



# APPLICATION NOTE

## APP104

### Revision History

Date	Author	Revision	Description
07-23-2015	Emmanuel Castillo	1.0	Created Initial Version
03-22-17	DEW	1.1	Edits to file, update to Firmware Touchscreen 3.3.0
03-28-17	DEW	1.1	Edits from Chris
03-30-17	DEW	1.1	Edits from Ray - minor type edits

## Changing Linux Startup File

MCS-TOUCH-7

MCS-TOUCH-15.4

Firmware Ver. 3.00E and newer

Any questions regarding this release, contact: [support@mcscontrols.com](mailto:support@mcscontrols.com)

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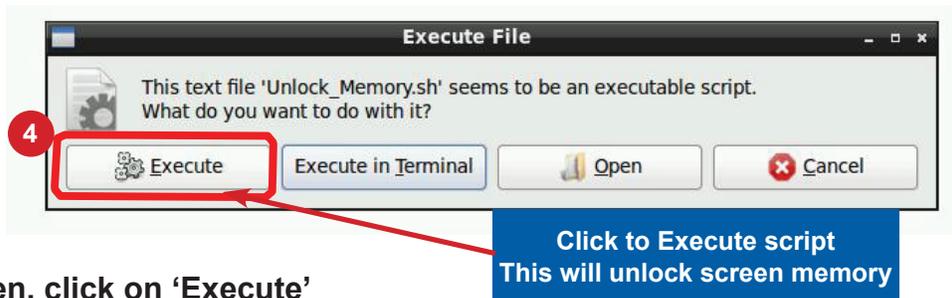
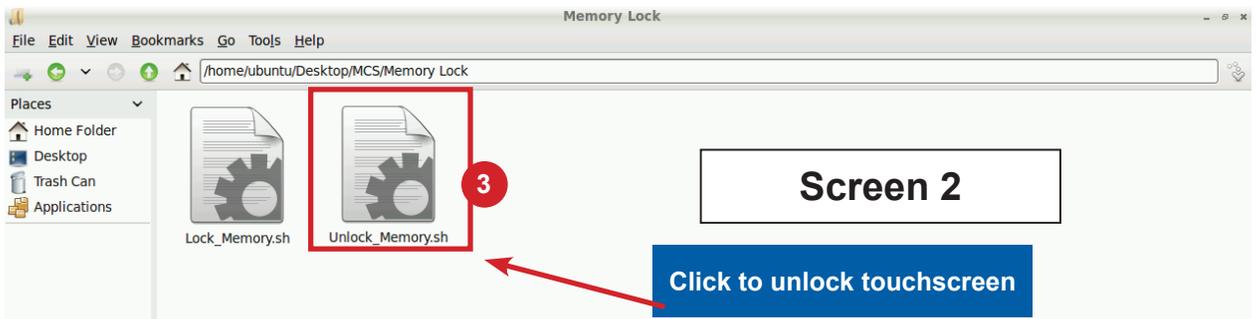
# Unlocking MCS-TOUCH 7 AND 15.4

Start by Unlocking the Touchscreen.

1. Click on the 'MCS TOOLS' folder on the desktop, 'MEMORY LOCK' sub folder will appear when this file is opened..



2. Double click on the 'Memory lock' folder
3. Double click on the 'Unlock Memory' icon



4. Next screen, click on 'Execute'
5. Touchscreen will perform a restart
6. Check on desktop screen to make sure the touchscreen shows 'UNLOCKED'



# Changing Linux Startup File - MCS-TOUCH

Open 'On Screen Keypad' and MCS TOOLS

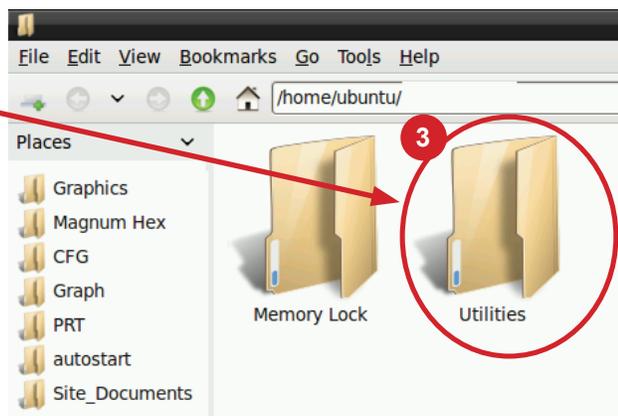
1. **Navigate to the 'On Screen Keypad' on your desktop as shown below**  
**Click with stylus to open.**



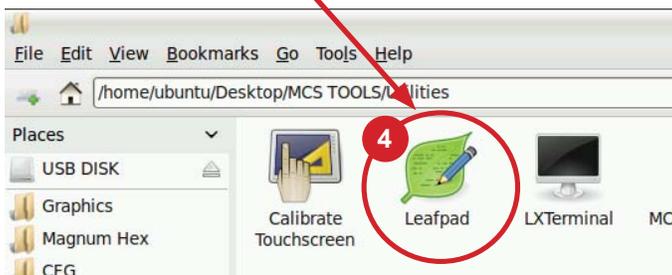
2. **Click on the 'MCS TOOLS' on desktop**



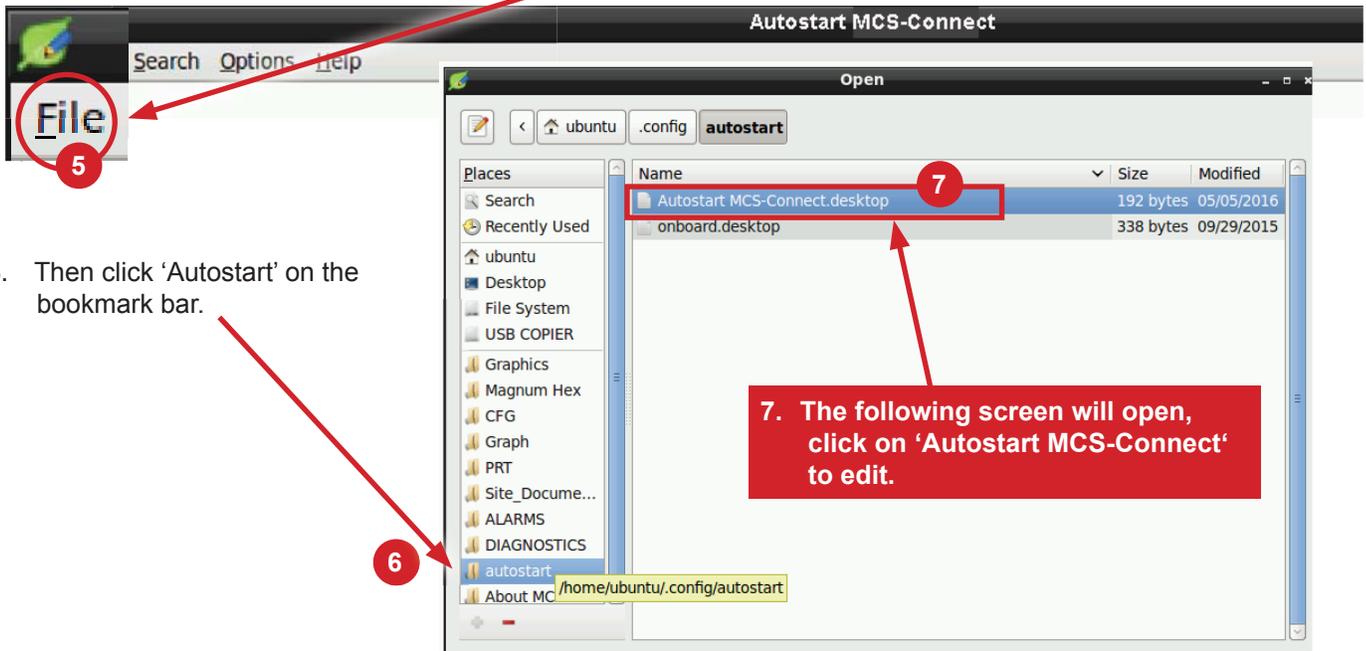
3. **Click on 'Utilities'**



4. **Click and select 'Leafpad' to edit the startup file**

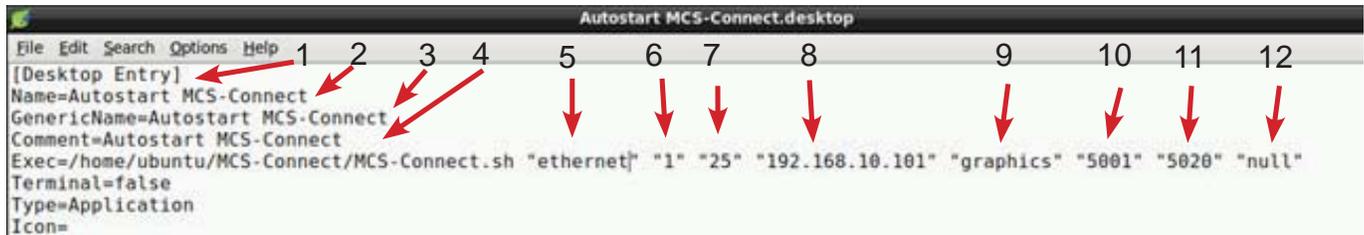


5. Once 'Leafpad' is open, click on the top, 'File' -Open,



6. Then click 'Autostart' on the bookmark bar.

**Descriptions of Arguments that can be changed in the Autostart file:**



**Editing the 'AUTOSTART MCS-CONNECT' file** (see corresponding numbers above).

1. **(Desktop Entry)** = '.desktop' - *File Type*
2. **Name** = 'Autostart MCS-Connect' - *Name of the File*
3. **Generic Name** = 'Autostart MCS-Connect' - *Name of the File*
4. **Comment** = 'Autostart MCS-Connect' - *Description*
5. **ETHERNET** = This argument can be set to "ethernet", "serial", "remote" or "lantronix" depending on the type of connection used to connect to the Magnum.
6. **'1'** = This argument is the number (1-60) of Magnums MCS-Connect is to look for on the network.
7. **'25'** = This argument is the time in seconds MCS-Connect waits while searching for the number of Magnums specified in argument 6 before creating an error popup message.
8. **192.168.0.254** = This argument is the address of the Magnum that you want to connect to upon auto start. If argument 1 is set to "ethernet" then enter the IP address of the Magnum. Otherwise if argument 1 is set to "serial" then enter the Magnum RS485 address.
9. **GRAPHICS** = This argument determines which screen MCS-Connect will load on auto-start. There are 3 options: "graphics", "status" or "transmit".

**These file names should not be changed**



APP 126 is available at <http://www.mcsccontrols.com/appNotes.html> to set the Graphics Lock feature which ensures that unauthorized users cannot navigate out of the Graphics screen.

10. **5001** = If argument #5 is "transmit", this argument is used for the file path of the configuration to transmit. Otherwise, if argument #1 is "remote" or "lantronix" this argument is used to pass in the starting port for these connection types.
11. **5020** =This argument is only used when argument #1 is "remote" to pass in the ending port for a remote connection.
12. **NULL** = This argument allows the user to pass in a keyword that starts MCS-Connect with a preset Authorization Level
13. **TERMINAL** = FALSE - leave false here to prevent command prompt from opening.
14. **TYPE** = Application.
15. **ICON** = Leave blank, there is no icon.

Command Line Arguments Explanation

Argument #1	Argument #2	Argument #3	Argument #4
"serial"	# of controllers to look for	# seconds to search	MCS address of controller to connect to
"ethernet"	# of controllers to look for	# seconds to search	IP address of controller to connect to
"remote"	# of controllers to look for	# seconds to search	IP address of controller to connect to
"lantronix"	# of controllers to look for	# seconds to search	IP address of controller to connect to

Argument #5	Argument #6	Argument #7	Argument #8
"graphics"/"status"/"transmit"	null/null/cfg file address	null	Desired Auth Level code word
"graphics"/"status"/"transmit"	null/null/cfg file address	null	Desired Auth Level code word
"graphics"/"status"	starting port	ending port	Desired Auth Level code word
"graphics"/"status"	starting port	null	Desired Auth Level code word

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Autostart MCS-Connect.desktop

File Edit Search Options Help  
 [(Desktop Entry)  
 Name=Autostart MCS-Connect  
 GenericName=Autostart MCS-Connect  
 Comment=Autostart MCS-Connect  
 Exec=/home/ubuntu/MCS-Connect/MCS-Connect.sh "ethernet" "1" "25" "192.168.10.101" "graphics" "5001" "5020" "null"  
 Terminal=false  
 Type=Application

Click file 'Save' if you made any changes to the file



NEXT STEP - RE LOCK TOUCHSCREEN - SEE NEXT PAGE

# Locking MCS-TOUCH

Re-Locking Touchscreen (follow the 4 steps below)



1. Double click the 'MCS TOOLS' Icon on the Desktop.
2. Double click '**Memory Lock**' sub directory.
3. Double click '**Lock Memory**'.
4. Click '**EXECUTE**'. The touchscreen will reboot.

