

TCx Display Configuration Utility for Linux

User's Guide

Version 1.2501

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This edition applies to TCx Display Configuration Utility for Linux and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this guide

This guide describes how to install and use the Toshiba TCx Display Configuration Utility.

Who should read this guide?

This guide is intended for the personnel who will install and use Toshiba TCx Display Configuration Utility.

1.- Introduction

TCx Display Configuration Utility is a command-line tool used to download, update settings and configure a TCx Display 6149 (Model BxT/WxT) and TCx Display 6150 (Model Bxx/Pxx) hardware settings.

Customers will be able to download the current settings of the device's Beep On Touch and load it accordingly.

2.- Supported Operating Systems

The following Linux distribution is supported by the tool:

- SLE 12 SP5
- SLE 15 SP5
- SLE 15 SP6

3.- Installing the TCx Display Configuration Utility RPM Package

This utility is distributed in the form of an RPM package to install it please follow the next instructions.

1. Open a terminal in your system.
2. Change to the directory in which you stored the TCx Display Configuration Utility rpm package, its name is described below.
 - a. `toshiba-tcxdisplaycfgutil-1.2501.0-x.0.sle.x86_64.rpm`¹
3. Once in the directory type the following:
`$ sudo rpm -ivh toshiba-tcxdisplaycfgutil-1.2501.0-x.0.sle.x86_64.rpm`
4. After these steps the TCx Display Configuration Utility will have been deployed in your system placing the files in the next directories:
 - a. `/opt/tgcs/tcxdisplaycfgutil/license`
 - i. License Agreement
 - b. `/opt/tgcs/tcxdisplaycfgutil/doc`
 - ii. Readme file and this document
 - c. `/usr/bin`
 - iii. The TCx Display Configuration Utility binary

4.- Removing the TCx Display Configuration Utility RPM Package

¹ The x represents the build number of the package.

Whenever you would like to remove the TCx Display Configuration Utility from the system or update to a newer version please follow the next steps:

1. Open a Terminal
2. In the terminal type the following command:

```
$ sudo rpm -e toshiba-tcxdisplaycfgutil
```

3. After running this command, the TCx Display Configuration Utility will be removed from your system.

5.- Running the utility

To run the terminal please open a terminal and type “tcxdisplaycfgutil” as shown in figure 1, this will

prompt the different commands the utility supports and since **this operation and the options “-?” and “-g”** do not imply any communication with the USB bus of the monitor and they won’t require any “sudo” access.

On the other hand, **for options “-o, -s, -L and -i” are required to be run with “sudo” privileges**, this is in the terminal you should type the following command followed by any of the options early mentioned.

```
$ sudo tcxdisplaycfgutil -< o / s / i > <<filename>>
$ sudo tcxdisplaycfgutil -L
```

If by any chance you miss to run this command with sudo privileges, a segmentation fault could occur since the access for the USB interface will be denied, no monitor configuration read or write will be held, to avoid this behavior, the tool will validate if is being run as root, if is not, the tool will stop any execution.

6.- Tool Options

Use the following options for changing the settings of a supported TCx Display

```
tcxdisplaycfgutil Version 1.2.0 - TCxDisplay Configuration utility
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---

USAGE: tcxdisplaycfgutil [options]

WHERE OPTIONS are:

-o <filename> Retrieve the current device's configuration.
               Specify the name of the INI file in <filename>.

-g <filename> Generate a pre-defined INI file. Specify the
               name of the INI file in <filename>.

-i <filename> Update devices using only INI file specified in
               <filename>.

-L               List attached devices *1

-s <serial#>    Update device's configuration specified by the
               USB Serial Number: <serial#>

-v               Verbose logging to the console during execution

-l <log file>    Specify the log file

-?               Usage (this message) and additional help information
```

Figure 1 TCxDisplay Configuration Utility Options

6.1.- Current Setting [-o <filename>.ini]²

² If no serial number is specified the utility will download the current configuration of the first detected monitor,

This is the option to use when downloading the current settings of the display. The path of the INI file can also be absolute.

```
$sudo tcxdisplaycfgutil -o "<path_where_the_ini_file_is>\currentconfig.ini"
```

6.2.- Generate default settings [-g <filename>.ini]

This option generates the default values. The utility can be run in any machine when using this option. Then the generated INI file can be updated accordingly and loaded to a POS machine with TCxDisplay. The path of the INI file can also be absolute.

```
$sudo tcxdisplaycfgutil -g "<path_where_the_ini_file_is>/default.ini"  
$sudo tcxdisplaycfgutil -g default.ini3
```

6.3.- Update display [-i <filename>.ini]

Use this option to update the display settings. If there is no serial number specified, the utility will change the settings of all devices attached.

```
$sudo tcxdisplaycfgutil -i monitorcfg.ini
```

6.4.- List attached device(s) [-L]

Use this option to display the available TCx Display.

```
$sudo tcxdisplaycfgutil -L
```

6.5.- Using device's serial number [-s <serial_number>]

Use this option to specify which device will be manipulated. It can be used to generate the current settings and update a device.

```
$sudo tcxdisplaycfgutil -s 12345 -o current.ini  
$sudo tcxdisplaycfgutil -s 12345 -i current.ini
```

6.6.- Show utility logging to console [-v]

This option will come in handy to external utilities having to capture console logs. This can

you can verify this using the -L option.

³ This will generate the *.ini file in the current directory where the utility was called.

be used with any other available options.

```
$sudo tcxdisplaycfgutil -o default.ini -v
$sudo tcxdisplaycfgutil -s 123456 -i current.ini -v
```

6.7.- Save utility logging to a file [-l <filename>.log]

This option will save important execution logs of the utility. Normally, the log file generated will be used for debugging purposes. This can be used with any other available options.

```
$sudo tcxdisplaycfgutil -o default.ini -l test.log
$sudo tcxdisplaycfgutil -s 12345 -i current.ini -l test.log
```

6.8.- Show the help message [-?]

This option will show the help message and the configuration definition in section 7 of this document.

7.- TCx Display Configuration Utility Support

The value entered on the .ini configuration file must be in hex format, always use 2 digits as shown in the **Default Value** cell, otherwise the tool won't be able to read nor upload them to the monitor and an error message will be displayed.

KEY	Item Name	Range (Hex)	Default Value (Hex)	Description	Support on TCx Display 6149 BxT/WxT	Support on TCx Display 6150 Bxx	Support on TCx Display 6150 Pxx
[BeepOnTouch] Section							
BOTEvent	Touch Event Trigger Point	00-03	01	Allow to set the behavior when the beep is touched 00h- Disabled 01h- Finger Touch Down 02h-Finger Touch Up 03h- Both.	Y	Y	Y

Known limitations and workarounds

1. In order to have a clean installation you must remove any previous version of this utility
2. The utility does not support updating more than 1 display when using serial number. The command below is not supported:

```
$sudo tcxdisplaycfgutil.exe -s 12345 -s 01234 -i TGCSMonCfg.ini
```

3. The above example will only update the device with serial number "01234". In order to update all devices, do not specify any serial number.
4. To avoid any irreversible damage to the TCx Display, do not unplug the USB cable while a FW update process or a configuration process is going on.
5. Whenever a current configuration file is generated, this is using the -o option, to edit this ini file you may require sudo access as it would be protected, opposite case when using the -g option the generated *.ini file won't require any special permission to be edited.