How to use these scripts

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Install these scripts

Unzip these file to local disk, like D:\EETB\_2412\

Add EETB file path to WDIR environment variable, so Xpedition can find the scripts.ini file and execute it when started. Make sure the AATK folder is not the first path in the WDIR definition as the first path is also used for temporary space by various Xpedition tools and is stores the users default Xpedition environment.

For VX you have to add the EETB path to the release specific WDIR variables as below.

For VX.2.10 it would be:

WDIR\_EEVX\_2\_10=C:\WDIR\EEVX.2.10;D:\EETB\_2412

For XPENTP2409 it would be:

WDIR\_XPENTP2409=C:\WDIR\XPENTP2409;D:\EETB\_2412

Define a EETB environment variable, the value is the pathname of EETB directory you just unzipped. So we can run these scripts correctly.

EETB\_2412=D:\EETB\_2412

Using scripts in Mentor Xpedition Layout through menu bar

A EETB menu will appear in the last position of menu bar when you open a project. You can run scripts through clicking menu button under EETB menu.

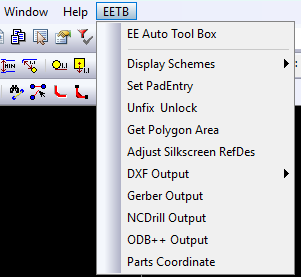
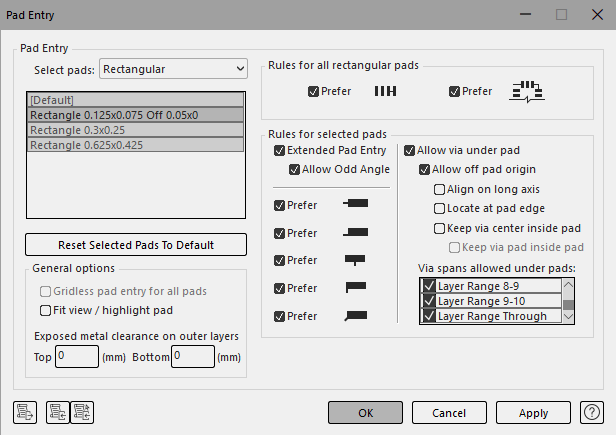


Illustration of scripts

Constraint:

SetPadEntry.vbs : this script will set rules of pad entry. It’s the same to behaviors we do in “Pad Entry” Dialog in Editor Control. Rules will be check as below.



Display:

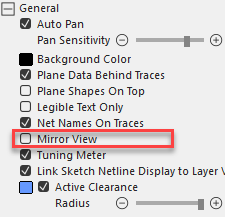
ColorGndPwrNets.vbs : this script will color GND/PWR nets. All nets that match the reg expression as below will be colored.

GND = "\*GND\*"

PWR = "\*VREG\*", "\*VDD\*", "\*VCC\*", "\*VBUS\*", "\*VSIM\*", "\*VPH\*", "\*PWR\*", "\*VBAT\*"

ColorNetClasses.vbs : this script will color nets class which named like Z\*[0-9\*]\* and so on.

DisplayNormalView.vbs : this script will uncheck the "Mirror View" option in display control window.



DisplaySchemeAssemblyTop.vbs & DisplaySchemeAssemblyBottom.vbs : this scripts will show a assembly view, which contains board outlines, cutout and components information which contain silkscreen, RefDes, soldermask pad, solderpaste pad and so on. Of course it will hide any other layers, trace, via ,plane .

DisplaySchemeRoute.vbs : this script will show a route view, means that it will check the trace, via, plane … options and color them properly in the display control window, give us a clear view when we are routing.

ToggleDisplayPatterns.vbs : this script will uncheck “Display Patterns” option in display control window.



ToggleDisplayPlanes.vbs : this script will toggle the plane display options between enable and disable of Fill/Hatch, and display of planes.



ToggleMirrorView.vbs : this script will toggle the “Mirror View” option.

Manufacturing

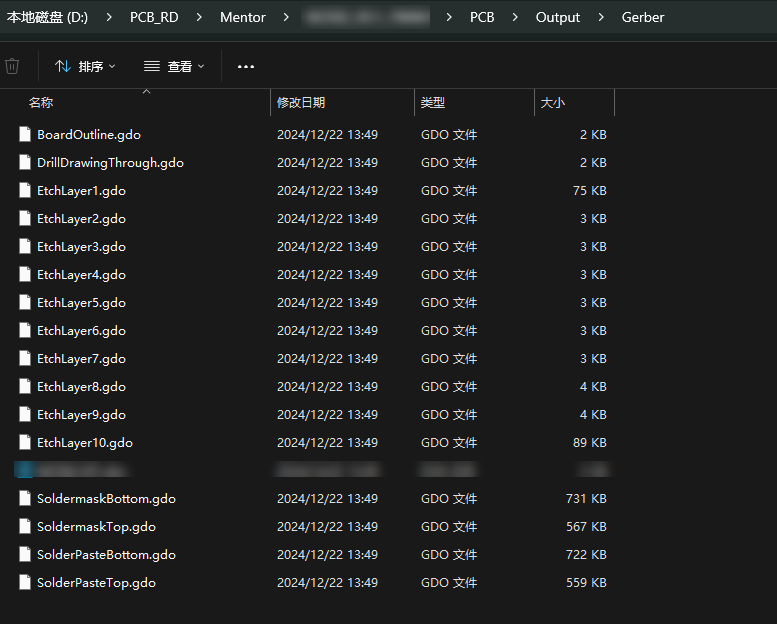
AdjustRefDes.vbs : this script will move [Silkscreen Items| RefDes] to cell center, resize them and rotate them to a orientation consistent with [Place| Part Ref Des].

ExcelCompList.vbs : this script creates excel and loads it with component information, such as RefDes, PartName, Location and so on.

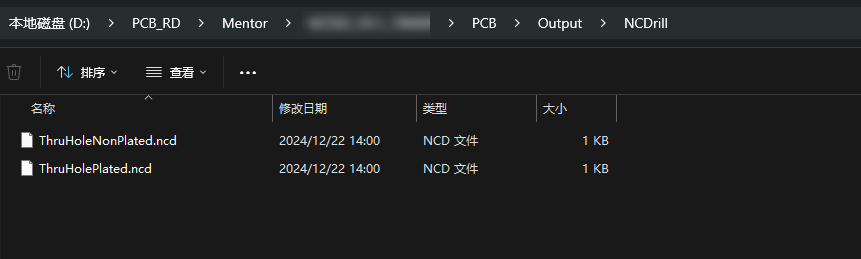
ExcelCompListSeperate.vbs : this script creates excel and loads it with component information into different sheet according to their placed layer.

RunDXFExportTop.vbs & RunDXFExportBottom.vbs : these two script will create .dxf file that contains top or bottom components assembly view. And save them to .\PCB\Output\DXFExport directory.

RunGerber.vbs : this script generates gerber file to .\PCB\Output\Gerber\ directory. And also write a configuration file named UserGerberPlotSetup.gpf into .\PCB\Config\ directory so we can reuse this config file through “Gerber Output” dialog directory to generate gerber file.



RunNCDrill.vbs : this script generates nc drill file to .\PCB\Output\NCDrill directory. And also overwrite the .\Config\DrillPreferences.hkp file and write a UserDrill.dsf configuration file so we can reuse this scheme through “NCDrill Output” dialog.



RunODBpp.vbs : this script creates a ODB++ file into .\PCB\Output\ODBpp directory. It’s the same to generate ODB++ file through “ODB++ Design Output” dialog. Options are checked as below.

