

Product Outputs / Quality Control

Similar problems of remote desktop view to the on-site reviews is Product Outputs / Quality Control. Quality Control is done via barcode, each component and subsequent product is tracked and QA via barcode tracking.

for example:1511824-201709-M5

Using Tom Thumb Serial number 0401365

Search in the system:

Searching for 1009081									
Serial Number Matches									
Also Searches Opera Ext. Description search on first few characters of serial number for more possible finds									
Barcode	Reference	Description	Date Booked In	Datecode	Serial Number	Inv Number	PO/PS	Further Information	Components
1009081	0310030		07/10/16	2016-11	0401365	WSPS2264	PR02226		Components

This shows the unit was built using Production PR02226

Clicking PR02226:

WSPS2226 - 0310030 Built:10										
Stock Reference	Description	Qty	Supplier	Supplier Ref	Last Order qty	Date Purchased	Barcodes	Opera Stk	Unit Cost	Total Cost
0330190	Universal Clamp	10	00009032	A4916	100	15/09/16	100	115.00	7.23	72.3
0330191	Clamp Spacer	10	00009032	A4917	150	04/03/15	48	63.00	4	40
0330193	Pressure gauge: 63mm dial -5 to +60 cmWG	10	00009097	74656	100	26/07/17	5	20.00	52.5	525
0330201	Main Body Block	10	00009032	0330201	100	15/09/16	142	157.00	36.68	366.8
0330206	Blocking Bolt and Nut	10	00009032	0330206	100	15/09/16	201	216.00	4.48	44.8
0330208	Inlet 10mm	10	00009032	0330208	100	15/09/16	224	235.00	2.98	29.8
0330209	Outlet 15 mm	10	00009032	0330209	100	15/09/16	262	277.00	2.97	29.7
0330210	Precision Valve	10	00009117	9901-40	100	04/03/15	99	135.00	34.99	349.9
0330211	Adjustable Valve	10	00009117	9901-18	100	04/03/15	85	99.00	43.51	435.1
0330296	Blanking Bolt	10	00009123	367-6098	150	04/03/15	10	29.00	0.51	5.1
0330212	Gauge Seal	10								
0330213	O Ring Thick	10								
0330214	O Ring Thin	60								
0330216	Screws For Clamp	40								
0390006	Tom Thumb Instruction Manual	10								
0390010	Adjustable Valve Label	10								
0390015	Tom Thumb label	10								
0390016	Address label for Tom Thumb gauge.	10								
0390018	Label: CAUTION Must be used with a flow	10								
0390030	Serial number label TT480	10								
									189.85	1898.5

Final Build Serial numbers					
Stock Reference	Barcode	Serialnumber	Description	Out on Invoice	Date Out
0310030	1009080	0401364		IN147662	09/11/16
0310030	1009081	0401365		WSPS2264	06/01/17 66141
0310030	1009082	0401366		IN148755	11/01/17
0310030	1009083	0401367		IN148755	11/01/17
0310030	1009084	0401368		IN148755	11/01/17
0310030	1009085	0401369		IN148755	11/01/17
0310030	1009086	0401370		WSPS2277	03/02/17
0310030	1009087	0401371		WSPS2277	03/02/17
0310030	1009088	0401372		IN148755	11/01/17
0310030	1009089	0401373		IN148755	11/01/17

This shows all the individual components used to build the unit. (This unit was 1 of a batch of 10)
It also shows the end invoices the units went out on.

Clicking a component part e.g. 0330201:

Stock Reference	Description	Barcode	Serialnumber	Date Booked in	Date Issued out	Booked out by	Production/POR Number
0330201	Main Body Block	958169	Tracking9	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958241	Tracking81	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958242	Tracking82	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958243	Tracking83	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958244	Tracking84	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958245	Tracking85	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958246	Tracking86	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958247	Tracking87	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958248	Tracking88	13/04/2016	10/10/2016	Philip Crossley	POR10628
0330201	Main Body Block	958249	Tracking89	13/04/2016	10/10/2016	Philip Crossley	POR10628

This shows when a component was booked into the system, barcodes / tracking codes, purchase orders and who used the component.

Also from the production PR02226 screen, which is the complete production run for 10 units, the end destination of the units (Invoice out number) and any final Serial numbers are listed.

Clicking an invoice number e.g. IN148755

Brings up the digital view of the invoice:

ORD84331 IN148755 - 1Z9W9638DK69371646 delivery unknown

Delivery Address
00003800
Royal Victoria Infirmary
Electronics & Medical Eng Dept
Queen Victoria Road
Newcastle Upon Tyne
NE1 4LP

IN148755 11/01/2017
Katie Evans Emailed on 13 Jan 2017

Order
ORD84331
(11/01/2017)
Log Error on Order or Invoice

Customer Reference
TD96346
Order Placed by Jane Ateas 0

Invoice Address
0003800
Newcastle Hospitals NHS
Foundation Trust
Accounts Payable
Regent Point, Regent Farm Road
Gosforth, Newcastle upon Tyne
NE3 3HD
0191 282 4069

DO NOT rely on the delivery address if **ACCURATE** delivery address required check opera
Please Note this may not be the complete Invoice - **Services and PnP** Not shown
Currencies are converted to £'s at Date of Order Placed

Quantity	Part Number	Description	Unit Price (exVat / Del)	Total
6	0310030	Tom Thumb TT480	£545.00	£3,270.00

From Invoice File total Charge on Invoice: £3936 Vat Value: £656 Estimate Shipping on Invoice £10
Note Reapirs / Services will messup Shipping Estimate
UPS ACTUAL Charges to US:
0Total Shipping Charge: £

Beyond Normal Sale - Exclude from Export Turnover

Steve Nixon's Sale

Submit

Q.A. Report on All Items Barcode - Serial number Report on All Items Barcode - Serial number Report on All Items Add all items to Print Q

Quantity	Part Number	Description	Unit Price (exVat / Del)	Total
6	0310030	Tom Thumb TT480	£545.00	£3,270.00
	Opera Notes:	Includes: Variable blow off valve, Fixed blow off valve, (predefined level), Patient circuit (si		
	Intrastal Tracking			
	Serial Number	0401366 Date Code 2016-11	Barcode: 1009082	Linked to Invoice by: Catherine Spence
	Includes:	0120140 - (Tracking881819_48)		
	Includes:	3210011 - NeoPEEP 1.0m (Tracking24)		
	Includes:	3210071 - (Tracking971817_86)		
	Serial Number	0401367 Date Code 2016-11	Barcode: 1009083	Linked to Invoice by: Catherine Spence
	Includes:	0120140 - (Tracking881819_45)		
	Includes:	3210011 - NeoPEEP 1.0m (Tracking28)		
	Includes:	3210071 - (Tracking971817_85)		
	Serial Number	0401368 Date Code 2016-11	Barcode: 1009084	Linked to Invoice by: Catherine Spence
	Includes:	0120140 - (Tracking881819_6)		
	Includes:	3210011 - NeoPEEP 1.0m (Tracking29)		
	Includes:	3210071 - (Tracking971817_84)		
	Serial Number	0401369 Date Code 2016-11	Barcode: 1009085	Linked to Invoice by: Catherine Spence
	Includes:	0120140 - (Tracking881819_9)		
	Includes:	3210011 - NeoPEEP 1.0m (Tracking3)		
	Includes:	3210071 - (Tracking971817_83)		
	Serial Number	0401372 Date Code 2016-11	Barcode: 1009088	Linked to Invoice by: Catherine Spence
	Includes:	0120140 - (Tracking881819_5)		
	Includes:	3210011 - NeoPEEP 1.0m (Tracking51)		
	Includes:	3210071 - (Tracking896198_8)		
	Serial Number	0401373 Date Code 2016-11	Barcode: 1009089	Linked to Invoice by: Catherine Spence
	Includes:	0120140 - (Tracking881819_47)		
	Includes:	3210011 - NeoPEEP 1.0m (Tracking53)		
	Includes:	3210071 - (Tracking896198_79)		

Clicking Link to QA from here, will retrieve the QA (design outputs) of the units.

Stock Reference	Barcode	Serial Number	Adjustable Value @ 10lpm 42.1 +/- 1 mbar	Adjustable Value @ 10lpm Minimum to Max of 8cmH2O	Built By	Calibrated Manometer ID	Calibration Date	Customer Requested Maximum Limit	Customers Asset Number (service only)	Gauge cannot be removed without Tools PASS	Gauge is Straight PASS	Labels are attached CE Label	Labels are attached Serial No. Label	Labels are attached Tom Thumb Label	Pass	Precision Value @ 10lpm Maximum 44.1 mbar +/- 1	Pressure Gauge @ 10 lpm Pressure 30cmH2O +/- 1 (28.4 - 30.4 mbar)	Serial Number	Snoop Test No Leaks Pass
'0310030	1009082	0401366	41.5	Yes	Philip Crossley	102075	1483574400			Yes	Yes	Yes	Yes	Yes	Yes	44.3	29.9	0401366	Yes
'0310030	1009083	0401367	42.1	Yes	Philip Crossley	102075	1483574400			Yes	Yes	Yes	Yes	Yes	Yes	44.8	29.4	0401367	Yes
'0310030	1009084	0401368	41.5	Yes	Philip Crossley	102075	1483574400			Yes	Yes	Yes	Yes	Yes	Yes	44.6	29.6	0401368	Yes
'0310030	1009085	0401369	42.0	Yes	Philip Crossley	102075	1483574400			Yes	Yes	Yes	Yes	Yes	Yes	44.7	30.3	0401369	Yes
'0310030	1009088	0401372	42.8	Yes	Philip Crossley	102075	1483574400			Yes	Yes	Yes	Yes	Yes	Yes	44.4	29.6	0401372	Yes
'0310030	1009089	0401373	41.1	Yes	Philip Crossley	102075	1483574400			Yes	Yes	Yes	Yes	Yes	Yes	43.7	29.7	0401373	Yes

Note this is simply one route to QA records. The system is not designed in a straight line, all data in the system is linked and can be found from other parts of the system when required.

For example you start with a component find when it got booked in, what shelf it was stored on, if used in production, what the part it went into, QA of the end products, invoice to the customer and returns information if applicable.

QA a Single Product:

Starts with a Single Input Box

Q.A. Database
Scan Barcode of Product

Scanning a barcode, the system will first check if the user has been trained to QA this item:

An untrained QA employee will see:

Derek Lamb Needs Training Records for QA of 0310030 NOT FOUND Request Training
VM3COP50.13 Quality Control Tom Thumb Last Read Wed/08/17 VM3COP50.02 Tom Thumb production procedures TT480 (0310030) Last Read Wed/08/17 VM3COP50.15 Packaging Procedures Tom Thumbs Last Read Fri/07/17 VM3COP50.14 Calibration / Test Sheet Blank Tom Thumbs Last Read Thu/08/17 VM3COP50.18 Tom Thumb Infant Resuscitator Calibration Certificate Template Last Read Thu/08/17

A Trained Employee will see:

Derek Lamb Trained on QA of 0310030 on the 10 Dec 2007 by Catherine Spence

VM3COP50.13 Quality Control Tom Thumb Last Read Wed/08/17
 VM3COP50.02 Tom Thumb production procedures TT480 (0310030) Last Read Wed/08/17
 VM3COP50.15 Packaging Procedures Tom Thumbs Last Read Fri/07/17
 VM3COP50.14 Calibration / Test Sheet Blank Tom Thumbs Last Read Thu/08/17
 VM3COP50.18 Tom Thumb Infant Resuscitator Calibration Certificate Template Last Read Thu/08/17

0310030 (0401366)
QA

ALL Values in the Form Below are Suggested Values from Previous QA Session, Change as Required!!!

2173	Customer Requested Maximum Limit	
804	Serial Number	0401366
805	Calibration Date	Find Date Code 1503920312
806	Snoop Test No Leaks Pass	▼
807	Adjustable Value @ 10lpm Minimum is Max of 8cmH2O	▼
2835	Adjustable Value @ 10lpm 42.1 +/- 1 mbar	
809	Precision Value @ 10lpm Maximum 44.1 mbar +/- 1	
810	Pressure Gauge @ 10 lpm Pressure 30cmH2O +/- 1 (28.4 - 30.4 mbar)	
811	Gauge cannot be removed without Tools PASS	▼
812	Gauge is Straight PASS	▼
813	Labels are attached CE Label	▼
814	Labels are attached Serial No. Label	▼
815	Labels are attached Tom Thumb Label	▼
816	Built By	Philip Crossley ▼
871	Calibrated Manometer ID	Cal due: May/2018 102062
1414	Pass	▼
2009	Customers Asset Number (service only)	

Also of note – the QA cannot proceed if any of the QMS documents associated with the product have not been read by the user. This includes if a document has had any sort of update. Regardless of time read, the QMS procedure is immediately available to the user for review by clicking the link.

QA Controls on Shipping to customers

Behind each and every product code in the system there is an option screen as part of it.

View Active QA Form	Digital QA Form
Atmosphere Readings	Add to QA LOG
All Units QA'ed ▼	QA Type (ALL will Block Orders Shipping until item is QA'ed)

Setting a product code to All Units QA'ed, will prevent any of the stock from leaving the building, unless the product has passed QA.

Demonstrating the system as a series of flat PDF documents, as part of a product technical file is no longer straight forward e.g. the PMS reports on products, works in much the same way as demonstrated above on the Product Design and Quality Control. From customer complaints, product feedback, customer returns, shipping delays, supplier reviews etc.

All the information to carry out the review, is on hand at the time of the review. The end report such as ID17690 is proof the surveillance has been carried out so it can be logged in the technical file

Regards

Derek Lamb
28 August 2017