P-SCANNER

Version: 1.2.2.0

User Guide

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1 Introduction

1.1 About P-SCANNER

dataZen P-SCANNER provides an Okuma P100 II/P200/ P300 control user with the ability to scan a barcode and load the associated part program automatically in

P-SCANNER from the code .MIN File(s) path either from local machine folder or from over the network.

When the barcode is successfully scanned, the associated program details are populated on the screen and saved to 'P-SCANNERLog.txt' file in the application directory. Now the program is loaded from the set .MIN File(s) and is ready to run on the control.

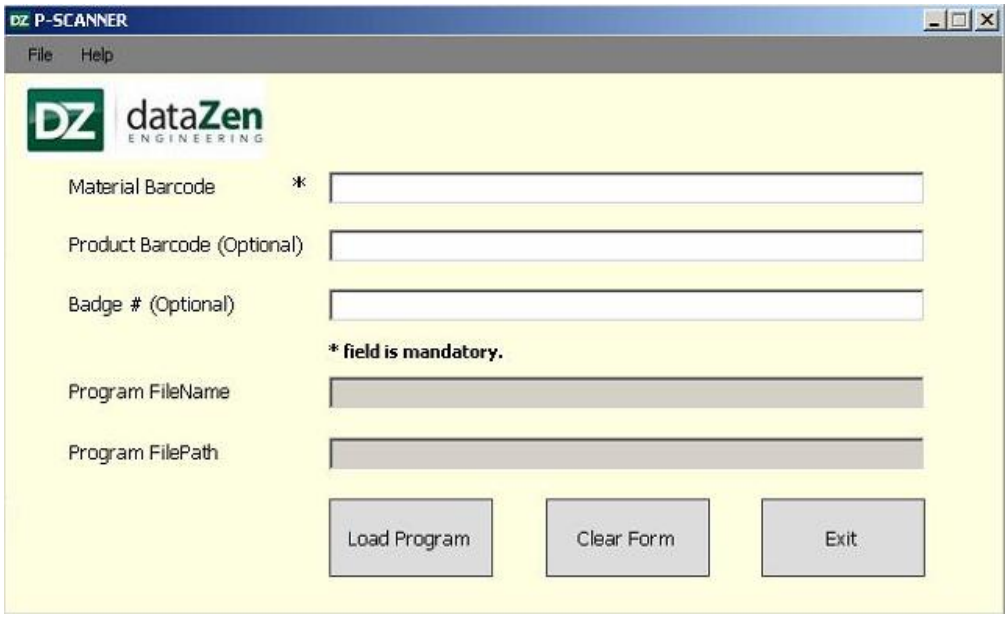

Figure 1: Main Page

1.2 Organization of the Manual

The purpose of this document is to help the users install, navigate and maintain the application described above. The document has the following sections.

Section2:Installation

This section covers, Installation Process, Un-Installation Process.

Section3:Using P-SCANNER

This section covers each User Interface for each feature, along with actions, if any, that can be performed by regular user of the application.

Section 4: Administrating P-SCANNER

This section covers each User Interface for each feature, along with actions, if any, that can be performed by an administrator of the application.

Section5:License

This section covers the license information.

Section6:TechnicalSupport

This section covers technical support details.

2 Installation

The topics in this section provide step by step information to installP-SCANNER.

2.1 System Requirements

The following system requirements must be met in order to install P-SCANNER:

- P100 II/P200/ P300control
- THINC API (Lathe or Machining Center) Version 1.12.1.0 OR 1.15.0.0 OR 1.17.2.0.
- NET 4.0 and above
- OKUMA THINC Startup Service

Note: Not all versions of THINC API are currently supported. If you receive an error while running this application, please contact dataZen. We can provide a plug-into enable support for your version of THINCAPI.

To use the application, as intended, a Barcode Scanner (device) is also required.

2.2 Installation Process

1. To run the software in windows-only mode, follow below steps.
    - Restart the computer.
    - When the NC software starts hitting the escape key and then hit cancel

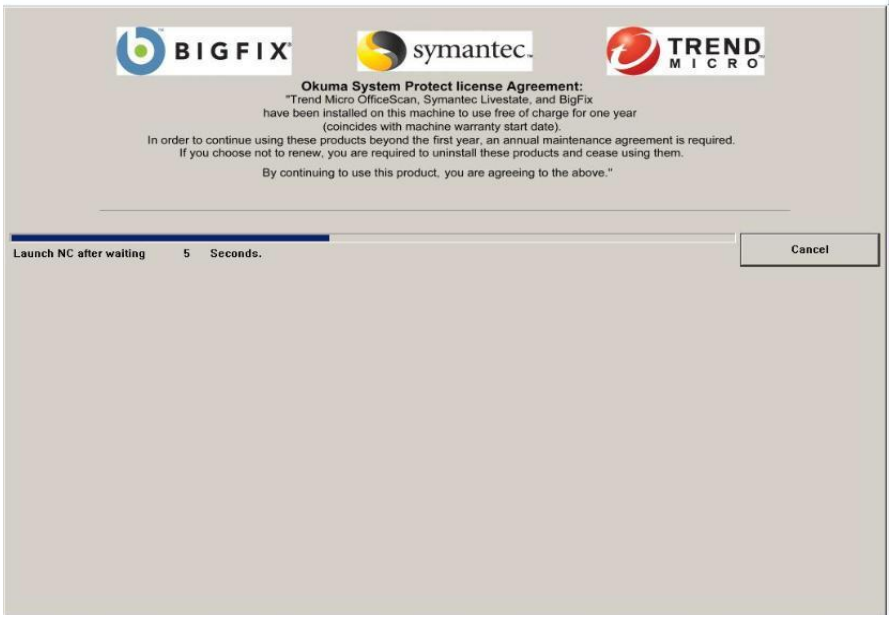

Figure 2: Installation Steps-1

Note: It is recommended that you install the application in windows-only mode. If you install the application in NC Mode, please restart the control when possible, to have

the VF-KEY shortcut display for quick access.

2. Open the P-SCANNER installation folder and click on “Setup.exe” to begin installation and follow the steps provided in the Setup Wizard.
3. If any of the prerequisite is not installed on the machines setup will install those prerequisites and continue with the P-SCANNER Installation.

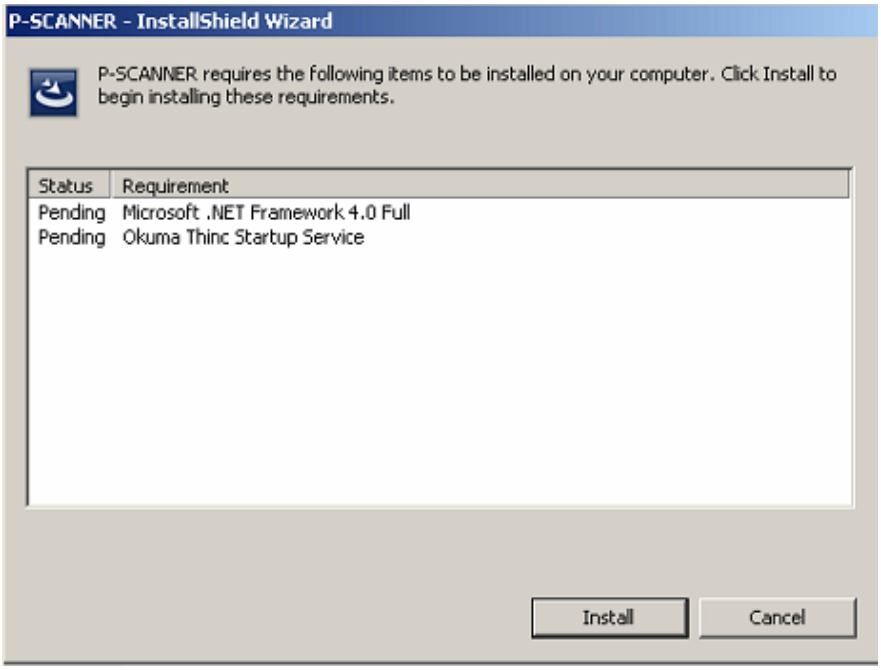

Figure 3: .Net 4.0 Framework Installation

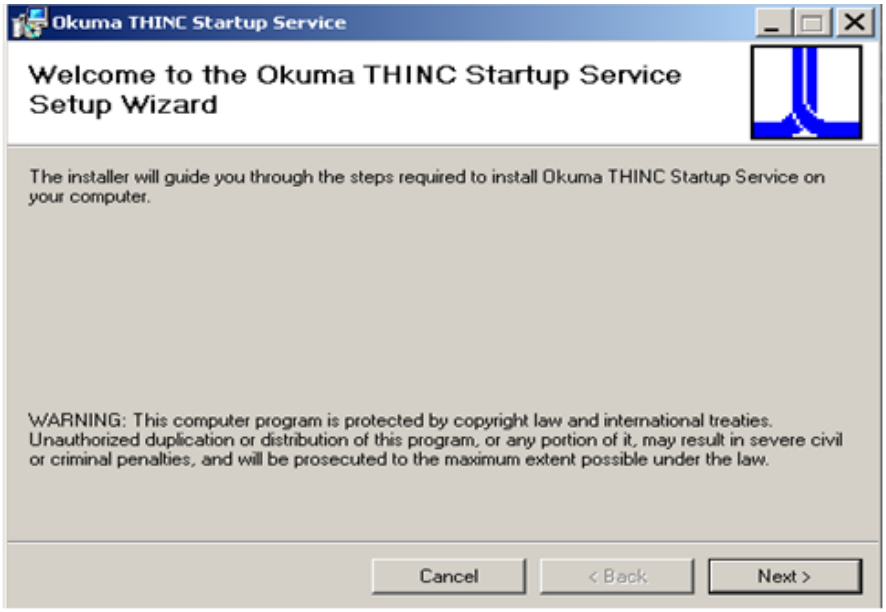

Figure 4: THINC Startup- Installation Wizard

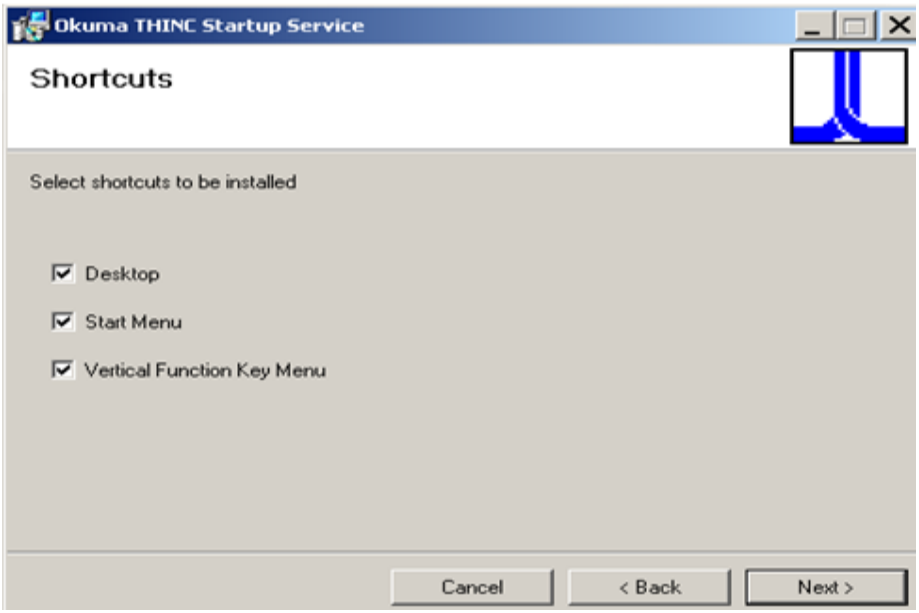

Figure 5: THINC Startup Installation- Create Desktop and Vertical Key

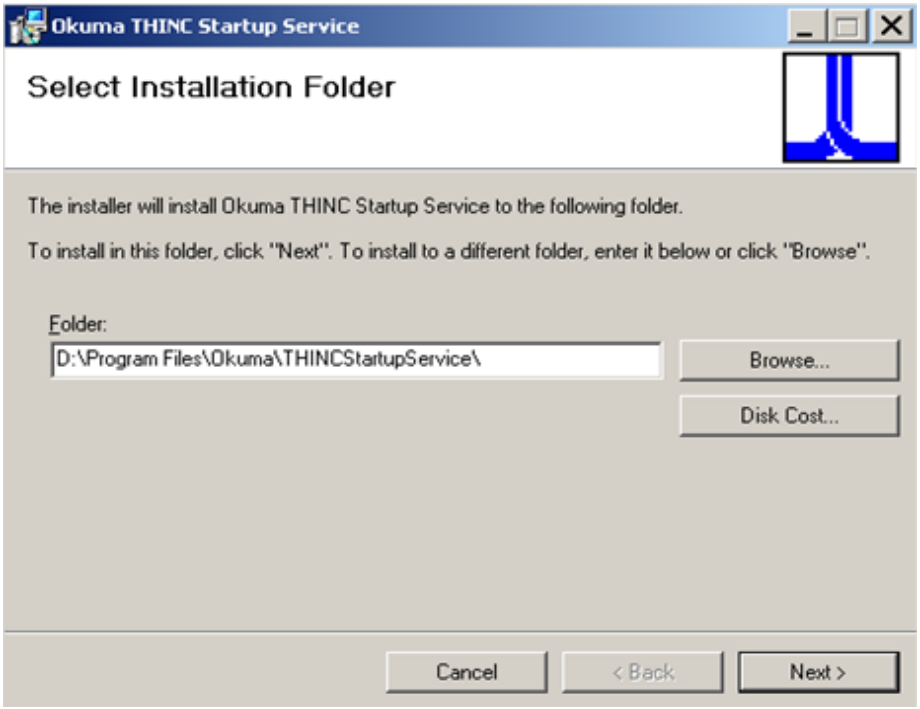

Figure 6: THINC Startup Installation-Select THINC Startup Service Folder

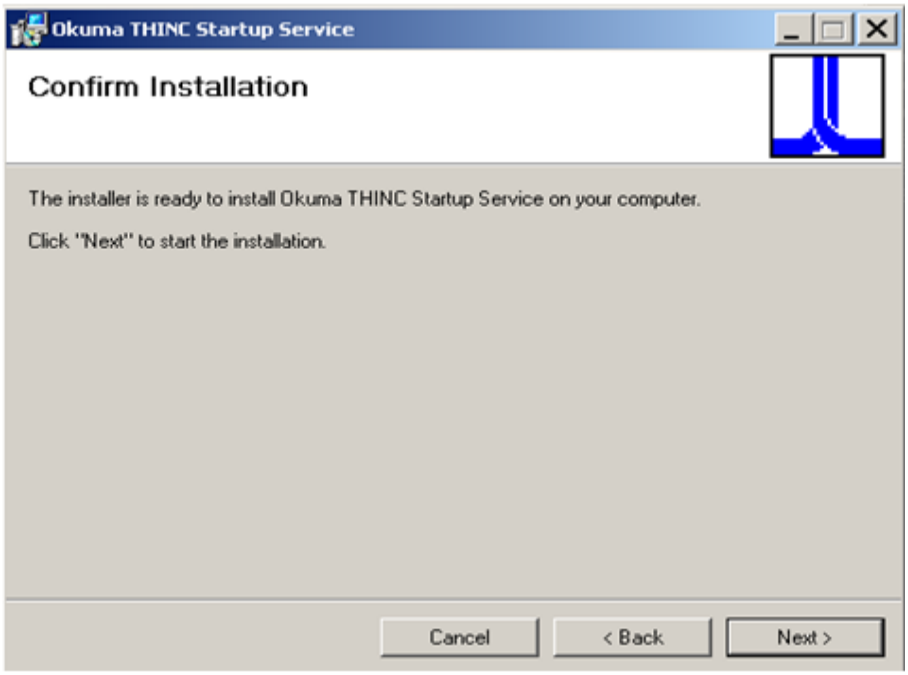

Figure 7: THINC Startup Installation-Confirm Installation

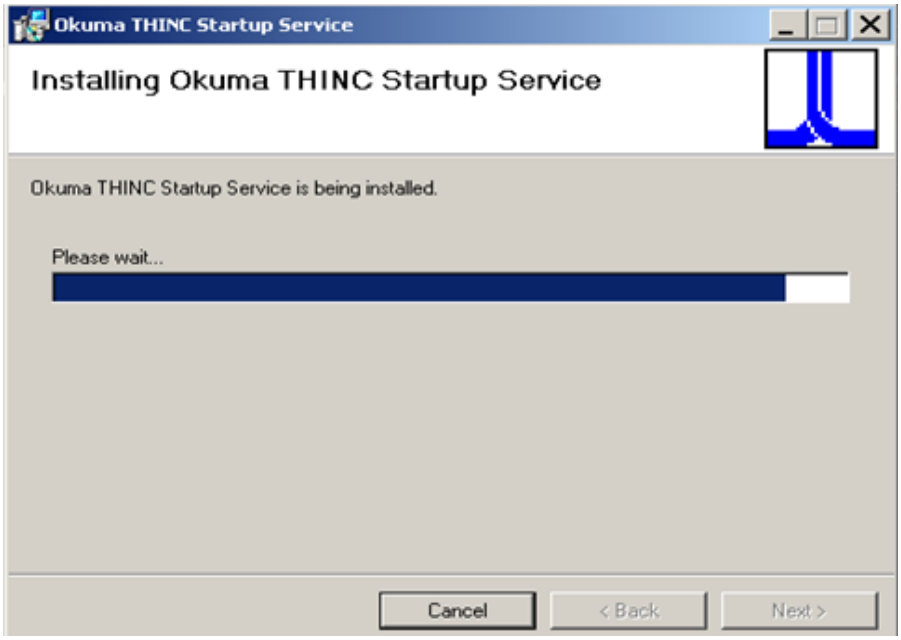

Figure 8: THINC Startup Installation- Installation in process

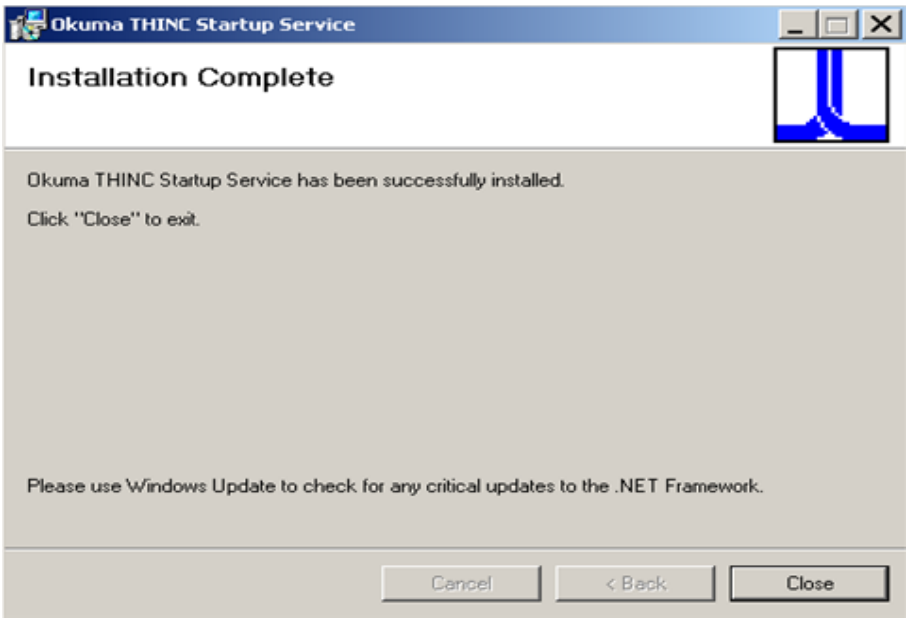

Figure 9: THINC Startup Installation- Installation Complete.

4. Once the Okuma THINC Startup is installed successfully setup will continue with Microsoft .NET Framework 4.0
5. Once the P-SCANNER setup wizard is open click on "Next" and begins with the Installation.

Figure 10:Begin Installation

6. Follow the installation wizard and read the warning carefully given on the installation wizard and click on“Next”.

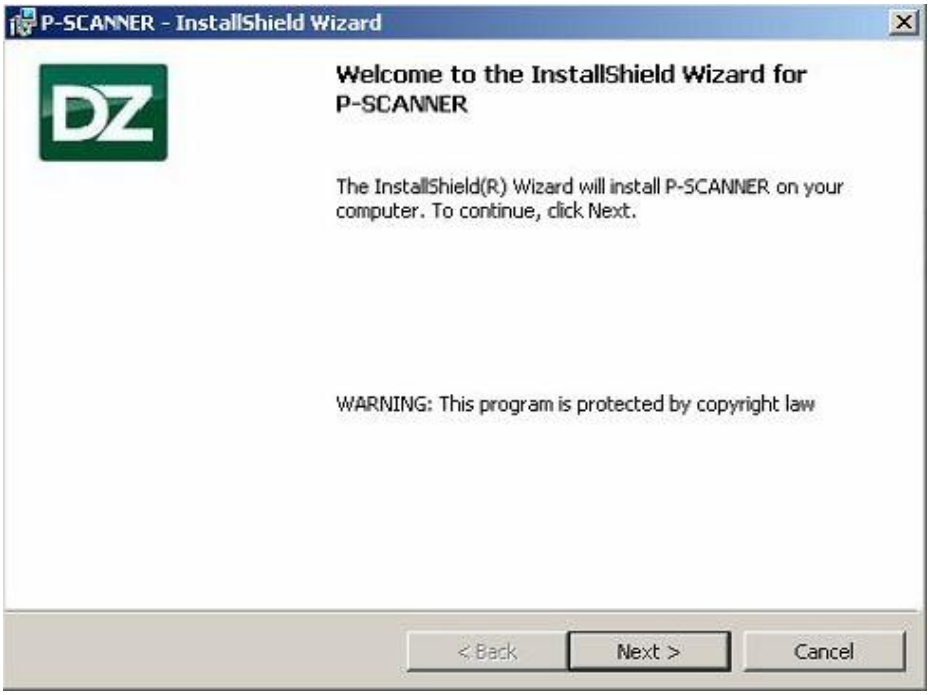

Figure 11: Installation Process

7. Please read the Read me information and click on “Next”

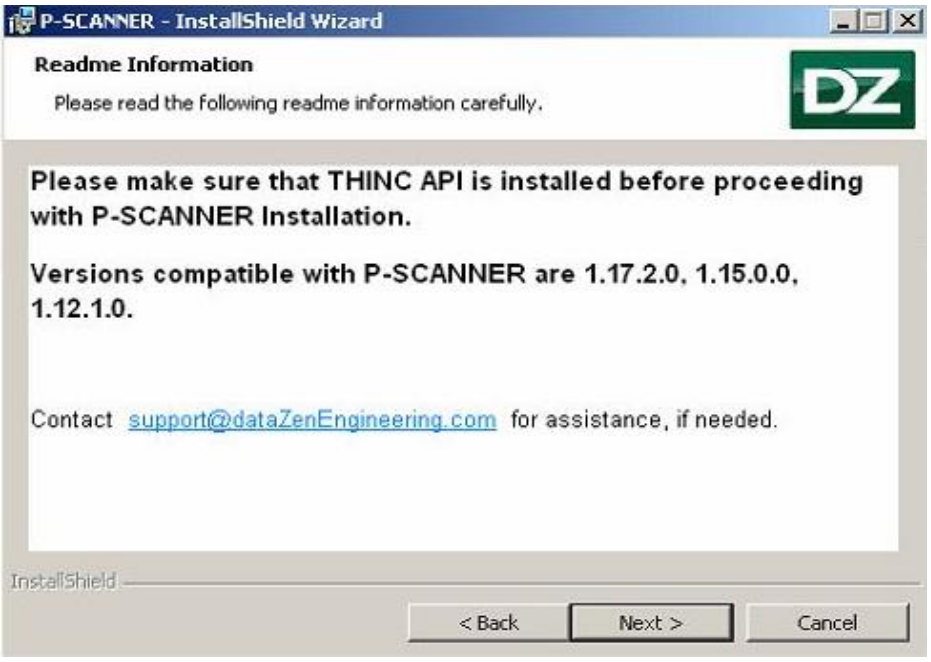

Figure 12: Read-Me Information

8. Select the default installation location path or give the desired location path by clicking on “Change” and click on “Next”.

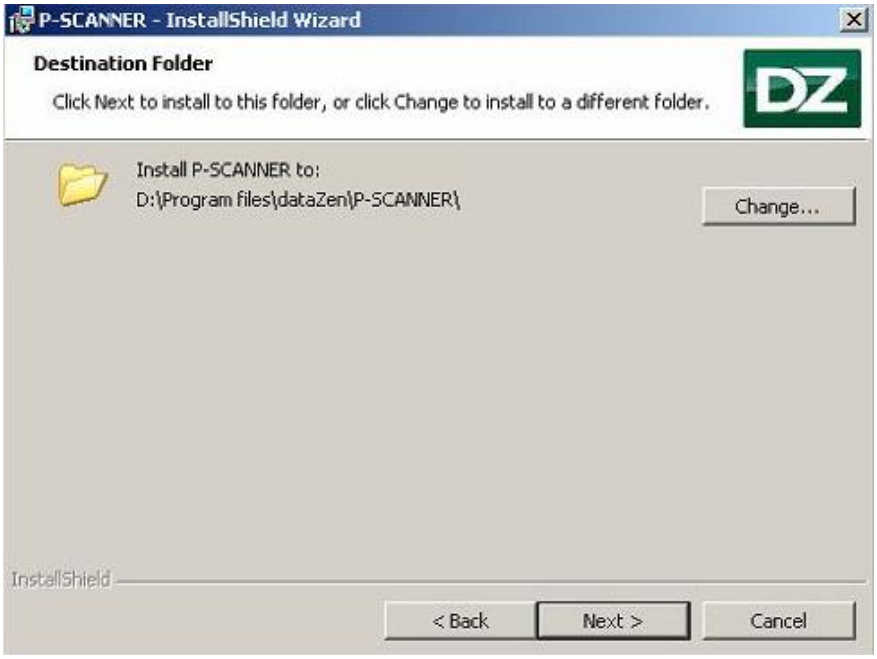

Figure 13: Select Installation Location

Note: Default Path is set to ‘D:\Program Files\dataZen\P-SCANNER\'

9. Read the information and click on “Install”.

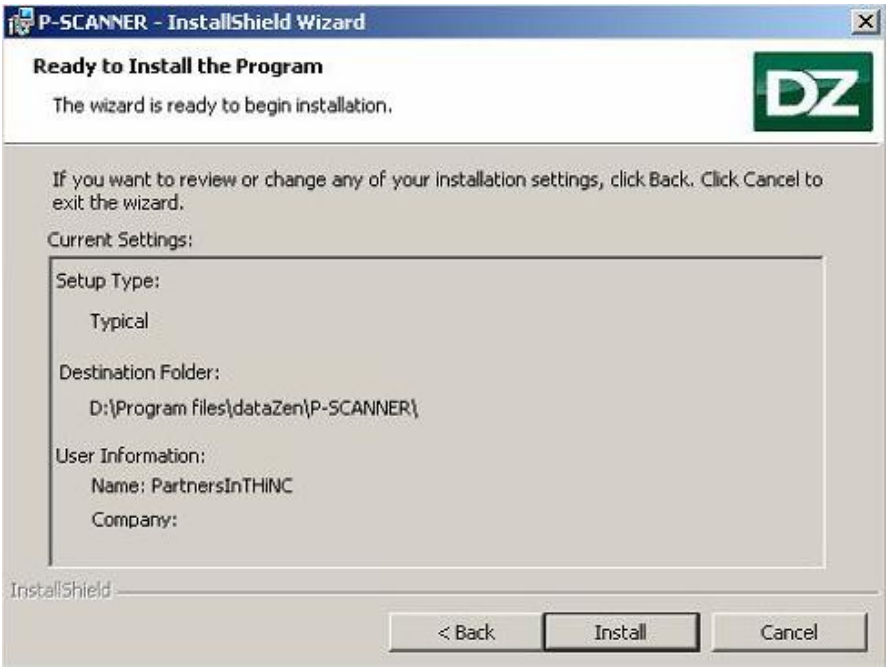

Figure 14:Follow Installation Wizard

10. Follow the installation wizard.

Figure 15: Follow Installation Wizard-1

11. Read the given information and click on "Next".

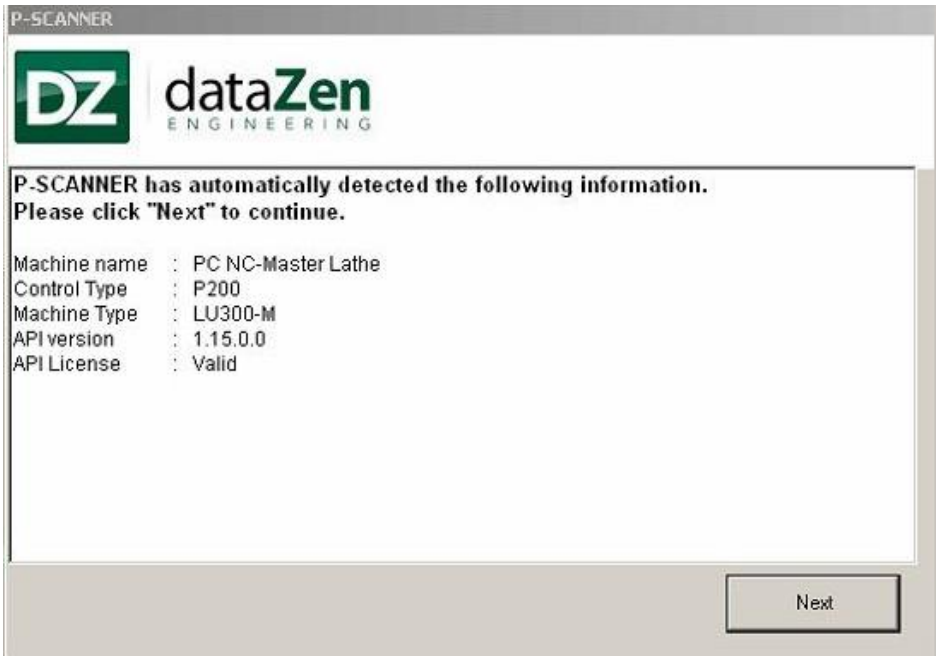

Figure 16: Machine Information

12. Follow the installation wizard to complete the installation process.

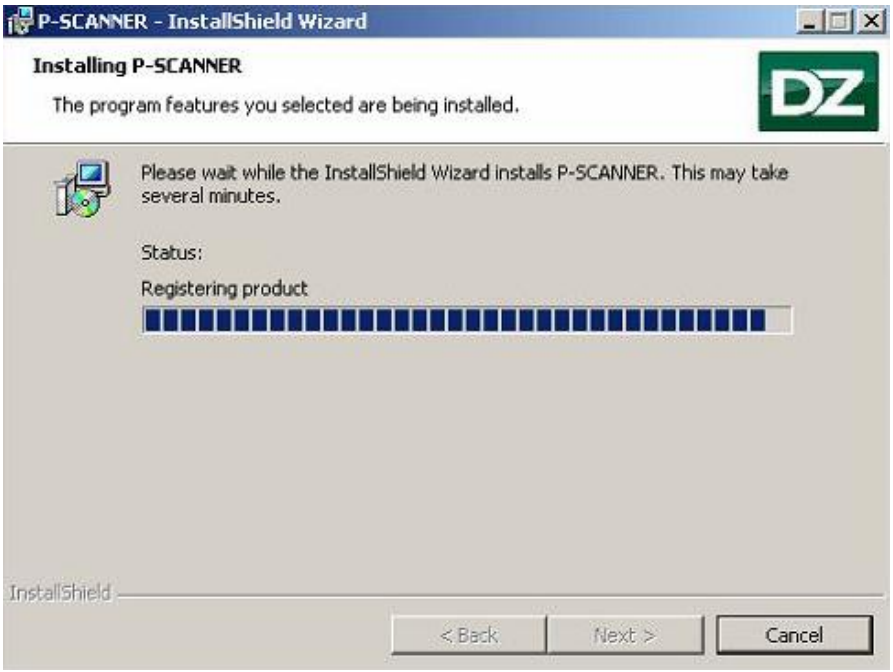

Figure 17: Installing P-SCANNER

13. Click on "Finish" to complete the installation.

Figure 18: Installation Complete

14. After the successful installation of P-SCANNER, home window of P-SCANNER is populated.

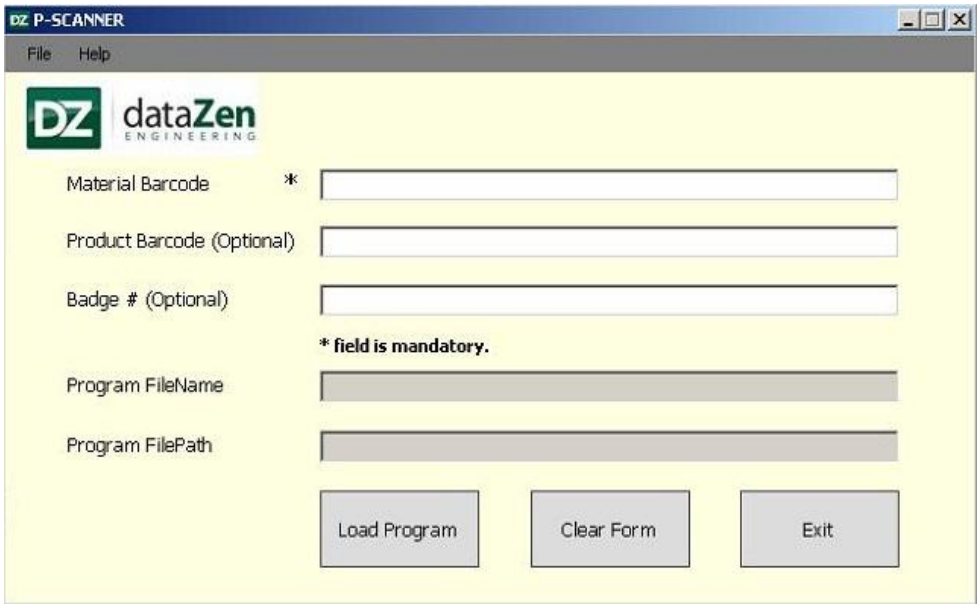

Figure 19: Home window of P-SCANNER

Note: *Two sample program files* ***(DZSample1.min and DZSample2.min)*** *are added to the config.ini file to test the P-SCANNER application.*
For more details about using P-SCANNER, please refer to Section 3 and Section 4.

2.3 Confirm Installation

Before launching the application, please confirm that the control is in NC Mode.

Note: If the application was installed in NC Mode, control needs to be restarted for the VF-Key shortcut to be displayed.

1. Click on VF-Key option and click on "P-SCANNER"

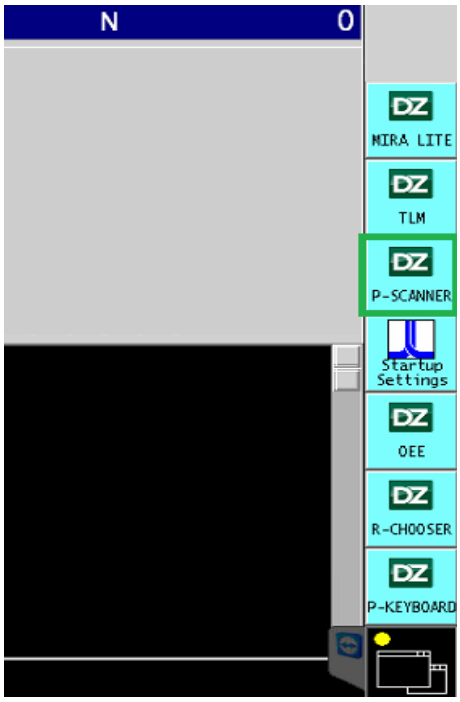

Figure 20: Launching Application 1

2. Go to Start→All Programs→dataZen→P-SCANNER→P-SCANNER to launch the application.

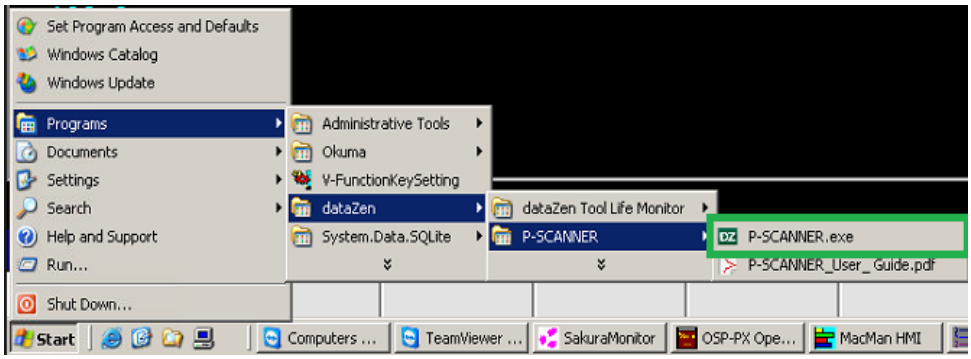

Figure 21: Launching Application 2

***Note:** For the first time use, a 30 days trial license is provided. Once the trial license has expired, please refer to Section 5 for licensing P-SCANNER.*

2.4 Un-Installation Process

Follow the below steps to uninstall the P-SCANNER application from your system.

1. Go to Start→All Programs→Control Panel→ "Add or Remove Program"

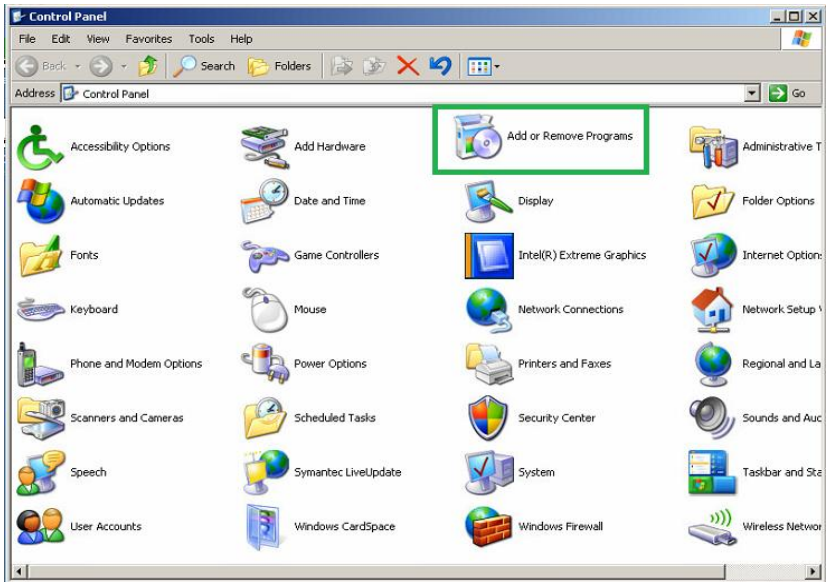

Figure 22: Un-installation Step-1

2. Select the P-SCANNER from the program list and click on "Remove", a yes or no popup appears and then click on **Yes** to uninstall P-SCANNER.

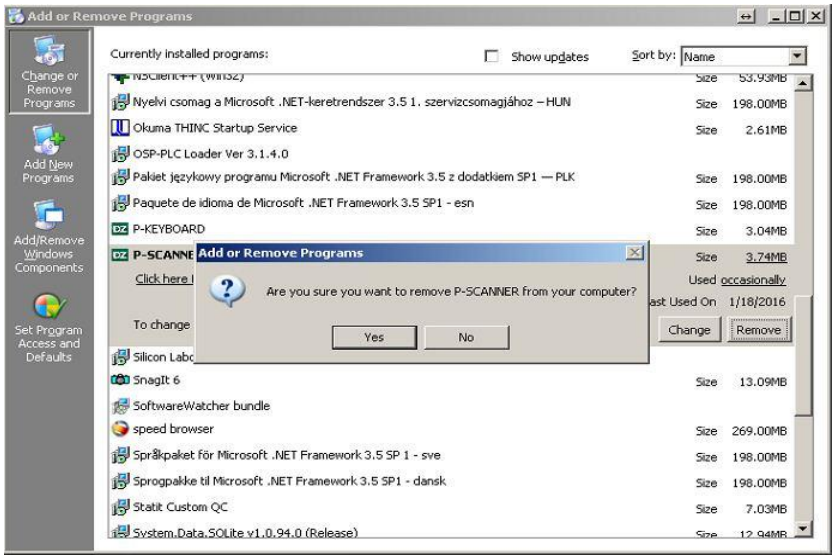

Figure 23: Un-installation -2

3. The application will get uninstalled.

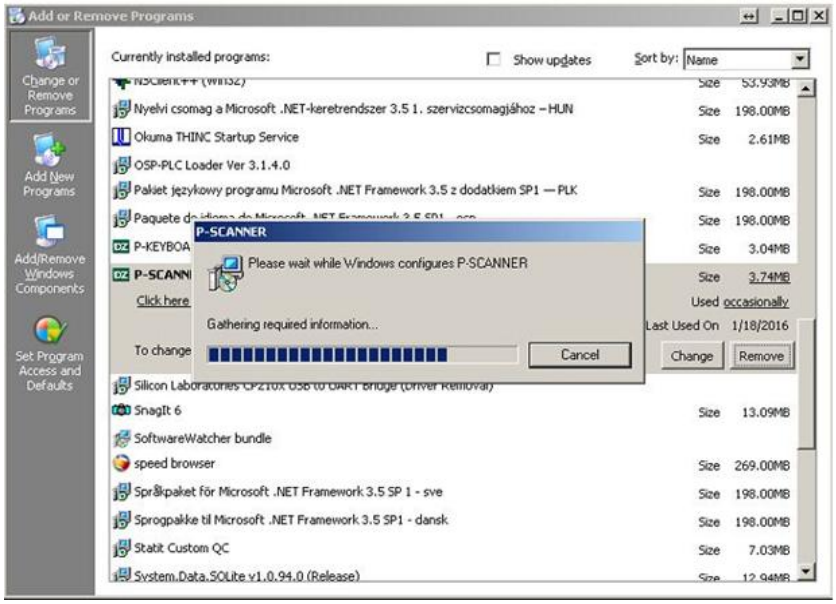

Figure 24: Un-Installation Complete

3 Using P-SCANNER

This section explains steps by step information about how to use dataZen P-SCANNER.

3.1 Scanning the Barcode

1. The “Material Barcode” value is a mandatory field(Barcode Value) and this value will be assigned to the configured part program. Use sample barcodes below to test P-SCANNER.

Figure 25: Sample Barcode value-1

Figure 26: Sample Barcode Value-2

2. In order to scan the value, cursor should be on respective field e.g. if user scanning **Material Barcode** then the cursor must be on the Material Barcode box.
3. Product Barcode and Badge # are optional fields. User may or may not scan or add details in this field.
4. User can manually type the Product Barcode and Badge #, if a barcode is not available for scanning.
5. Application will select the configured program from config.ini file, and display the program name and program path.

6. After populating the required information, click on the **"Load Program"** button. A message box is displayed to confirm the program was selected successfully.

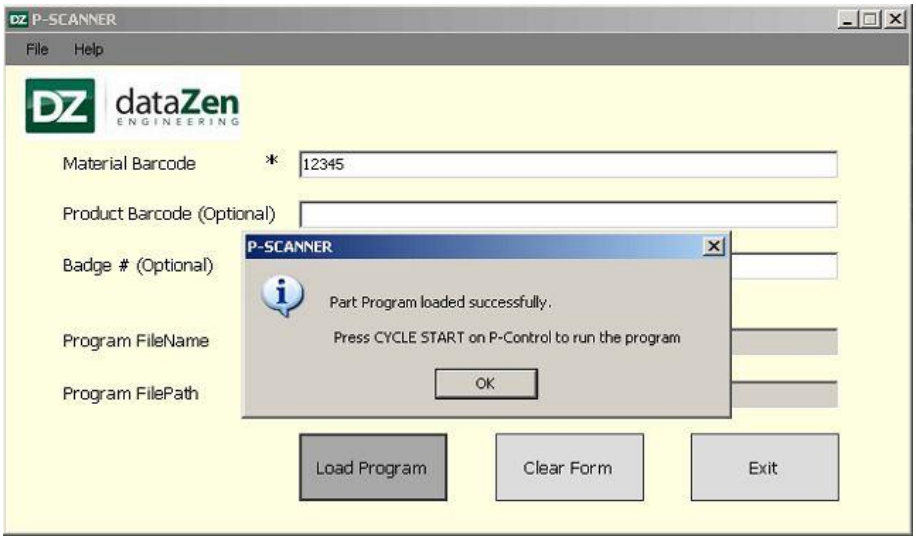

Figure 27: Load Program

7. Once the "Load Program" button is clicked, the selected program is ready for use in the control and the program file from the specific location will be copied to the .MIN File(s) path selected for ex: the program file will be copied to "D:\MD1" Folder.

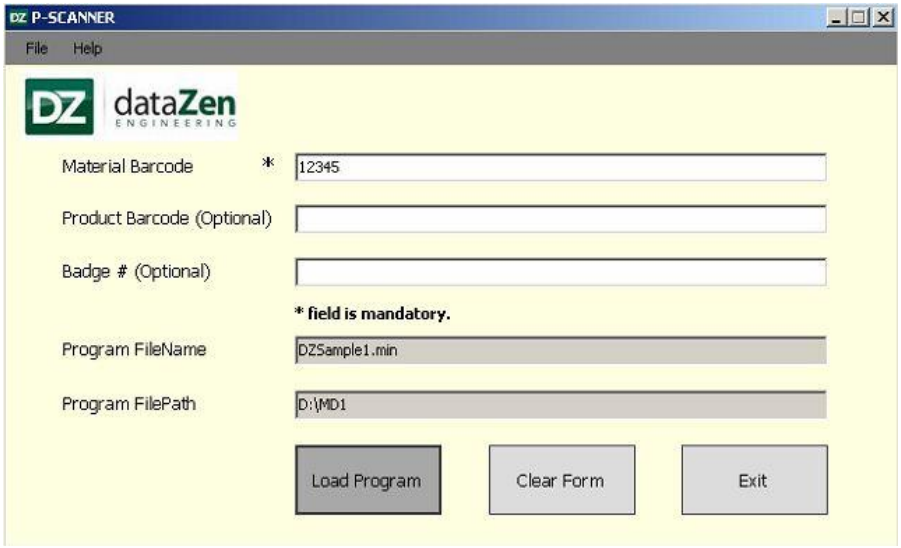

Figure 28: Part Program Loaded Successfully

8. The **Clear Form** button will clear the selection and values on each field.

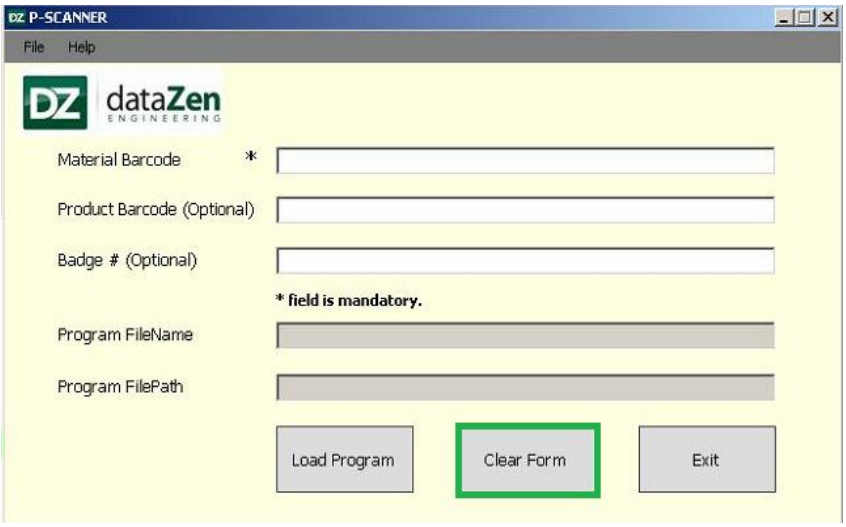

Figure 29: Clear Form

9. To close the P-SCANNER application, Select **'Exit'** and click on **'Yes'**.

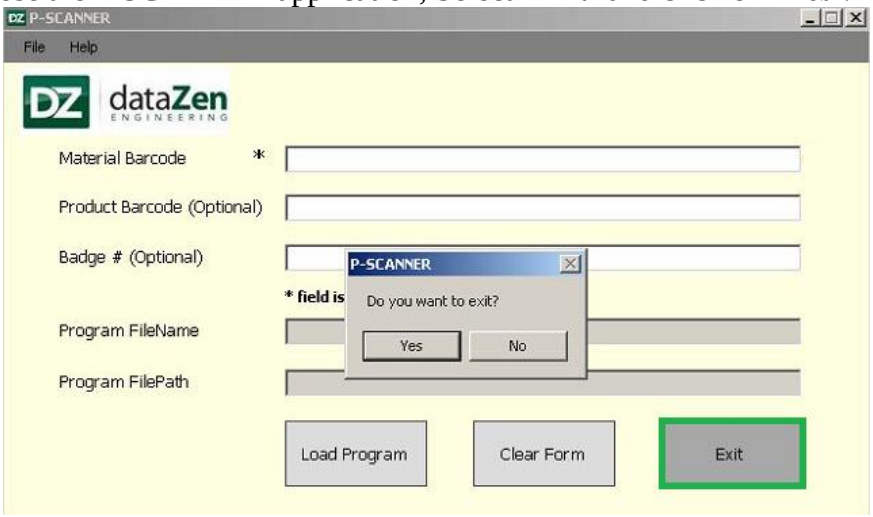

Figure 30: Exit P_SCANNER

Once the program has loaded successfully, all program details like Program Name, Material Scan, Prod Scan and Operator's Badge values with date and time will be saved as 'P-SCANNERLog.txt file' in application directory.

For Example:

[2015-05-08 17:11:15Z [Info]: ABC.MIN Program successfully selected.

2015-05-08 17:11:18Z [Info]: Material Scan: 123, Product Scan: ABC123, Operator's Badge: 543524, Program Name: ABC.MIN]

Note: Once the "P-SCANNERLog.txt" file exceeds 5 MB, the file will be deleted from the control and will be copied to configured share drive under log folder.

3.2 About P-SCANNER

To check the application version and other details please click on “Help” and then “About”.

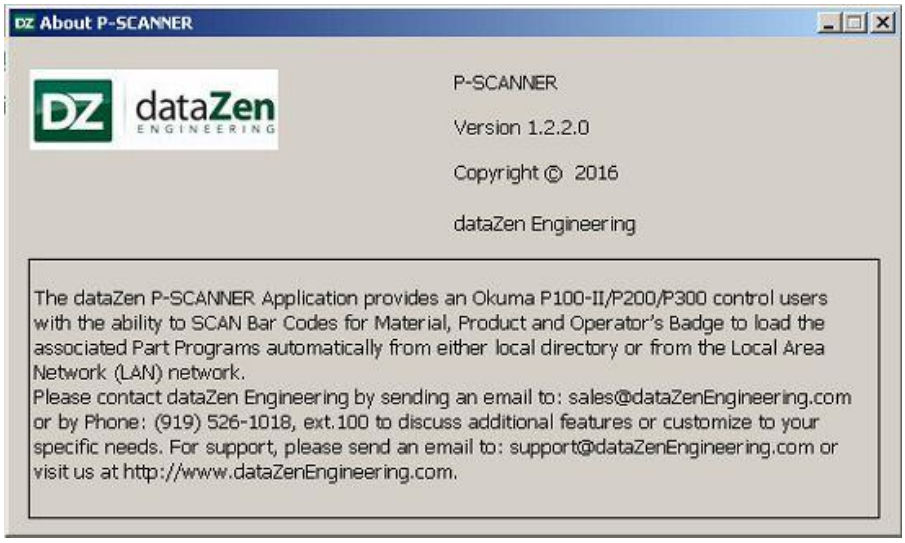

Figure 31: About P-SCANNER

4 Administrating P-SCANNER

This section explains step by step information to configure a location to store all programs for security either locally in a safe location or over the network and add barcode details in configuration file and configure the programs with the barcode value.

To access the configuration settings, click on the 'File ->Customize'.

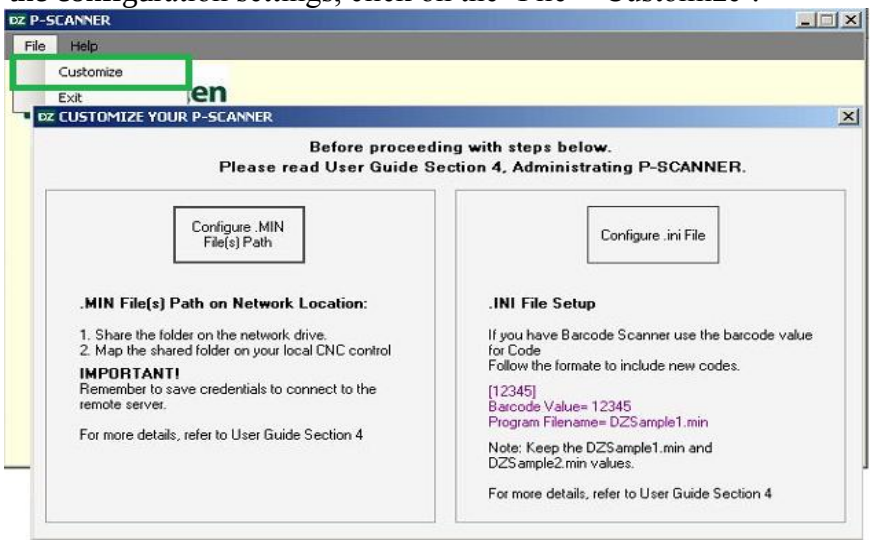

Figure 32: P-SCANNER Configuration Settings

4.1 .MIN File(s) Configuration

The .MIN File(s) path could be on your control OR a shared folder on network drive. To change the default path of "D:\MD1" folder click on the "Browse" button on the 'Configure' screen shown above.

4.1.1 On the Local Machine

If your location is the default location on the control itself, simply browse to the location and save the location. Follow below steps to configure .MIN File(s).

1. Go to "File→Customize" on home window of P-SCANNER and click on **'Configure .MIN File(S) Path'** on "CUSTOMIZE YOUR P-SCANNER" window

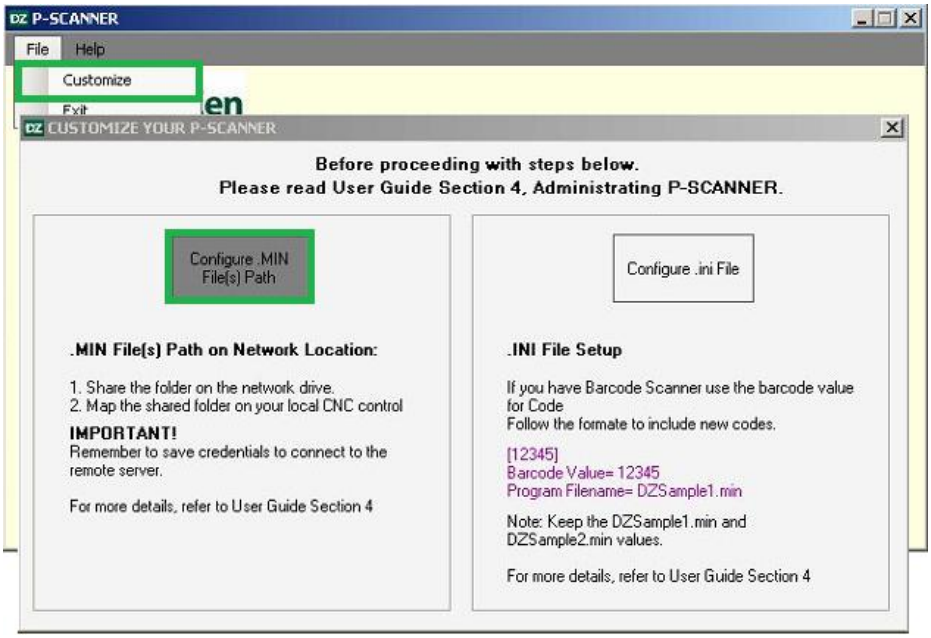

Figure 33: Configuring .MIN File(s) path

2. Here the default .MIN File(s) path is 'D: \MD1' or click on **Browse** to set the desired path for .MIN File(s).Once the path is set, click on **Save.**

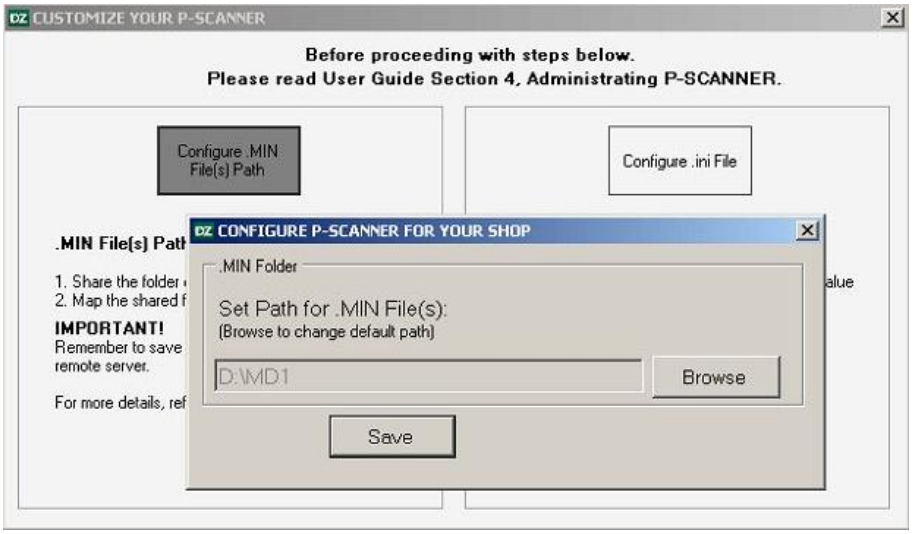

Figure 34: Browse for .MIN File(s) Path

3. After clicking on Browse **'Browse for folder'** window is populated.
4. Select the desired directory path and click on 'OK' and once the directory path is selected click on 'Save' Button.

   For example: D:\MD1.

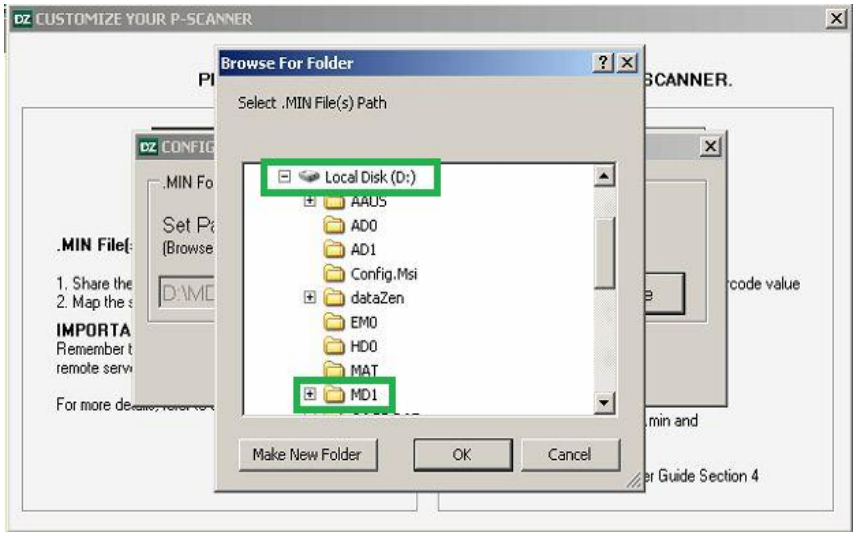

Figure 35: Browse for Desired Directory for .MIN File(s) Path

4.1.2 On the Server/Networked Machine

If your .MIN File(s) folder location is on the network drive, you will need to configure the shared folder on server / networked machine before mapping the folder on the control. The following sections describe the steps in details.

4.1.2.1 On the Server

Before starting the application, it is required to configure Common .MIN File(s) (Shared folder) by following a process which is essential for loading .min files.

1. Log on to the server and create a folder where you want to store program files, e.g. C:\ drive and name it as "P-SCANNER MIN Share"
2. Right click, "P-SCANNER MIN Share" folder and click on Properties
3. Click on Sharing tab→ Advanced Sharing.

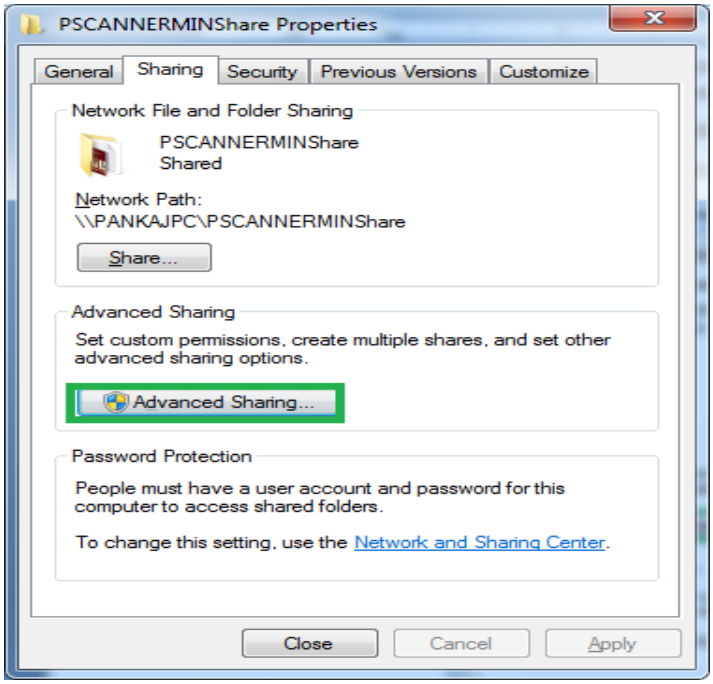

Figure 36: .MIN File(s) Configuration-1

Note: *Please make sure the share directory name doesnot contain spaces.*

4. Check the **'Share this folder'** checkbox and click on **Permissions.**

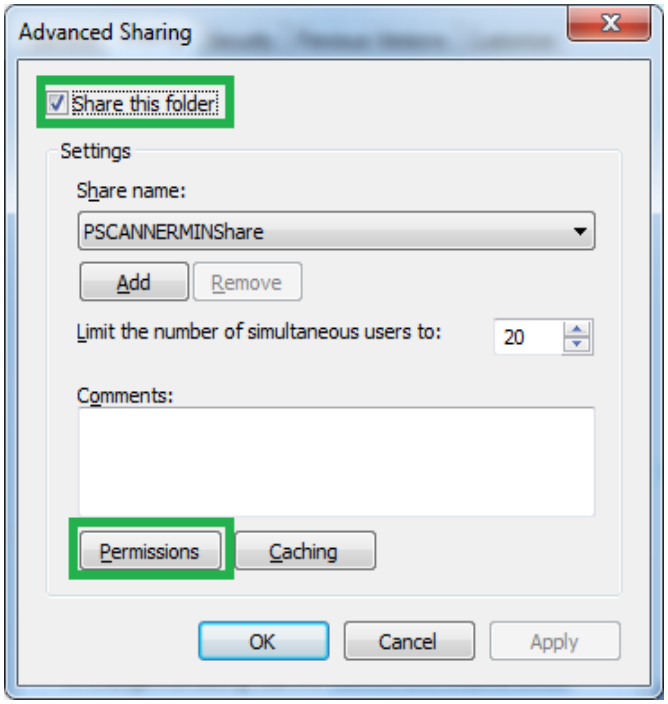

Figure 37: .MIN File(s) Configuration-2

5. Select a 'group of user name' as "**Everyone**" and check **Full Control** checkbox and click on OK for each window opened.

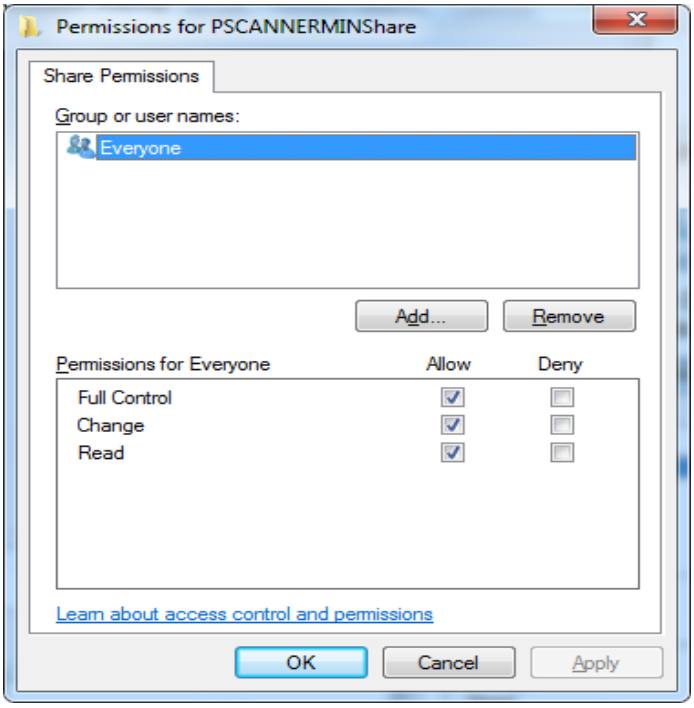

Figure 38: .MIN File(s) Configuration-3

4.1.2.2 *On the Control*

In order to configure program files (.MIN) from the server, we need to map the shared folder on the control.

1. Go to the control and right click on My Computer and select map drive

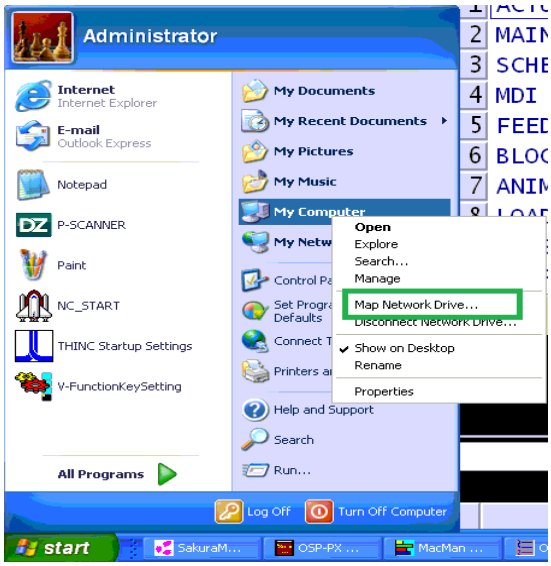

Figure 39: .MIN File(s) Configuration- On the Control-1

2. Enter the server IP address followed by shared folder name as shown in the example below.

3. Select the drive where the file folder is saved, Select the folder name and then Click on 'Reconnect at logon' check box and click on "Finish" button.

   For Example: \Server Name\PSCANNER

Figure 40: .MIN File(s) Configuration- On the Control-2

4. Enter the user name and password of the server and check **remember my Password** check box and click on **Ok**

Figure 41: .MIN File(s) Configuration- On the Control-3

5. Now, launch the application from

   "Start→Programs→dataZen→P-SCANNER."

6. Click on **File** and then click on **"Customize".**

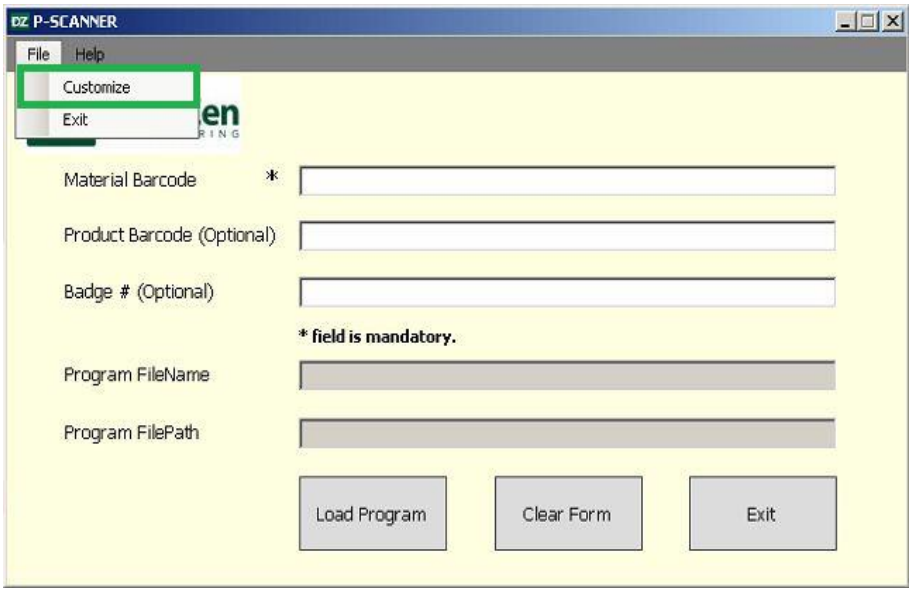

Figure 42: Configuring .MIN File(s)

7. On clicking ‘Customize’, a “CUSTOMIZE YOUR P-SCANNER” window pops up in that select “Configure .MIN File(s) path” to configure the path.

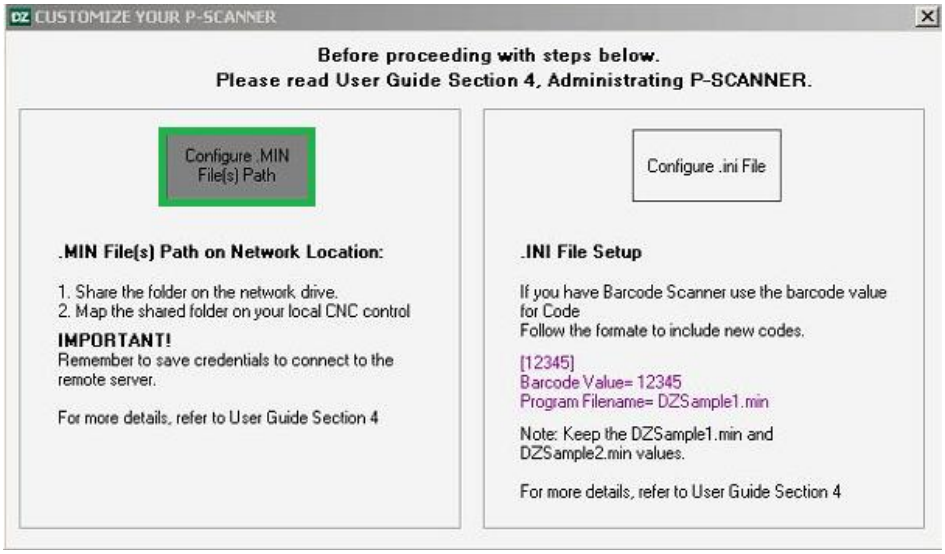

Figure 43: CUSTOMIZE YOUR P-SCANNER

8. Here the default .MIN File(s) path is ‘D: \MD1’ or click on **Browse** to set the desired path for .MIN File(s).Once the path is set, click on **Save.**

Figure 44: Select .MIN File(s)

9. After clicking on Browse **'Browse for folder'** window is populated in that select the shared directory from network and click on 'OK'.

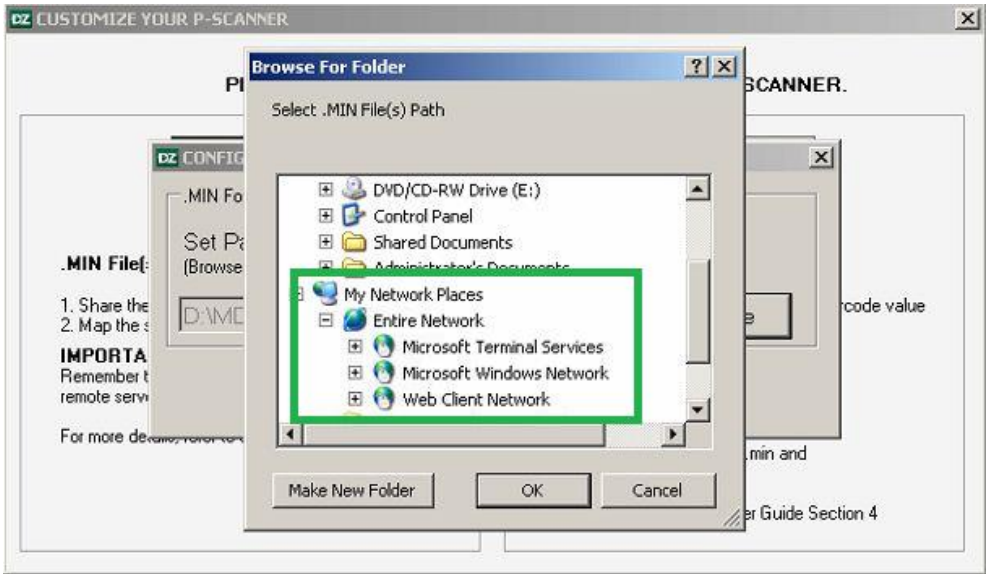

Figure 45: Select Configured shared folder

OR

10. Select the desired directory path and click on 'OK'. Once the directory path is selected click on 'Save' Button.

    For example: D:\MD1.

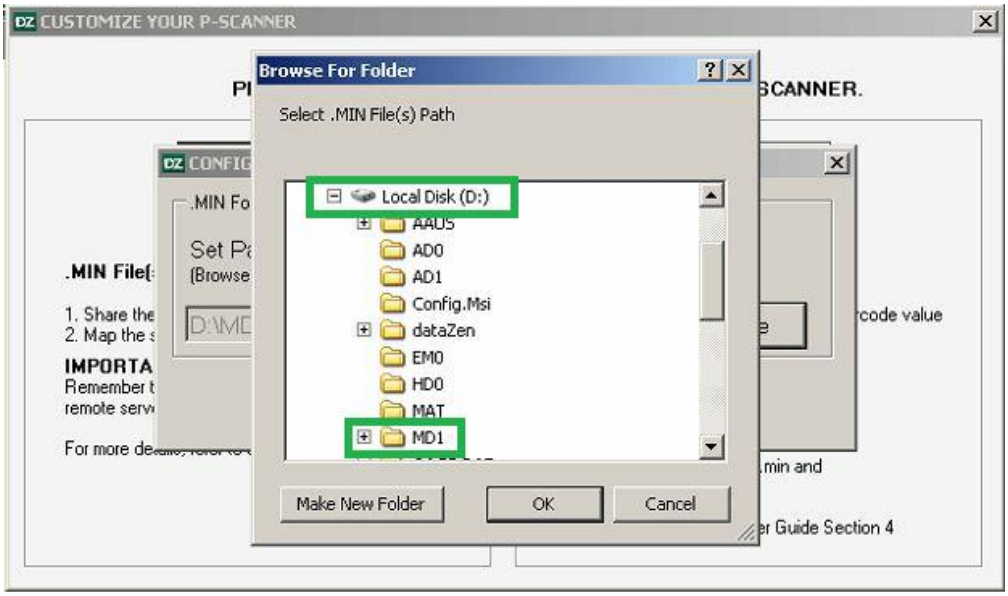

Figure 46: Save the .MIN File(s) path

For example:

1. Select the .MIN File(s) path (Directory Path) where the program files are to be saved .Here, in this example, the .MIN File(s) path is:“D:\AAUS\01.MACHINES\NC-MASTER”folder.

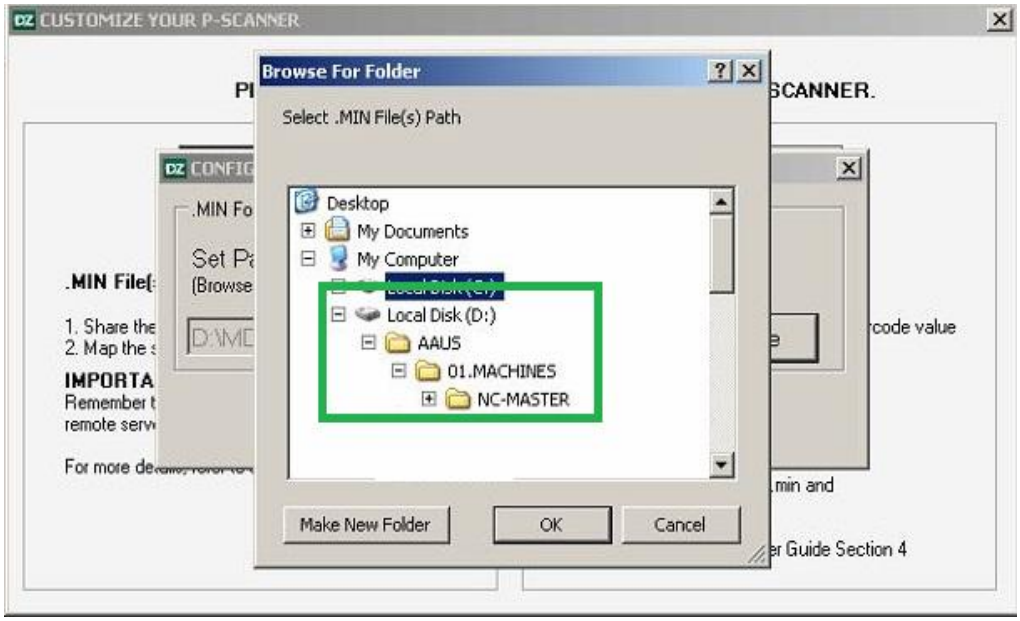

Figure 47: Select .MIN File(s) Path

2. Once the Directory path is selected click on ‘Save’ button.

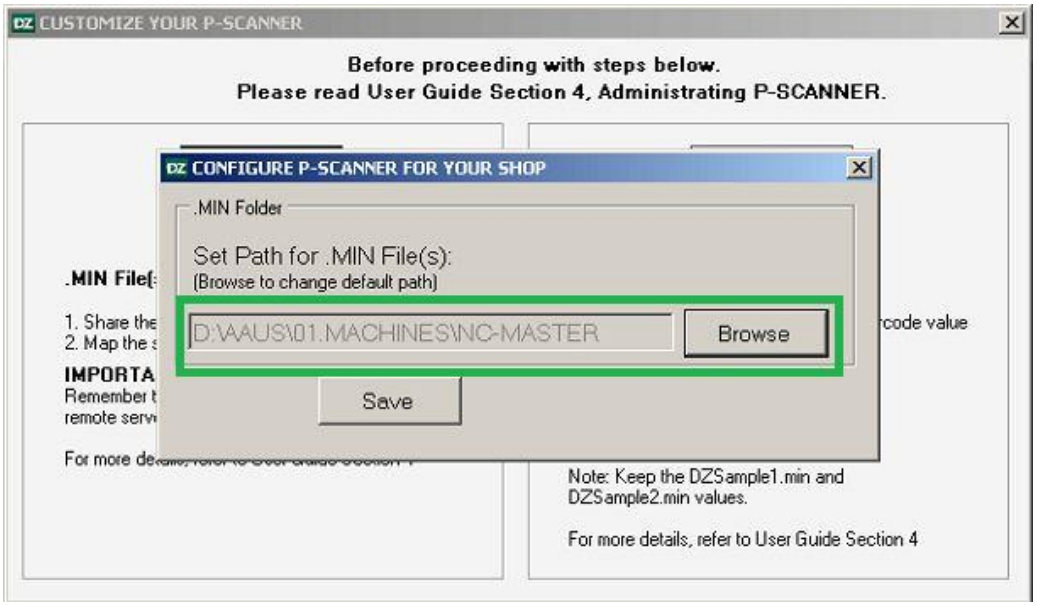

Figure 48: Save Selected .MIN File(s) path

4.2 Setting up the Configuration File

The config.ini file is where the user defines the Barcode Value, Part Program Path, Part Program Name, Setup File Path and Setup File Name.

1. Go to "File→Customize" on home window of P-SCANNER and click on **'Configure .ini file'**.

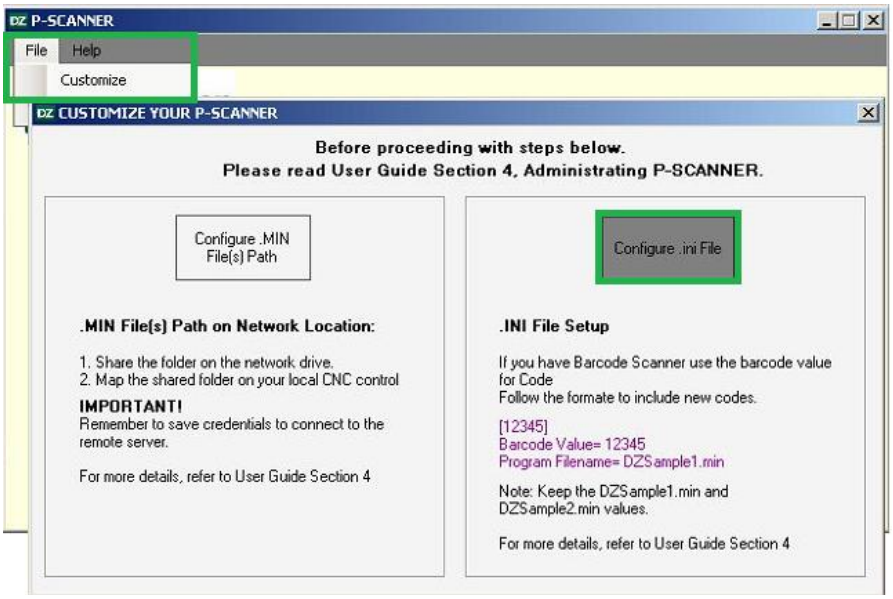

Figure 49: Setting Up Config.ini File

2. Open the config.ini in WordPad or Notepad and modify the values as per the instruction given below.

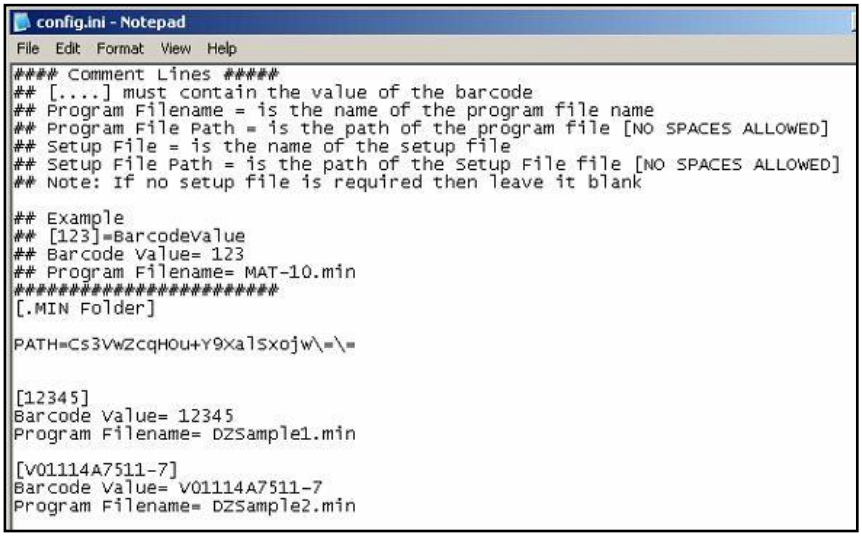

Figure 50: Setting up Config.ini File-1

a. **[ ]:** Enter the Barcode value/number in the box [ ]

b. **Barcode Value:** Enter the value for entered barcode number

Program Filename: Enter the Part Program file name for the selected barcode value. E.g. mat-10.min

3. Save the file and close it.

Note: *User can configure multiple part program using above format.*

Two sample program files ***(DZSample1.min and DZSample2.min)*** *are added to the config.ini file to test the P-SCANNER application.*

5 License

5.1 Check validity

To check the license validity click on “Check Validity”.

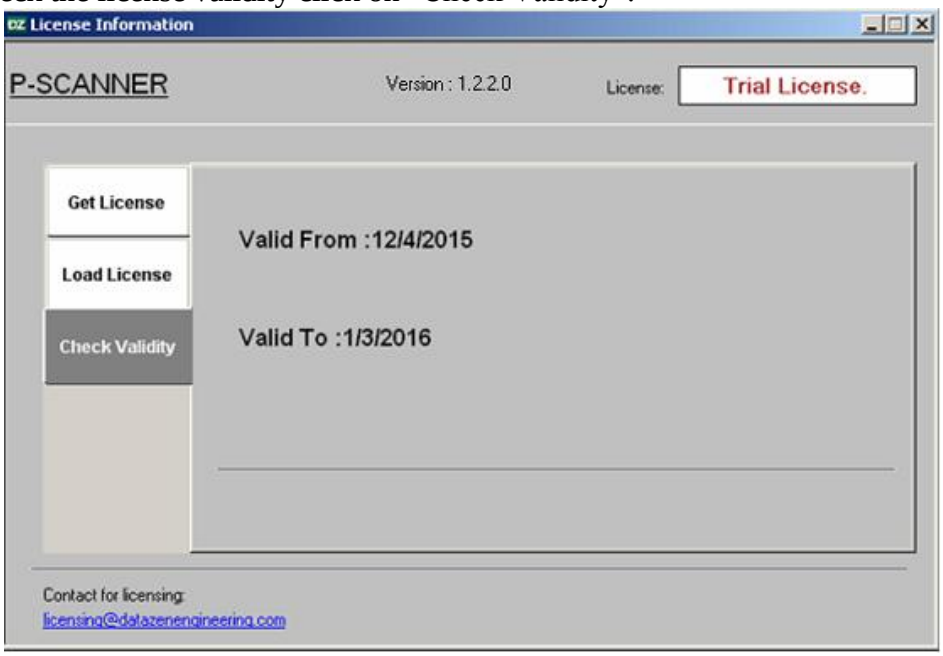

Figure 51: Check Validity

5.2 Get License

1. Click on “Help” and select “LicenseInfo”.

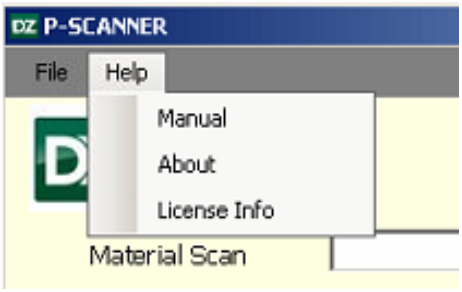

Figure 52: License Info

2. Click on “Get License” and email the “Hardware Id” displayed in the box to licensing@dataZenEngineering.com.

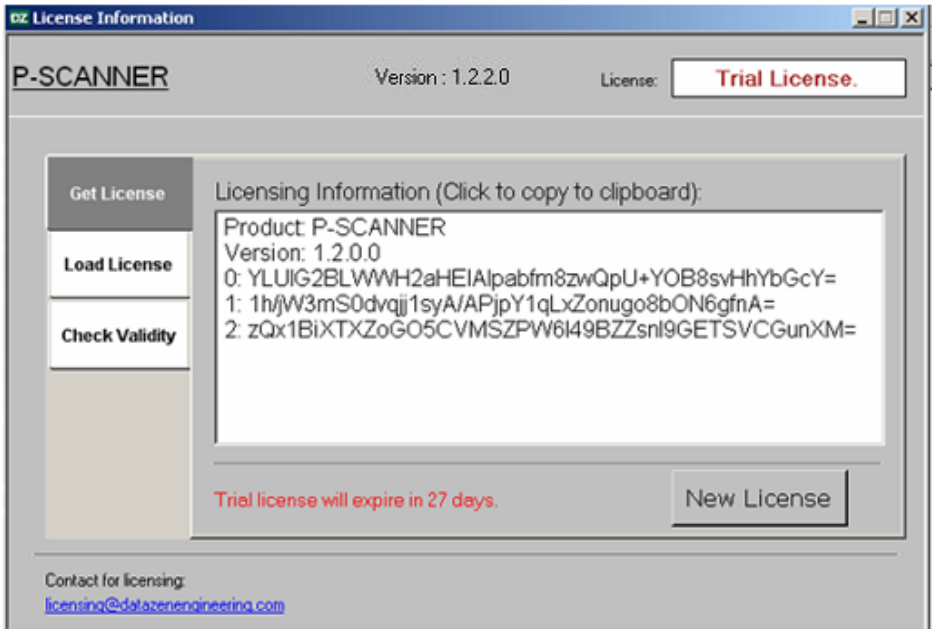

Figure 53: Get License

5.3 Load License

1. To load the license open “License Information” window from “Help” menu and click on “Load License”.
2. To browse the license file click on “Load License” button, select the file and click on “Open”.

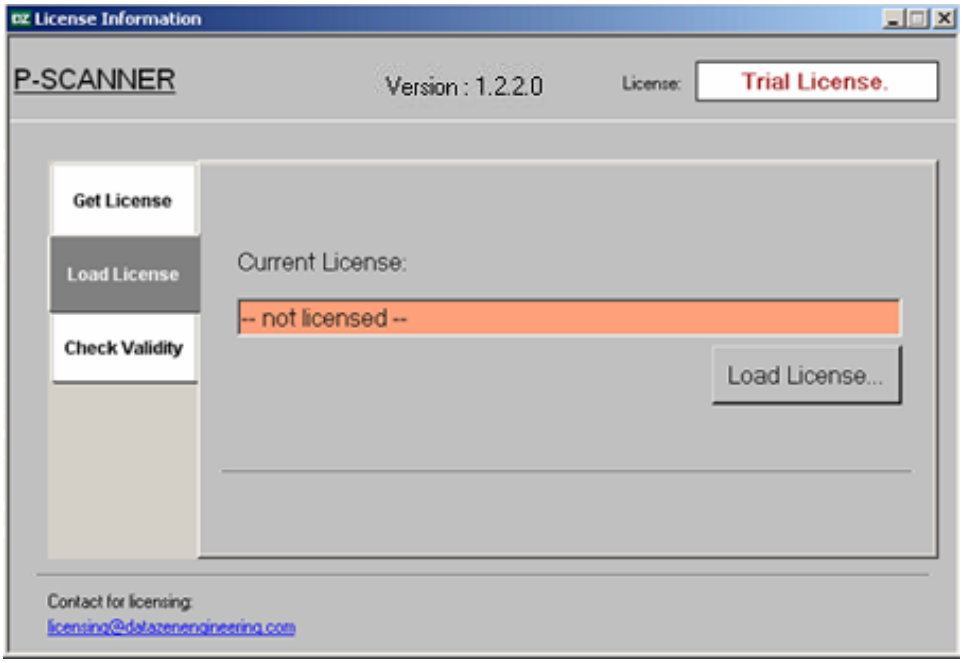

Figure 54: Load License

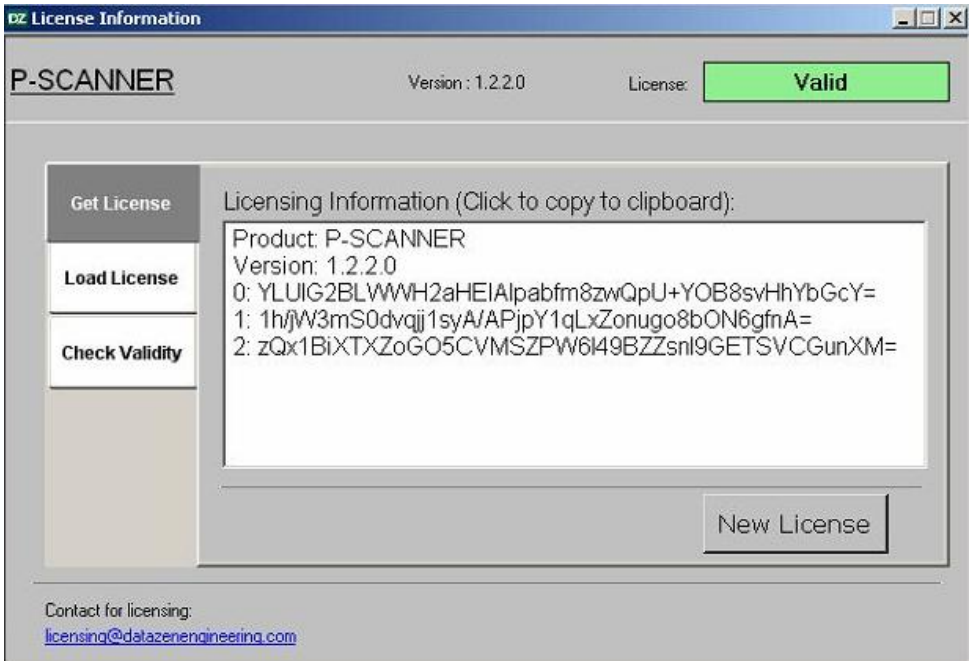

Figure 55: License Valid

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