



How To Update Software for Autonomous Cleaning Equipment

When and Why Do I Need to Update X4 ROVR Software?

- The X4 is an autonomous machine from Tennant Company that leverages software with BrainOS
- It is best practice to have the latest software on autonomous cleaning equipment
- Software updates are pushed over the air regularly to machines
- The software download typically happens automatically in the background
- For a variety of reasons, sometimes the software does not update automatically,
 - This guide is intended to instruct how to update the software if it does not happen automatically



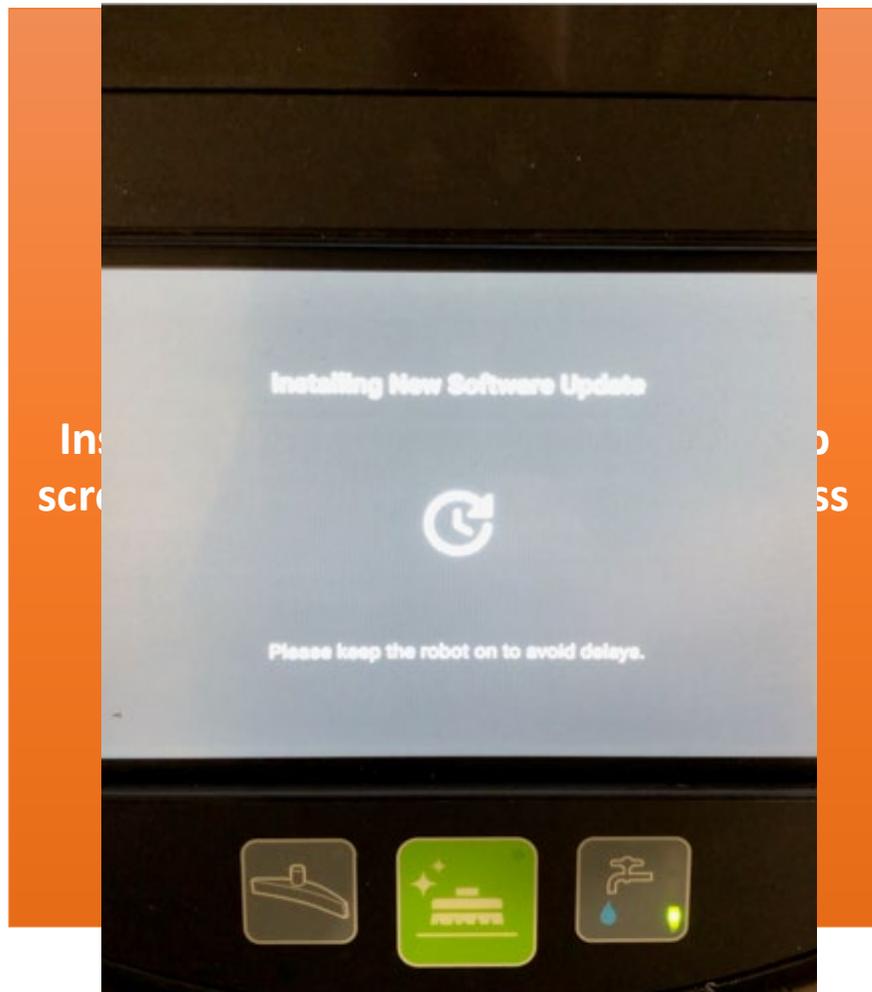
Update the Software

Step 1 – Turn on Machine



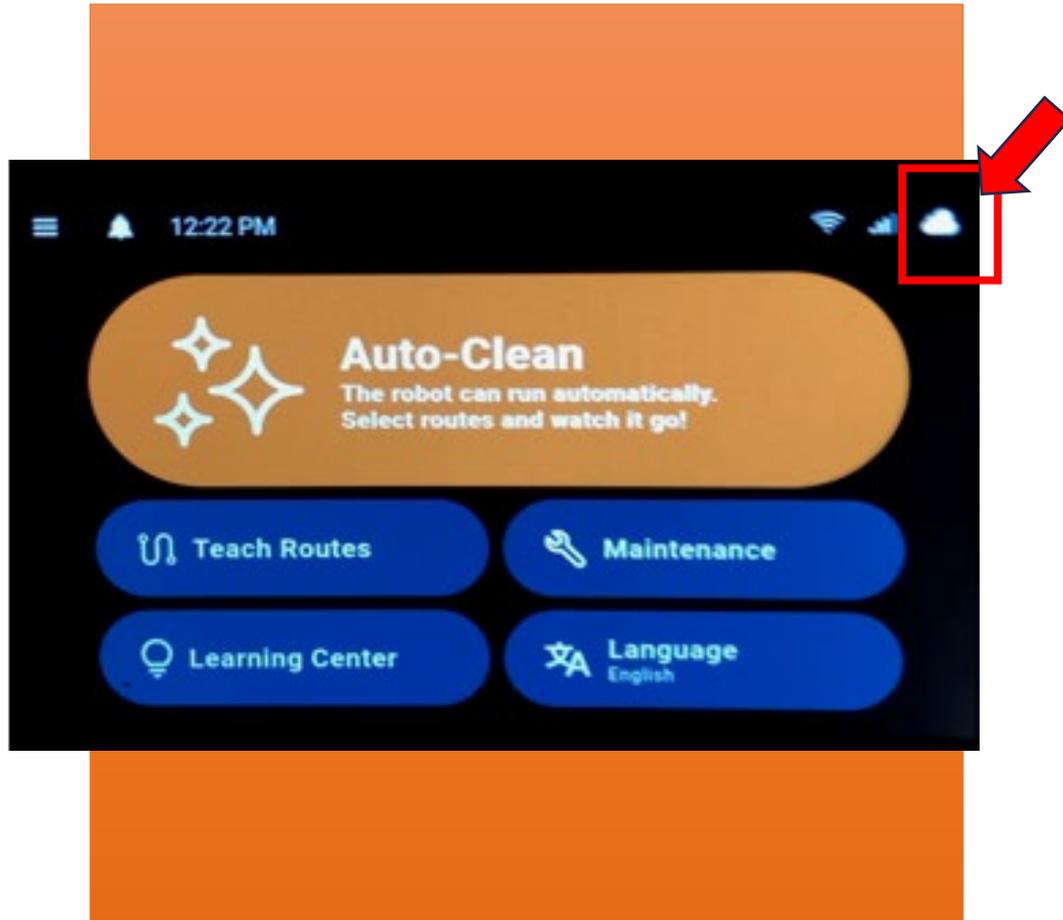
Make sure battery is charged.
Make sure battery is connected.
Make sure Brain switch is ON.
Make sure machine is not plugged in.
Turn Key ON
Make sure Machine has cloud connectivity

If Software Update is Automatically Downloading Upon Turn-On Sequence



If software update is in-progress once the machine is turned on, leave the machine on until software is completely updated.

Step 2 – Maintain Network Connectivity

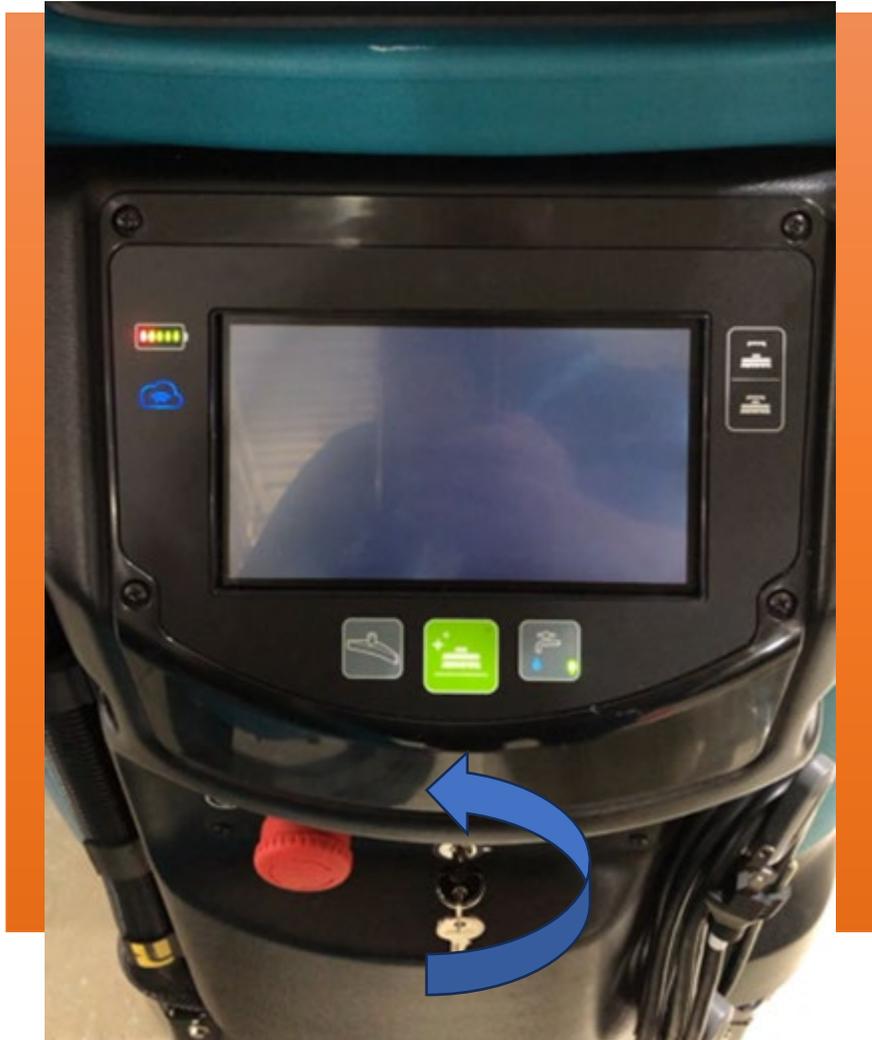


Make sure the X4 ROVR has cellular network connectivity. The connection indicator is circled in red.

The indicator will be illuminated if the AMR is connected. If not connected, it will be gray.

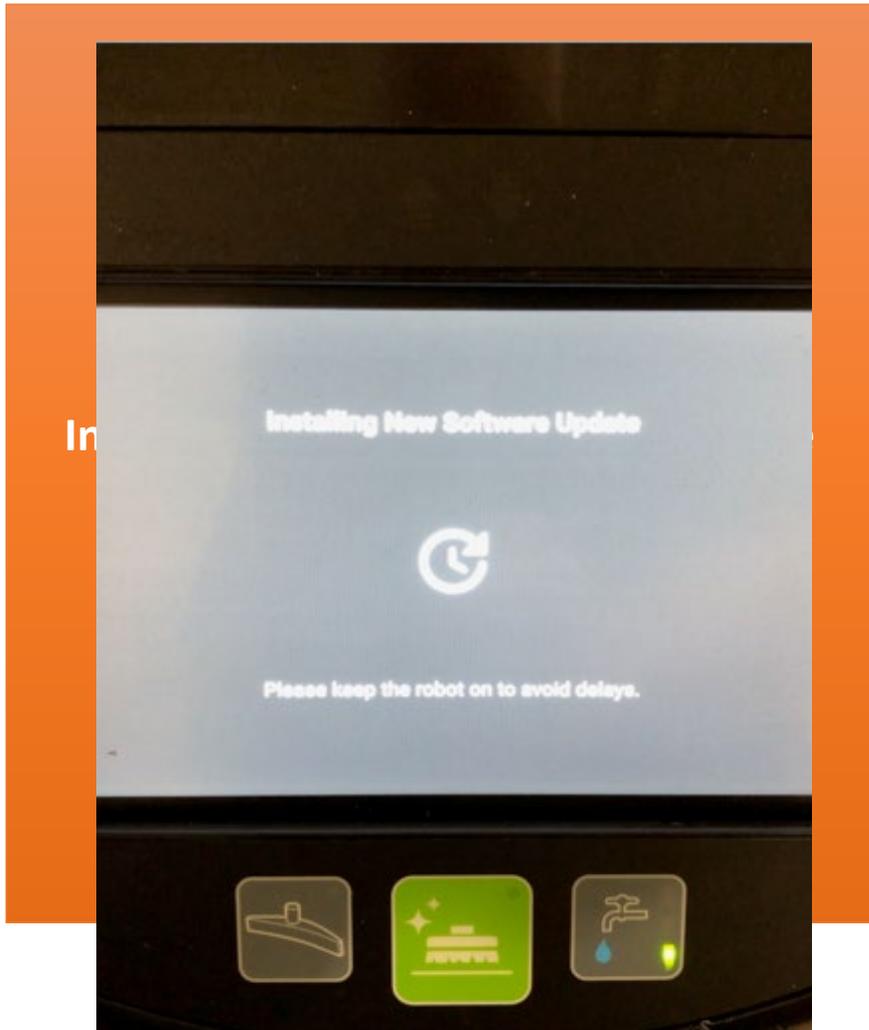
You may need to move the machine to a different location with the facility to get network connectivity.

Step 3 – Hard Reset



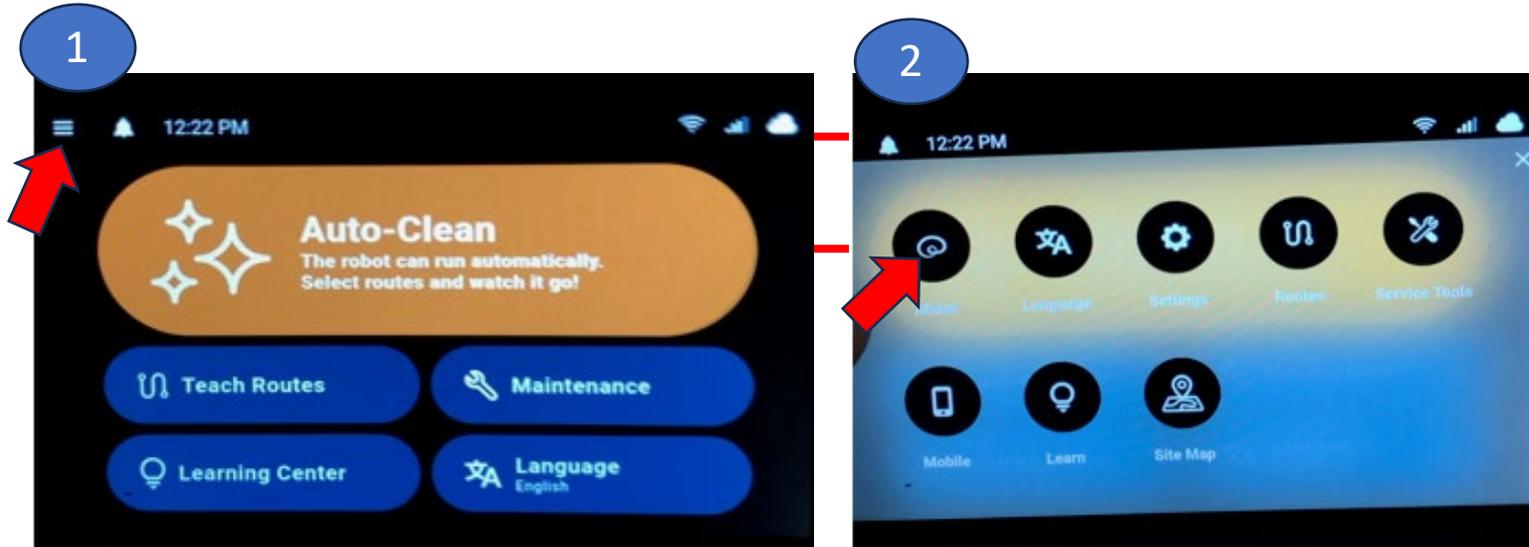
Turn off the machine, wait 15 seconds prior to turning on the machine again.

If Machine is Turned Off During Software Download Sequence

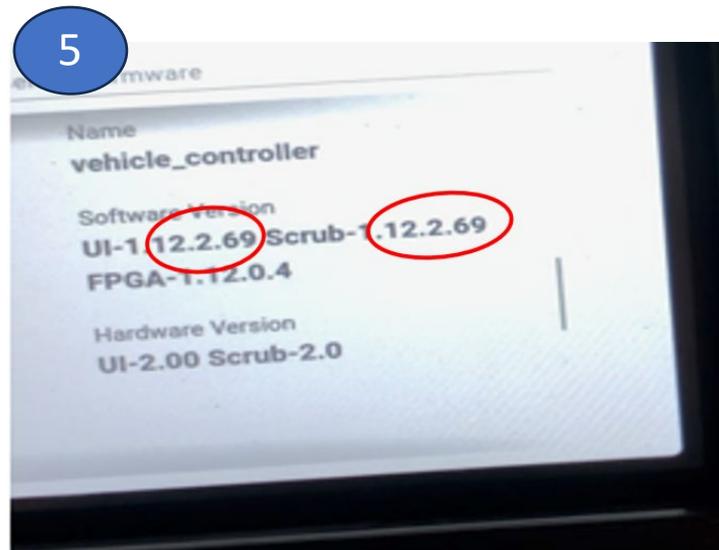
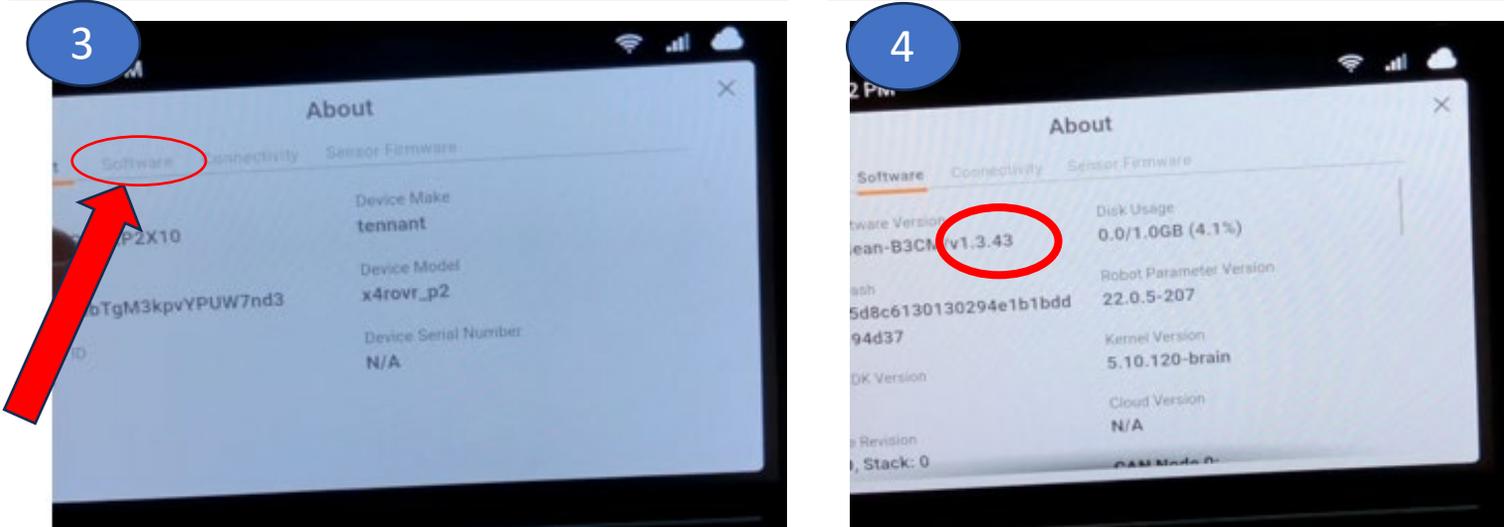


If the machine is turned on during the software download sequence, the machine will automatically resume the download sequence once the machine is turned on again.

Step 4 – Verify Software Update



From home screen, select “About Machine” sequence.



If having issues during software download
procedure, contact:

CustomerSuccess@tennantco.com

