save the edit.

We get no error and the features are changed in CAPS.

Delete some features on the editing layer. Everything OK?

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CHECK PROJECT MANAGEMENT AND SFTP UPLOAD

Click “New Scenario,” open the manage projects dialog and save a project.

Open project management (pm) dialog. Do widgets have correct messages? Are scenario exports displayed?

Can you move scenario exports back and forth?

Try to save the project. Get validation error? You should.

Fill in one field at a time and save. Get appropriate validation errors?

Save a project without an export file and try to send. Correct validation error?

Add csv files and save. Is file in file system and in projects drop down list?

Create another project. Did appropriate "Create project" msg display?

Open first project. Display ok?

Delete one of the csv files in the project from the file system and open the project. Should get error.

Send the first project. Successful send? Is date sent filled in? Did 'sending' msg show?

Remove the date manually and resend. Should get error message. Is date sent filled in? Should not be.

Add the send date back manually. Try to save a project with the same name as the "sent" project. Should get error.

Open the sent project and try to edit. Should not be able to.

Make an edit to a "new project" and try to open another project. Get isDirty msg? You should.

Open an unsent project and try to edit a different field and then try to display another project.

Should get message.

Try to edit a project and 'cancel' the dialog. Should get isDirty msg.

Try to delete a sent project. Should get msg.

Try to delete an unsent project. Is it missing from the file system?

Try to edit a scenario that has been sent. Can I do it? YES!. Should I do anything about that? Maybe rename them as ‘sent’? I don’t think so. They can edit sent scenarios, but the program doesn’t need to be foolproof. I’ll warn users about file management in the manual.

Open the sftp dialog.

Try to change all SFTP settings and save. Reopen the dialog. Did it work?

Set settings back. Did it work?

DONE!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!