

Haas Networking Observations

- **Initial Setup:**

- These instructions have only been tested on a Haas Mill running NGC configured in a peer to peer network i.e.; and Ethernet cable between the PC and CNC.
- *Step 1:* Connect the PC to the CNC with an Ethernet cable (doesn't need to be crossed) the NIC on the PC handles that. The Ethernet port is located on the right-side panel of the mill.
- *Step 2:* Settings for CNC:
 - Navigate to *Network Settings* Menu.
 - Select the *Wired Connection* Tab.
 - *Wired Network Enable:* On
 - *Obtain Address Automatically:* Off
 - *IP Address:* 150.100.100.10
 - *Subnet Mask:* 255.255.0.0
 - *Default Gateway:* 0.0.0.0
 - *DNS Server:* N/A
 - Press *F4* to Apply Settings
- *Step 3:* Settings for PC (Window 10):
 - Long Navigation: *Settings -> Network & Internet -> Change Adapter Options -> Right Click Ethernet -> Properties -> Select IPv4 from List -> Properties.*
 - *Use the following IP address:* Checked
 - *IP address:* 150.100.100.1
 - *Subnet mask:* 255.255.0.0

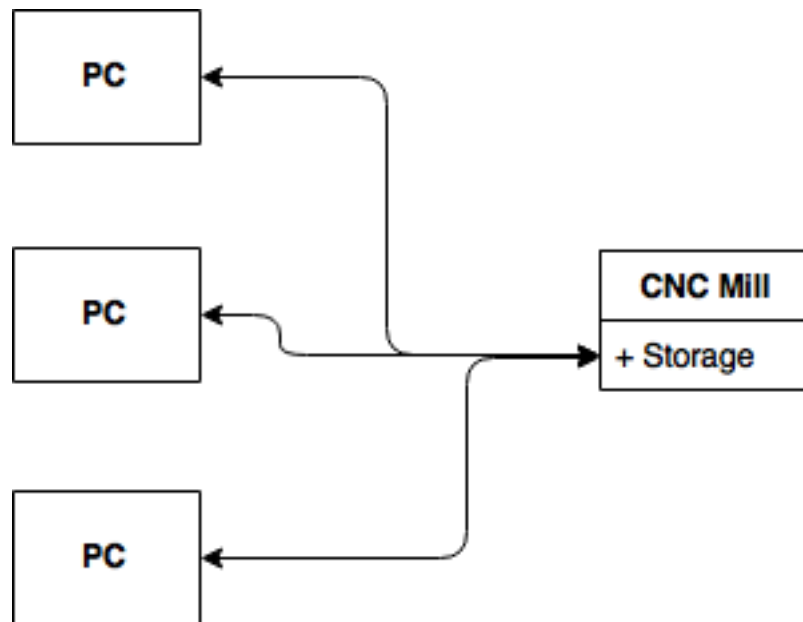
- *Default gateway:* N/A
- *Use the following DNS*
 - server addresses:* Checked
- *Preferred DNS server:* N/A
- *Alternate DNS server:* N/A
- Press *F4* to Apply Settings
- At this point they should be connected to each other which can be checked by pinging the IP of the CNC through the CMD on PC. This step is optional.
- *Step 4: Setting for CNC (Local Net Share):*
 - Navigate to *Network Settings* Menu.
 - Select the *Net Share* Tab.
 - *CNC Network Name:* HaasCNC1140384
 - *Domain/Workgroup Name:* BIDC-MACHINES
 - *Local Net Share Enable:* On
 - *Local Net Share Security:* On
 - *Local User Name:* haas
 - *Local Password:* xxxx
 - Press *F4* to Apply Settings
- *Step 5: Setting for CNC (Remote Net Share):*
 - Navigate to *Network Settings* Menu.
 - Select the *Net Share* Tab.
 - *CNC Network Name:* HaasCNC1140384
 - *Domain/Workgroup Name:* BIDC-MACHINES
 - *Remote Net Share Enable:* On
 - *Remote Server Name:* 150.100.100.1

- *Remote Share Path:* TestShare
- *Remote User Name:* N/A
- *Remote Password:* xxxx
- Press *F4* to Apply Settings
- *Step 6: Setting for PC (Local Net Share):*
 - Start *Run*.
 - *Open:* \\150.100.100.10
 - Hit *OK*.
 - *User:* haas
 - *Password:* xxxx
 - Hit *OK*.
- *Step 7: Setting for PC (Remote Net Share):*
 - Navigation: *Settings -> Network & Internet -> Sharing Options*
 - Select *General or Public*.
 - *Turn on network discovery:* Checked
 - *Turn on file and printer sharing:* Checked
 - Select *All Networks*.
 - *Turn off password protected sharing:* Checked
 - *Apply Settings*
 - Create a file called *TestShare* in the *Documents* folder of the PC.
 - Right Click and select *Properties* for *TestShare*.
 - Select *Sharing* Tab.
 - Select *Advanced Sharing...*

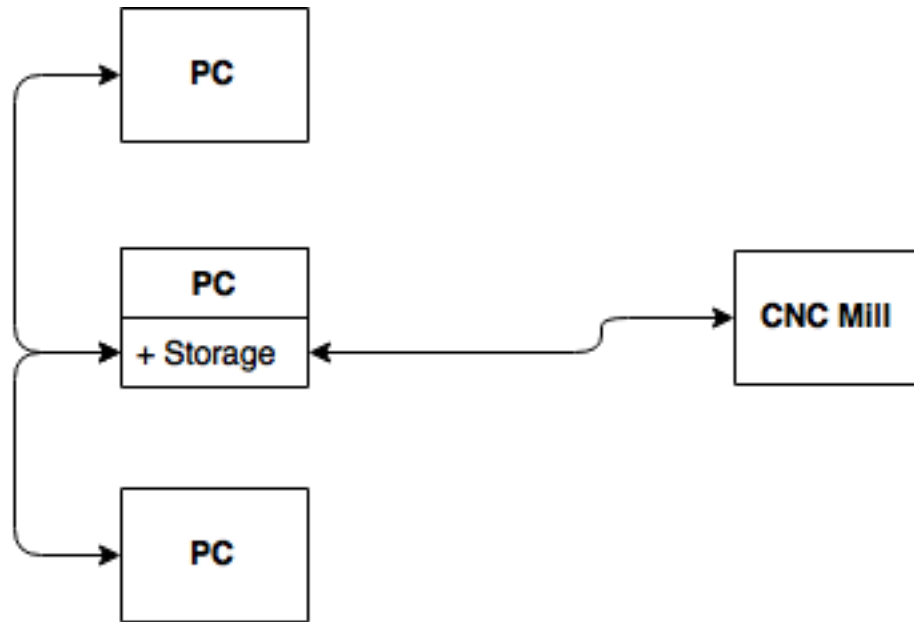
- *Share this folder:* Checked
- *Select Permissions.*
- *Full Control:* Checked
- *Change:* Checked
- *Read:* Checked
- Hit *Okay.*
- Select *Share* from the *Properties* Window.
- Select *Everyone* from drop down.
- Hit *Add.*
- Select *Read/Write* from drop down.
- Hit *Share.*

- **Configurations:**

- *Local Net Share Only:* The storage inside the CNC Controller is visible on the network and files can be transferred to that CNC.



- *Remote Net Share Only:* The storage inside a PC is visible on the network and on the Mill. Files run from the storage directly can stall if connection breaks.



- *Hybrid Net Share:* Client send files to a server which loads them onto the CNC Mill and removes them as needed. Like PaperCut.

