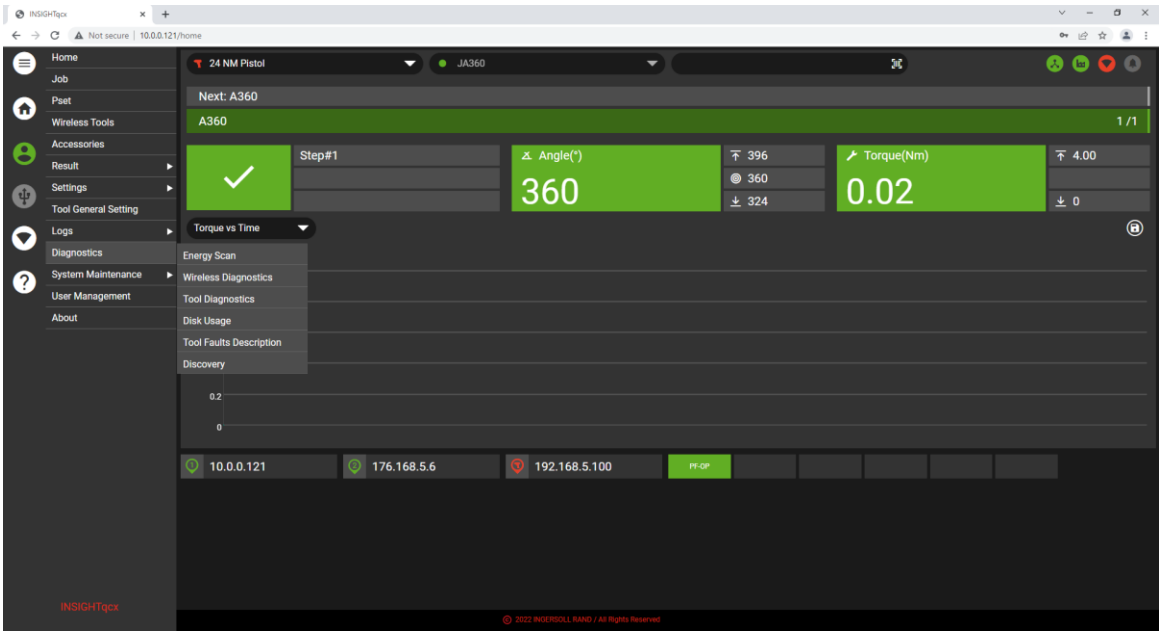
Updating Wireless Settings for a Controller in Production

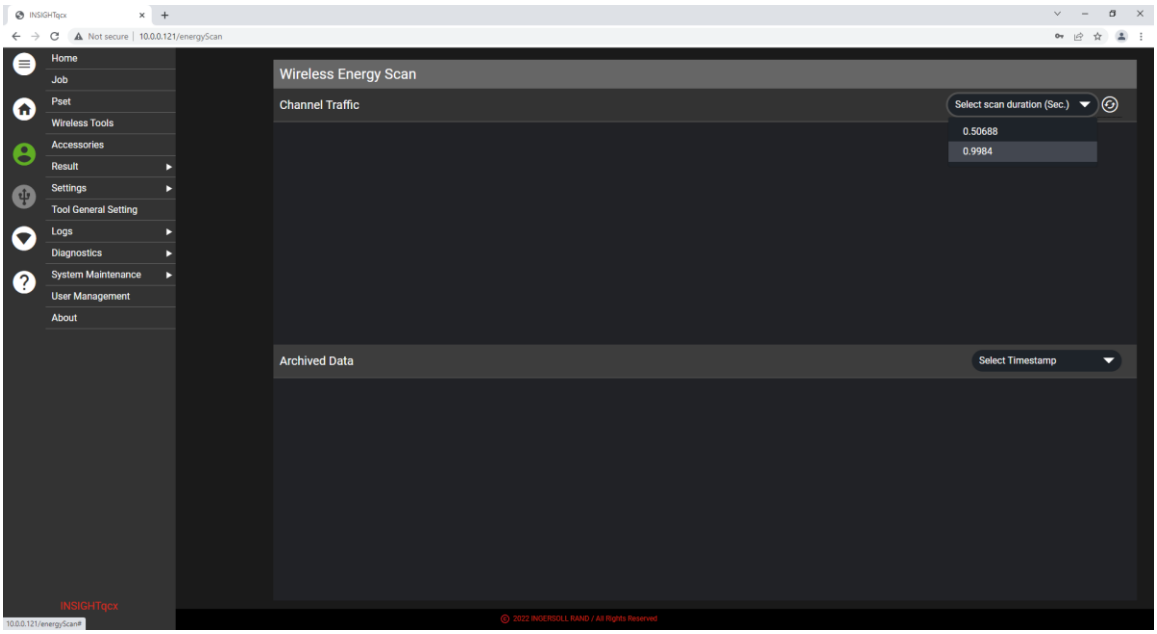
** Applies to controllers running 100.x.x.x or greater firmware

Step 1) Wireless Energy Scan

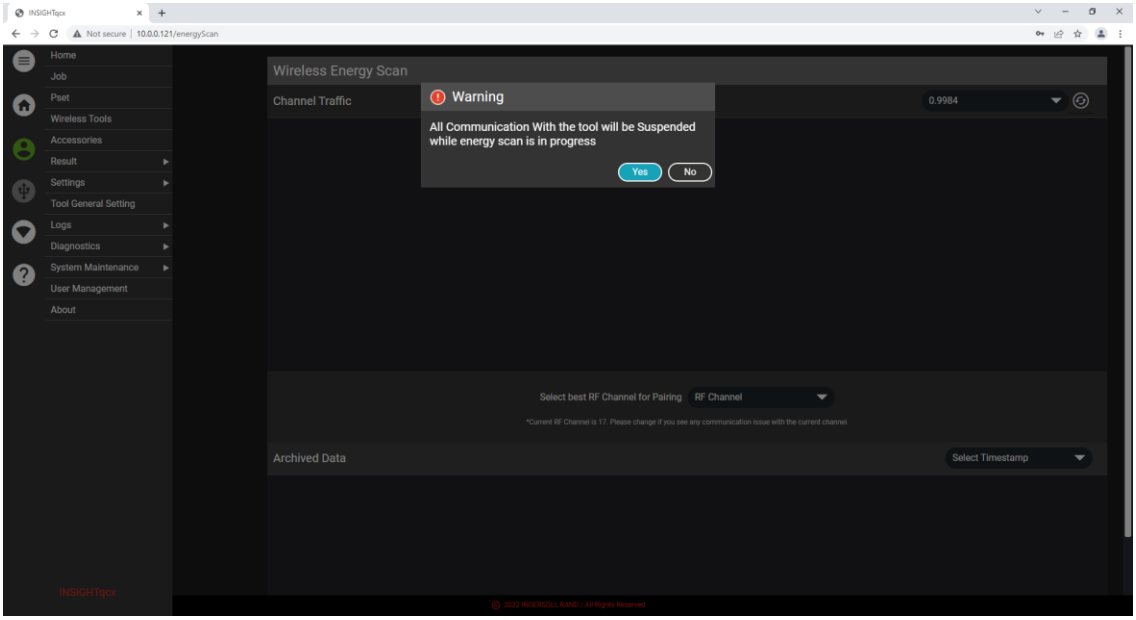
After logging in to the controller, navigate to the Diagnostics->Energy Scan screen:



Select scan duration of 0.9984



The energy scan disables communications with the tool for the duration of the scan. It is not recommended to perform the energy scan while production is running. Press the Yes button to initiate the scan.

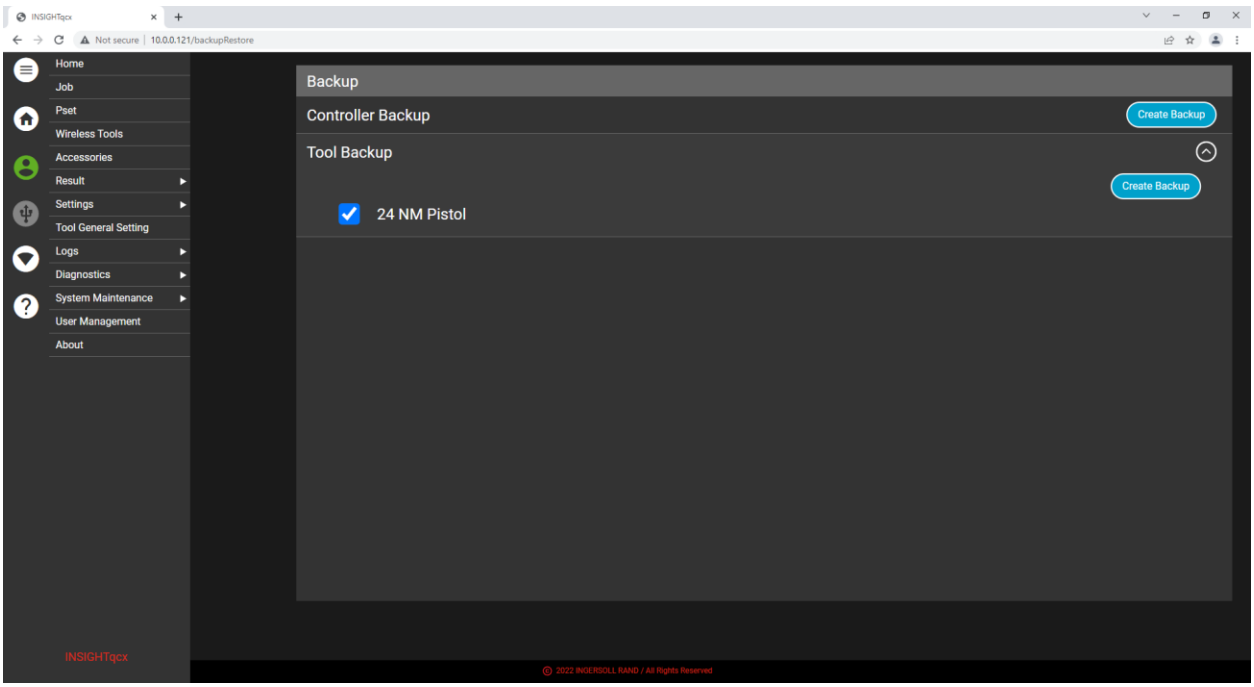


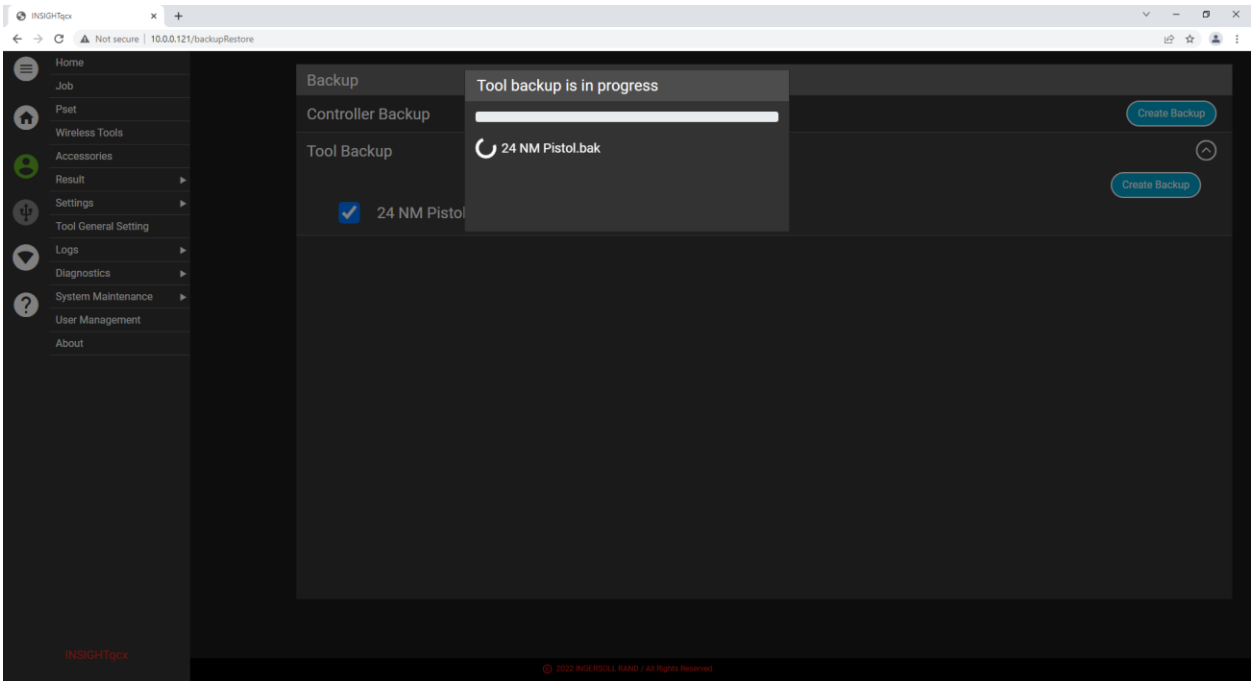
After the scan completes, a table will show with the energy levels observed on all channels. Channel 25 is used for pairing and cannot be selected. Usually channels 15 and 20 are the quietest. On the screenshot below, these channels are high as there are controllers and tools using these channels nearby. Channel 17 will be chosen for this example.

Step 2) Tool Backup

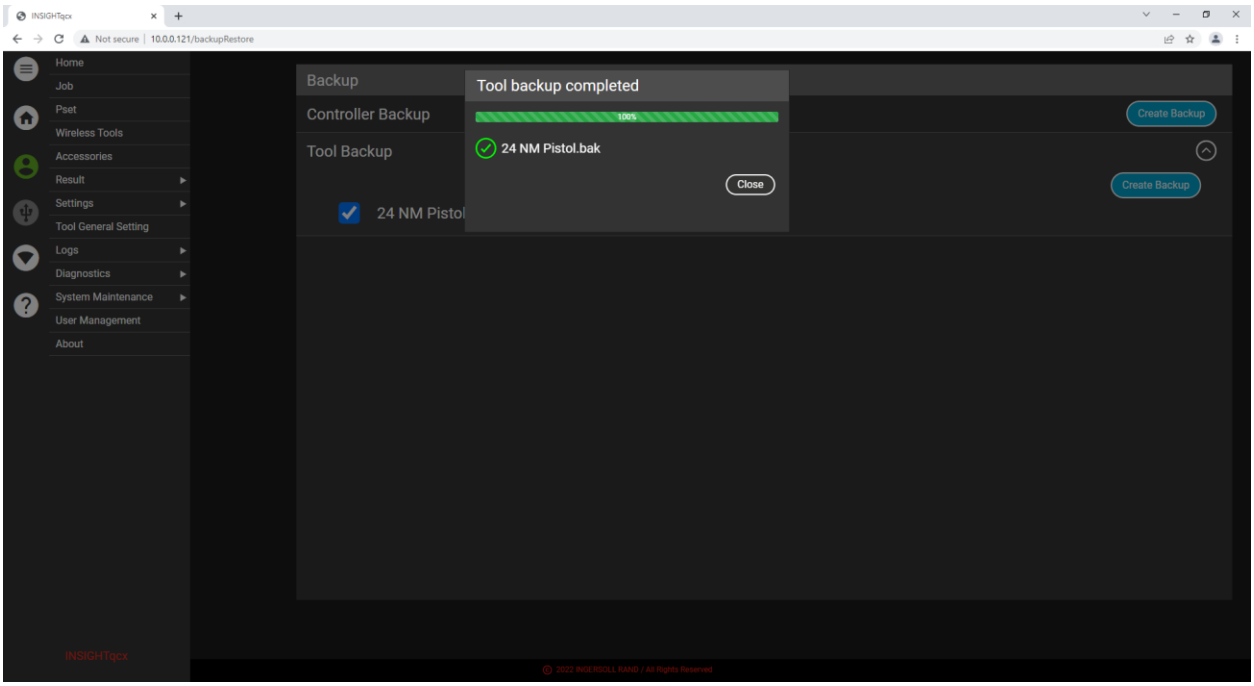
Navigate to the System Maintenance -> Backup screen

Expand on Tool Backup. A list of tools currently paired with the controller will be shown. A separate backup must be performed for each tool. Check the box(es) next to each tool and press the Create Backup button in the Tool Backup pane.



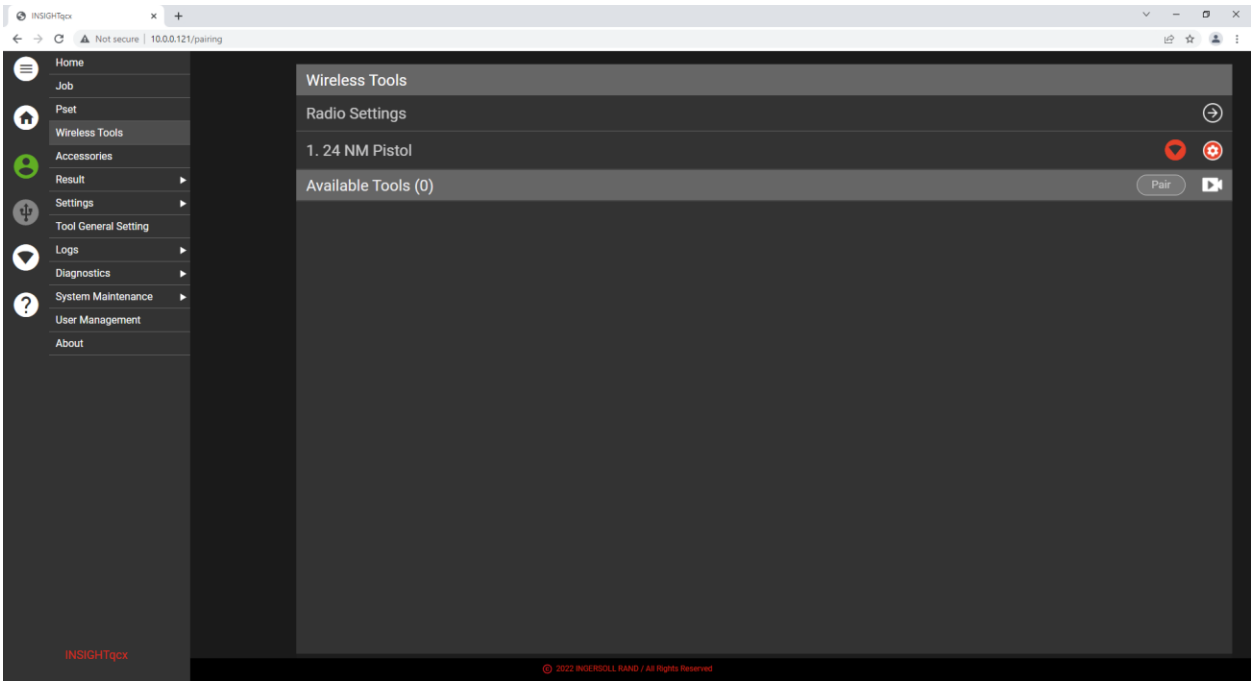


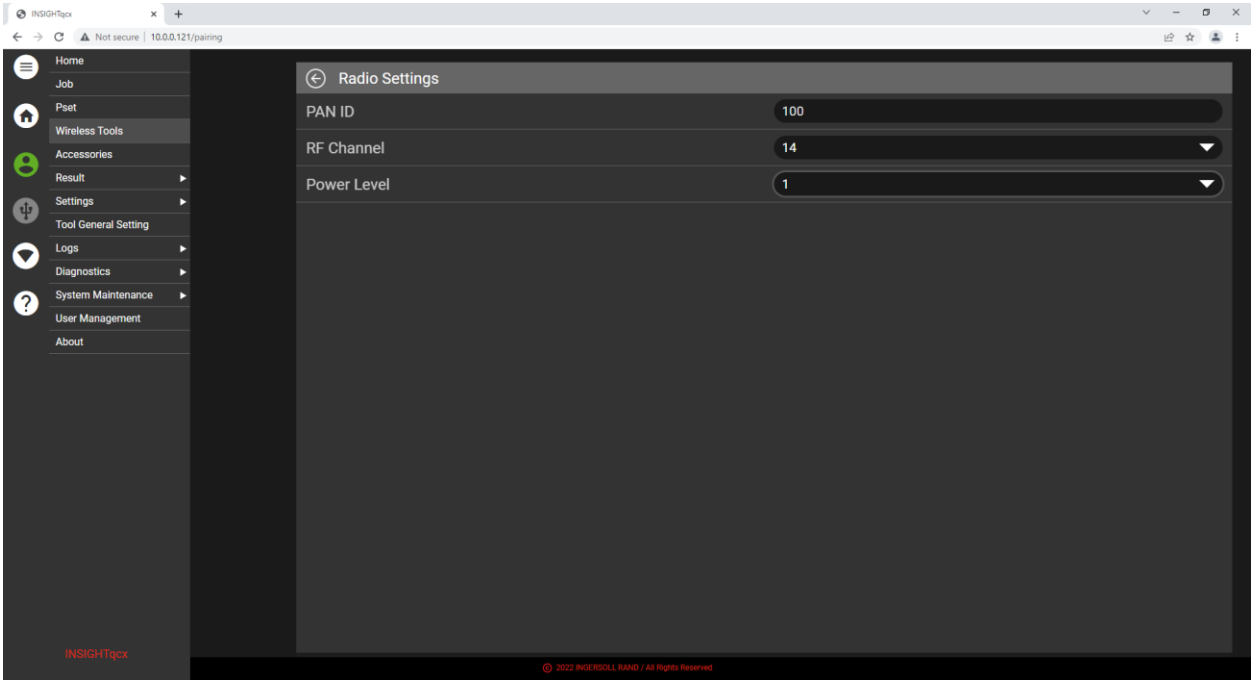
Press the Close button.



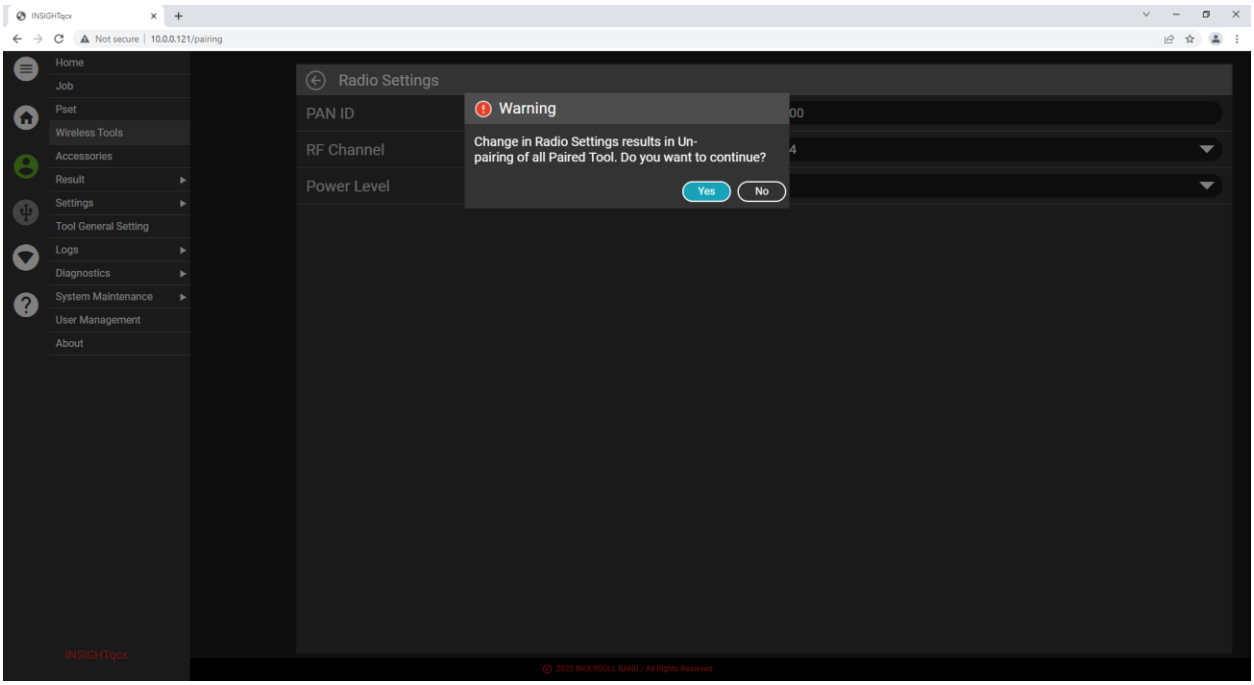
Step 3) Change Wireless Settings

Navigate to the Wireless Tools screen and expand the Radio Settings.



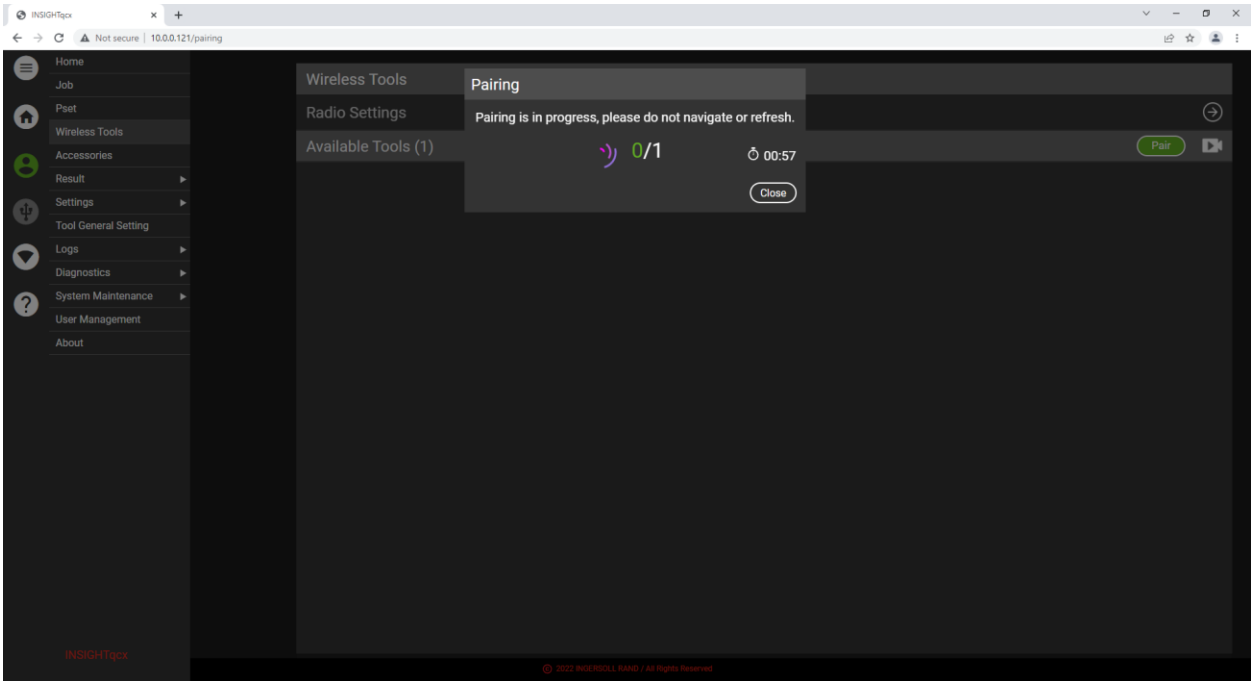


Change the RF Channel to the desired channel. In this case it will be 17. Change the Power Level to 4 for maximum power/distance. Press the arrow next to the Radio Settings heading. A popup will appear warning that the tools will be unpaired. Press the Yes button to unpair the tool(s).



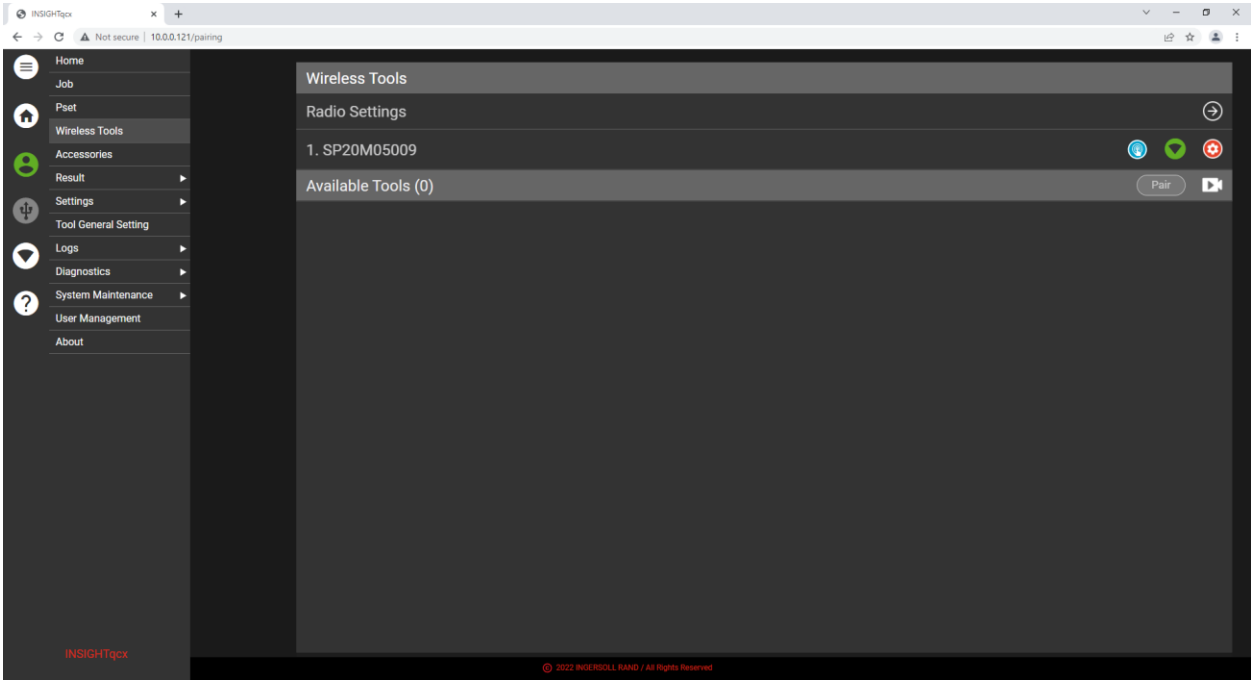
Step 4) Pair the Tool(s)

Click on the Pair button and put the tool(s) in pairing mode.



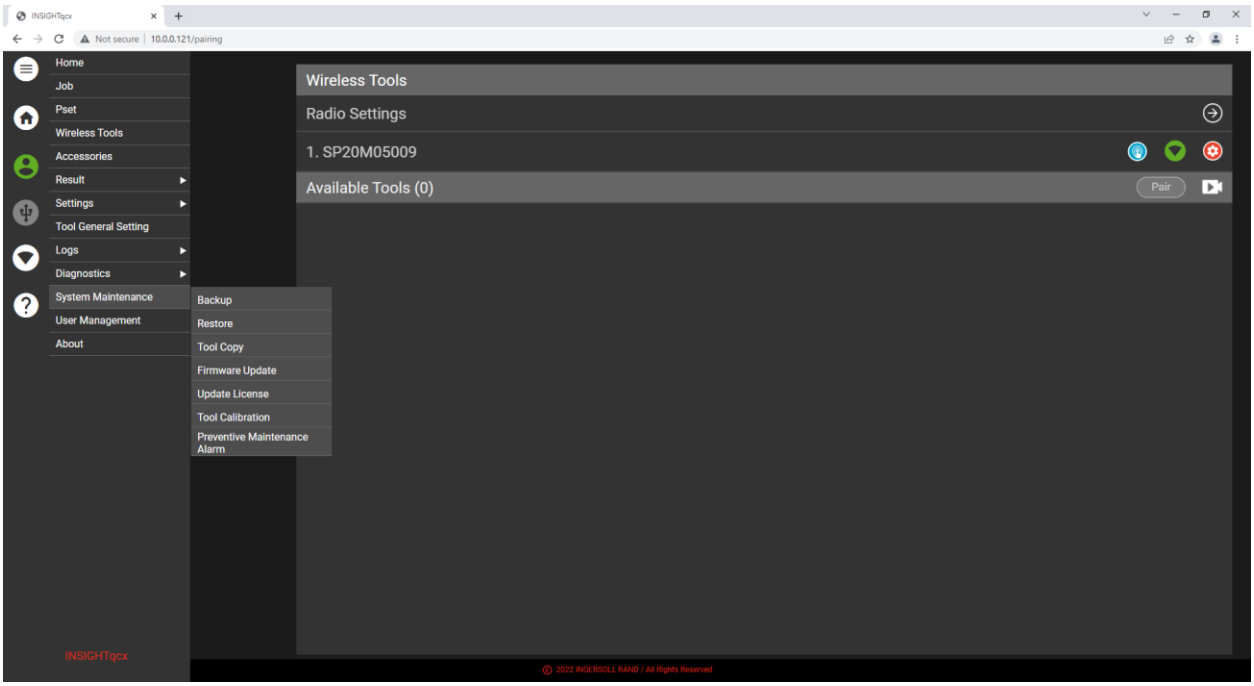
When the number of tools that you are pairing matches on the screen you can press the Close button. (For example, on a 4:1 controller and you are pairing 2 tool, as soon as the screen shows 2/4 you can

select the close button.) The tools will be displayed by tool serial number. They can be renamed as needed. The name is not currently saved as part of the backup.

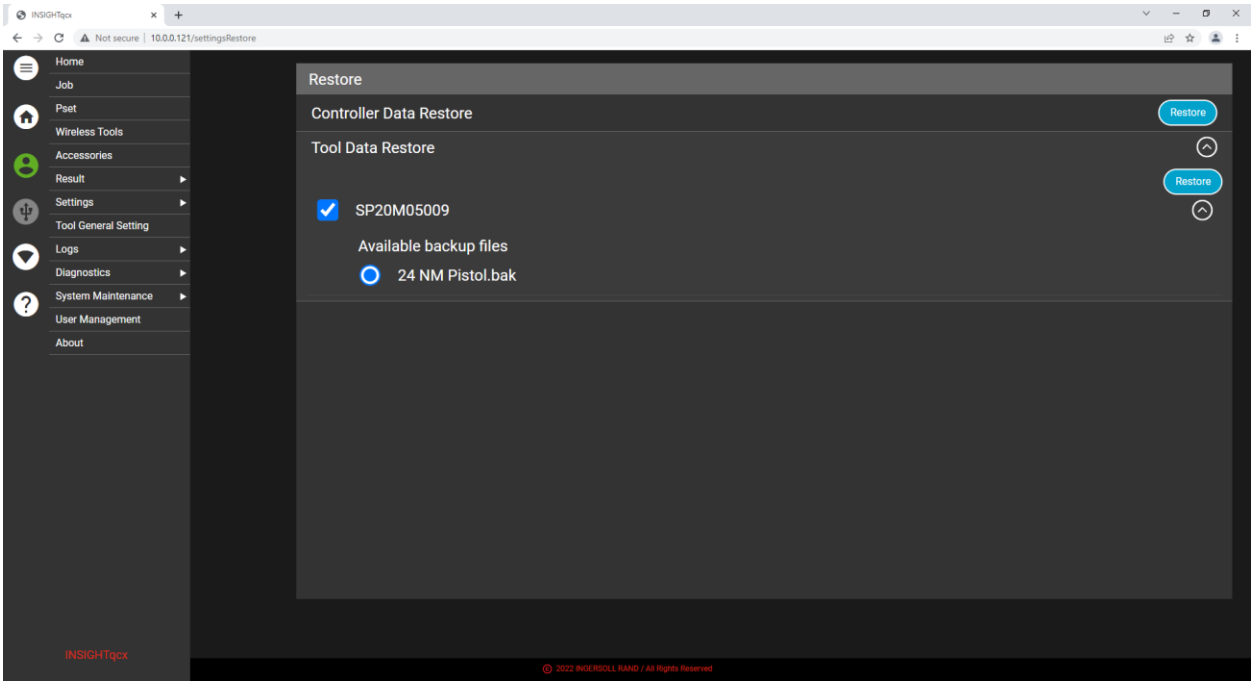


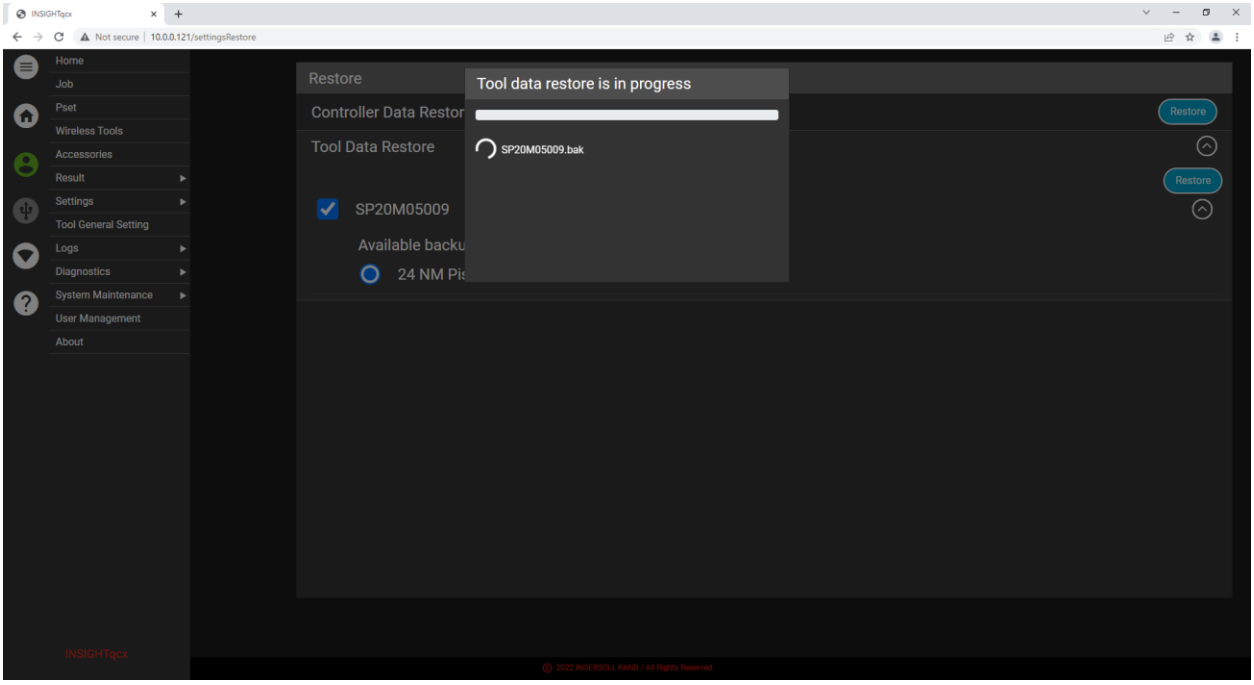
Step 5) Tool Restore

Navigate to the System Maintenance -> Restore screen.



Expand the Tool Data Restore. A list of paired tools will be display. Check the box for the first tool to restore. A selection will appear with the saved tool backup files. Select the appropriate file and then press the Restore button in the Tool Data Restore pane.

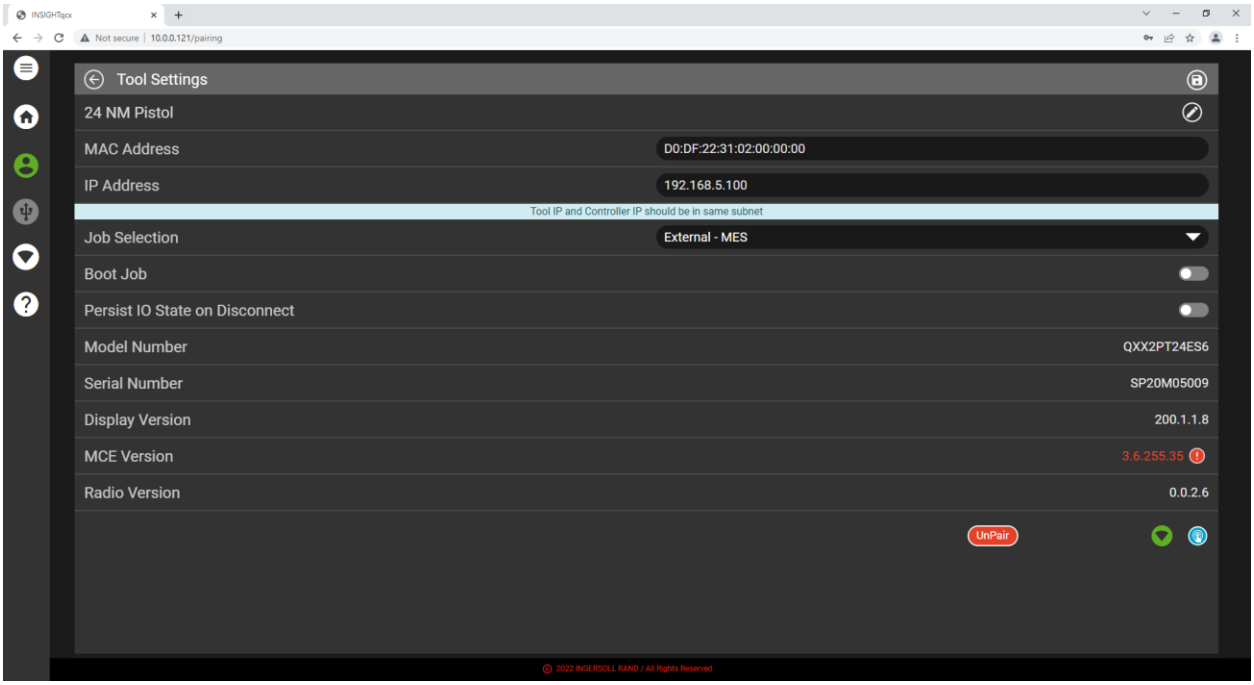




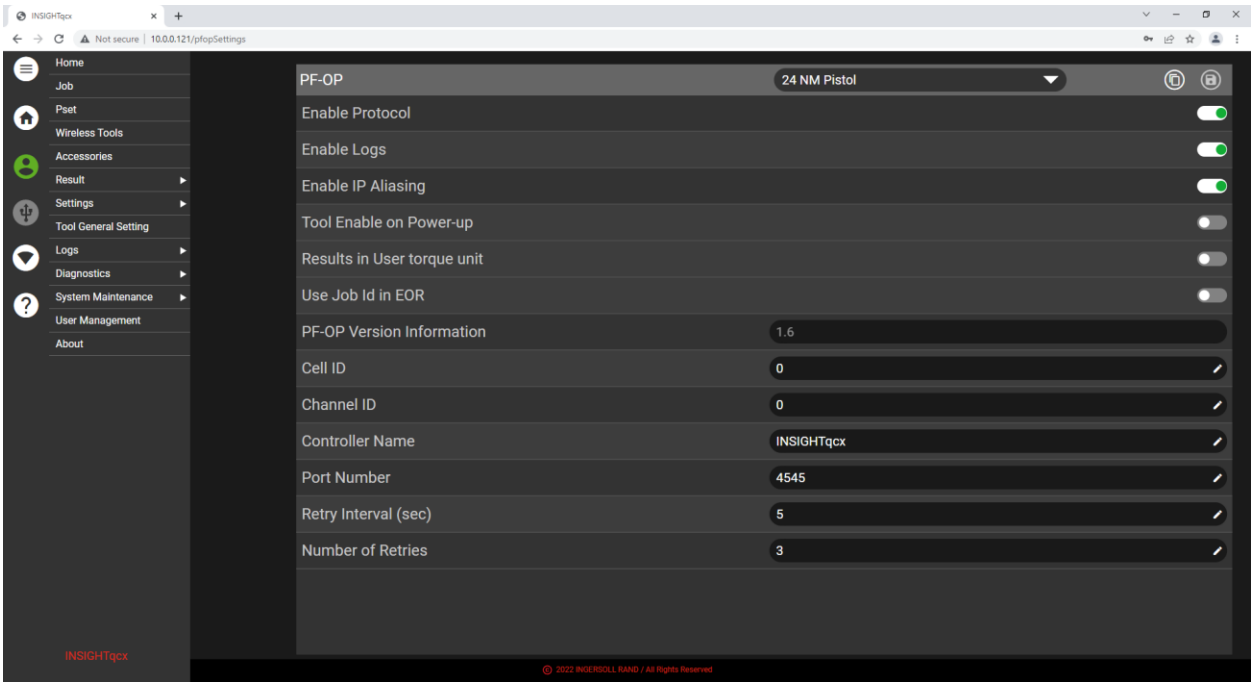
The controller will reboot when the tool backup is complete. Repeat this process for all paired tools.

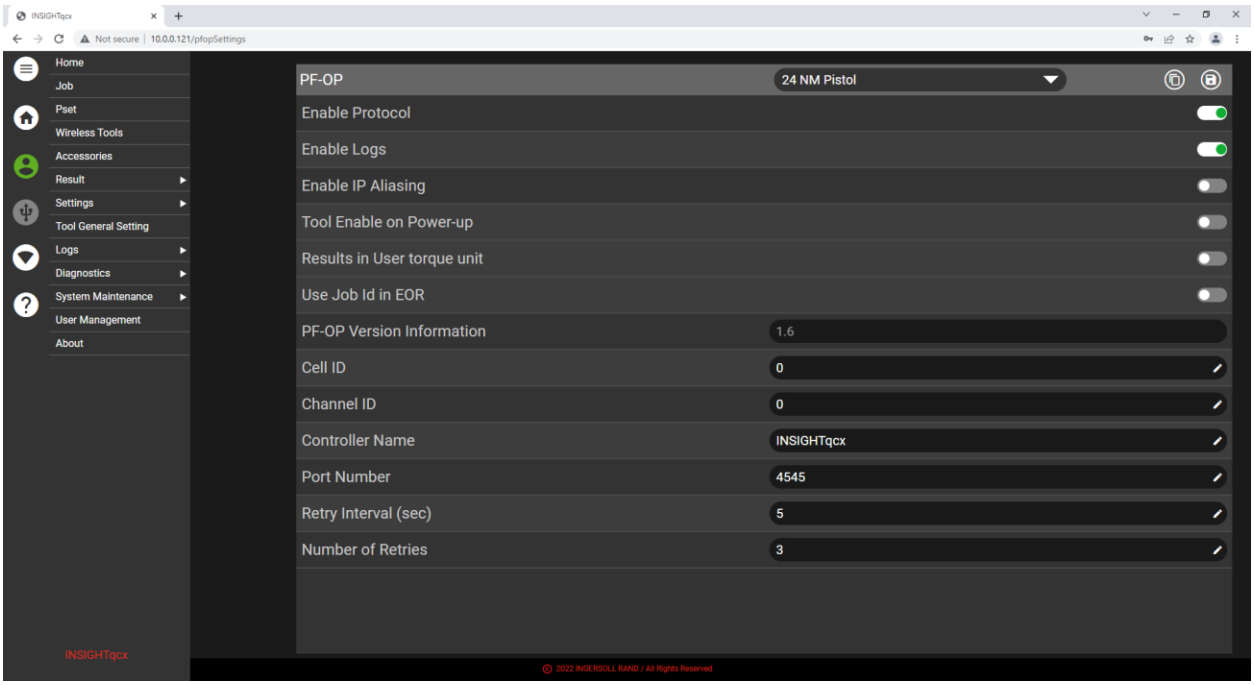
Step 6) Finalizing and Verifying

If not already done, navigate to the tool settings and rename the tool. Change the tool IP address to be outside the network if not using IP aliasing. (For example, 192.168.5.100/192.168.5.101, etc.) Press the save button.



There is a known bug in the Restore functionality that the PF-OP settings do not remember IP Aliasing being off and reverts to on. If it intended to be off, navigate to the PF-OP settings screen and disable for each tool. Remember to save the settings.





At this point, all Jobs/Psets and settings should be restored and the tools able to communicate on the new channel and power level.