TB 283 - Configuring Windows 8 to Run CNC11 Software

Purpose: This document will explain how to configure Windows 8 so that the CNC11 software will function correctly.

Required Materials

- Samsung 120GB SSD
- USB or SATA DVD player
- USB mouse
- copy of Windows 8 Home Premium 64-bit
- copy of the latest version of CNC11 software

Instructions for Configuring Windows 8

1.) Install SSD and DVD player into servo PC/console. Make sure to plug the SATA cable from the SSD into SATA0 on the motherboard. Software **MUST** be loaded on the system that you are working on. It **CANNOT** be loaded onto an SSD remotely and then installed onto the control. Windows does not allow that.

2.) Connect a SHIELDED CAT5/CAT6 Ethernet cable to the on-board Ethernet port and the MPU11.

- 3.) Power on the MPU11 and servo PC/console.
- 4.) Insert the Windows 8 DVD and install the Windows software.







6.) Move your mouse to the right corner of the screen to bring out the side tab and click on the "Settings" button.

7.) Next click on the "Control Panel"



8.) Go to "Uninstall a Program" directly underneath "Programs.



9.) Next uninstall any un-necessary programs that might have come from your computer manufacture. Some of these may include McCaffey Antivirus, various trial offers, etc.

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CyberLink MediaStory	Microsoft Office 20								
		EL CONTRACTOR		p	rograms and Features				-
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ellay	Natto Pro 9	Control Panel Home View installed updates STurn Windows features on or	Uninstall or change a To uninstall a program, selec	program t it from the list and then o	lick Uninstall, Change, or Repair.				
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			Enovo Experience Improve	ement	Lenovo	4/27/2014		1.0.7.0	
			Lenava Photos		CEWE COLOR AG u Co. OHG	4/27/2014	227 MB	4.8.5	
50	*		C Lenovo Power2Go		CyberLink Corp.	4/27/2014	154 MB	6.0.7408	
Lenovo	McAfee		Lenovo PowerDVD10		CyberLink Corp.	4/27/2014	208 MB	10.0.5723.52	
Dashboard			Lenovo Reach		Stoneware, Inc.	4/27/2014	36.6 MB	1.1.0.197	
			Lenovo Rescue System		CyberLink Corp.	4/27/2014	21.6.10	4.0.0.1901	
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Photos			Mathon Cloud Browser		Masthon International Limited	4/27/2014		4.2.1.1000	
			McAfee LiveSafe - Internet	Security	McAfee, Inc.	4/27/2014		12.8.412	
			Microsoft Office		Microsoft Corporation	4/27/2014	296 MB	15.0.4454.1510	18

10.) Go back to the main "Control Panel" page and click on "System and Security".



11.) Click on "Windows Update".



12.) Install the Updates. You may need to restart the computer several times.



13.)Keep going until you see the below screen, stating that no more updates are available. Then click on the "Change settings" on the left side.



14.) From the dropdown under "Important updates" select "Never check for updates" and click OK at the bottom after.



15.) Go back to the Control Panel view and click on "System and Security".



16.) Click on the "Action Center".



17.) Click on "Change User Account Control Settings" and then drag the bar to the "Never notify" at the bottom and click OK.



18.) Next click on "Change Action Center Settings".



19.) Un-select every checkbox and click OK.



20.) Go back to the main Control Panel page and click on "System and Security".



21.) Click on "Windows Firewall".



22.) Click on "Turn Windows Firewall on or off" on the left hand side.



23.) Click on the "Turn off Windows Firewall" buttons on both the Private and Public network settings. Click OK at the bottom.



24.) Go back to the Control Panel Main page and click on "System and Security".



25.) Click on the "System" option.



26.) Click on "Device Manager" on the left hand side.

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Control Panel Home	View basic information	about your computer		
B Device Manager	Windows edition			
S Remote settings	Windows 8.1			
System protection	© 2013 Microsoft Corpora	tion. All rights reserved.	Windo	NA/S'8
S Advanced system settings	Get more features with a r	ew edition of Windows	vviii ac	50050
	System			
	Processon	Intel(R) Pentium(R) CPU G3240T @ 2.70GHz 2.70 GHz		
	Installed memory (RAM):	4.00 GB		
	System type:	64-bit Operating System, x64-based processor		lonouro
	Pen and Touch:	Full Windows Touch Support with 5 Touch Points		lenovo
				Support Information
	Computer name, domain, and	workgroup settings		
	Computer name:	ALLIN1-PC		Change settings
	Full computer name:	ALLINT-PC		
	Computer description:			
	Workmour	WORKGROUP		

27.) Find the "Network adapters" and click to expand them.



28.) Double-click on any Ethernet cards and the below should be displayed.



29.) Click on the "Power Management" tab and the uncheck all the boxes. Click OK and do the same for any other Ethernet Cards available.



30.) Go back to the "System and Security" screen and click on "Power Options)



31.) Click on the circle with and arrow to bring up the "additional plans" then select "High performance" and click "Change plan settings".



32.) Click on the "Change advanced power settings".



33.) Click on the "Change settings that are currently unavailable".

Ivanced settings					
Select the power plan that you want to customize, and		Edit Plan Settings		-	
then choose sattings that reflect how you want your computer to manage power.	Panel + System and Security + Power Options +	* C	Search Control Panel	P	
Ghange settings thet are currently unavailable High performance [Active] v	Change settings for the p	lan: High performance			
High performance Require a password on wakeup Setting: No Hard disk Hard disk	Choose the sleep and display set	15 minutes			
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Wireless Adapter Settings Steep US8 settings Power histories and lid	🔆 Adjust plan brightness:	•Ų ☆			
Restore plan defaults	Change advanced power setting				
	Restore default settions for this s	lan.			

34.) Under "Hard disk" set "Turn off hard disk after" to "Never"

Select the power plan that you want to customize, and	Edit Plan Settings	×
then choose settings that reflect how you want your computer to manage power.	Panel + System and Security + Power Options + Edit Plan Settings	 ✓ Č Search Control Panel
igh performance [Active] 🛛 🗸	Change autilians for the plan blick performance	
Require a password on wakeup Setting: No	Choise the sleep and display settings that you want your computer to use.	
Hard disk Turn off hard disk after Setting (Minutes)	Turn off the display: 15 minutes v	
Internet Explorer Desktop background settings	Put the computer to sleep: Never	
 Wireless Adapter Settings Sleep US8 settings 	💥 Adjust plan brightness: 🧧 🗍 🔆	
m. Rosser buttons and lid. Restore plan defaults	Change advanced power settings	
OK Cancel Apply	Restore default settings for this plan	

35.) Under the "USB settings" , for "USB selective suspend setting" select "Disabled"

	Edit Plan Settings		- 1		
then choose settings that reflect how you want your computer to manage power.	Panel + System and Security + Power Options + Edit Plan Settings	~ ¢	Search Control Panel	P	
High performance (Active)	Change settings for the plan: High performance Choose the sleep and display settings that you want your computer to use. Turn off the display: Turnindes Plat the computer to sleep Mover Mover Change advanced power settings Restore advanced power settings Restore advanced power settings				

36.) Under "Display" set "Turn off display after" to "Never". Then click "Apply". Than close the open window.

Advanced settings			
Select the power plan that you want to customize, and	Edit Plan Settings		Market and the
then choose settings that reflect how you want your computer to manage power.	Panel + System and Security + Power Options + Edit Plan Settings	🖌 🖒 🛛 Search Control Panel 🖉	
High performance [Active]			
⊟ US8 selective suspend setting Setting: Disabled	Change settings for the plant high performance Choose the sleep and display settings that you want your computer to use.		
Power buttons and lid			
PCI Express	Turn off the display: 15 minutes v		
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Turn off display after	9 Put the computer to sleep: Never v		
Setting (Minutes): Nevel			
Display brightness	🔆 Adjust plan brightness: 🛛 🔍 🗰		
Dimmed display brightness			
m. Enable adaptive brinktness			
Restore plan defaults	Change advanced power settings		
	change advanced power records		
OK Consul Auch	Restore default settings for this plan		

37.) Press "Ctrl" + "Alt" + "Delete" all at the same time. Select "Task Manager", then click on the more details button.



38.) Next click on the "Startup" tab and click on each Item and then click "Disable" at the bottom. Then close the window.

39.) Click on the "Date and Time" section of the taskbar on the lower right hand corner.



40.) Select the "Internet Time" tab and click on "Change settings..."



41.) Uncheck the "Synchronize with an Internet time server" box and click OK.



Instructions for Installing CNC11 Software

1.) Install CNC11 software. Make sure you configure the network adapter and install the appropriate PLC program if needed. Also, if you want the PLC Detective software, you will need to install WinPcap.

2.) Once the CNC11 software installation is complete, right click on the CNC11 icon located on the desktop and select "Properties". Select the "Shortcut" tab, then select "Advanced". Check the box for "Run as Admin". Select "OK", then "Apply", and then "OK".

3.) Go into "Control Panel", select "System and Security", and then "Windows Firewall". On the upper left side of the window click on "Allow a program of feature through Windows Firewall", find cncm or cnct in the list and check both boxes for private and public, then click Ok.

4.) If want to eliminate the scan & fix pop up and autoplay pop up when you plug in your USB stick, you will need to do the following. To suppress the scan & fix click on the Windows icon type: **msconfig** and click on the "Services Tab" then scroll down and uncheck "Shell Hardware Detection". Click "Apply" then "Ok" and then you will need to power cycle the PC. To suppress the autoplay click on Windows icon and type: **autoplay** then uncheck "use AutoPlay for all media and devices" and click "Save".

5.) You are now ready to run CNC11 software on your Windows 7/10 PC/console.

6.) If you clicked on the CNC11 icon to start the software and you are getting 64180 MPU11 not responding errors. You most likely didn't have the MPU11 connected to the PC when you installed the software. Check your Ethernet card to make sure it is configured properly.

7.) Go to "Control Panel" and select "Network and Internet".

Control Panel

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$\leftarrow \rightarrow$ \checkmark \bigstar Control Panel			ڻ ~	Search Control Panel		Q
Adjust	your computer's settings		View by: Category 🔻			
	System and Security Review your computer's status Save backup copies of your files with File History		User Accounts © Change account type			
	Backup and Restore (Windows 7) Find and fix problems	Appearance and Personaliza	Appearance and Personalization			
	Network and Internet View network status and tasks Choose homegro Network and Internet Chock network status and change Hardware and settings, set preferences for sharing	P	Clock, Language, and Region Add a language Change input methods Change date, time, or number formats			
20) 20	View devices and files and computers, configure Add a device Internet display and connection, and more.		Ease of Access Let Windows suggest settings Optimize visual display			
	Uninstall a program					

8.) Click on "Network and Sharing Center".

1	Network and Internet								
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	Control Panel Home	<u>NR</u>	Network and Sharing Center						
	System and Security		View network ctatus and tacks Connect to a network View network computers and devices Network and Sharing Center						
•	Network and Internet	•	HomeGr Check network status, change						
	Hardware and Sound		Choose ho for sharing files and printers.						
	Programs		Internet Options						
	User Accounts	v =	Change your homepage Manage browser add-ons Delete browsing history and cookies						
	Appearance and Personalization	J	Infrared Send or receive a file						
	Clock, Language, and Region								
	Ease of Access								

10.) Click on "Change adapter settings" on the upper left corner of the window.

Network and Sharing Center



11.) Right-click on the network icon that is connected to the MPU11 and select "Properties".



12.) Highlight "Internet Protocol Version 4 (TCP/IPv4)" then click "Properties" again.

Local Area Connection Properties	Х								
Networking									
Connect using:									
PRealtek PCIe GBE Family Controller									
Configure									
This connection uses the following items:									
✓									
Install Uninstall Properties									
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. OK Cancel									

13.) Select "Use the following IP address" then set the IP address and Subnet mask to:

IP address: 10.168. 41.1 Subnet mask: 255.255.255.0

Internet Protocol Version 4 (TCP/IPv4) Properties								
General								
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator							
Obtain an IP address automatical	ly							
• Use the following IP address:								
IP address:	10 . 168 . 41 . 1							
Subnet mask:	255 . 255 . 255 .							
Default gateway:								
Obtain DNS server address auton) Obtain DNS server address automatically) Use the following DNS server addresses:							
Preferred DNS server:								
Alternate DNS server:								
Validate settings upon exit	Advanced							
	OK Cancel							

14.) Click OK and then try to start the CNC11 software again.

Document History

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