DATABAR production job auto-grouping - System test

Description

IMPORTANT

Before starting this work, please read the description of the epic VIS-3787: DATABAR In-Production batches will be grouped automatically AWAITING TRIAGE to get a full understanding of the background to the changes being made

This task involves using the IBAR Importer to perform a local import data import using full system functionality, to verify that the production jobs are created as expected.

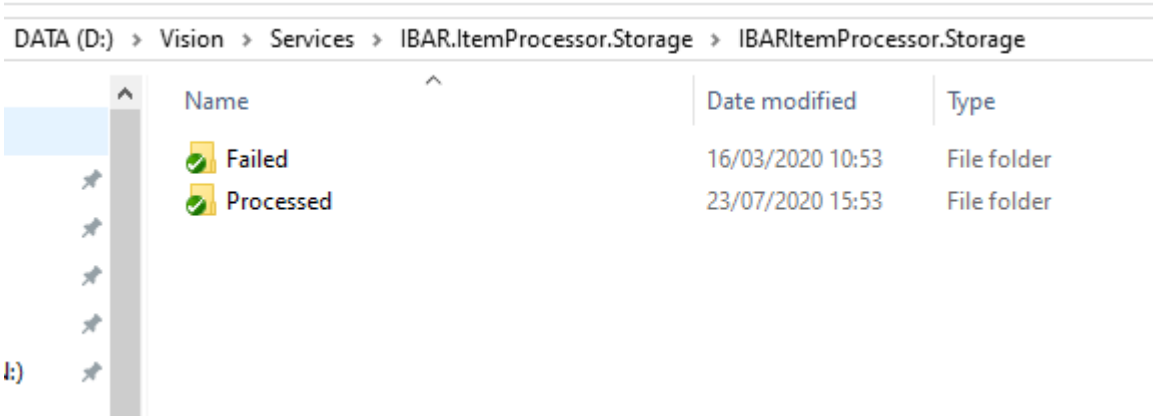
1) Background - IBAR Importer Operation

Before we launch into system testing properly!! - a little background to what we'll actually be covering.

This task relates to the Vision Services IBAR.ItemProcessor Windows service.

The IBAR.ItemProcessor Windows service can be debugged locally like a normal Visual Studio project.

It works by picking up files from the source folder (on your local machine this should be at **D:\Vision\Services\IBAR.ItemProcessor.Storage\IBARItemProcessor.Storage**; files sit in this directory, then are processed one at a time, before being moved to either the Failed or Storage directories depending on whether the import succeeded or not.



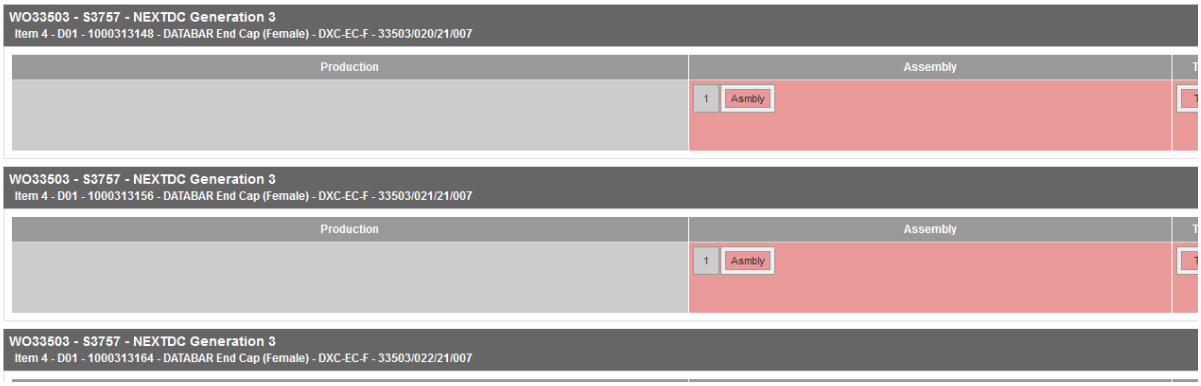
The import picks up files that define a collection of components, and uses it to then create those components against any runs matching the specified works order and M0 (for DATABAR, the M0 actually begins with 'D', so e.g. D01, D02 etc).

It then also creates production jobs for these components to allow them to be scanned through the factory.

Production jobs can be seen on this screen. (Note this is the IBAR version of the screen, there are DATABAR and RESINBAR equivalents which work in a similar way).

http://vision.local/production/in-production.asp?marketsectorids=8

Pressing the 'eye' icon at the end of each row then shows the components andtheir associated production steps contained within the production job.



An example file is below.

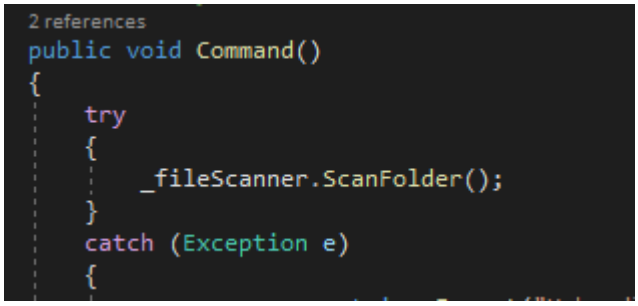
The file name convention is {WO}-{M0}-GA.xlsx.

So this file (12345-D01-GA.xls) will match all runs for WO12345 D01.

For the file, one of each of the displayed components will be created against each matching run.

	A	B	C	D	E	F
	Quantity Required	QTY	Item	Part Number	Title	Description
	1	1	1	DXC-04A-5PA-SD-ST3	DATABAR Busway Length ST3	4000A 4P Edgewise Flange 350-300 mod.
	1	1	2	DXC-EC-F	DATABAR End Cap (Female)	4000A 4P Straight Feeder 540 mod.
	1	1	3	DXC-04-5PA-EF-M-H1	DATABAR End Cap (Male)	4000A 4P Flatwise Elbow 425-860 mod.

In the IBAR Importer project, the code trail begins in **FieldMarshall.cs**; **ScanFolder** is called, then various other methods are called in turn from there.



2) Task Details - System Testing

And so, the testing itself.

Note there are four tests to perform in total; these are labelled clearly below

- Test A - DATABAR - New Production Jobs
- Test B - DATABAR - Existing Production Jobs
- Test C - IBAR - New Production Jobs
- Test D - IBAR - Existing Production Jobs

Following the implementation of VIS-4056, perform the following actions to test the system.

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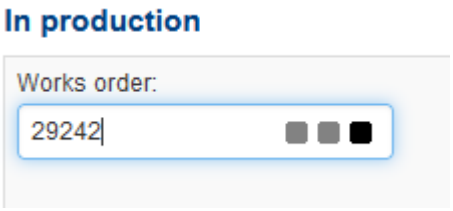
a) Test A - DATABAR - New Production Jobs

- Navigate to http://vision.local/worksbook/estimates.asp and search for works order 29242.
- Press QMFs to go to the QMFs page
- Enter a new QMF line for a DATABAR run (suggested equipment type: DATABAR DXC) with a quantity of 1 and a Rating of 800
    - *You will need to select Division: IBAR; Type: DATABAR DXC; Bar Standard: IEC*
- Repeat the above line another two times, so in total you create **three** identical QMF lines
- Go to the production schedule screen (http://vision.local/ps_qmf_list.asp?p1a=789a) and search for 29242 to find the three lines you just created (hint: you may need to press Search twice!)
- For **each of three lines**
    - Press ED to edit the line, and give it a **phase orientation** and the same **M0** number for all three lines (suggest using **D10**)
    - Save the record
    - Refresh the page then press CE to create the runs

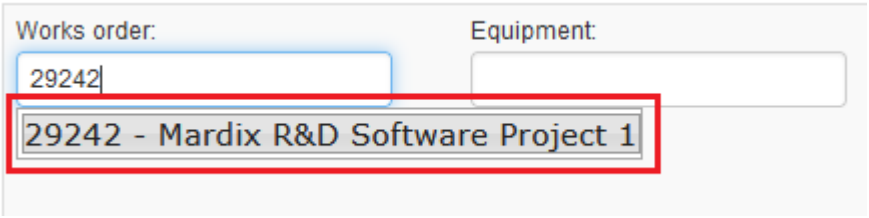
- Save the below import file to your desktop, rename it to match the Works Order and M0 number you have used, then move it into your source import folder (as described further up the ticket)0

- Run the IBAR Importer locally in Debug mode
- Navigate to the Production > DATABAR In Production screen and confirm production jobs were created for each of the three runs you created; each production job should contain three components when you press the eye icon
- Confirm that there are three production jobs for the works order and M0 in question
    - One production job containing only **Item 1** components (**DATABAR Busway Length ST3**) - 3 items in total
    - One production job containing only **Item 2** components (**DATABAR End Cap (Female)**) - 3 items in total
    - One production job containing only **Item 3** components (**DATABAR End Cap (Male)**) - 3 items in total

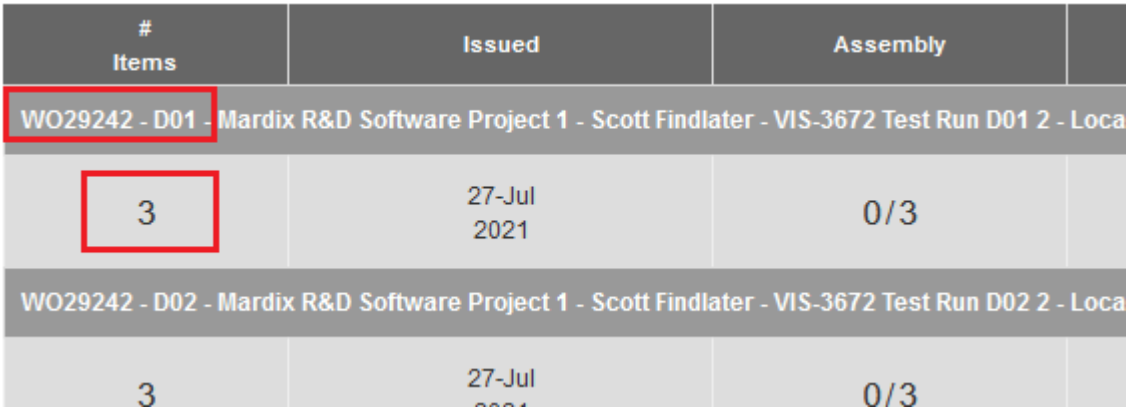
HINT: On the DATABAR In Production screen (local address: http://vision.local/production/in-production.asp?marketsectorids=8) you can search for the works order number…



…when the suggestion list appears, click the relevant result to filter the list to the relevant works order.



The WO / M0 will then be shown at the top header (in your case you will expect to see three rows in total for your works order / M0), and the number of items shown at the start of each row (in your case, only 1 item per row instead of 3 shown below)



Finally, under Parts, for each of your newly-created production jobs you should only see one part number (in this example, part number 2) instead of multiple (e.g. 1, 2, 3)

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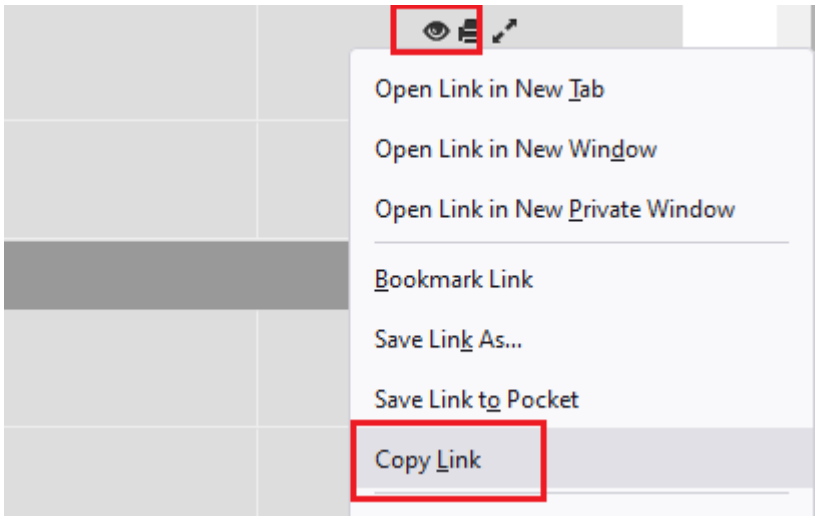
b) Test B - DATABAR - Existing Production Jobs

Preliminary data tweak…

- For this test we'll be creating some more components, and checking that they are added to the existing production jobs … except for one!
- For the three production jobs you created in **Test A**, go to the DATABAR In Production screen (local address: http://vision.local/production/in-production.asp?marketsectorids=8) and find the production job for **Item 1**. (It will show as '1' in a square under the Parts column, a bit like the example above showing '2')
- Then, find the production job Id for that job - you can do this by right-clicking the eye icon and copying the link…



… the production job Id is at the end of the link, in the example below this would be **b353427c-683d-48d2-bb2d-ad7200e36165**

http://visionui.local/production/productiondetails?productionJobId=b353427c-683d-48d2-bb2d-ad7200e36165

- Then run the following SQL against your local Vision database to set that production job as 'Delivered' (replace **{id}** with the production job Id obtained above)

```
UPDATE ProductionJobSummary
SET NumberOfItemsDeliveryComplete = NumberOfItemsDeliveryApplicable
WHERE ProductionJob_id = {id}
```

The Test Itself…

- Save the below import file to your desktop, rename it to match the Works Order and M0 number you have used, then move it into your source import folder (as described further up the ticket)

- Run the IBAR Importer locally in Debug mode
- Navigate to the Production > DATABAR In Production screen and confirm production jobs were created for each of the three runs you created as follows
- Confirm that there is **one new** production jobs for the works order and M0 in question
    - One **new** production job containing only **Item 1** components (**DATABAR Busway Length ST3**) - 3 items in total
- Confirm that the existing production jobs now appear as follows - note that the last two production jobs should now contain the newly-imported items, and that their item counts have doubled
    - One production job containing only **Item 1** components (**DATABAR End Cap (Female)**) - 3 items in total
    - One production job containing only **Item 2** components (**DATABAR End Cap (Female)**) - 6 items in total
    - One production job containing only **Item 3** components (**DATABAR End Cap (Male)**) - 6 items in total

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c) Test C - IBAR - New Production Jobs

- Navigate to http://vision.local/worksbook/estimates.asp and search for works order 29242.
- Press QMFs to go to the QMFs page
- Enter a new QMF line for an IBAR run (suggested equipment type: IBAR HXC Feeder) with a quantity of 1 and a Rating of 2500
    - *You will need to select Division: IBAR; Type: IBAR HXC Feeder*
- Go to the production schedule screen (http://vision.local/ps_qmf_list.asp?p1a=789a) and search for 29242 to find the one line you just created (hint: you may need to press Search twice!)
- For the line in question
    - Press ED to edit the line, and give it a **phase orientation** and an **M0** number (suggest using **B10**)
    - Save the record
    - Refresh the page then press CE to create the run
- Save the below import file to your desktop, rename it to match the Works Order and M0 number you have used, then move it into your source import folder (as described further up the ticket)

- Run the IBAR Importer locally in Debug mode
- Navigate to the Production > IBAR In Production screen and confirm one production job was created as below; the one new production job should contain two components when you press the eye icon
- Confirm that there are is **one new** production job for the works order and M0 in question
    - One production job containing both **Item 1** and **Item 2** components (**Straight Feeder** and **Joint Pack**) - 2 items in total

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d) Test D - IBAR - Existing Production Jobs

- Save the below import file to your desktop, rename it to match the Works Order and M0 number you have used, then move it into your source import folder (as described further up the ticket)

- Run the IBAR Importer locally in Debug mode
- Navigate to the Production > DATABAR In Production screen and confirm one production job was created as below; each production job should contain three components when you press the eye icon
- Confirm that there are is **one new** production job for the works order and M0 in question
    - One production job containing both **Item 1** and **Item 2** components (**Straight Feeder** and **Joint Pack**) - 2 items in total
- Confirm that the previous **existing** production job you created in **Test C** for the works order and M0 in question is also shown
    - One production job containing both **Item 1** and **Item 2** components (**Straight Feeder** and **Joint Pack**) - 2 items in total