Parameters & Values



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Overview

Parameters are the factors to be tested in Test Case Designer scenarios. For example, "Browser Type", "Payment Method", "Age", etc.

When creating your Test Model, you need to define which parameters should be consider and their values.

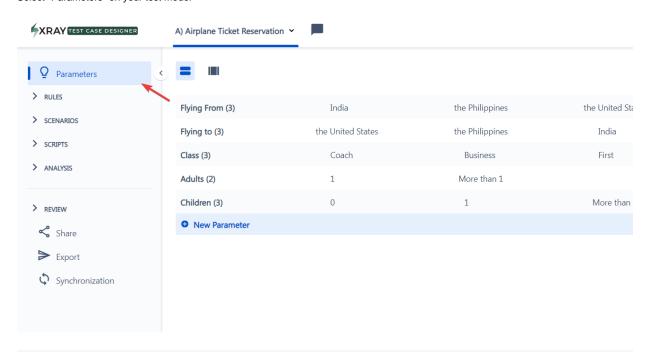
Parameter values are the different ways that a parameter can vary - these are the values that are chosen in a given test case for a given parameter. For example, examples of parameter values might be "Browser Type" of "Google Chrome"; "IE"; "Safari".

Deciding what to include as parameters and values in your Test Model will be the most important part of the entire test design process.

Create a Parameter



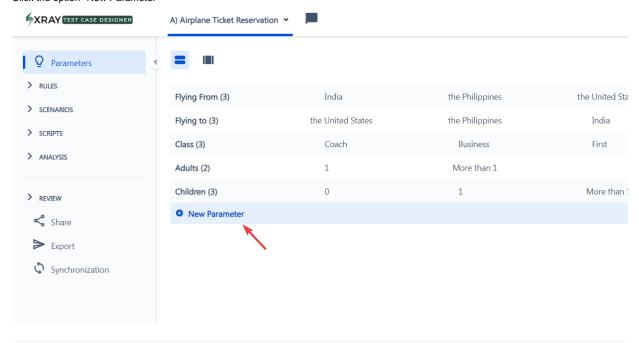
Select "Parameters" on your test model





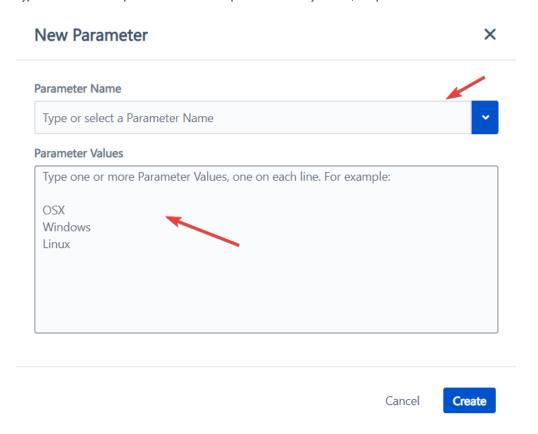


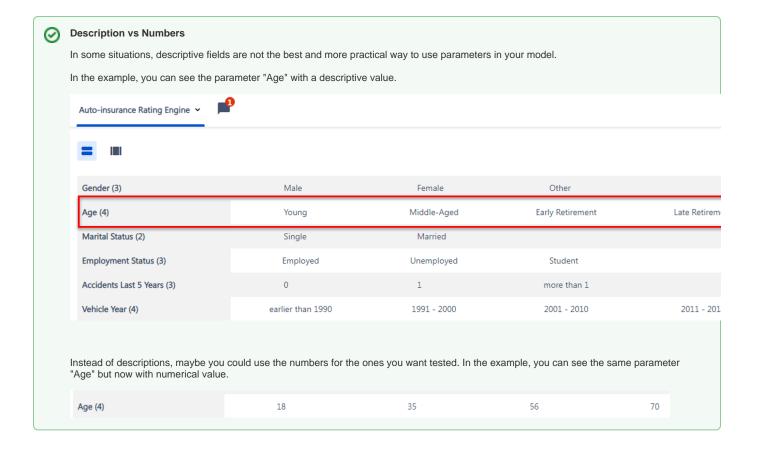
Click the option "New Parameter"



(3)

Type in the name of the parameter and fill in the parameter values you want, one per line.





Create a Parameter with a Ranged Value - Boundary Testing

Instead of using descriptive or numerical values, you may use range values.

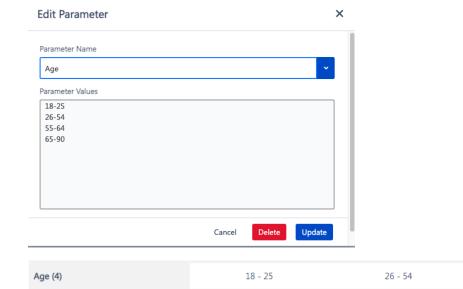
Range values are useful when there is required to test around cutoffs for certain businesses rules, that adds too many values to your parameters and it's not efficient.

To create a range value, use the syntax 'number space hyphen space number' (i.e., #-#), Xray Test Case Designer will recognize it as a range of values to choose from.

65 - 90

55 - 64

Bellow, check the example with the Parameter "Age":

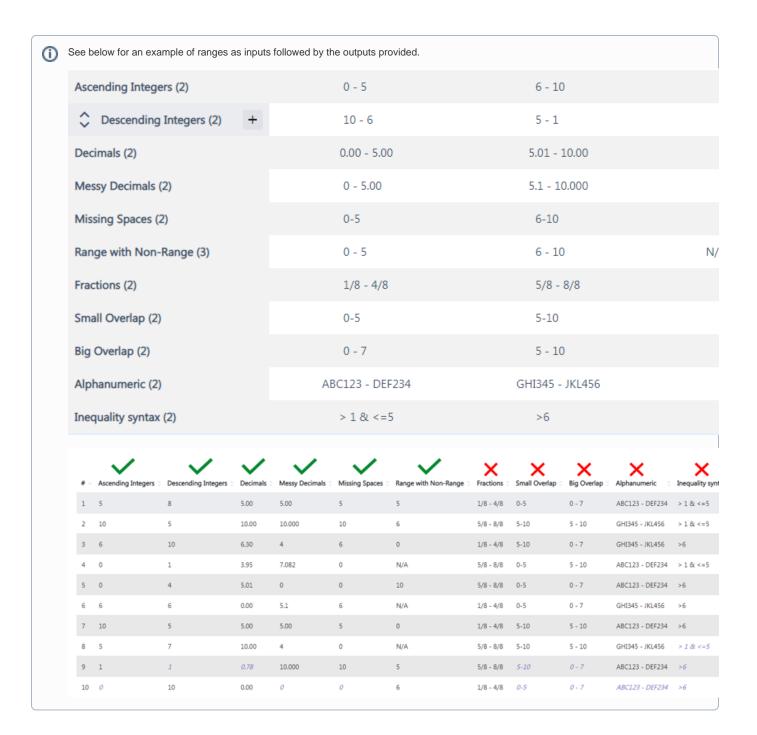


Additionally, will handle a ranged value as a set of numbers inclusive of your endpoints. Therefore, Xray Test Case Designer will in effect boundary test the range and then randomly choose numbers from within that range (as it needs for tests).

See below how the ranged values above turn into values to use in your tests.

Search 23 scenarios and 456 2-way intera					actions 🗸
# ^	Gender 0	Age 0	Marital Status ©	Employment Status 0	Accidents Last 5
1	Male	25	Single	Employed	0
2	Female	20	Married	Unemployed	0
3	Other	26	Single	Unemployed	1
4	Male	56	Married	Student	more than 1
5	Female	73	Married	Employed	1
6	Female	54	Single	Student	more than 1
7	Other	55	Married	Employed	0
8	Male	65	Single	Unemployed	1
9	Other	64	Married	Student	1
10	Male	18	Single	Employed	more than 1
11	Female	25	Married	Student	more than 1
12	Male	90	Single	Employed	0
13	Female	39	Married	Unemployed	1

Xray Test Case Designer can recognize many options for ranges. We recommend having the same number of decimals across all numbers in a range. Additionally, all ranged values **must not overlap.** The tool will not recognize logic like in alphanumeric codes either.

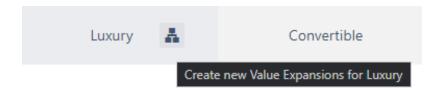


Create a New Value Expansion

If your model includes a long list of values, you are in danger of generating way more tests than needed. The Value Expansions feature can dramatically reduce the number of tests generated in these situations. By maximizing variation and minimizing repetition, the Value Expansions feature helps testers cover as much as possible in as few test cases as possible.



On the "Parameters" screen, edit a Parameter Value to instead appear as a general category. Hover over this Value and click on the branching icon to the Value's right.

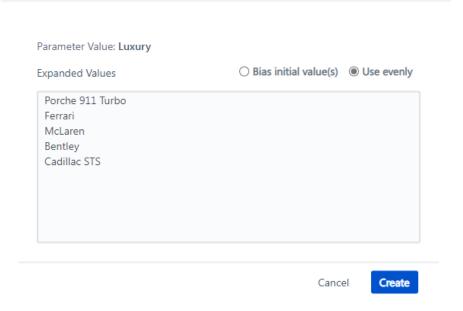




Edit the Expansions and click on "Create" to save them.

Create a New Value Expansion

×





- If you would like each of these 5 "sub-values" to appear in your test scripts with equal weighting (e.g., have 'Porche' appear in approximately as many test cases as 'Ferrari'), the "Use evenly" option is already set by default.
- If you would rather have the sub-values that you put towards the top of your list appear more frequently, select "Bias initial values" option.

Using the Value Expansions feature has powerful advantages over the other options. Compared to using 45 individual Values, this approach has 144 fewer tests to execute. And compared to using just the 9 categories of vehicles as your Values, the test cases generated with the Value Expansions feature are:

- · more specific,
- · more varied, and
- achieve more coverage.



A Caveat on Value Expansions

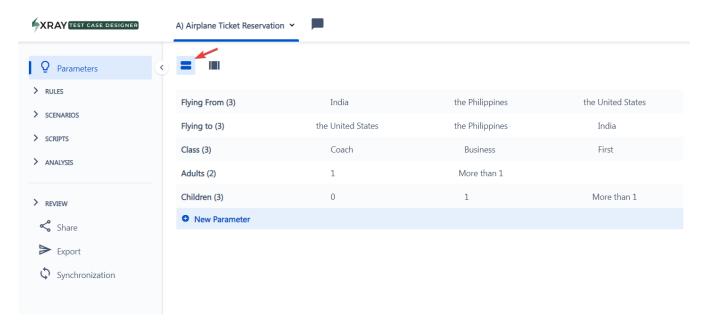
Expansions are a great way to get additional variation in your tests without sacrificing the number of tests. But not all value expansions are guaranteed to be included in your tests.

For example, consider 10 value expansions for 1 value in a model that generates a set of 20 tests. The value in question may only show up a few times of that 20, maybe 5 times. Therefore, only half of the value expansions will be covered.

View Parameter

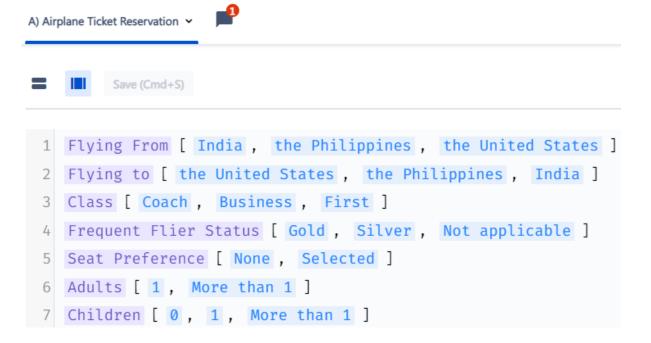
Standard View

Standard is the default view where user has visual access to all the available parameters and all the main actions to them.



Bulk view

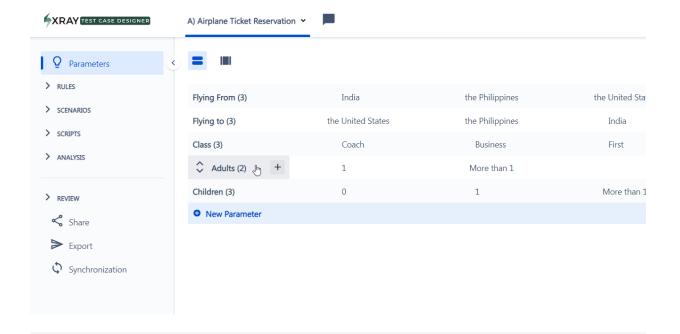
Bulk view enables you to edit you parameters faster and displays parameters and values in a "code style" format. Learn more how to bulk edit parameters.



Edit a Parameter & Values

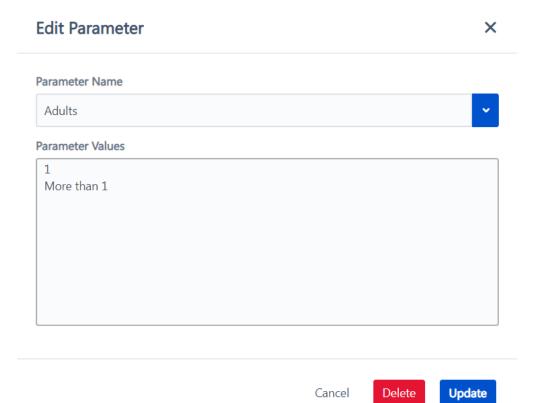


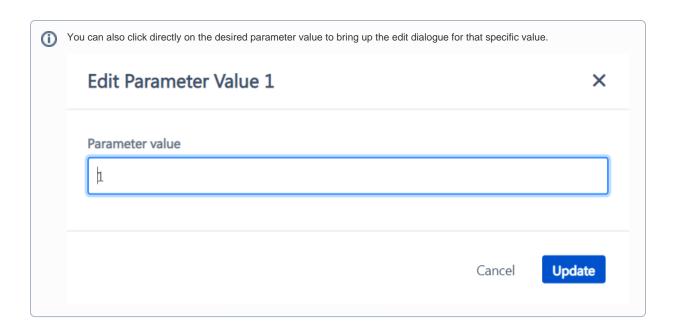
Hover the parameter you want to edit.



2

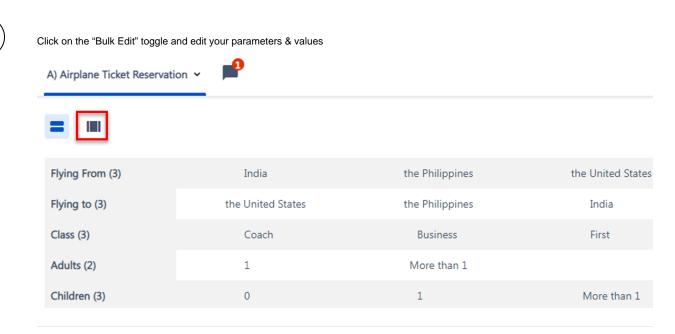
Click on the parameter name to show the edit dialogue.





Bulk Edit Parameters

Parameters bulk edit enable a faster way to make changes to several parameters' values quicker and in a more efficient way.



2) This will toggle the input window into a quick-to-edit single text window.





```
1 Flying From [ India , the Philippines , the United States ]
2 Flying to [ the United States , the Philippines , India ]
3 Class [ Coach , Business , First ]
4 Frequent Flier Status [ Gold , Silver , Not applicable ]
5 Seat Preference [ None , Selected ]
6 Adults [ 1 , More than 1 ]
7 Children [ 0 , 1 , More than 1 ]
```

Now you have the ability to change any parameters or value as needed and change the priorities in a more efficient way

(i)

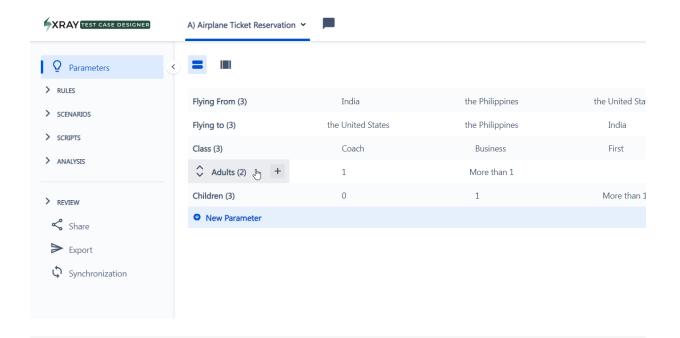
Changing the name of a parameter or value in Bulk Edit mode would cause Xray Test Case Designer to recognize the edited parameter or value as a completely new entry – triggering a message warning you about the potential loss of constraints/requirements/value expansions.

Typing in new parameter names through Bulk Edit won't give you access to the auto-suggested list of already-created reusable parameters that you see when adding parameters through the standard Edit mode. You also can't create value expansions from the Bulk Edit window.

Delete a Parameter

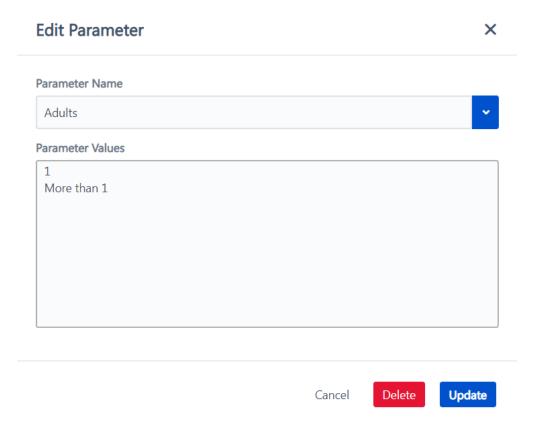


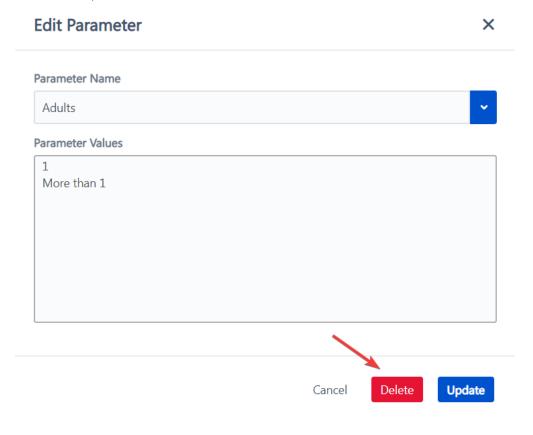
Hover the parameter you want to delete.



2

Click on the parameter name you what to delete.

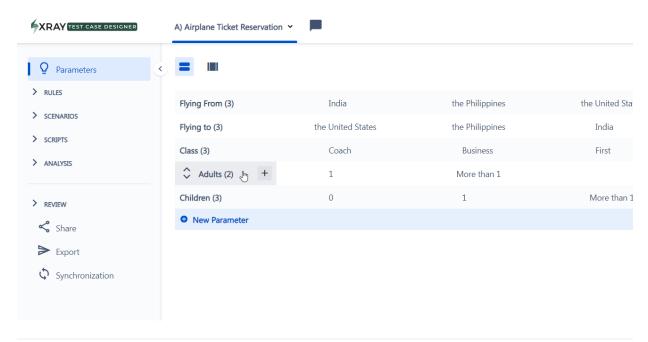




Reorder a Parameter



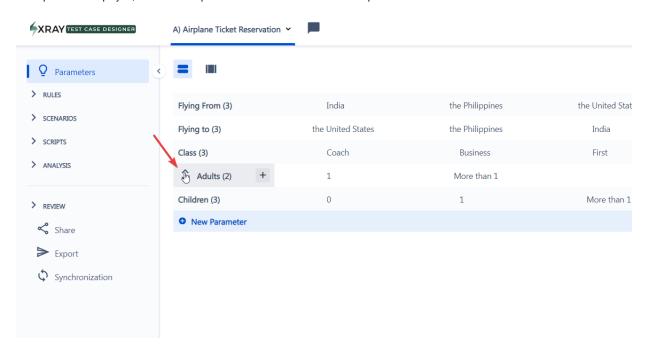
Hover the parameter you want to re-order.







Two options are displayed, one to move up another to move down the selected parameter.



(i) You can also use the bulk option to re-order your parameters