

Label + Serial Number Change

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Box Label



MADE IN CANADA

CAGE CODE: L9460

Module 3Ux5HP VPX ChMC P0 VITA 48.2 CC



MODEL# SHM200-01-010-011



ASSY# 02A000509-A01



SERIAL# 021370102

ORDER#

Product Label



MADE IN CANADA

Cage Code: L9460

Module 3Ux5HP VPX ChMC P0 VITA 48.2 CC



MODEL# SHM200-01-010-011



ASSY# 02A000509-A01



SERIAL# 021370102

Input: 100-240 VAC 10 AMPS MAX

Serial Number List

Amt/Amt or Amt?

Boxes or Circle?

Any more info wanted?

Spacing?

Not enough SN per Orders?

<u>NO.</u>	<u>SO.</u>	<u>PART ID / DESCRIPTION</u>	<u>AMT.</u>	Page 1 sur 1
500042180000	200041380201	SHM200-01-010-011 Module 3Ux5HP VPX ChMC P0 VITA 48.2 CC	2,00	
<u>PART ID / DESCRIPTION</u>	<u>AMT.</u>	Date Printed: 9/13/21		
02A000511-A01 Card 3U VPX ChMC w/o Ethernet VITA 48.2 CC	1,00	<u>SERIAL NUMBERS</u>		
		021040101		
		021330101		
		021330102		

Serial Number List

Amt/Amt or Amt?

Boxes or Circle?

Any more info wanted?

Spacing?

Not enough SN per Orders?
-alt for reprint?

NO.	SO.	PART ID / DESCRIPTION	AMT.	Page 1 sur 1
500041760000	200039680301	VPX9VR180-431-XX0 Chassis 10U 84HP Custom Raytheon	9,00	
PART ID / DESCRIPTION		AMT.		Date Printed: 9/10/21
02A000594-A01 Backplane 6U 14 Slot Custom Raytheon		1,00	<u>SERIAL NUMBERS</u>	
			021260154	
			021260155	
			021260156	
			021260157	
			021260158	
			021260159	
			021260160	
			021260161	
			021260162	
			021260163	
			021260164	
02A000596-A01 ChMC RTM 3U Custom Raytheon		1,00	<u>SERIAL NUMBERS</u>	
			021250118	
			021250120	
02A000622-A01 Module 6Ux5HPx160mm VPX Chassis Manage.		1,00	<u>SERIAL NUMBERS</u>	
			021250102	
			021250103	
18A000086-A01 PSU AC-DC 12V 2500W HS		2,00	<u>SERIAL NUMBERS</u>	
			DOC009BR60004Z	
			DOC009BR60005Z	

Quality Assurance Inspection

-missing database

pixus TECHNOLOGIES		QA Inspection Sheet		Doc# 01A000035-A02
Assembly #		Date	2021-09-10	
Checked By		Date	OK	
Visual Inspection			<input type="checkbox"/>	Overall Aesthetic Appearance <ul style="list-style-type: none">• Scratches• Dents• Finish• Cables tied down neatly• Fingerprints, smudges (visible surfaces inside and out)
			<input type="checkbox"/>	Backplane(s) <ul style="list-style-type: none">• Scratches• Digital GND mounting holes connect per shop order (yes or no)• Model/Serial number label• Screws for power elements tightened (A/R)• Mounting screws tightened• Option jumpers properly configured (refer to configuration sheet or user manual)
			<input type="checkbox"/>	Hardware <ul style="list-style-type: none">• Rails properly mounted• Card/Power Supply latches engage horizontal rails correctly• Check card alignment and ease of insertion and extraction• Screws tightened w/lock tight, screws heads undamaged
			<input type="checkbox"/>	Component Related Flaws <ul style="list-style-type: none">• Incorrect components / BOM mismatch• Incorrect component insertion / orientation• Compare assembly to the configuration sheet (1st off only)• No foreign object present
			<input type="checkbox"/>	ChMM Verification <ul style="list-style-type: none">• Verify 22A000009-A02 sticker is applied after programming• Fan speed check, verify that the speed changes only with upper sensor• All sensors (voltage/temp/fan speed) read correctly• No alarm conditions exist
			<input type="checkbox"/>	Cables and Wire Connections <ul style="list-style-type: none">• Connectors fully inserted (snaps locked)• Lock washers used on all screw and nut connections• Screws and nuts tightened• Spades fully inserted / tight connection
			<input type="checkbox"/>	Labeling <ul style="list-style-type: none">• Serial number label (A/R)• Power label (A/R), label to have the correct information (voltage and current)• Model number label (A/R)• All serial numbers recorded (page 2)• Safety inspection labels (A/R)• All labels correctly aligned and applied
Functional Test			<input type="checkbox"/>	Fan speed control check
			<input type="checkbox"/>	Fan noise check
			<input type="checkbox"/>	Measure voltages
			<input type="checkbox"/>	Power on/off switch
			<input type="checkbox"/>	Electric noise check
			<input type="checkbox"/>	Card insertion test
			<input type="checkbox"/>	Verify front inserts are correctly inserted
Regulatory Test			<input type="checkbox"/>	Ground continuity test
			<input type="checkbox"/>	AD/DC hi pot test (1001V for 60 sec dwell with a 15 sec ramp time)
				NOTE: Call Regulatory Eng. if either test fails
Packaging			<input type="checkbox"/>	Check foam inserts, box type
Notes:				
				Serial #
				Serial numbers

Voltage	Tolerance	Value
+12V	11.4V to 12.6V	
+5V	4.875V to 5.25V	
3.3V	3.13V to 3.45V	
3.3V_AUX	3.13V to 3.45V	
+12V_AUX	11.4V to 12.6V	
-12V_AUX	11.4V to 12.6V	

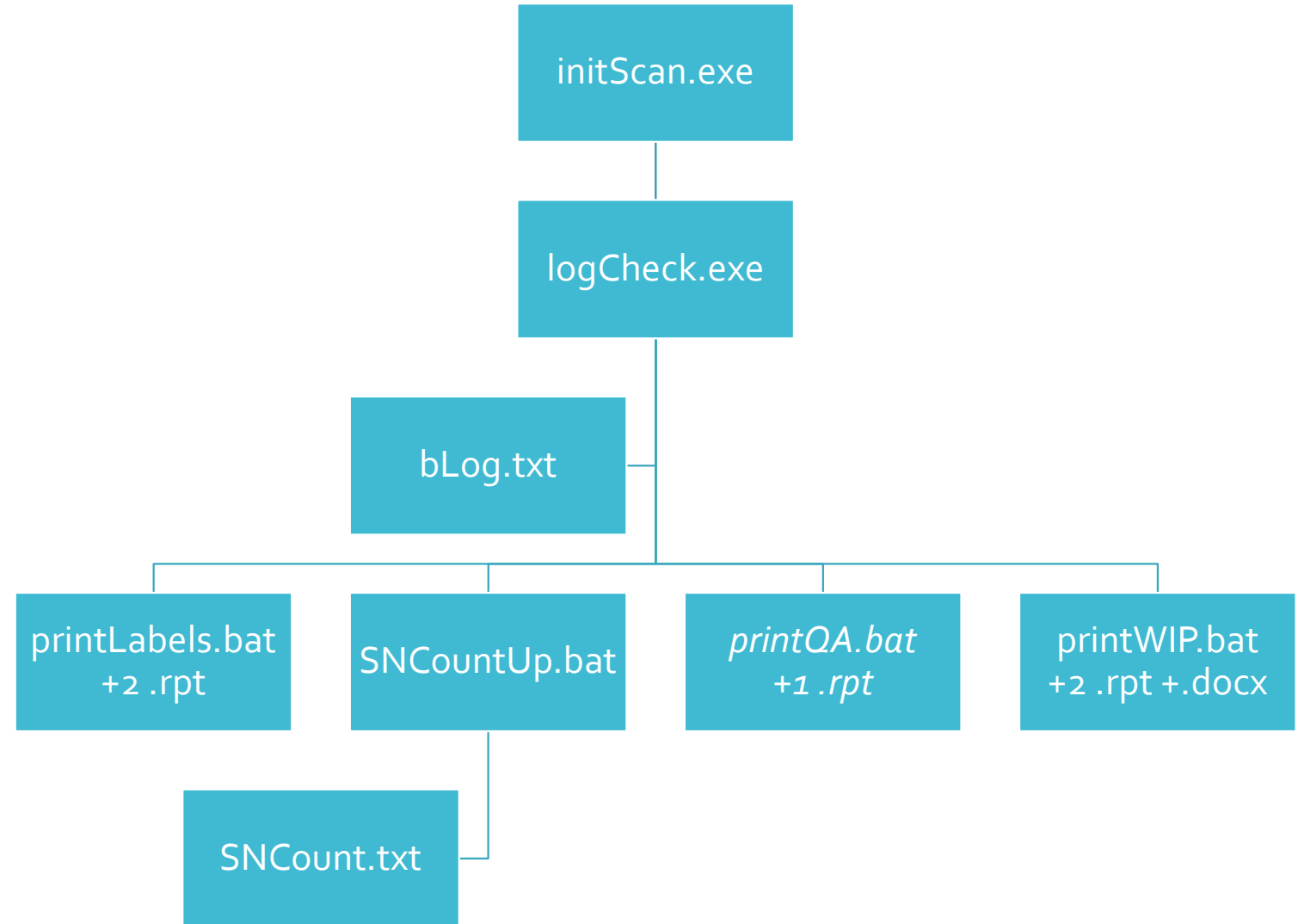
Scan Process

initScan will search for Ctrl+F9 to start the program

Scanners will automatically press F9, user must hold Ctrl

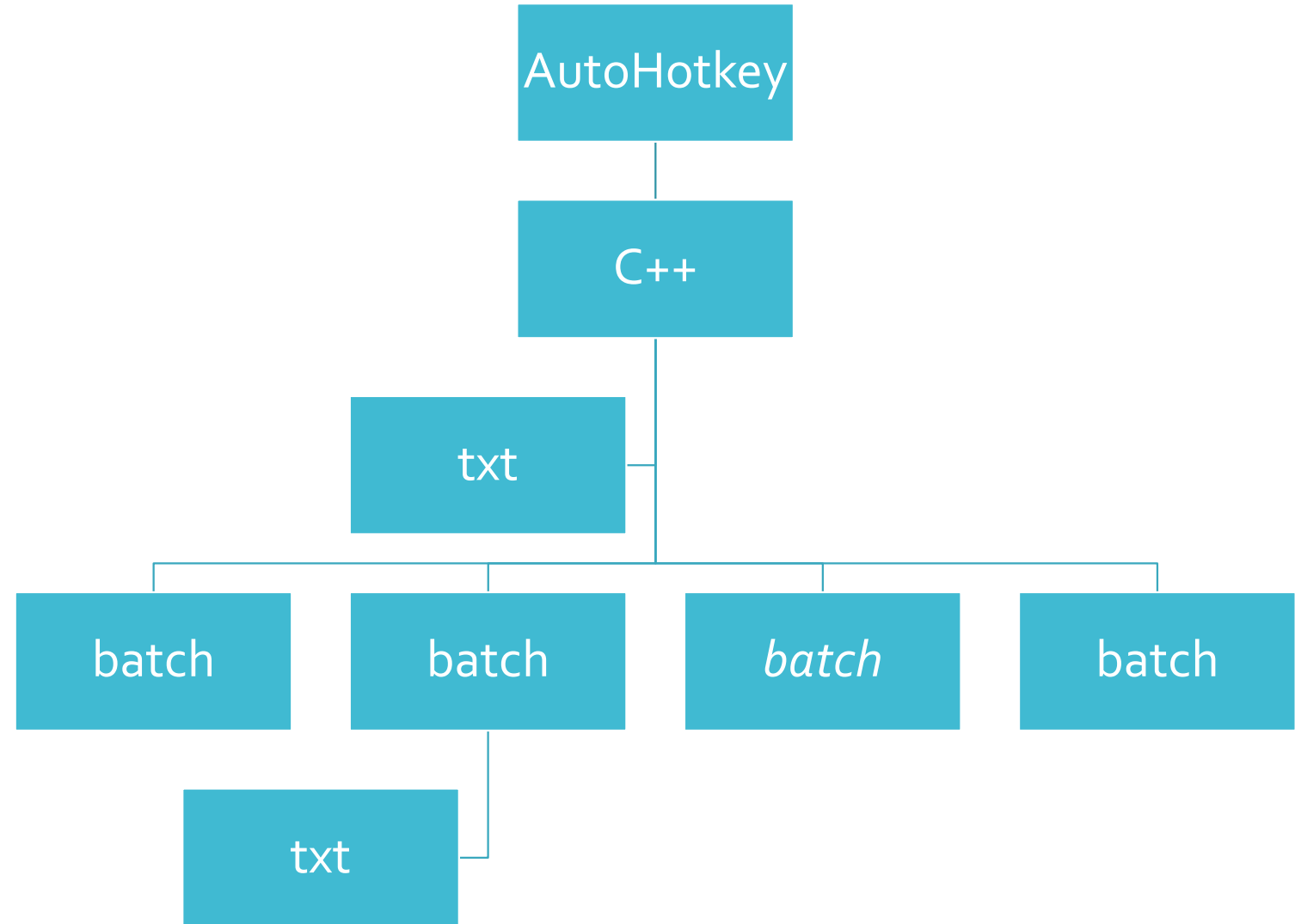
Scan twice to input the barcode

Enter the print amount *

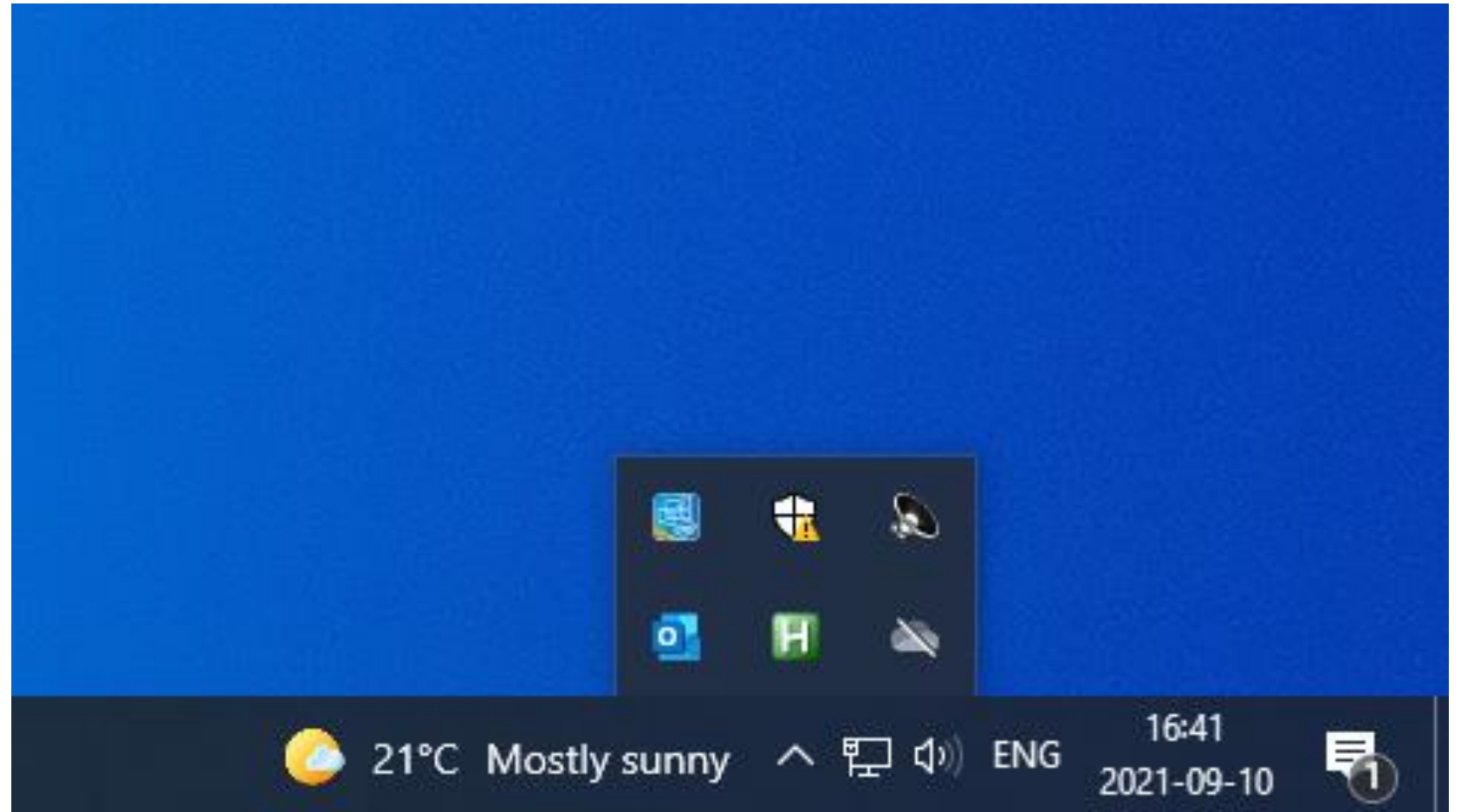


Scan Process

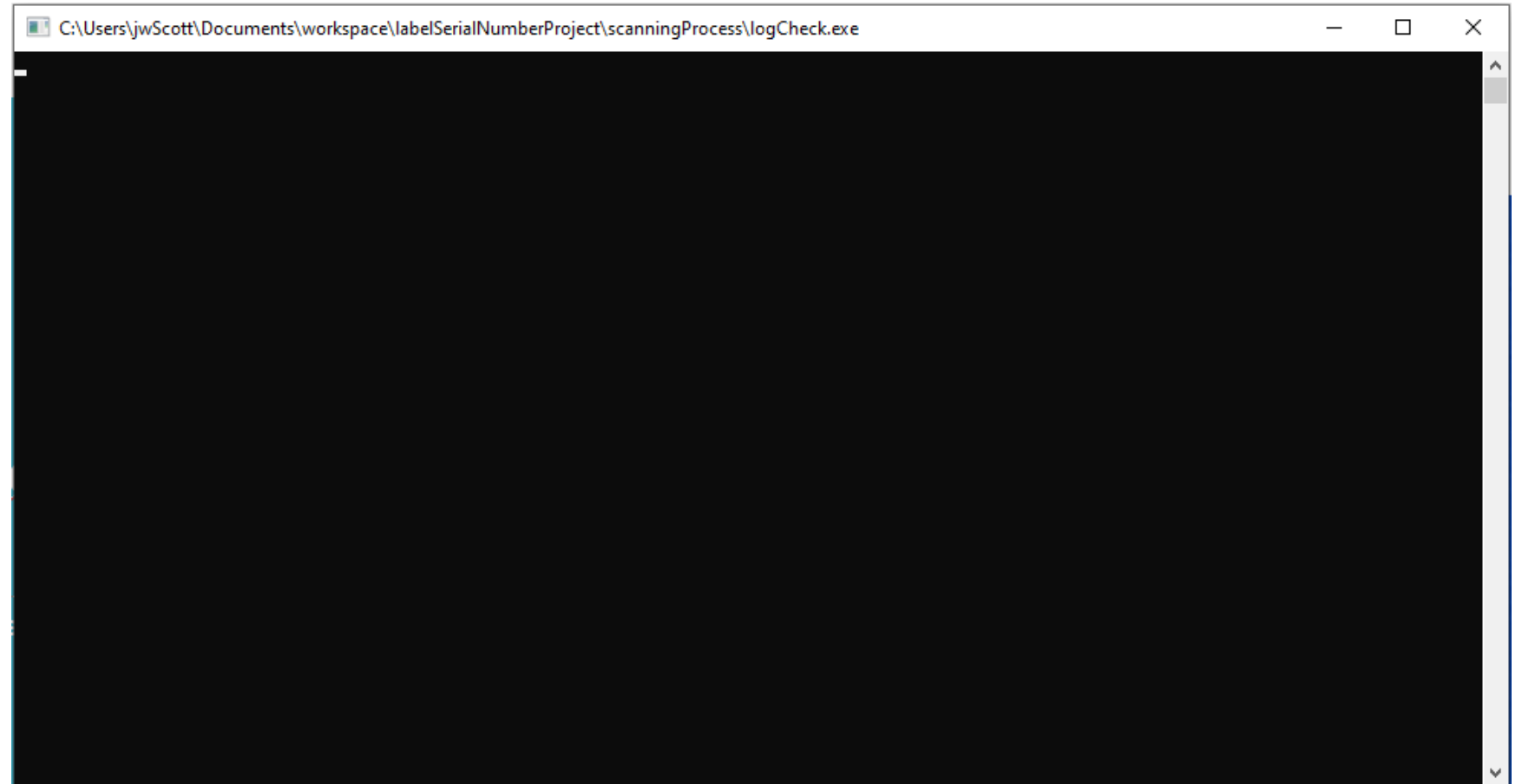
Programs Used



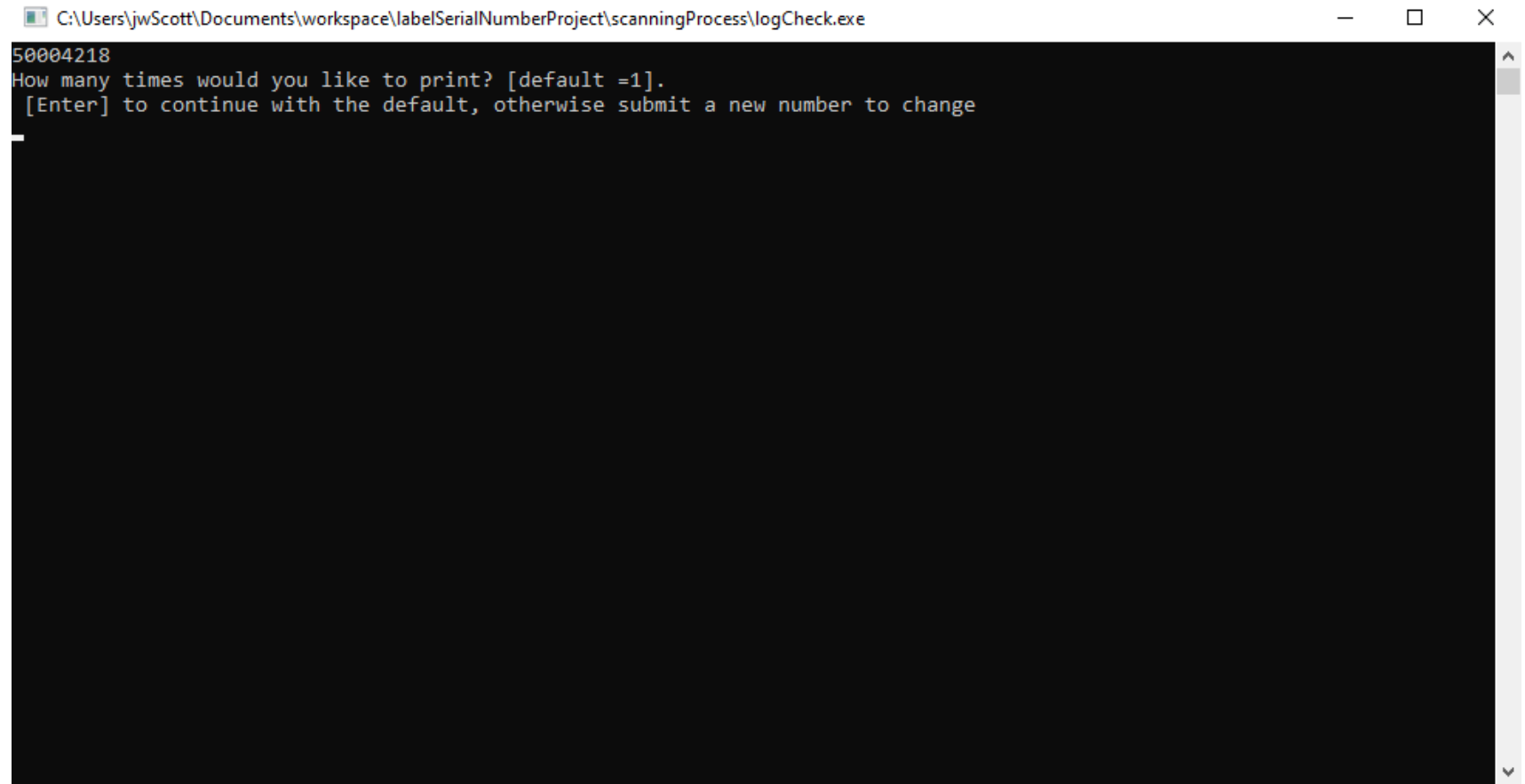
AutoHotkey Running



After Scanning



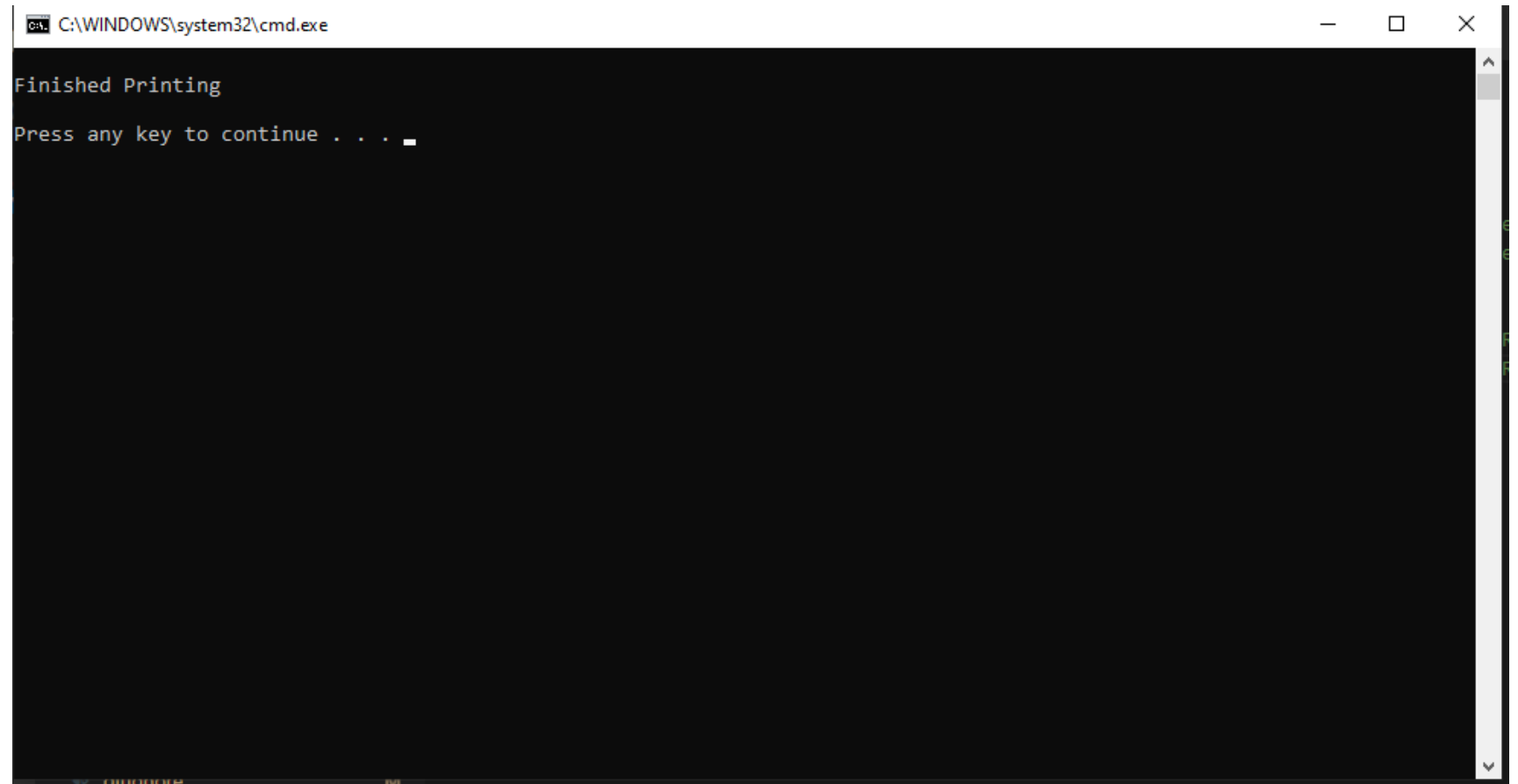
After 2nd Scan



```
C:\Users\jwScott\Documents\workspace\labelSerialNumberProject\scanningProcess\logCheck.exe
50004218
How many times would you like to print? [default =1].
[Enter] to continue with the default, otherwise submit a new number to change

```

Post Printing



A screenshot of a Windows Command Prompt window. The title bar at the top reads "C:\WINDOWS\system32\cmd.exe". The window has standard Windows window controls (minimize, maximize, close) on the right. The main area is black with white text. It displays "Finished Printing" on the first line and "Press any key to continue . . ." on the second line, followed by a small white cursor. A vertical scrollbar is visible on the right side of the window.

```
C:\WINDOWS\system32\cmd.exe  
Finished Printing  
Press any key to continue . . .
```

Reoccurring programs

Need to be setup via Windows Task Scheduler

serialNumberYearlyUpdate.bat

- Runs once a year on January 1st, 1AM
- Updates the SN to the next year, resets week + number

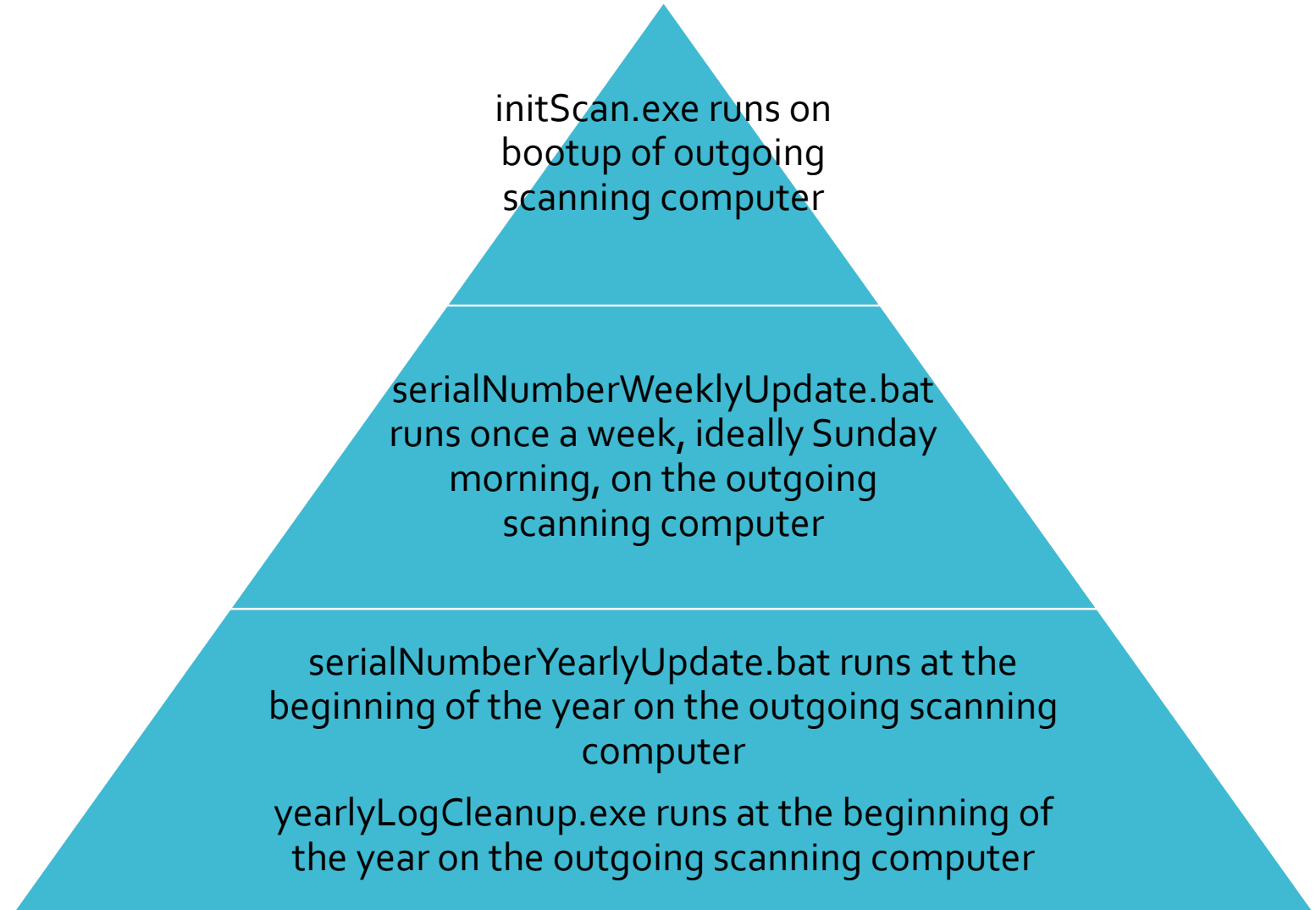
serialNumberWeeklyUpdate.bat

- Runs once a week, on Sunday at 1AM
- Updates the SN to the next week, resets number

yearlyLogCleanup.exe — c++

- Runs once a year, on January 1st 1AM.
- Cleans bLog.txt of old barcodes, presumably not being used post SQL

Windows Task Scheduler



Technical Debt

- Autohotkey needs to be installed on host computer
- If SQL isn't used, we don't need the compiler on each computer, otherwise might need Mingw compiler on host computer and MSSQL
- Scanner needs to preamble with F9
- User needs to hold Ctrl (or Alt or Win)
- User needs to type number of prints they want, defaulted to 1 pending SQL
- Windows Task Scheduler will need to be setup on host computer, if it changes, the system will not work
 - Bat files cant execute on network computers thus needs to be local
- Percentage of barcodes removed every year is customizable
 - Easily found in code of scannerUsageCheck.cpp
 - Then compiled again

Technical Debt Cont...

- Location of data and relevant files is hyper dependent on code
- System will be hard to move between computers
- Report extract is impossible to work with
- Crystal reports wont intake a text file easily, serial number is being imported as a parameter from visual cut
 - Tried ODBC text file
- <https://github.com/pixustechnologies/labelSerialNumberProject>

Github account details

For future use

Github account details

Username

- pixustechnologies

Email

- helpdesk@pixustechnologies.com

Password

- Start with the highest shelf 2nd.