

Show additional cost figures in Cost Card and BoM	
Functional Area:	Costing
Proposed Release:	R27
Business Process:	Costing
Process Objective:	Introduce new costing metrics
Product Backlog Item (PBI):	10411
Estimated cost of development:	£3,000
Estimated cost of non-development to business:	Unknown
Estimated Business Value:	Unknown

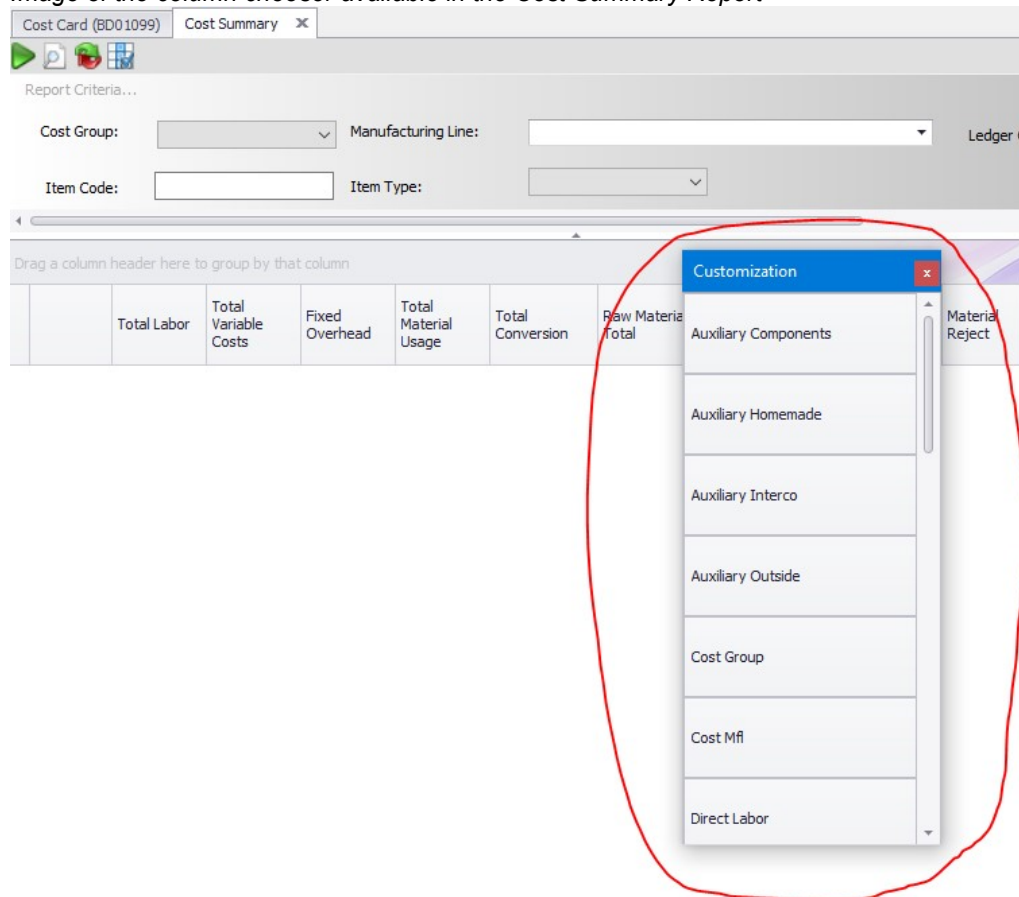
1.	Business Requirements
	1. Ability to see Manufacturing Variable Cost on the cost card
2.	Acceptance Criteria
2.1.	Functional Acceptance Criteria

2.1.1 – Cost Card

☐ The Cost Summary Report found under **Costing >> Reports >> Cost Summary Report** shall be updated to include 'Total Variable Costs' within the available columns in the DevExpress grid column chooser.

☐ The Total Variable Costs field shall not be displayed on the Cost Summary Report by default.

Image of the column chooser available in the Cost Summary Report



☐ All columns that have been renamed on the cost card (as part of this specification) shall be renamed on the Cost Summary Report to match the names they have on the cost card.

☐ **2.1.2 – Cost Card Drill Down**

☐ The following labels on the cost card shall be turned into blue hyperlinks and it shall be made possible to click on them to get a detailed view of the individual component costs that make up the total:

- Material Grand Total
- Material Reject
- Total Material Usage
- Raw Materials
- Auxilliary Components
- Other

☐ Upon clicking on a hyperlink a new non-modal dialog shall be opened showing the relevant components from the Bill of Material with the cost of each component in a flat list. For example clicking on the Total Material Usage link for item BD01099...

Manufacturing Cost	272.055887	Accumulated Time	4.404524 (Minutes)
Total Variable Costs	270.041171		
Material Grand Total	265.600390	97.63%	
Material Reject	0.075196	0.03%	
Total Material Usage	265.525194	97.60%	
<u>Raw Materials</u>			
Outside	0.000000	0.00%	
Interco	0.000000	0.00%	
Homemade	257.420750	94.62%	
<u>Auxiliary Components</u>			
Outside	0.000000	0.00%	
Interco	0.000000	0.00%	
Homemade	0.000000	0.00%	
<u>Other</u>			
Tooling	0.000000	0.00%	
Packing Material	7.444444	2.74%	
Subcontracting	0.000000	0.00%	
Undefined	0.660000	0.24%	
Total Conversion	6.455497	2.37%	
Fixed Overheads	2.014716	0.74%	
Total Variable Conversion Cost	4.440781	1.63%	
Process Rejects	0.000000	0.00%	
Variable Conversion Costs	4.440781	1.63%	
Direct Labor	2.663416	0.98%	
Indirect Labor	0.325039	0.12%	
Energy	0.066614	0.02%	
Variable Overheads	1.385713	0.51%	
Created	PPISARKIEW	17/03/1998	
Last Updated	shutttho	08/06/2016	

...would open a window like this:

BD01099 [Std] - Total Material Usage

Item Code	UOM	Quantity	Cost Per Unit	Cost
LS03	PCS	0.0222	335	7.444444444
OM0013	PCS	1	0.34	0.34
PB0001	PCS	1	0.32	0.32
BD01099-FI	PCS	1	249.53359	249.53359
LEF00343-PP	PCS	2	3.94358	7.88716
			Total	265.525194

i.e. showing the material costs from the top level of the BOM.

☐ The total shall equal the relevant total on the cost card to configured number of decimal places.

☐ It shall be possible to see the component costs for all available ledgers.

☐ 2.1.3 – Caveats

☐ It shall not be possible to view the costs for a manufacturing BOM. Only standard costing BOMs that have an associated cost card shall have access to the cost card drill down functionality.

☐ It shall not be possible to drill down further on the produced report i.e. to see the costs of the components that make up a component.

3.0	User Interface Standards
3.0.1	<input type="checkbox"/> No additional UI changes shall be made in addition to those already outlined in this specification.
3.1	Security / Preferences
3.1.1	<input type="checkbox"/> No new security or preferences shall be introduced.
3.2	Performance
3.2.1	<input type="checkbox"/> Existing Halo performance should be unaffected as a result of the changes outlined in this specification.
3.3	Testing
3.3.1	<input type="checkbox"/> An indication that development has been completed successfully shall be observed by successfully testing each test case in the test plan (seen in Appendix 1).

Technical Environment where the PBI will be deployed	
Description	
ERP / Systems	SAP / Aurora
Supported Database(S)	SQL2008 R2 SP2 and SQL 2012 SP1
Planned Release	Halo 27
Other Information	

Document Sign Off			
Name	Role	Date	Signature
Walter Wijckmans	Feature Owner		
Dominic Musgrave	Delivery		
James Pritchett	Development		

Document Sign Off			
<i>"I agree that this set of requirements represents our best understanding of the requirements for the next portion of this project and that the solution described will meet our needs as we understand them today. I agree to make future changes in this baseline through the project's defined change process. I realise that changes might require us to renegotiate cost, resource, and schedule commitments."</i>			
Document History			
Version	Description	Date	Author
1.0	Initial Draft	10/06/16	Scott Davidson

Appendix 1 – Test Plan

It should be possible to run through the following tests from start to finish without any errors.

Test 1 – Regression tests

1. Run the relevant regression tests found using the following link:
<https://vesuvius.visualstudio.com/DefaultCollection/Halo/testManagement>
2. Ensure all tests pass without error.

Test 2 – Cost Card – Total Variable Cost

1. Navigate to **Costing >> Cost Cards**
2. Open a cost card for any finished goods item.
3. **Observe** that **Total Variable Costs** is displayed just below the Manufacturing Cost and that it correctly equals the **Manufacturing Cost** minus the **Fixed Overheads**

Test 3 – Cost Summary Report – Total Variable Costs

1. Navigate to **Costing >> Reports >> Cost Summary Report**
2. **Observe** that there is no Total Variable Costs column shown by default
3. Right click on the column header row and select Column Chooser.
4. **Ensure** that you can see the Total Variable Costs column in the list of available columns.
5. Add the column to the report by dragging and dropping it into the grid.
6. **Ensure** that data is displayed in the column and that the values correctly equal the **Manufacturing Cost** minus the **Fixed Overheads**

Test 4 – Cost Card Drill Down

1. Navigate to **Costing >> Cost Cards**
2. Open a cost card for any finished goods item.
3. Locate the Total Material Usage hyperlink.
4. **Click** on the hyperlink.
5. **Ensure** you see a dialog detailing the relevant component costs for the correct BOM.
6. **Ensure** that the figures are correct, that they add up to the correct total and that the total matches the total on the cost card to the configured number of decimal places.
7. **Change** the ledger by using the dropdown box in the top right hand corner of the cost card.
8. **Ensure** all hyperlinks are still available and that you can click on them to see component details.
9. **Repeat** steps 3-7 for all other hyperlinks on the cost card.