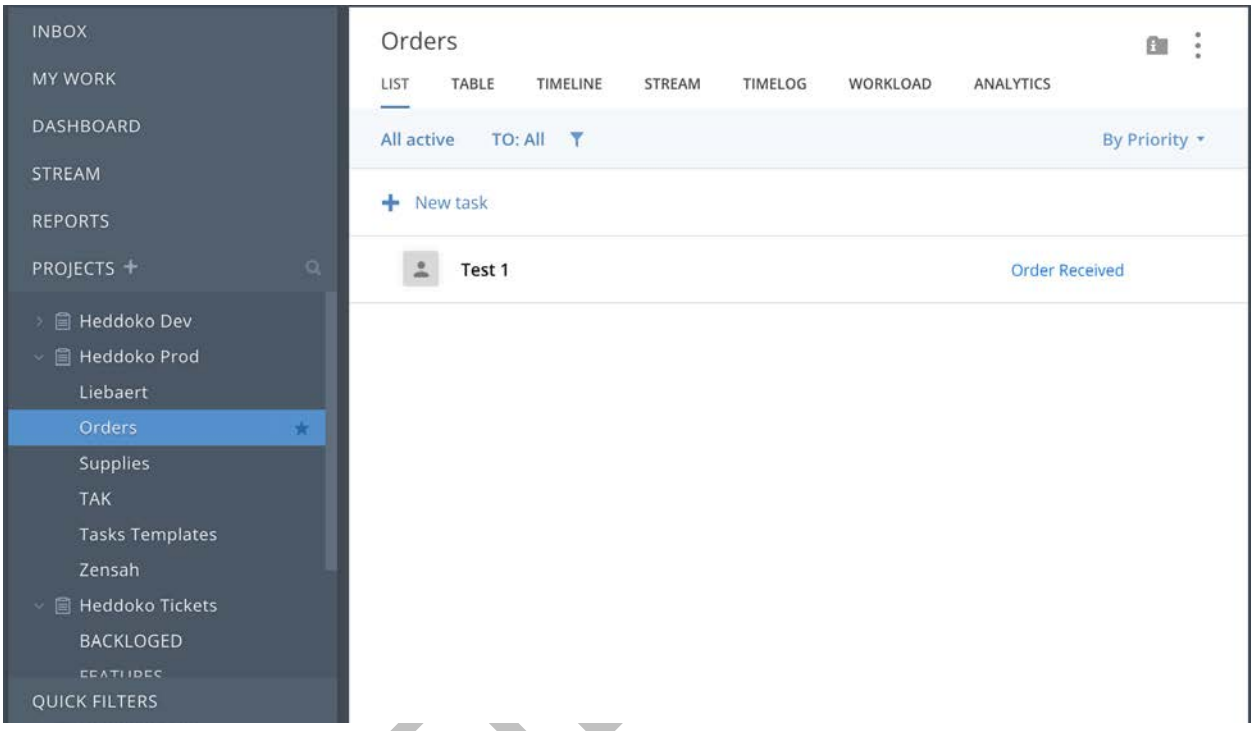
Heddoko Quality Control – Deployment Testing Steps

Lisa Zane

CONFIDENTIAL

New Orders

The sales team will input new orders into Wrike under Projects > Heddoko Prod > Orders:



(All related project information will be available on QNAP under /Heddoko/03_SALES/ Current Customers.)

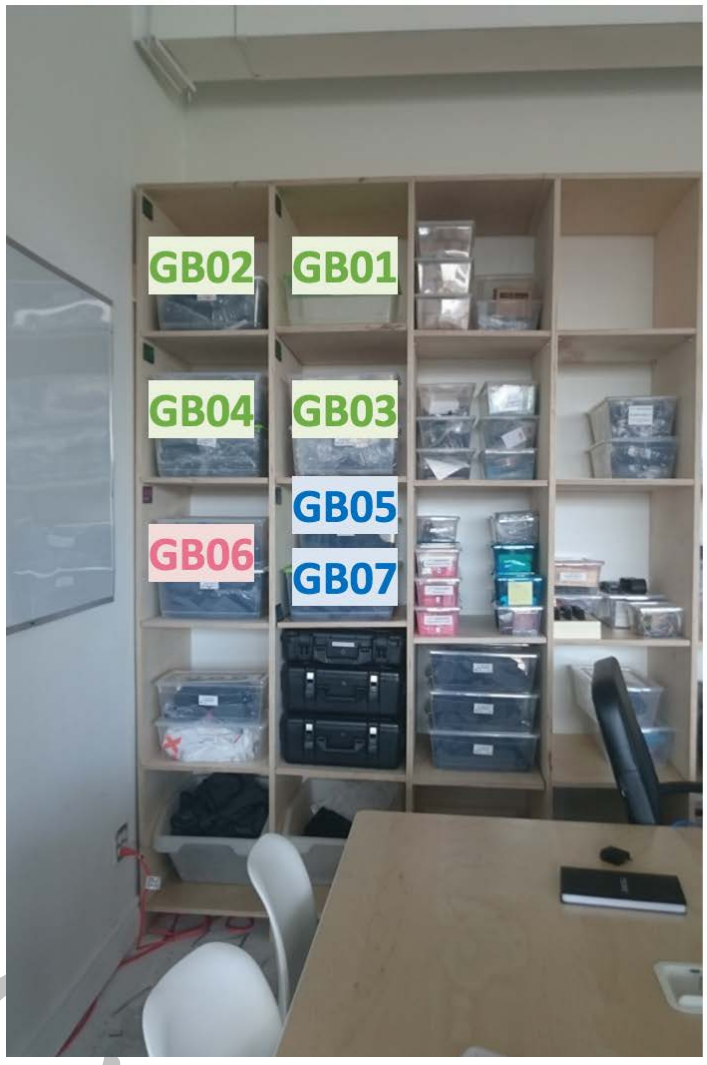
In Wrike, check:

1. The priority of the shipment
2. The required components (i.e. # of full suits vs. base suits)
3. Suit sizes required

CONFI

Deployment Testing Steps

1. Once the order requirements have been determined, go to the inventory wall and pull the required hardware and garment components from the “READY” bin.

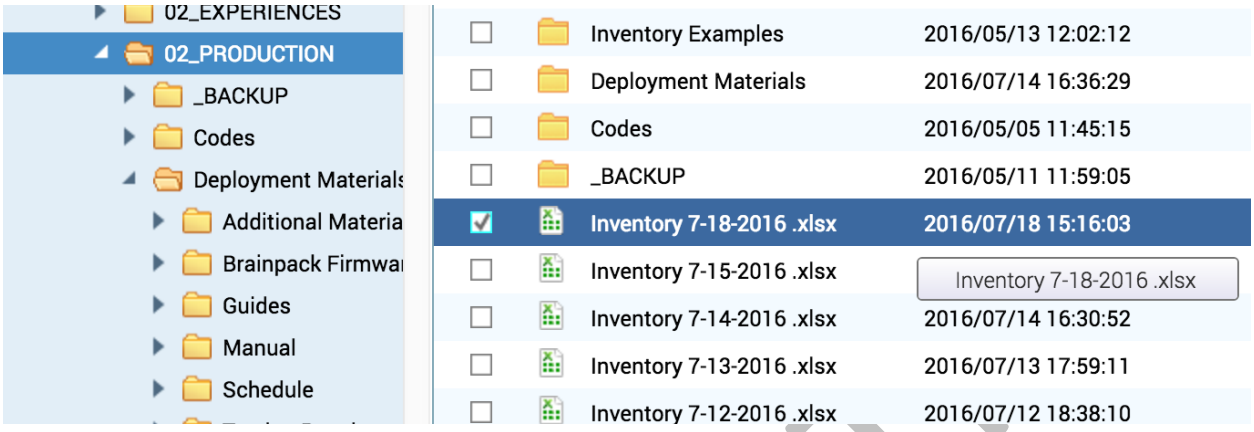


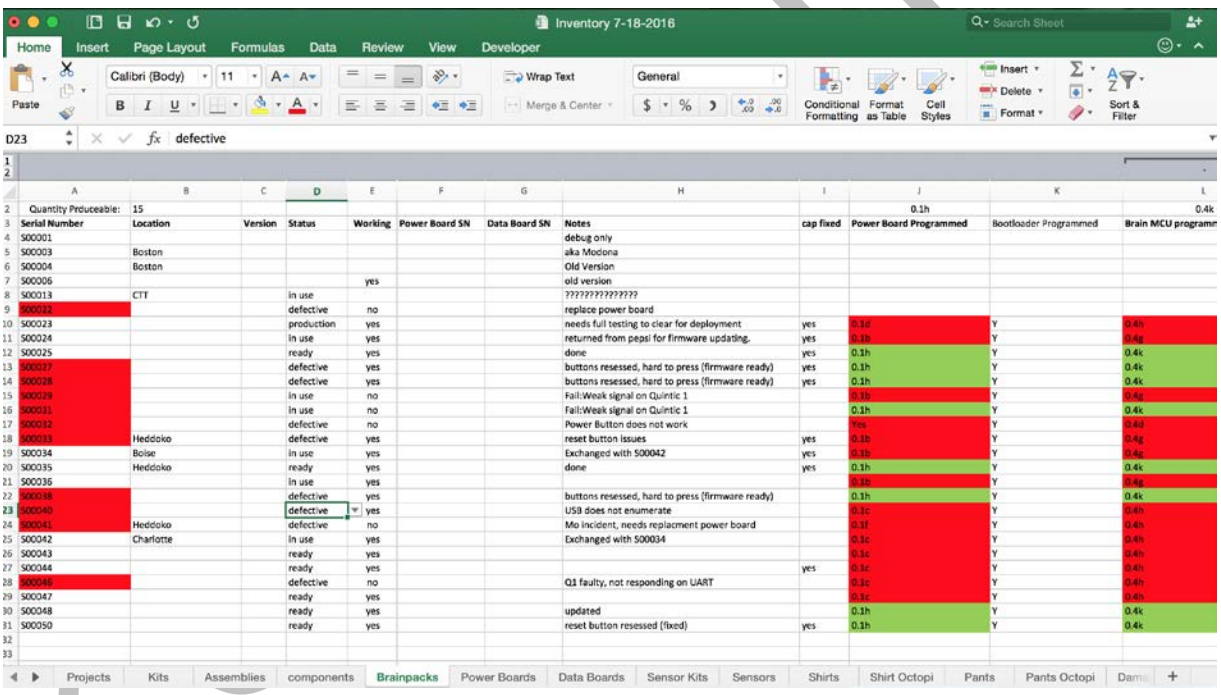
Green:	Ready to package
Pink:	To be repaired
Blue:	In production

GB01: Large Shirt
GB02: Large Pants
GB03: Small Shirt
GB04: Small Pants
GB05: In production
GB06: In Repair
GB07: In Verification

For contents refer to Inventory

2. Update the inventory list in QNAP (/Heddoko/02_PRODUCTION) based on the specific components that were pulled.

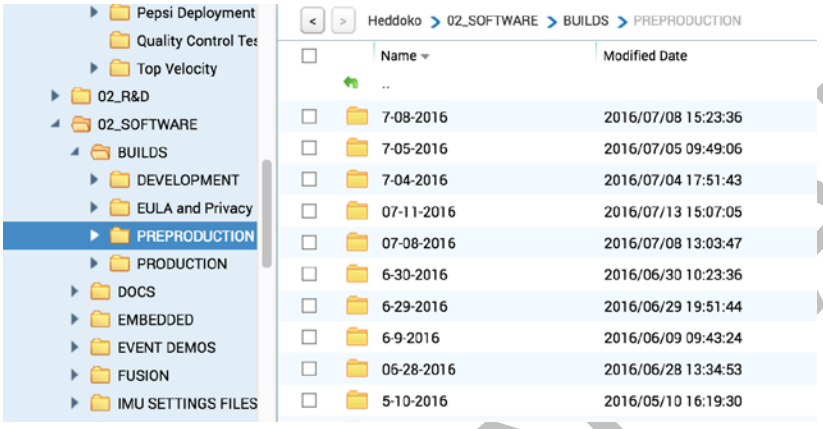




Note: “Save As” the current date and make sure this is reflected on QNAP.

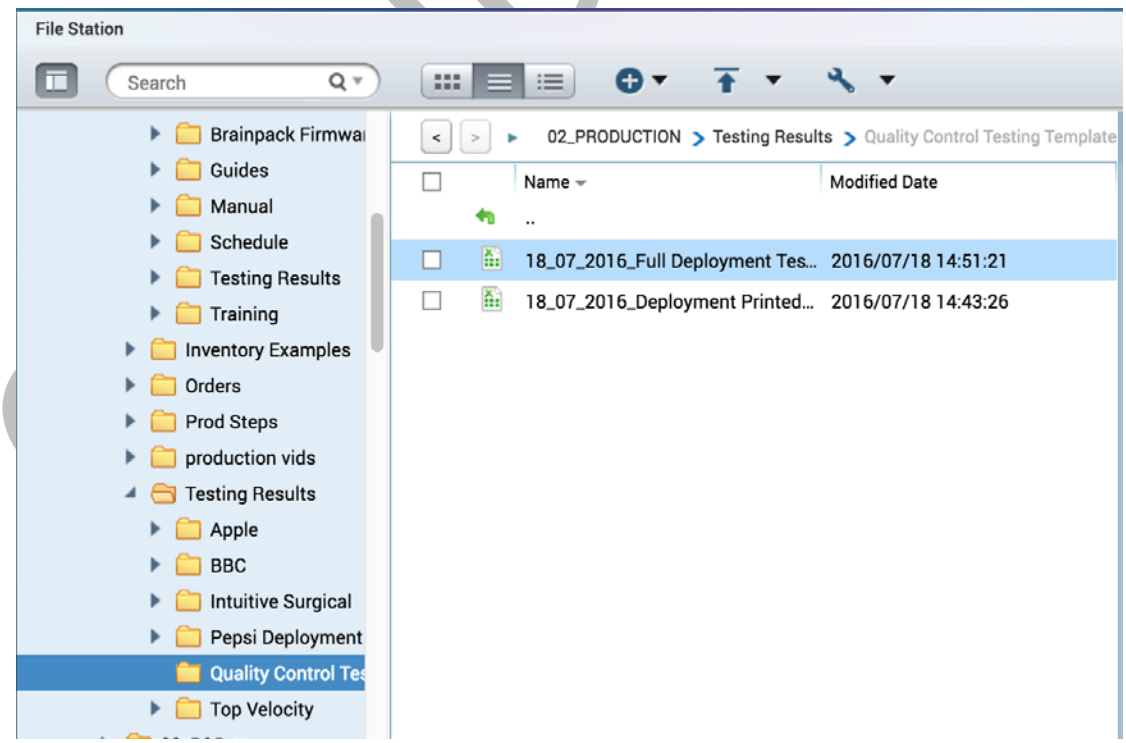
3. Install the correct pre-production software build on the MSI. Check with Mohammed Haider to determine which pre-production software build to install. The pre-production builds are located on QNAP here:

   /Heddoko/02_SOFTWARE/BUILDS/PREPRODUCTION

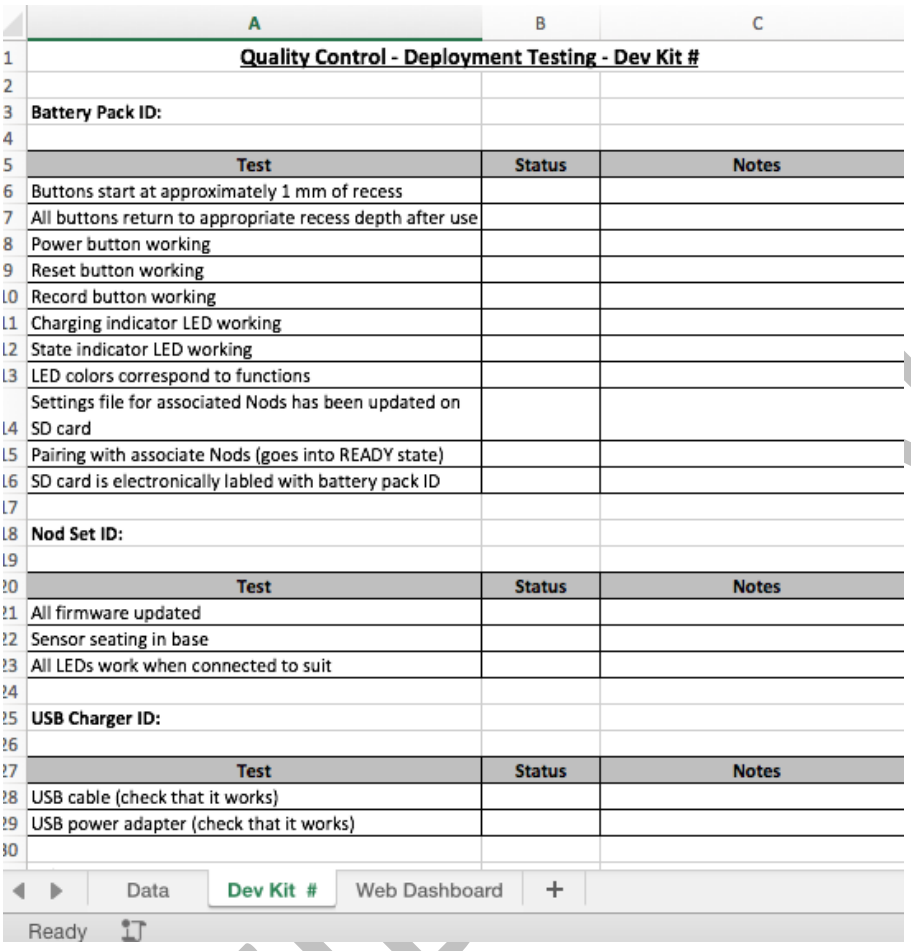


4. Open the “18_07_2016_Full Deployment Testing – Template” located on QNAP here:

   /Heddoko/02_PRODUCTION/Testing Results/Quality Control Testing Templates



CONFIDENTIAL



	A	B	C
1	**Quality Control - Deployment Testing - Dev Kit #**		
2			
3	**Battery Pack ID:**		
4			
5	**Test**	**Status**	**Notes**
6	Buttons start at approximately 1 mm of recess		
7	All buttons return to appropriate recess depth after use		
8	Power button working		
9	Reset button working		
10	Record button working		
11	Charging indicator LED working		
12	State indicator LED working		
13	LED colors correspond to functions		
14	Settings file for associated Nods has been updated on SD card		
15	Pairing with associate Nods (goes into READY state)		
16	SD card is electronically labled with battery pack ID		
17			
18	**Nod Set ID:**		
19			
20	**Test**	**Status**	**Notes**
21	All firmware updated		
22	Sensor seating in base		
23	All LEDs work when connected to suit		
24			
25	**USB Charger ID:**		
26			
27	**Test**	**Status**	**Notes**
28	USB cable (check that it works)		
29	USB power adapter (check that it works)		
30			

Update the sheet with the Kit # you are currently testing (if unsure, iterate based on the last Kit deployed) in the header and the worksheet tab. Go through the entire testing protocol and input each unique component ID being tested.

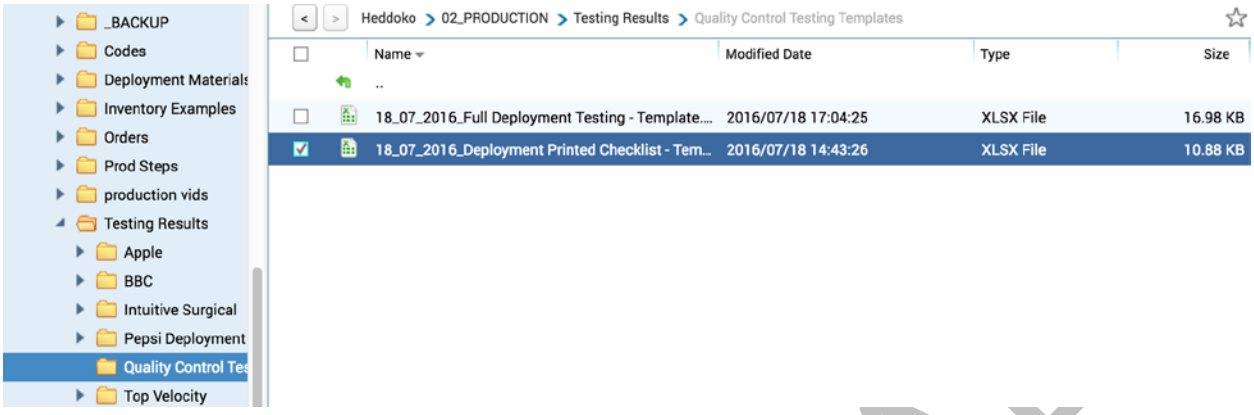
If all items in checklist qualify as “PASS”, continue to step 5. If any items qualify as “FAIL”, refer to “Protocol for Failed Tests” below.

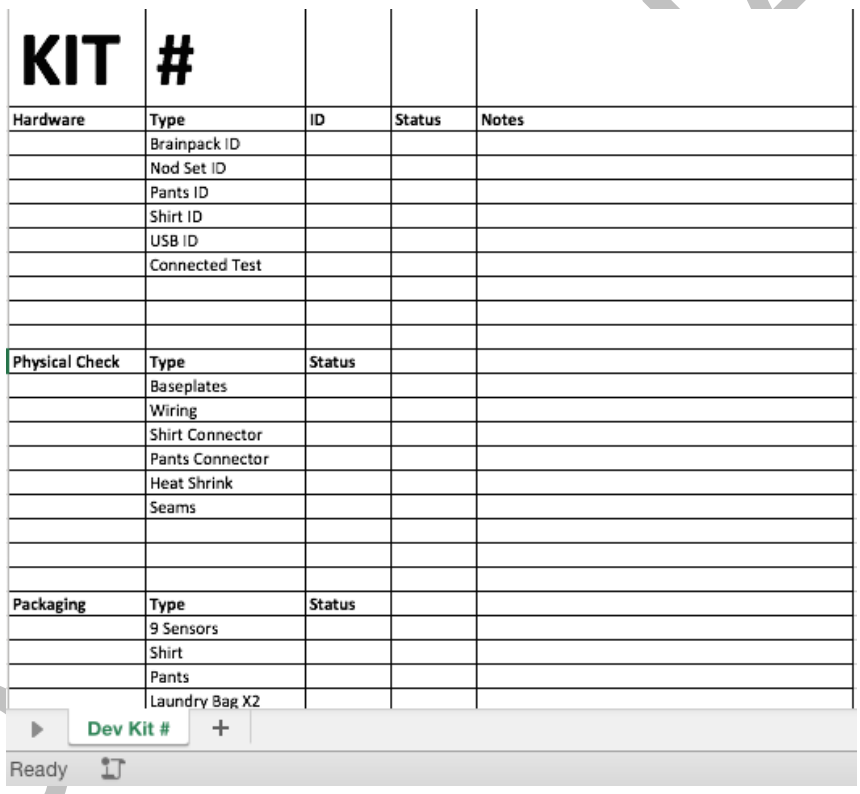
5. Pull the required number of packaging cases (and accompanying cardboard boxes and shoulder straps)

6. Open the “18_07_2016_Deployment Printed Checklist - Template” located on QNAP here:

   /Heddoko/02_PRODUCTION/Testing Results/Quality Control Testing Templates

CONFIDENTIAL





KIT	#			
Hardware	**Type**	**ID**	**Status**	**Notes**
	Brainpack ID			
	Nod Set ID			
	Pants ID			
	Shirt ID			
	USB ID			
	Connected Test			
Physical Check	**Type**	**Status**		
	Baseplates			
	Wiring			
	Shirt Connector			
	Pants Connector			
	Heat Shrink			
	Seams			
Packaging	**Type**	**Status**		
	9 Sensors			
	Shirt			
	Pants			
	Laundry Bag X2			

Dev Kit #

Ready

Update the sheet with the Kit # you are currently testing in the header and the worksheet tab. Print this sheet.

Go through the entire checklist and manually write the status of each component checked. If all items in checklist qualify as “PASS”, continue to step 7. If any items qualify as “FAIL” refer to “Protocol for Failed Tests” below.

7. Send Diana Horqque an email identifying each unique component ID number for Kit(s) to be deployed. This information is required in order to print and laser cut Kit Information Cards.

8. When all components and cards have been gathered, assemble Kit. When fully assembled, ask either Jonathan Olesik or Lisa Zane to sign off on testing results and checklist to approve Kit for deployment.

9. Once Kit(s) is/are shipped, update “Projects” sheet in inventory list with information regarding Kit(s) deployed.

CONFIDENTIAL

HEDDOKO

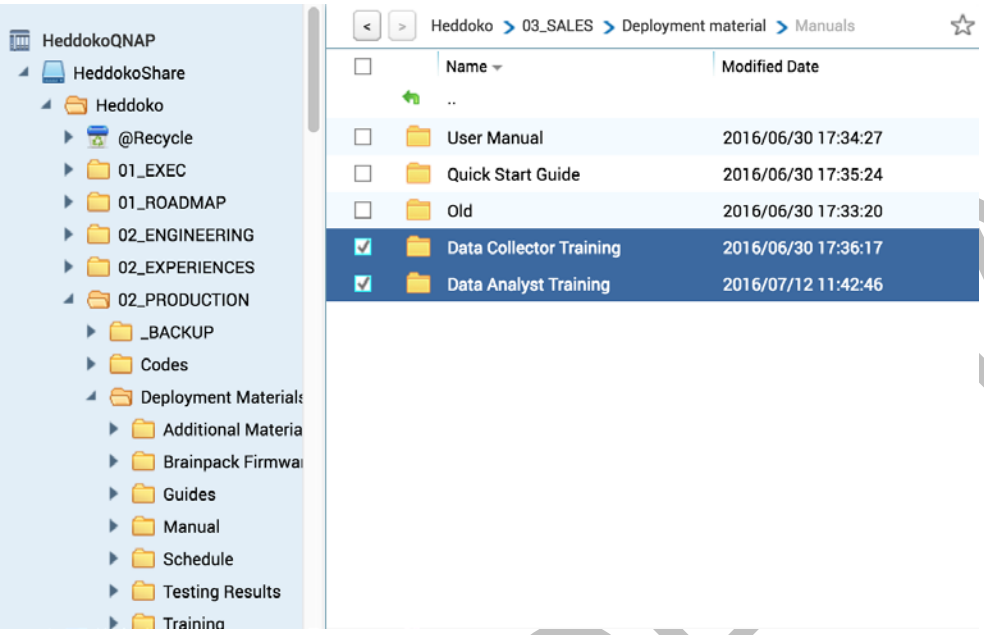
Project	Kits	Status	Notes
PepsiCo.			
	Kit 1	Deployed	Boise, ID
	Kit 9	Deployed	Charlotte, NC
	Kit 3	Deployed	Rosenburg, TX
	Kit 4	Deployed	Huston, TX
	Kit 10	Deployed	San Antonio, TX
Top Velocity	Kit 11	Deployed	Mandeville, LA

Projects | Kits | Assemblies | components | Brainpacks

CONFIDENTIAL

10. Identify the most up-to-date Data Analyst and Data Collector Training Materials to send to the customer on QNAP here:

    /Heddoko/03_SALES/Deployment material/Manuals

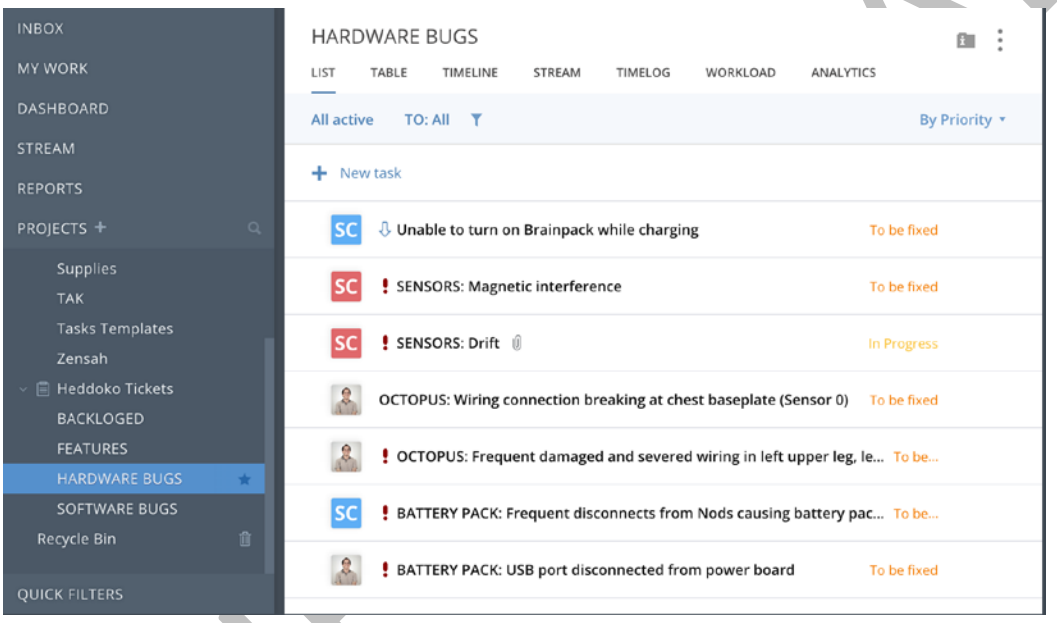


CONFIDENTIAL

Protocol for Failed Tests

HARDWARE:

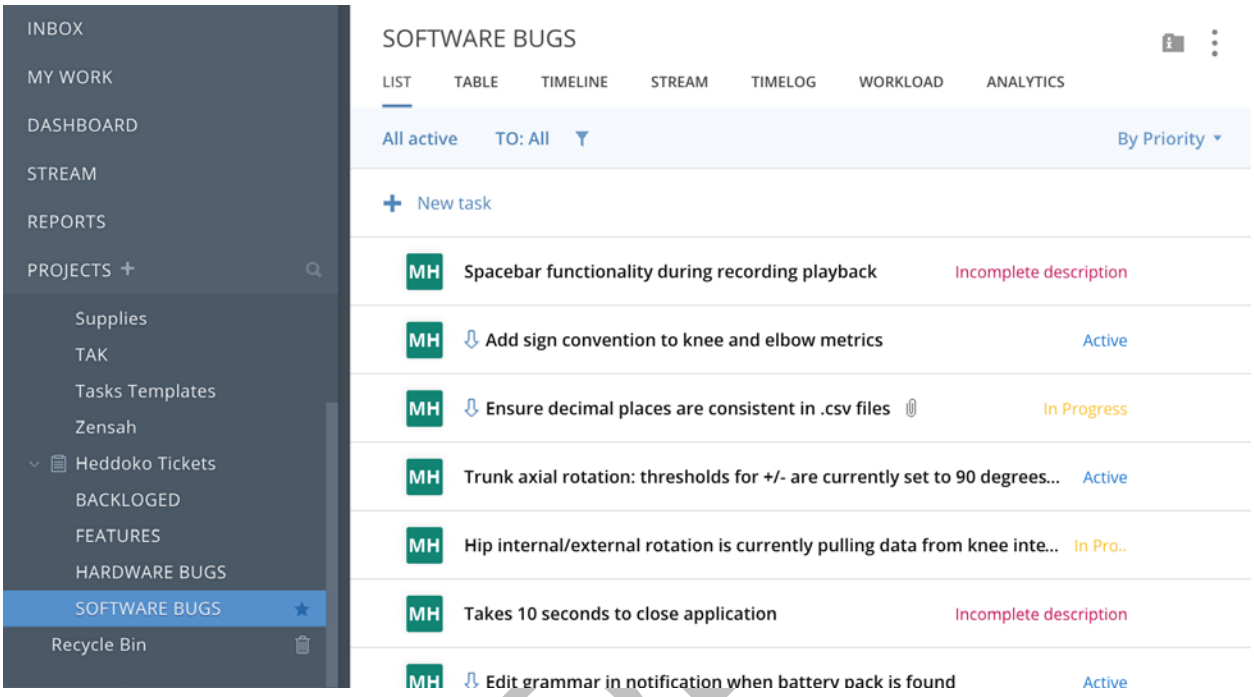
If any hardware components (battery pack, Nods, garment) fail any tests, the inventory list should be updated to reflect these issues. The component in question should then be placed in the appropriate bin (i.e. for verification or repair). Additionally, these issues should be filed as a ticket in Wrike under “Hardware Bugs”.



CONFIDENTIAL

SOFTWARE:

If any software elements fail any tests, these issues should be filed as a ticket in Wrike under “Software Bugs”.



Note: If any hardware or software elements fail tests, the testing protocol should be repeated with components that are “Ready” and software that has been updated to reflect bug fixes prior to deployment.

CONFID