

IQAN SCRIPT

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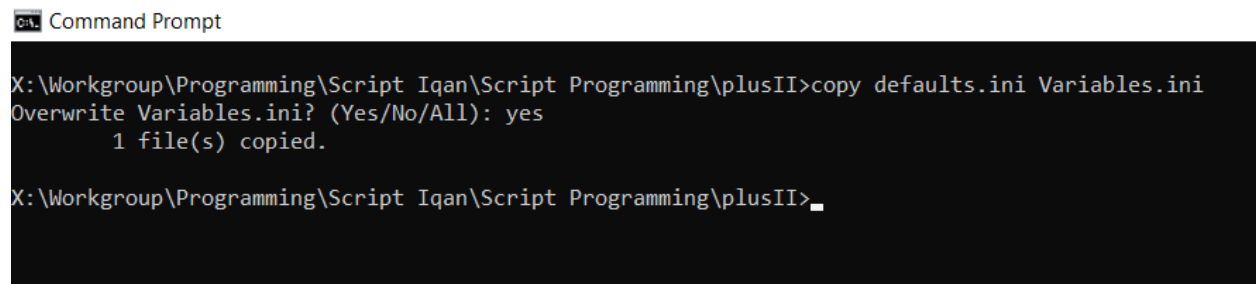
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1. Introduction

Below is the set up and execution information for Running IQAN Script on various trucks. Which allows for an HTM file to be created for the settings programmed and all the pin codes. The following HTM file is named as *Output.htm* in the Output folder.

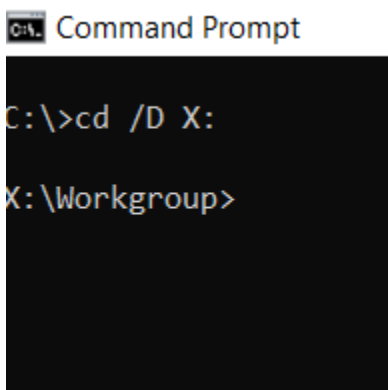
2. Setup

The IQAN Script files are in the Programming folder under Script IQAN in a Script Programming folder which is *X:\Workgroup\Programming\Script Iqan\Script Programming*. The IQAN Script files take in a Configuration file named *Variables.ini* which will need to be set according to the work order. Additionally, there is a *Default.ini* that can be used to base what needs to be changed. Furthermore, a simple command line argument to quickly copy *Variables.ini* to be *default.ini*. which is, *Copy <source> <destination>*. so *Default.ini* would be the Source and *Variables.ini* will be the destination which is shown in figure 1. Then the Command Prompt will ask to overwrite the destination file before copying the file. Additionally, a useful hint is to use Tab to autofill the file names. Additionally, if the drive location is needing to change from the C drive to the X drive; use *cd /D X:* which is shown in Figure 2.



```
C:\> Command Prompt
X:\Workgroup\Programming\Script Iqan\Script Programming\plusII>copy defaults.ini Variables.ini
Overwrite Variables.ini? (Yes/No/All): yes
1 file(s) copied.
X:\Workgroup\Programming\Script Iqan\Script Programming\plusII>
```

Figure 1: CMD copying files

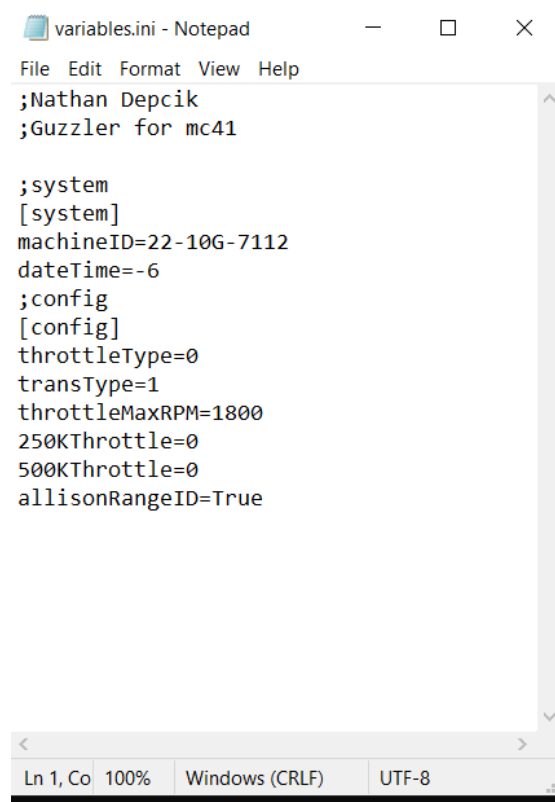


```
C:\> Command Prompt
C:\>cd /D X:
X:\Workgroup>
```

Figure 2: CMD switching Drives

Once the *Variables.ini* file updated to the default values the file can be updated to reflect the work order. The Script has parameters of what is usually changed for each truck such as the type of throttle for a certain truck. there are a few ways to Edit the *Variables.ini* file one way would be to open the file with notepad and edit it there. Another way is to get Visual

Studio code which is a text base editor. With visual studio code there is an option to add a command prompt “Code”, which makes it easier to edit Variables.ini. an example in notepad is shown below in Figure 3.

A screenshot of a Notepad window titled 'variables.ini - Notepad'. The window has a menu bar with 'File', 'Edit', 'Format', 'View', and 'Help'. The text inside the window is as follows:

```
;Nathan Depcik  
;Guzzler for mc41  
  
;system  
[system]  
machineID=22-10G-7112  
dateTime=-6  
;config  
[config]  
throttleType=0  
transType=1  
throttleMaxRPM=1800  
250KThrottle=0  
500KThrottle=0  
allisonRangeID=True
```

The status bar at the bottom shows 'Ln 1, Co 100%', 'Windows (CRLF)', and 'UTF-8'.

Figure 3: Variables.ini opened with notepad

The next thing to do is change the parameters for the truck needing programming, which can ideally be done beforehand or while the IQAN project file is being sent to the unit. To update the file; *IQAN Parameters.docx* will be needed to know what parameters values to set from the work order. This word doc will help determine if a value is only a digital/Boolean or an integer which has multiple options available for a single parameter. Such as for a guzzler transType which is shown below in figure 4 as an example. Once the *variables.ini* file has been updated the IQAN Script can be executed.

Trans Type

- 0. None
- 1. Manual Trans
- 2. Auto Trans

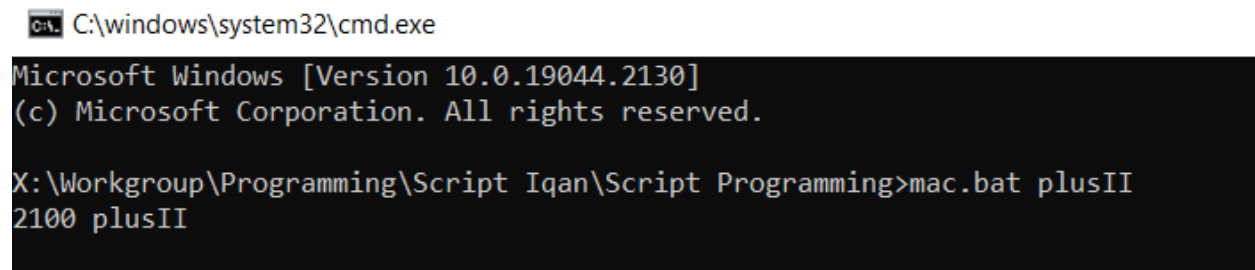
Figure 4: transType Example

3. Running script

The IQAN Script file can be run in two ways either through a batch file which can send the IQAN project and script automatically or with IQAN Run.

3.1. Batch file

With running the batch file, the project file and Script is autonomously. The batch file is in is *X:\Workgroup\Programming\Script Iqan\Script Programming* and named as *mac.bat*. Now the batch file needs to be ran from the command prompt since it requires an argument for the type of truck. to open a command prompt to the location needed a simple batch file named *command.bat* will open a command prompt to the file location listed above. Once the command prompt is opened the batch file can be called with this command *mac.bat <truck>*. which is shown in figure 5, which in this case is a 2100I plusII. Additionally, table 1 shows the type of trucks for the arguments. An Additional note is that the Arguments for the batch file are not case sensitive. For any bugs see the section 5 below.



```
C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

X:\Workgroup\Programming\Script Iqan\Script Programming>mac.bat plusII
2100 plusII
```

Figure 5:calling batch file

Truck type	Argument
2100 Plus II	plusII
2100 Plus III	plusIII
Ramjet	ramjetII
Impact	impact
Hydro	Hxx
QX	QX
APXX	APXX
FLXX	FLXX
TRXX	TRXX
Paradigm	paradigm
Guzzler	Guzzler

Table 1:batch file arguments

3.2. IQAN Run

To run the Script with IQAN run the project and script will need to be ran separately. First the project file will need to be ran to set up the unit or Truck. Once the project has been sent the script can be sent. To send the script go to the scrip section which is a toolbox icon on the left. Then the script needed can be chosen from the programming folder. Even though the Scripts are meant to

have no user input, IQAN Run may have a few user inputs needed. Such as if the communication is not connected or if a parameter is adjustable. If running into an adjustable item IQAN Run gives the option to ignore and it will continue the script. Once completed, IQAN will show the Script Report which will just need to be clicked continue and the report will be saved.

4. Bugs

4.1. Resolved

If batch file is unable to open IQAN run, check that IQAN run is a path Environmental variable in System Variables. The Batch File requires this. One way to check if this is the case is to open a command prompt and enter "IQANrun" and IQANrun should open.

If batch file or IQAN run is not able to see the ethernet module restarting the laptop most likely will fix issue.

4.2. Unresolved

One current bug is on IQAN side communication types do not change when requested on command line side such as Ethernet to CAN and vice versa. Cause of this Guzzler and TRXX will not work properly on Batch file until this is fixed