

## TPC-1 Updating to System Image 2.5 with TPC1 System image .msi Instructions and Release Notes

This document describes the update procedure for a system image for the TPC-1 touch panel controller using the TPC1 System Image .msi file.

Updating the image takes about 10 minutes. Please note that this is an optional measure unless you do encounter one or more of the issues listed below

### When to update the System Image?

Since first release of TPC-1 with SONICUE 1.2.0 several fixes and improvements have been included in the system image. The latest version 2.5 comes with SONICUE Control App v.1.4 and includes the following:

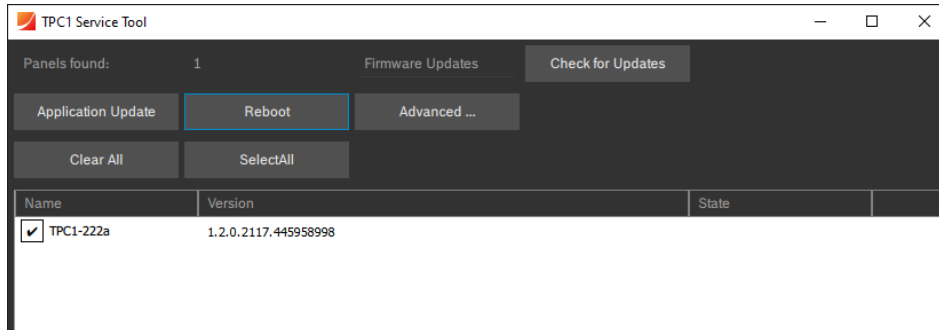
- Bugfix: Multitouch handling not working properly
- Bugfix: Graphical artifacts (that look like burn-in issues)
- Bugfix: Update service not stable
- Bugfix: Automatic startup of SONICUE Control after app update unreliable
- Improvement: log4j library disabled. Please note that even without this update there is only a negligible threat due to this library's vulnerabilities (i.e. CVE-2021-44228) since the devices are by design not reachable from outside the local network.
- Bugfix: "Ghost touch event" (buttons activated themselves, without someone touching them)

Note: some cases of "non-booting" TPC-1 (e.g. display stays dark gray and empty) a reset to factory (press the reset button on upper left corner with a paper clip to reset) can solve the issue.

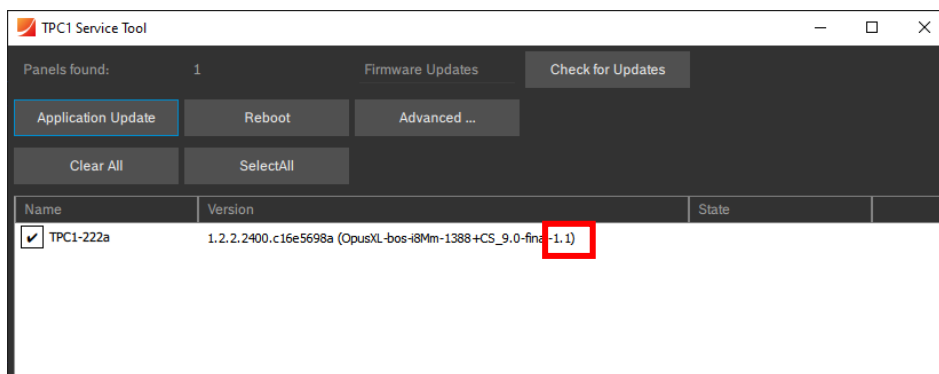
Note: The apk included in the image 2.5 is 1.4. If you work with newer versions of SONICUE (e.g. > 1.4.) you need to **update the app after you updated the TPC-1 image.**

## Before you update the System Image

- SONICUE Control app needs to be on “1.4.x” or higher
- If a TPC1 device is already configured, the version can be checked with the TPC1 Service Tool (part of SONICUE since release 1.2.2):



If the SONICUE Control App has already been updated to a newer version ( $\geq 1.2.2$ ), the version of the System Image is additionally indicated:

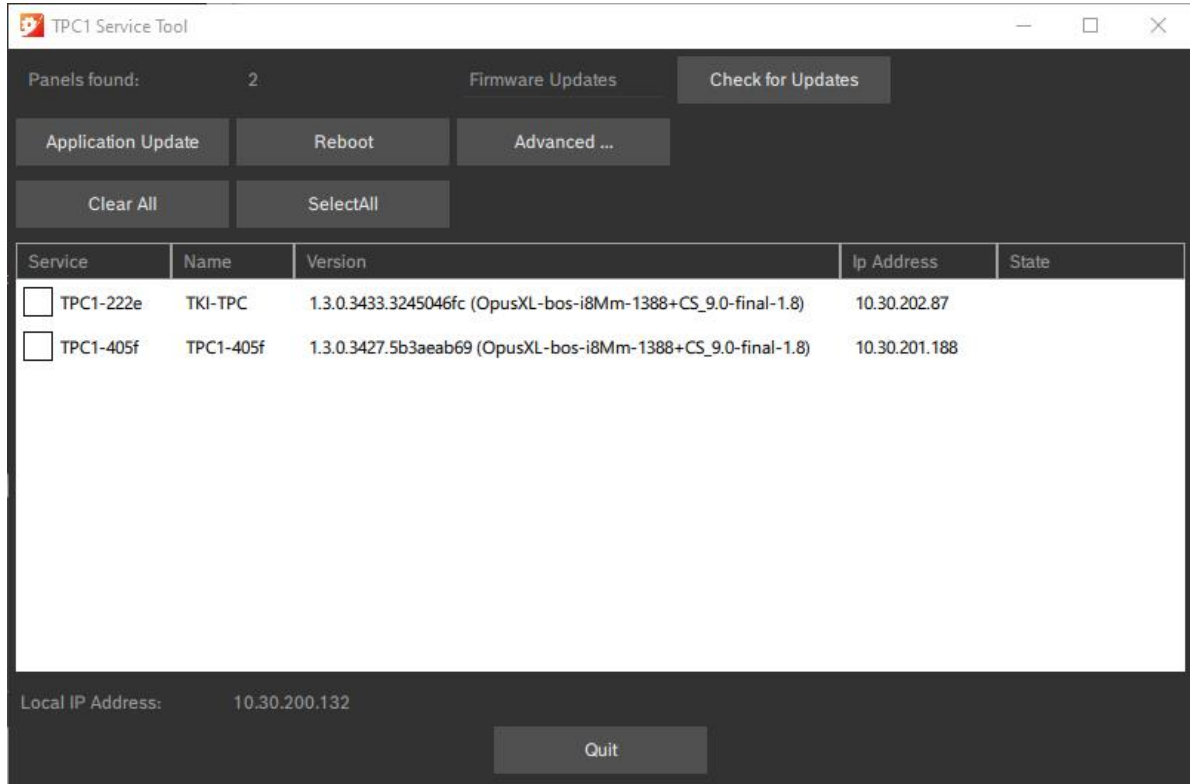


In the shown cases the image version is V1.1

Before you start the PC and the TPC-1 need to be in the same network (e.g. first 16-bit: 10.30.xxx.xxx)

## How to update the TPC-1 system image

- 1) Run the TPC1 System Image .msi. This will copy all files into the correct directories
- 2) Use the TPC1 Service Tool for the image update
- 3) Click the advanced button to show the system image files and the “TPC1 Image Update” button.



- 4) Select the TPC1 devices for which the system image should be updated and click on the “TPC1 Image Update” Button. A state message is shown for a moment: “configuring ota”, the update procedure begins.


In SONICUE Control (1.2.2 or higher) you will get a visual feedback of the update process



Depending on the panel configuration the update process can take up to 10 minutes. Updating multiple TPC-1 devices will increase the duration because the TPC1 Service Tool has to deliver a ~520 MB image to every device.

When finished, the panel will reboot and SONICUE Control will come up with the last configuration.

The TPC1 Tool should show the updated Versions of the System Image and the SONICUE Control App (version is shown at the very end):

 **TPC1 Service Tool**

Panels found: 2      Firmware Updates      [Check for Updates](#)

[Application Update](#)      [Reboot](#)      [Advanced ...](#)

[Clear All](#)      [SelectAll](#)

Service	Name	Version	Ip Address
<input type="checkbox"/> TPC1-222e	TKI-TPC	1.3.0.3433.3245046fc (OpusXL-bos-i8Mm-1388+CS_9.0-final-1.8)	10.30.202.87

Note: if you lose power during the system update you need to restart the update process, if the TPC-1 has not finished the update after 15 minutes, press “Reboot” and restart the update process.