



# The Software Fixture

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## What does the Software Fixture do?

The software fixture provides to the tester the schematic representation of the hardware fixture.

- It provides the proper RF path definitions to which calibration data can be passed and saved.
- It also provides proper configuration settings for any RF switches or signal processing modules that may exist in the fixture.
- The type of calibration required for each DUT Pin Interface is also defined by the software fixture.
- Proper standard calibration routines for each fixture created can also be defined.



# Real Time Example

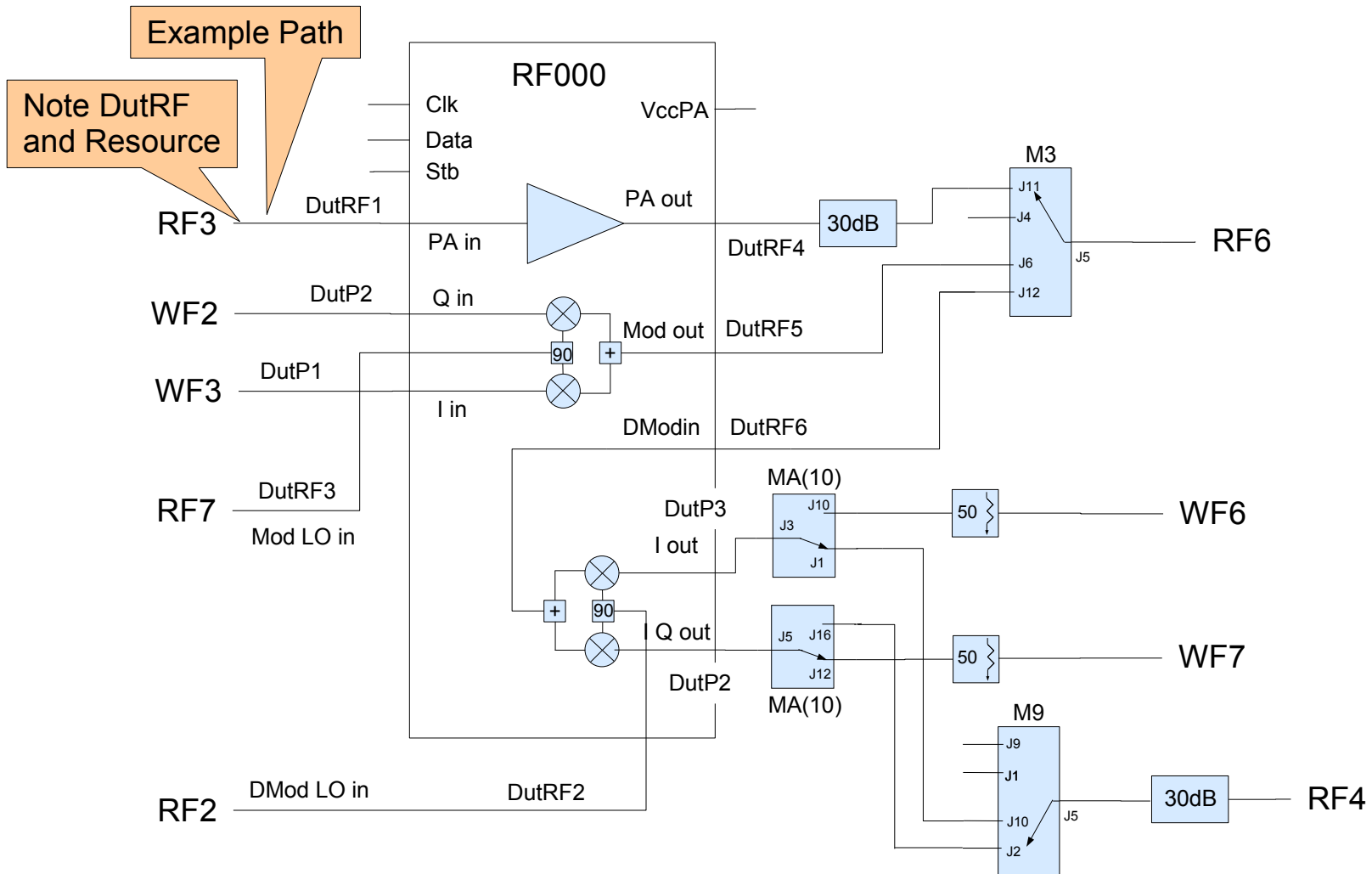
## Creating the RF000 Fixture

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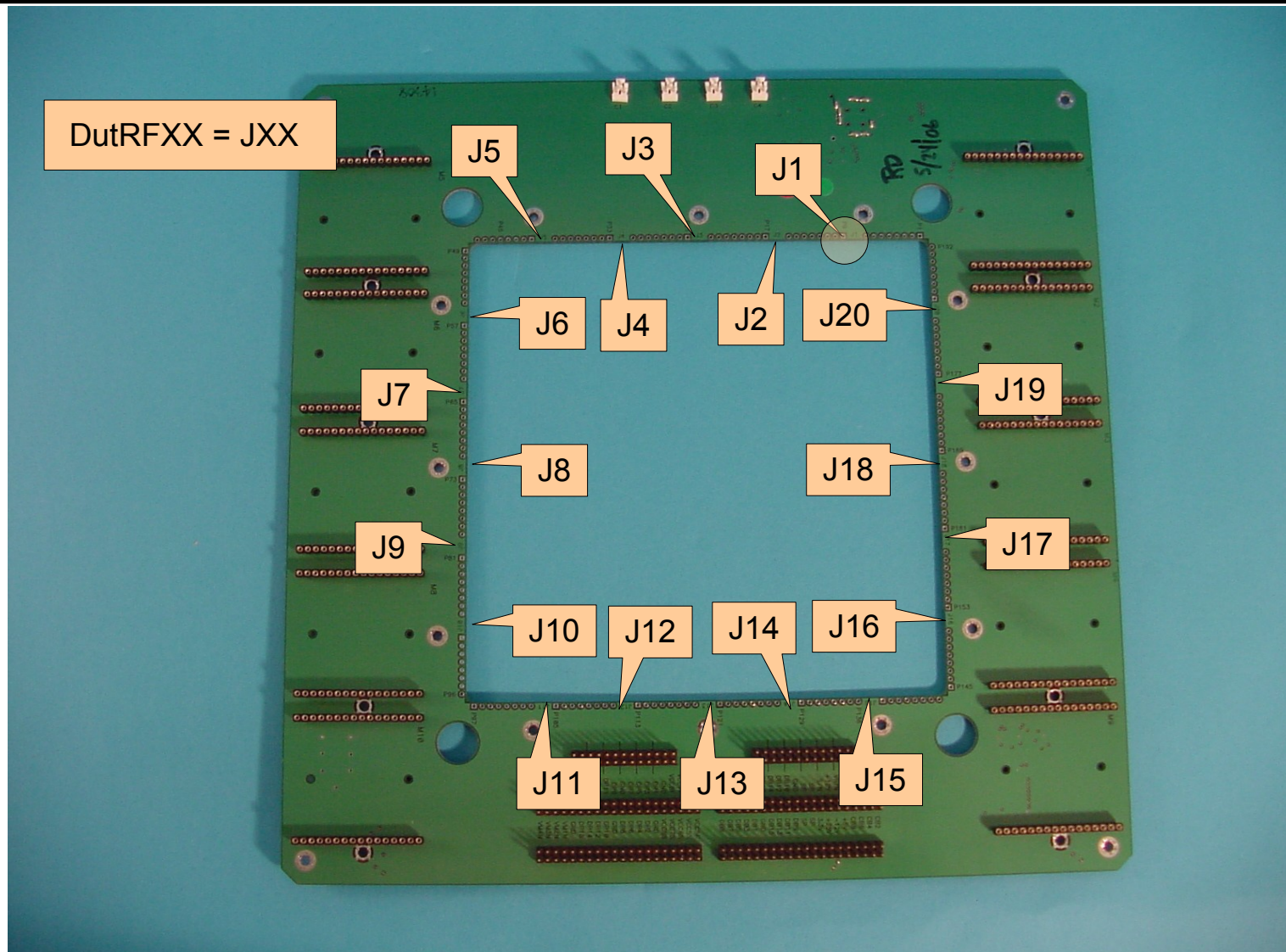
- Initial fixture creation
- Defining the path DutRF1/RF3
- Editing the path
  - Mode
  - Switch
  - Description
- Finish Path Definitions for the schematic – student activity.



# Student DUT/Fixture



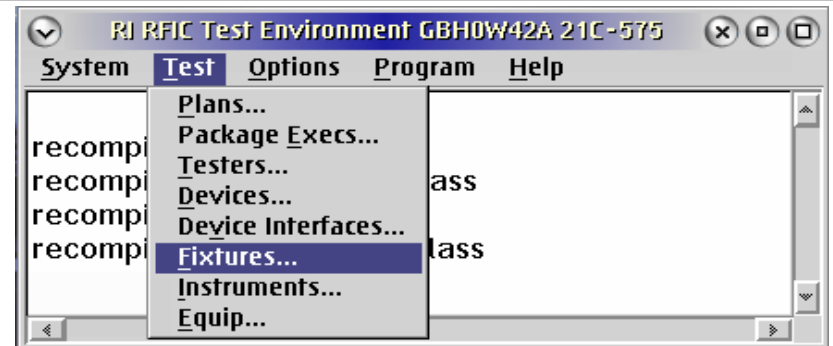
# DutRF Locations



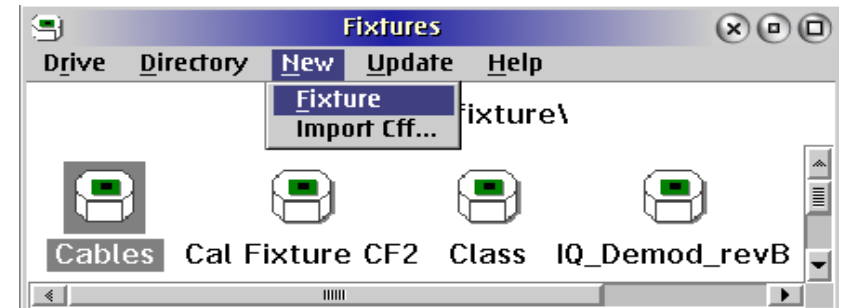


# Creating a Software Fixture

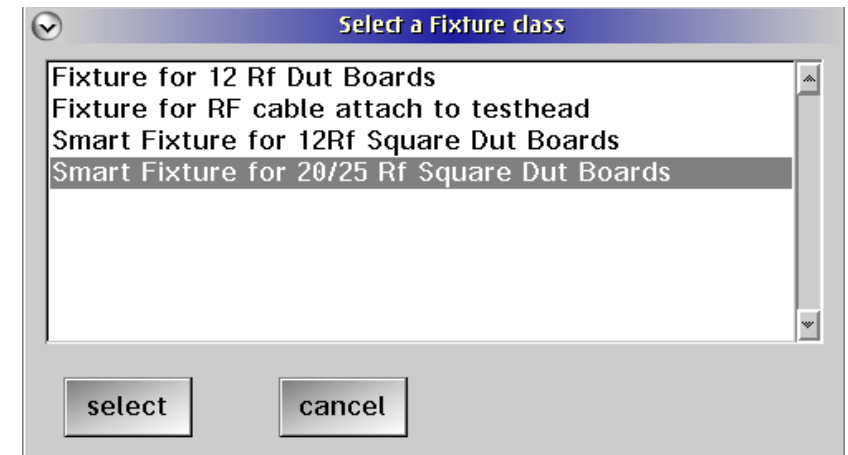
1. From the Test Environment window select “Test – Fixtures”. A fixture window will open. →



2. From the “Fixtures” window pull down menu select “New - Fixture”. →



3. You will then be prompted to “Select a Fixture class”. →  
Select the Smart Fixture for 20/25 RF square DUT boards. Name the fixture “RF000” when prompted.





# Fixture Path Definition and Editing

1. Highlight the new fixture and use a right mouse button click to get to the fixture pull down menu. From this menu choose “Edit”. A fixture edit window will pop up.

The screenshot shows the 'Fixture Definition' dialog box. It includes a 'Fixture Type' dropdown menu, a 'Control Switch Size (Bytes)' field with the value '32', and an 'Edit DUT Interface Pins' button. Below these is a 'Paths' section with a table and three buttons: 'Add', 'Edit', and 'Delete'. At the bottom are 'OK' and 'Cancel' buttons. Callouts provide the following descriptions:

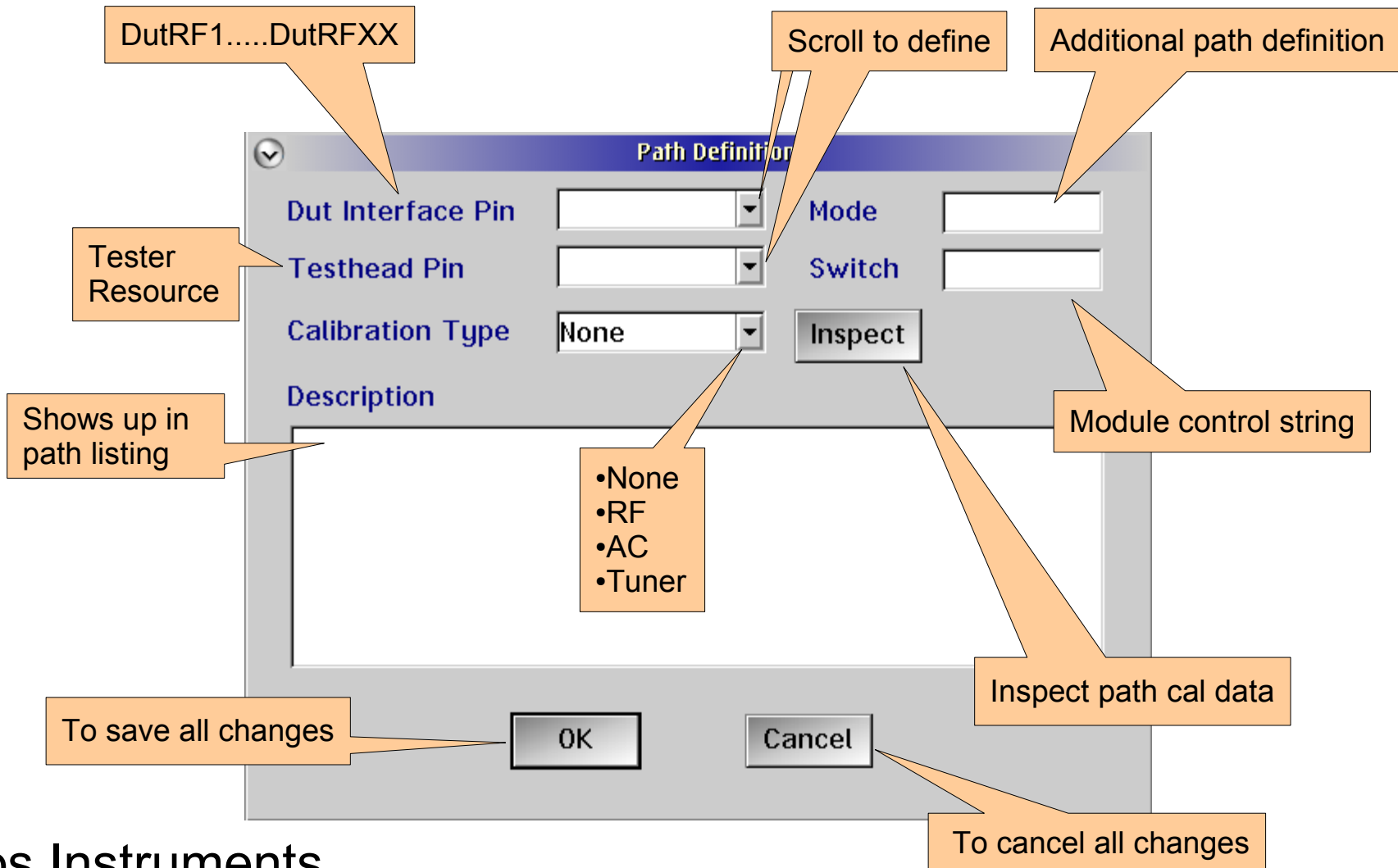
- Allows fixture family (points to Fixture Type dropdown)
- To edit Dut Interface Pins (cable type fixtures only) (points to Edit DUT Interface Pins button)
- To define new paths. (points to Add button)
- To edit paths (points to Edit button)
- To delete high-lighted paths (points to Delete button)
- Lists completed fixture path definitions (points to the empty table area)
- To save all changes (points to OK button)
- To cancel all changes (points to Cancel button)

DUT IF Pin	Testhead Pin	Mode	Switch	Description
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# Path Definition Window

2. Choose "Add" to get to the "Path Definition" window.





# Path Definition Result

## DutRF1/RF3

**Fixture Definition**

Fixture Type:

Control Switch Size (Bytes):

**Paths**

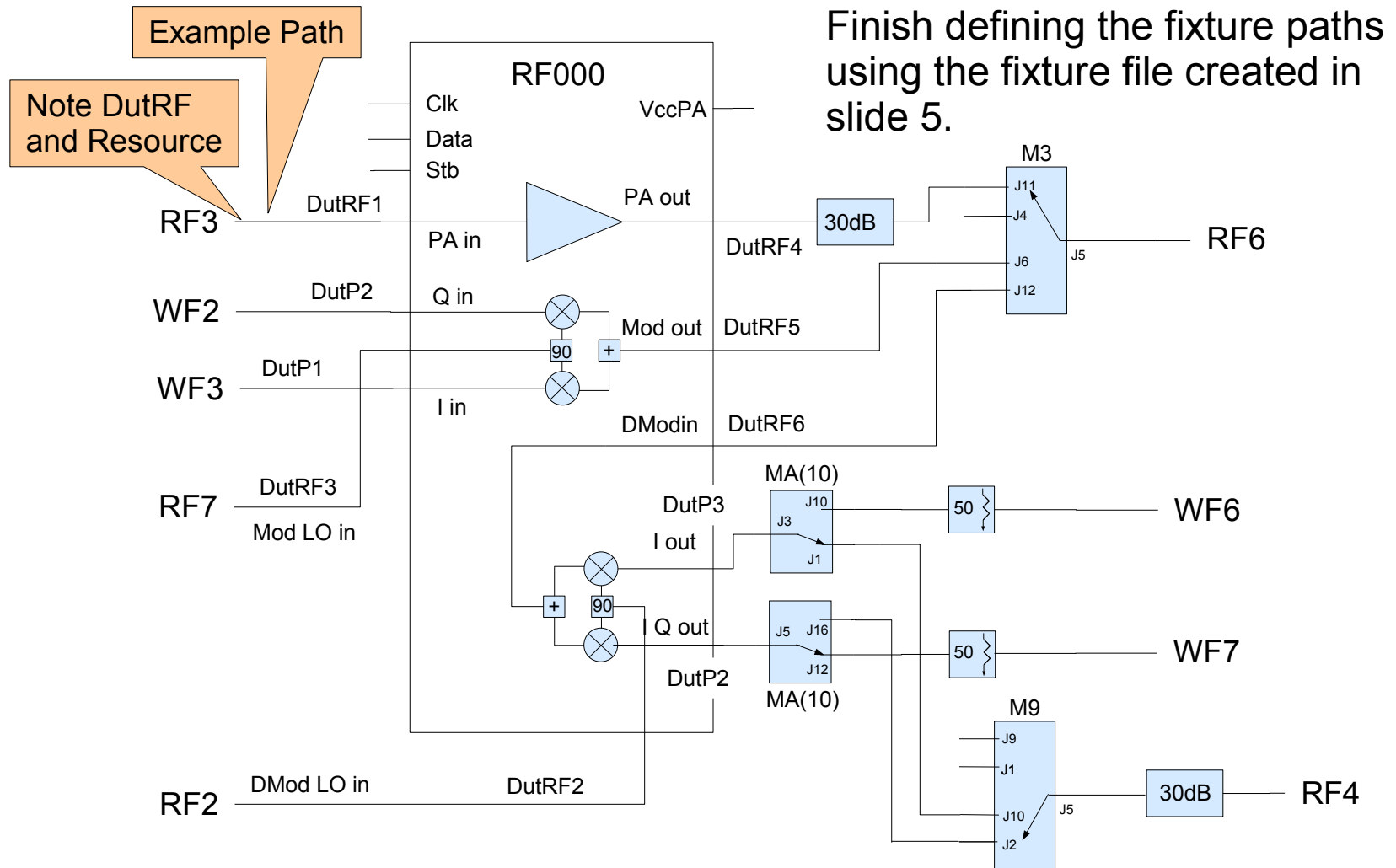
DUT IF Pin	Testhead Pin	Mode	Switch	Description
DutRf1	Rf3			Power Amp In

Description: Power Amp In





# Commence Exercise





# Exercise Finished Results

DUT IF Pin	Testhead Pin	Mode	Switch	Description	
DutRf1	Rf3	PA_in			<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
DutP1	Wf3	I_in			
DutP2	Wf2	Q_in			
DutRf2	Rf2	ModLo_in			
DutRf3	Rf7	DModLo_in			
DutRf4	Rf6	PA_out	S910xx		
DutRf5	Rf6	Mod_out	S901xx		
DutRf6	Rf6	DMod_in	S911xx		
DutP3	Wf6 Scope	Ch1I_Out	SAxx11		
	Wf6 Scope	Ch1ScopeOff	SAxx01		
DutRf3	Rf7	DModLo_in			<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
DutRf4	Rf6	PA_out	S910xx		
DutRf5	Rf6	Mod_out	S901xx		
DutRf6	Rf6	DMod_in	S911xx		
DutP3	Wf6 Scope	Ch1I_Out	SAxx11		
	Wf6 Scope	Ch1ScopeOff	SAxx01		
DutP4	Wf7 Scope	Ch2Q_out	SA11xx		
	Wf7 Scope	Ch2ScopeOff	SA01xx		
DutP3	Rf4	I_out	SAxx01S9xx11		
DutP4	Rf4	Q_out	S9xx00SA01xx		