## Exercise 08 - Integrate New Attribute

### Objective

By the end of this exercise, you will be able to add a new Attribute to the TestSheet and fully integrate it at all necessary levels.

### Why is this important?

As the SUT develops, it may become necessary to add Attributes that will affect the overall number of TestSheet Instances, these need to be correctly integrated into the TestSheet.

### Instructions

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| 1. | Duplicate the Folder: "**Exercise 6c Complete Test Sheet Level Instances**" and rename it "**Exercise 8 Integrate New Attribute**". |

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**Context**

New Attributes need to be added to take into account all the different shipping methods and different costs applied:
- Ground Shipping (the StraightThrough): $10.00
- Next Day Air: $40.00
- Second Day Air: $20.00
- A fourth "Not Applicable" Instance which can be used when shipping methods are not applicable

On the Checkout level, new Values are required for existing Instances, and additional Instances will need to be created for the new shipping methods: "Next Day Air" and "Second Day Air". These Instances should be populated with the StraightThrough Values except for the "Shipping Method" Attribute which will have the relevant Value chosen.

The other level that requires amendment is the TestSheet Level. Two new TestSheet Instances should be added for the two methods of air delivery. Again, they should all have StraightThrough Instances except for the "Checkout" Attribute where the correct Attributes "Next Day Air" and "Second Day Air" should be selected.

A TestSheet Instance for N/A is not required as this is used in the "Digital" and "In-Store Pickup" TestSheet Instances.

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|---|---|
| 2. | Navigate to the Attribute "**Checkout**" (*Process>>Checkout*). Add the Attribute "**Shipping Method**" and add the following Instances:<br>• **Ground (Straight Through)**<br>• **Next Day Air (Inner/Valid)**<br>• **Second Day Air (Inner/Valid)**<br>• **N/A (Inner/Valid)** |
| 3. | In the Attribute "**Checkout**", add the two new Instances:<br>• **Next Day Air**<br>• **Second Day Air** |
| 4. | For the Instance: "**Standard**", add the **StraightThrough** Values to the Instances where they intersect the Attribute "**Shipping Method**". For the Instances "**In-Store Pickup**" and "**No Shipping**", add the Value "**N/A**" where they intersect the Attribute "**Shipping Method**". |
| 5. | For the Instances "**Next Day Air**" and "**Second Day Air**", add the **StraightThrough** Values where they intersect for all Attributes except "**Shipping Method**". |
| 6. | For the Instances "**Next Day Air**", select the Value "**Next Day Air**", and for the Instance "**Second Day Air**" select the Value "**Second Day Air**" where the Attribute "**Shipping Method**" intersects the Instance. |
| 7. | Navigate to the "**Shipping Cost**" Attribute (*Verification>>Order Details>>Shipping Costs*) and add the two new Instances:<br>• **Next Day Air**<br>• **Second Day Air** |

8. For the Instances "**Next Day Air**" and "**Second Day Air**", enter the following Values where the "**Value**" Attribute intersects the new Instances according to the table below:

| | Instances | |
|---|---|---|
| | Physical | Digital |
| **Attributes** | | |
| **Shipping Cost** | | |
| Value | **40.00** | **20.00** |

9. Focus on the TestSheet Level. Add the TestSheet Instances:
   - **Next Day Air**
   - **Second Day Air**

Add the Values where the Instances intersect the Attributes as per the table below:

| | Instances | |
|---|---|---|
| | Next Day Air | Second Day Air |
| **Attributes** | | |
| **Administration** | | |
| Test Designer | **Max Methodology** | **Max Methodology** |
| Contact Person | **Peter Business** | **Peter Business** |
| Test Stage | **Regression** | **Regression** |
| **Precondition** | | |
| Customer | **Registered \| Address Available** | **Registered \| Address Available** |
| **Process** | | |
| Ordered Products | **Physical** | **Physical** |
| Checkout | **Next Day Air** | **Second Day Air** |
| **Verification** | | |
| Message | **Success Message** | **Success Message** |
| Order Details / Shipping Cost | **Next Day Air** | **Second Day Air** |
| Order Details / Total Price | **Order Value + Shipping Costs** | **Order Value + Shipping Costs** |
| Order Details / Value Total Price | **41.00** | **21.00** |

## Context

Having created new Instances, these must now be linked to the Requirements. In our case, because we are duplicating the TestSheets prior to amending them, we have two separate TestSheets with links. In a real life scenario, this would not be the case as we would amend one TestSheet and not duplicate it and amend it so there are two "live" TestSheets.

10. Link the two new Instances: "**Next Day Air**" and "**Second Day Air**" to the relevant **Requirement** (see Ex.07).

## Hints

» "Create Instance (after this)" (Ctrl+,) creates an empty Instance on the same level. "Duplicate (after this)" (Ctrl+.) duplicates all aspects so that all the Values are already populated.

» The easiest way of manually adding an Instance (e.g. for a Linear Expansion), is to duplicate (Ctrl+.) the StraightThrough Instance, change the name and Character of the Instance and alter the Value of the Attribute which needs to be adjusted.