

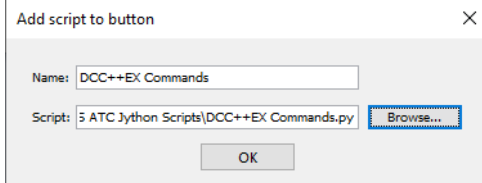
Advanced Features of DecoderPro Roster and Preferences > Start Up

Take a break and grab some Java, Some Tips and Tricks for Tinkerer Level users.

Customize DecoderPro - User Defined Buttons and Scripts

You can add additional custom DecoderPro GUI buttons as seen above that point to and run predefined jyton.py scripts that you have built or previously downloaded from the website. You place them in your C:/User/JMRI/My_JMRI-Railroad.jmri/subfolder/ This example uses DecoderPro 'Add script to button' feature to create a button and display text in the 'Script Output' panel when the button is pressed a jython script creates a print summary of DCC++EX commands. *Jython* is simply the combined names of *Java* & *Python*.

DecoderPro main menu Edit> Preferences > Start Up > Add > 'Add script to button'



Enter a button Name: 'DCC++EX Commands'

Download the free DCC++EX_Commands_3.1.zip file below, unzip it and place it in your C:/Users/name/My_JMRI_Railroad folder

Browse your PC and point to the folder with the Script in it: C:\Users\Kevin\JMRI\KCS_JMRI_Railroad.jmri\KCS ATC Jython Scripts\DCC++EX Commands3.1.py And press OK.

```
DCC++EX Commands.py - C:\Users\Kevin\JMRI\KCS_JMRI_Railroad.jmri\KCS ATC Jython Scripts\DCC++EX Commands.py (3.8.3rc1)
File Edit Format Run Options Window Help
Jython script which prints 'DCC++EX 3.1 Commands by List & Group' #
# a derivative of DCC++ author Gregg Berman 2015 #
# & of DCC++EX Extended author Chris Harlow 2021 #
# Recreated and customized by KCSmith 6-30-2021 #
# JMRI .AbstractAutomaton author Bob Jacobsen 2006 #
#####
import jmri
import jarray

class Commands(jmri.JmriAutomat.AbstractAutomaton):

def init(self):
print "***** DCC++EX 3.1 Commands List Summary ***** 6-30-2021"
print "*****"
print " 'Single Commands'"
print " <1> Number One: Turn Power ON to (Both Main & Programming tracks)."
print " <0> Number Zero: Turn Power OFF to (Both Main & Programming tracks)."
print " <C> Lower case c: Displays the instantaneous current on the MAIN Track."
print " <E> Upper case E : Command to Store definitions to EEPROM."
print " <e> Lower Case e: Command to Erase ALL (turnouts, sensors, outputs) definitions from EEPROM."
print " *** (NOTE: There is NO Un-Delete) ***"
print " <Q> Upper Case Q : Lists Status of all sensors."
print " <R> Upper Case R : Read Loco address (programming track only)"
print " <S> Upper Case S : Lists all defined sensors."
print " <s> Lower case s : DCC++EX Command Station Status & Build Version."
print " <T> Upper Case T : Lists all defined turnouts."
print " <X> Plus sign Upper case X: Special case to force CS into 'WiFi Connected' mode."
print " <Z> Upper Case Z : Lists all defined output pins."
print " <#> Show number of supported cabs on the Command Station"
print " <!> Exclamation Point ! EMERGENCY STOP - Stops all locos on the track, leaves power on."

'Track Power Commands'
<1 MAIN> Power On just to the MAIN track.
<0 MAIN> Power Off just to the MAIN track.
<1 PROG> Power ON just to the PROG track.
<0 PROG> Power OFF just to the PROG track.
<1 JOIN> Joins Programmng track together with MAIN (ops) track. 1 PROG resets it to Normal

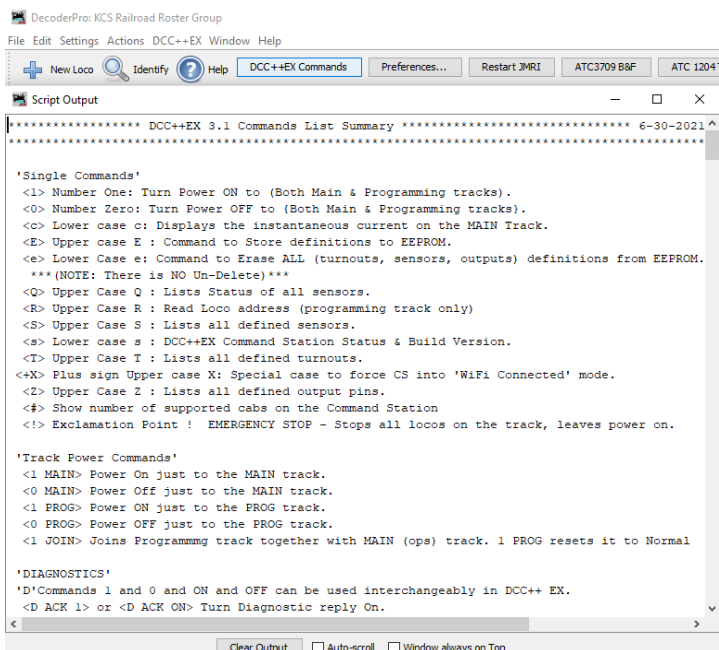
'DIAGNOSTICS'
'D Commands 1 and 0 and ON and OFF can be used interchangeably in DCC++ EX.
<D ACK 1> or <D ACK 0> Turn Diagnostic reply On.
```

[DCC++EX Commands3.1](#) download this Command script

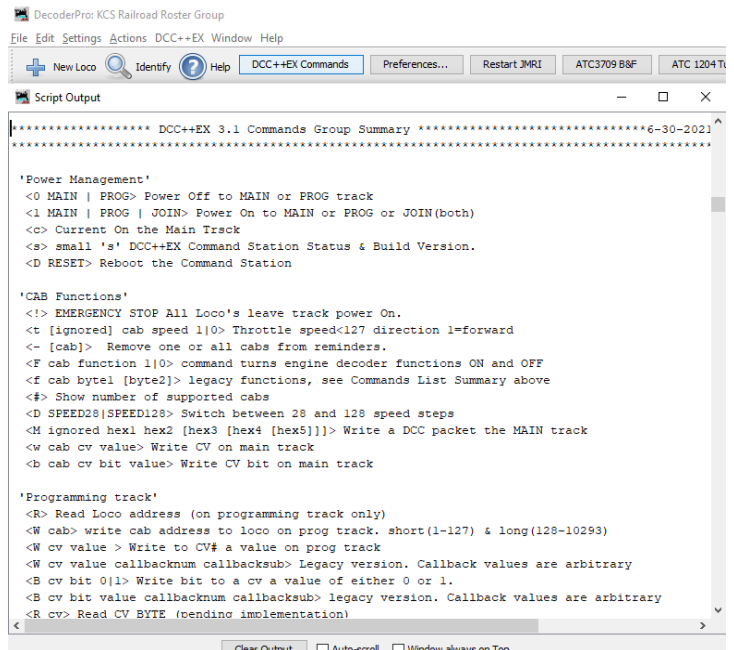
Then at startup we'll open the 'Script Output' pane first and then print the new DCC++EX Commands.py file by setting:
Edit> Preferences > Start Up> Add> Perform action> 'Open Script Output Window',
Edit> Preferences > Start Up> Add> Run Script> C:\User folder\ DCC++EX Commands3.1.py

When JMRI starts it will automatically Open the Script Output Window and Start DCC++EX Commands3.1.py script.
You can also press the [DCC++EX Commands] button & produce the scrollable DCC++EX commands in the Script Output window.

Example DCC++EX Commands by List



Scroll down for DCC++EX Commands by Group



All other predefined User built and Automated Throttle Control scripts are added to the DecoderPro panel the same way.