# GDS Import Wizard V4.0 Manual

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2021-06-03

You are welcome to contact ANSYS local technical support if you have any problems.



# Content

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- Get the latest GDSImportWizard Tool
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# About GDS Import Wizard

### A smart tool to translate GDSII to 3DLayout EDB quickly:

- Extract nets from GDS and import to EDB
- Extract accurate material property from IRCX
- Extract accurate layer thickness and stackup from IRCX
- Automatic generate control xml for AEDT GDSII Importing
- Support four type dielectric merge when importing (Update in V4.0)
- Support overlapping and laminated stackup
- Automatic create Via Group and SnapViaGroups
- Automatic generate components on top and bottom layer for easier port setup
- Automatic generate TSV Insulation coating
- Synchronous import to AEDT when EDB prepared
- Automatic detect and fix of small gaps between layers to avoid mesh Issue (New in V4.0)
- Support sheet layers to simplify thinner metal layer mesh e.g. 0.001um ( New in V4.0 )



### ANSYS workflow for 2.5D/3D SI Interpower Simulation

### **Integrated with ANSYS AEDT**

### Option1:

- ✓ TSMC IRCX
- ✓ GDS File

### Option2:

- ✓ Tech File
- ✓ Layer Map
- ✓ GDS File



### **GDSImportWizard**

- ✓ Net name extract
- ✓ Stackup
- ✓ Layer thickness
- ✓ Material properties
- ✓ Via Groups
- ✓ Snap Primitives
- ✓ More...





### **HFSS 3D Layout**

- ✓ S-parameter Extraction
- ✓ Crosstalk
- ✓ SSN
- ✓ Eye opening
- ✓ PDN
- ✓ Thermal-EM Co-simulation

Step 3

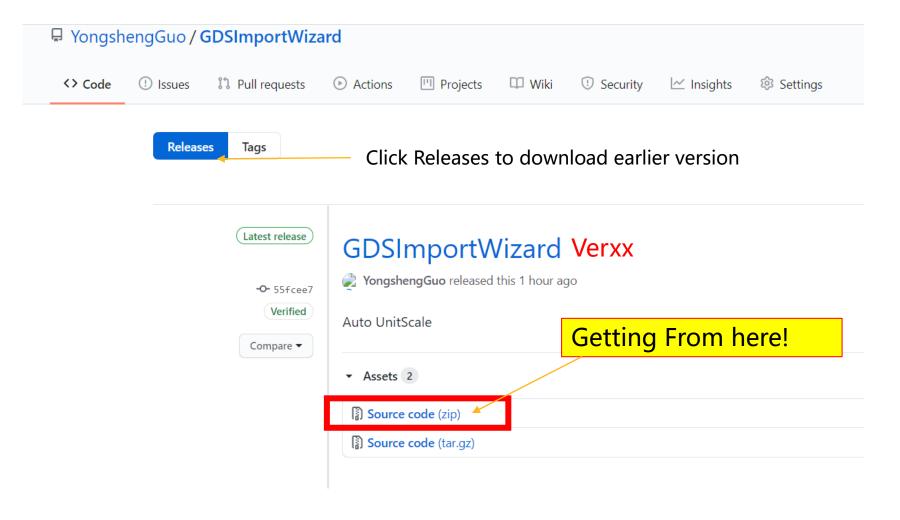




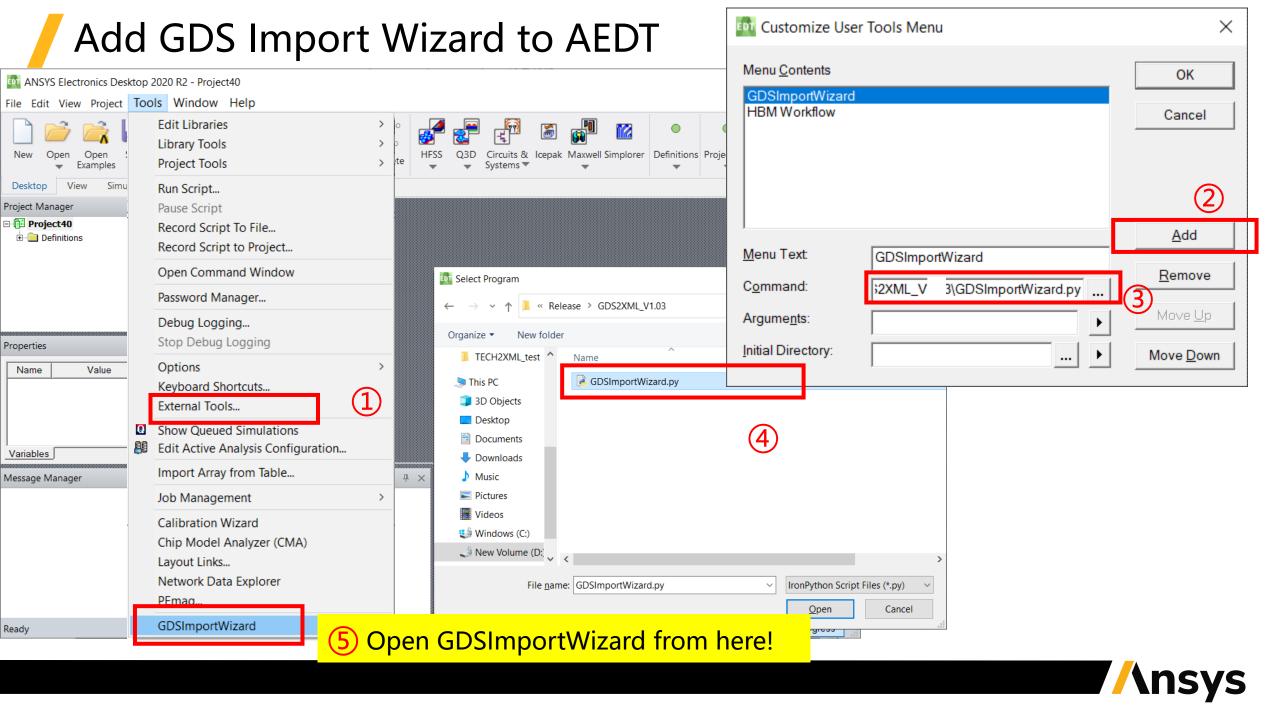
### Get the latest GDSImportWizard Tool



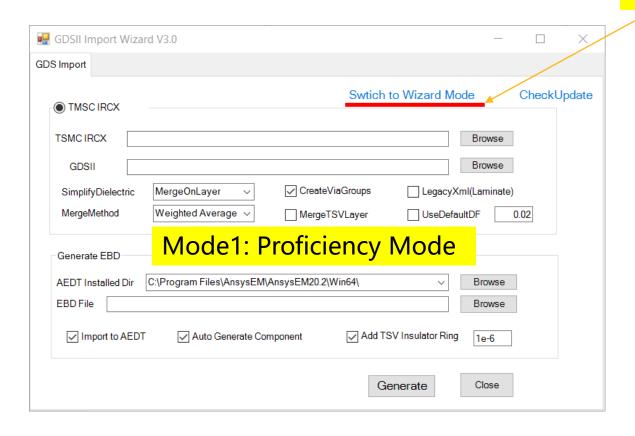
https://github.com/YongshengGuo/GDSImportWizard/releases/latest



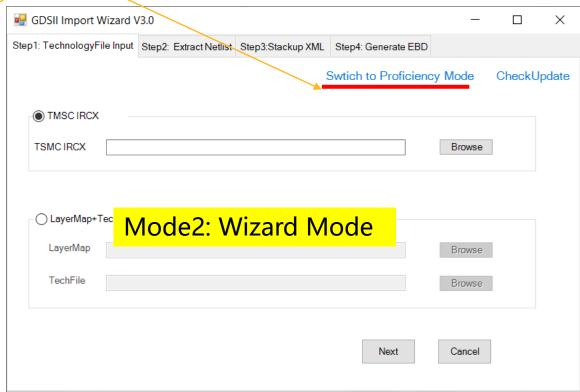




### Two modes for more flexible choice



### Switching two modes by click here







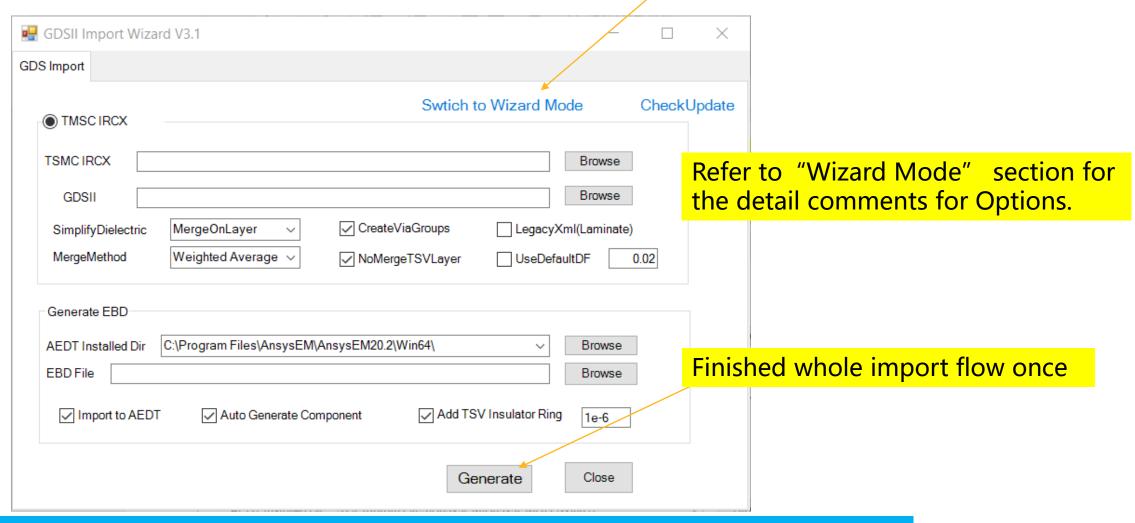
# Running in Proficiency Mode

Proficiency mode provides quickly import way for users who are familiar with the workflow.



### **Proficiency Mode**

### Switch to wizard mode from here



Note: Proficiency mode has the same options as Wizard mode. Please refer to "Wizard Mode " for the detail comments for all Options.



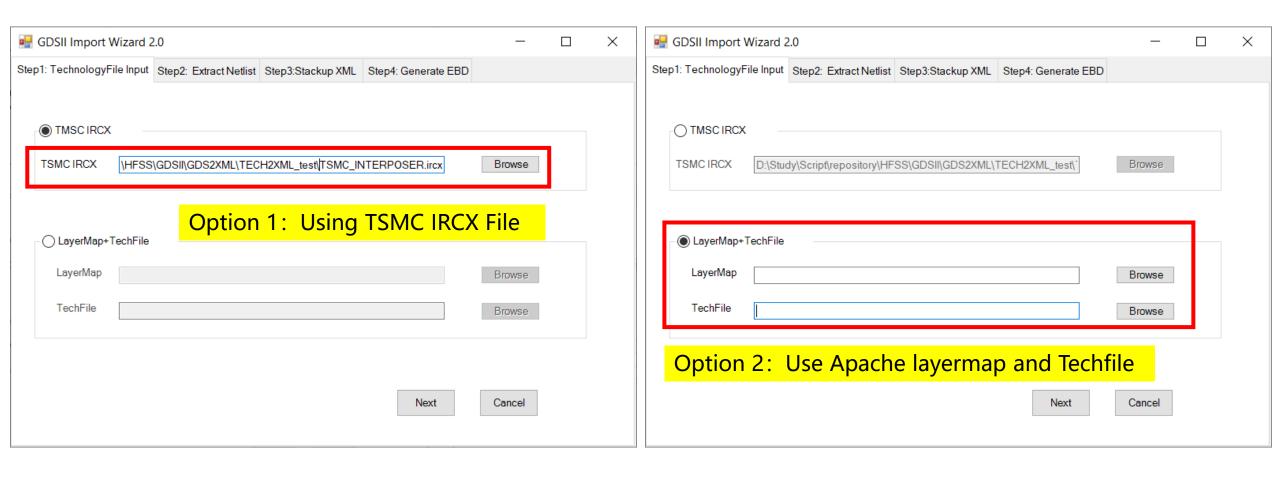


# Running in Wizard Mode

Wizard mode provides more options and flexibility to control the detail of GDSII importing.



# Step1: Define Technology File



Note: TMSC IRCX File is suggested workflow.



# / What about IRCX

IRCX is an EDA data format for interconnect modeling with TSMC's 65- and 40-nm process technologies.

### Include:

- ✓ Layer Mapping
- ✓ Layer Thickness
- ✓ Layer Material property

### Application:

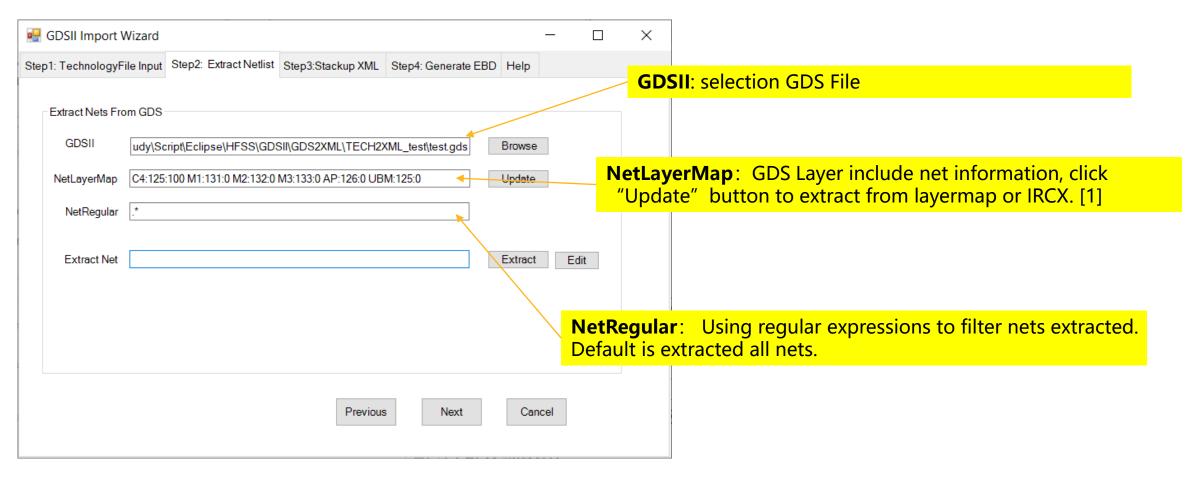
- ✓ RC parasitic extraction,
- ✓ electromigration analysis,
- √ power integrity analysis, and
- ✓ electromagnetic simulation

97	ESS:V)
99 FIELD	ESS:V)
99 FIELD	
101   ubump	
102         UF1         PASS4         107.640000         35.000000           103         PASS4         PASS3b         107.040000         0.600000           104         PASS3b         PASS3a         106.640000         0.400000           105         PASS3a         PASS2         105.190000         1.450000           106         metal4         PASS2         105.190000         1.450000           107         PASS2         PASS1         104.490000         0.70000           108         PASS1         IMD3c         104.415000         0.075000           109         IMD3c         IMD3b         103.690000         0.725000           110         IMD3b         IMD3a         103.690000         0.725000           111         metal3         IMD3a         103.640000         0.850000           112         IMD3a         IMD2g         103.020000         0.620000           112         IMD3a         IMD2g         103.020000         0.620000           113         IMD2g         IMD2g         102.970000         0.050000           114         IMD2f         IMD2e         102.245000         0.725000           115         IMD2e         IMD2d	
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125 IMD1a ILD 100.750000 0.050000	
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127 ILD substrate 100.000000 0.750000	
128 substrate PASSB1 0.000000 100.000000	
129 PASSB1 PASSB2b -0.800000 0.800000	
130 mb1 PASSB2b -0.801000 0.001000	
131 PASSB2b PASSB2a -2.800000 2.000000	
132 PASSB2a underFill_C -3.200000 0.400000	
133 underFill_C N/A -3.201000 0.001000	
134 ubmb N/A -3.201000 0.001000	
135	

[LAYER_MAPPING	•				
#substate is re					
#via4 is (ubump AND metal4)					
#ubump_top_pin is ubump_pin					
#ubmb_top_pin :		in			
#RC GDS LV	3 DFI	I			
		mp UBM	4;drawing		
metal4	74;0	metal4	AP;drawing		
DUM4	74;1		AP; dummy		
metal3	33;40	metal3	M3;drawing		
	33;41	DUM3	M3;dummy		
metal2	32;40	metal2	M2;drawing		
DUM2	32;41		M2;dummy		
	-	metal1	M1;drawing		
	31;41		M1;dummy		
mb1 31;100	MB1	M1;BSL			
	0;100 UBM		M;BSL		
		4 CB2			
	;0 via	-	RV;drawing		
via2	52;40		VIA2;drawing		
via1		via1	VIA1;drawing		
tsv 251;0	tsv	TSV;drawing	1		
ts <b>v_</b> 3t 25					
pmb 5;100	PMB	PM; dummy			
ubump_pin	125;0	ubm_top_pir	n UBM;pin		
metal4_pin	126;0	metal4_pin	AP;pin		
metal3_pin	133;0	metal3_pin	M3;pin		
pmb 5;100 ubump_pin metal4_pin metal3_pin metal2_pin metal1_pin mb1_pin ubmb_pin	132;0	metal2_pin	M2;pin		
metal1_pin	131;0	metal1_pin	M1;pin		
mb1_pin	131;100	MB1_pin	M1;BSP		
_p_111	,		0211, 00000		
		CTM; drawing			
cbm 88;0					
ctm_via 51					
cbm_via 51	;40 cbm	_via	VIA1;drawing		



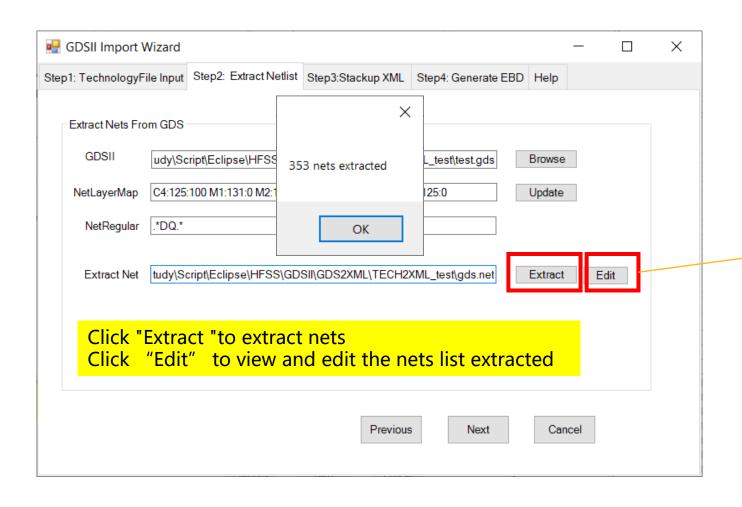
### Step2: Extract Nets information from GDSII

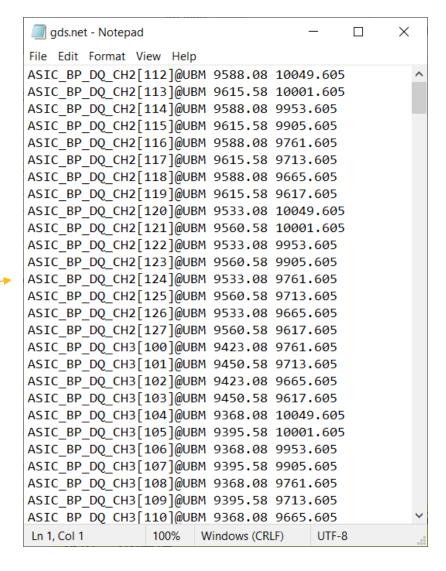


Note: 1. Net layermap options are separated by spaces and can be removed as needed.

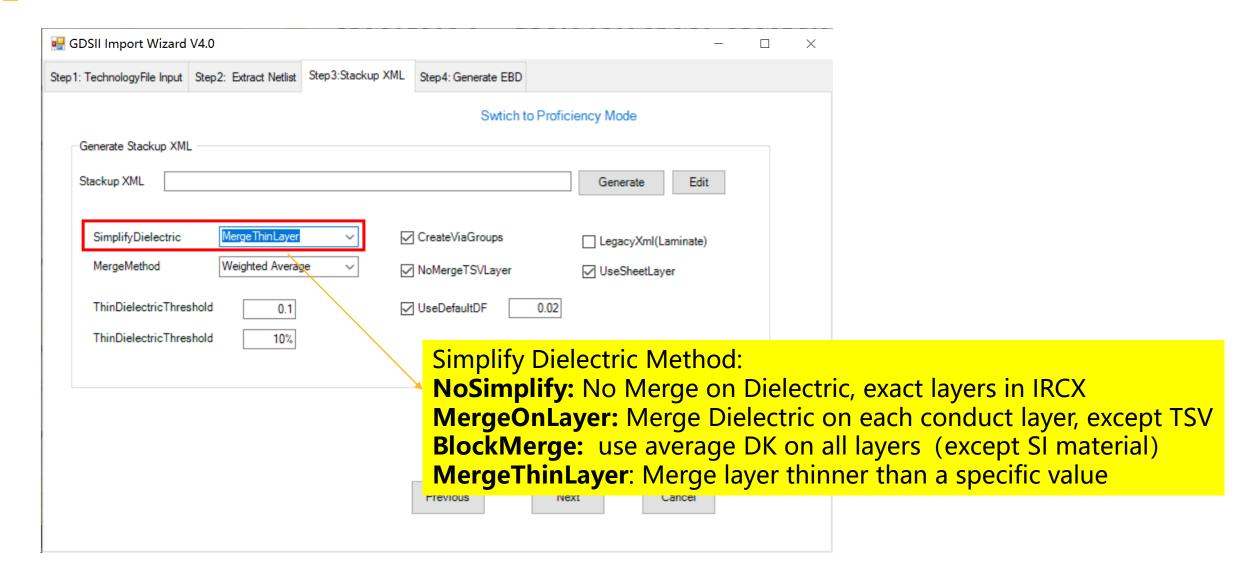


### Step2: Extract Nets information from GDSII

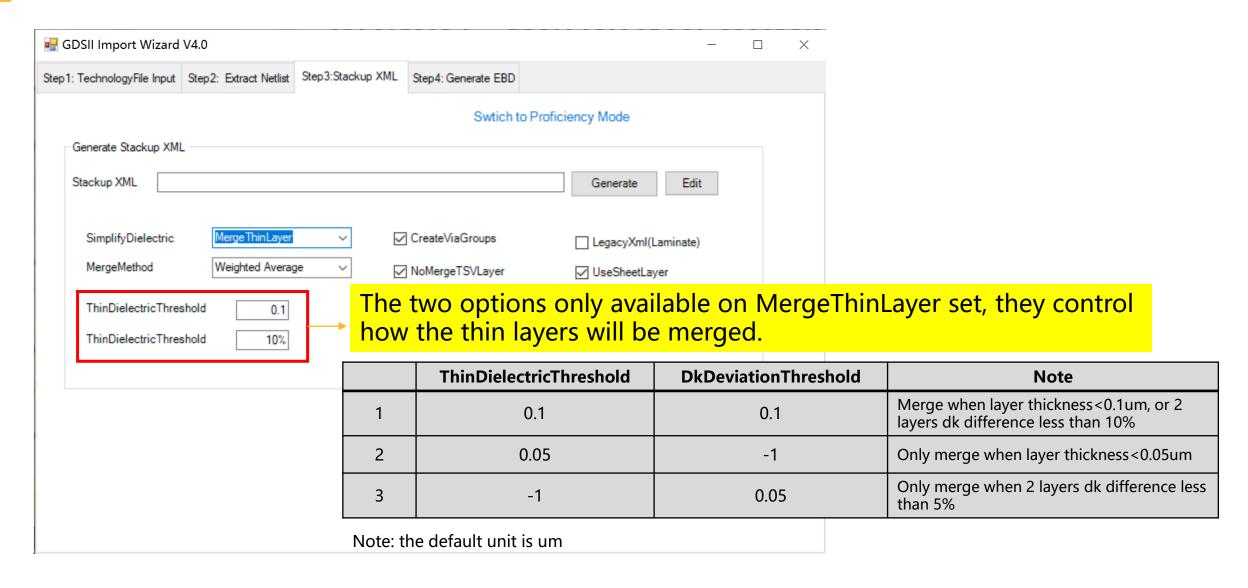






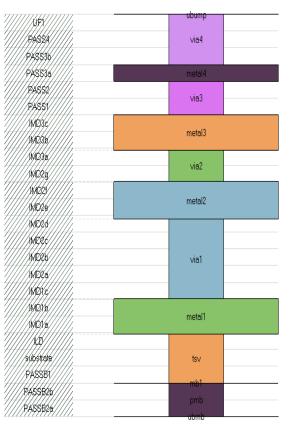


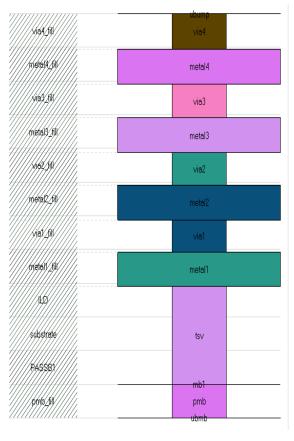


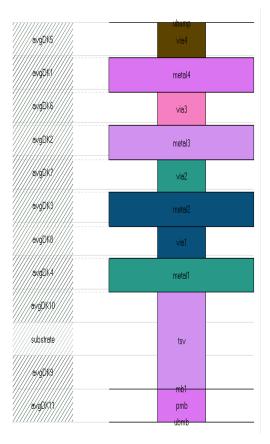


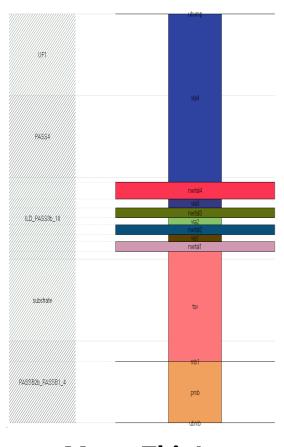


Simplify Dielectric Method compare









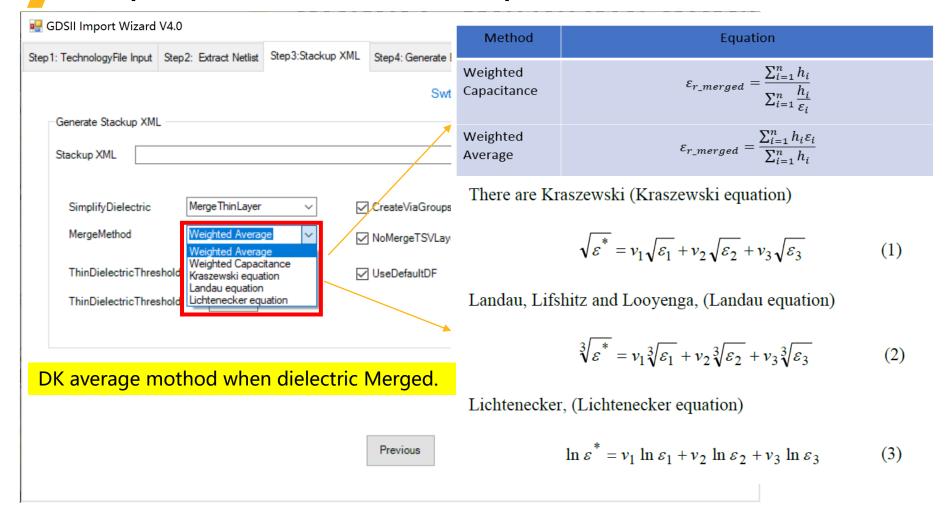
**NoSimplify** 

MergeOnLayer

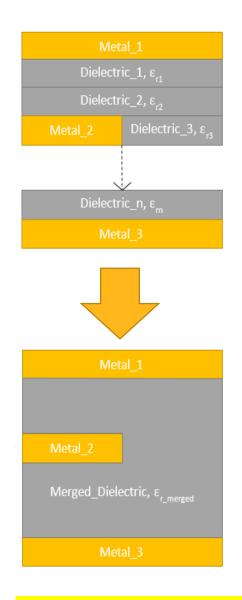
BlockMerge

MergeThinLayer



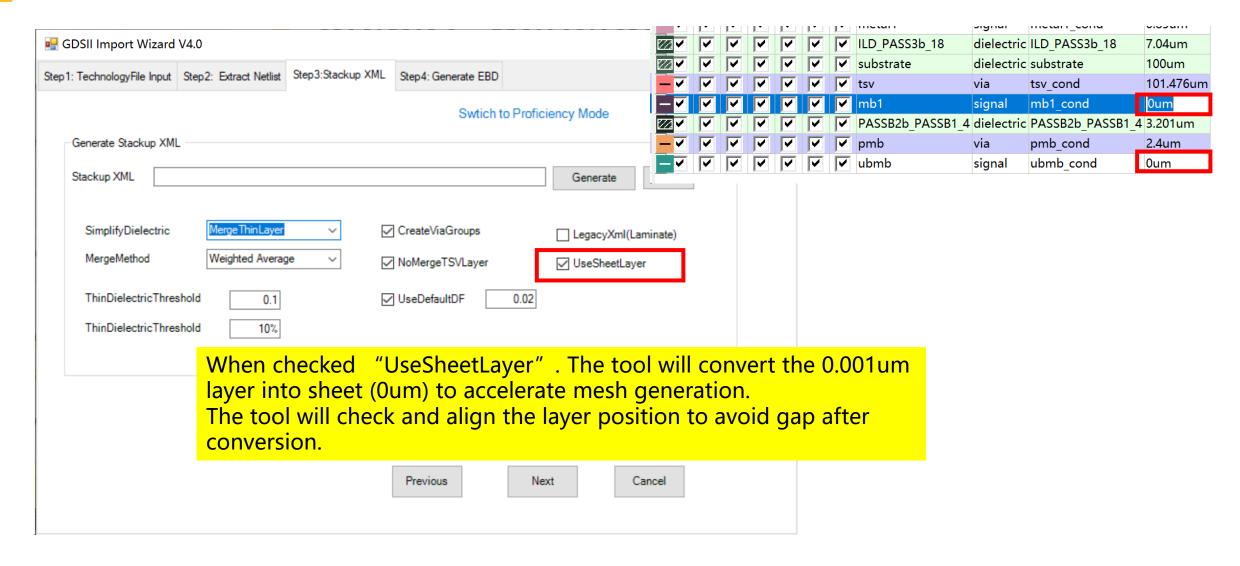


Note: Merge Dielectric also can be done in 3d Layout stackup editor.

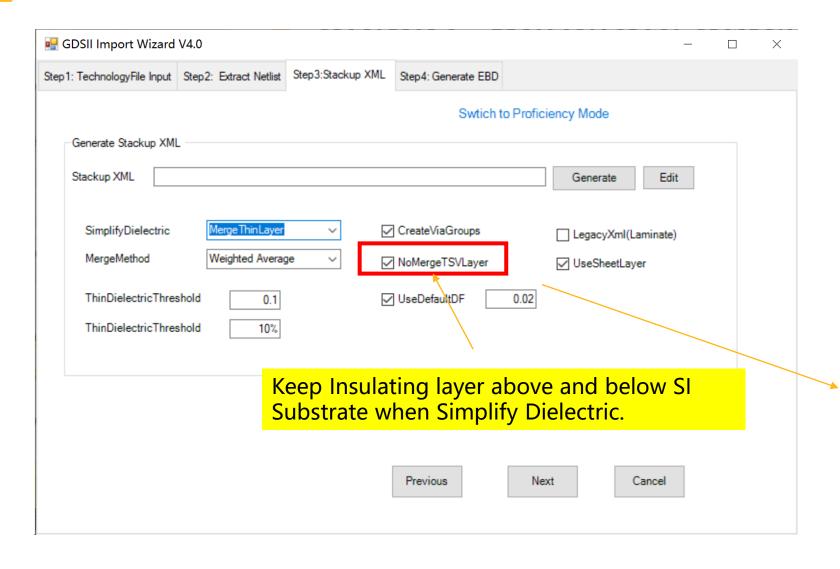


Merge Dielectric



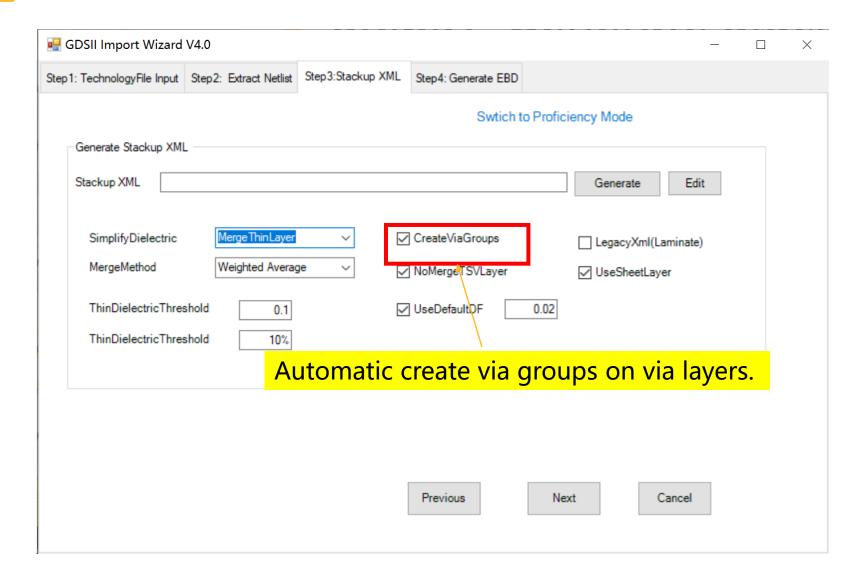


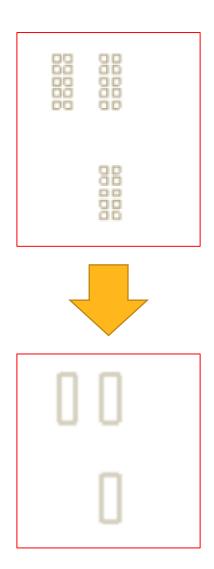




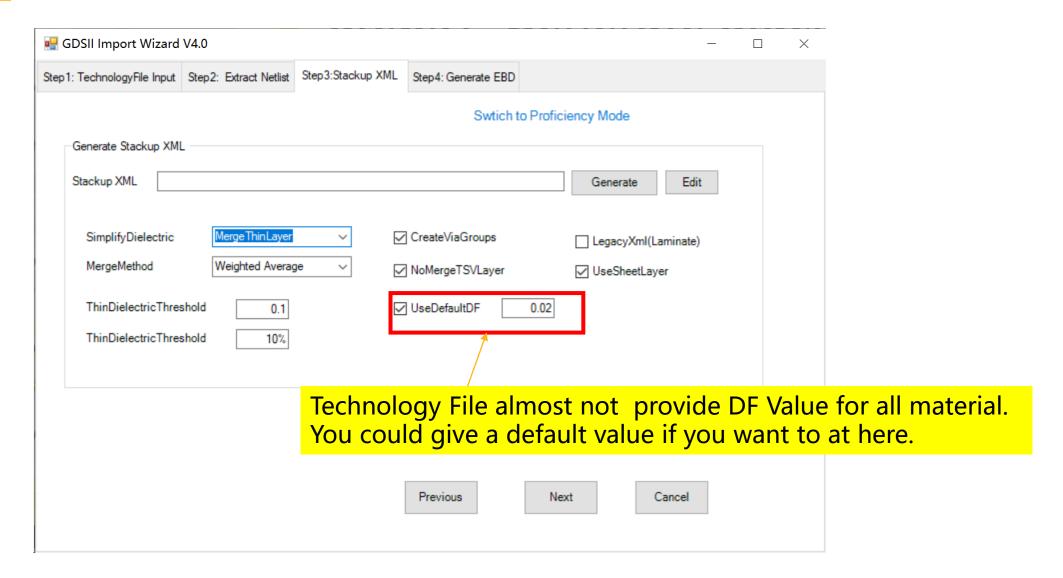




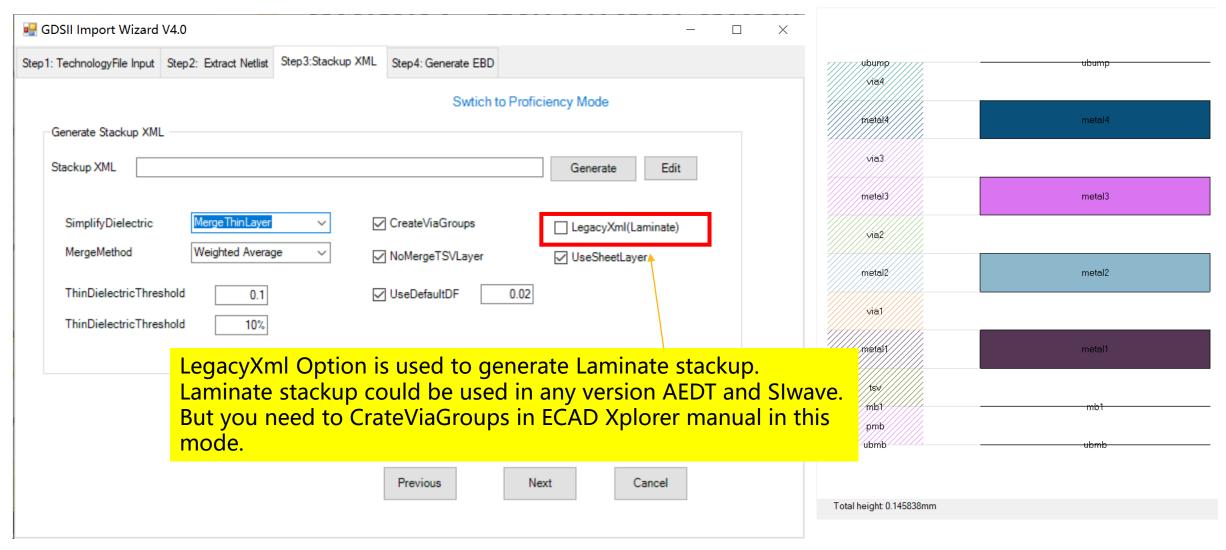






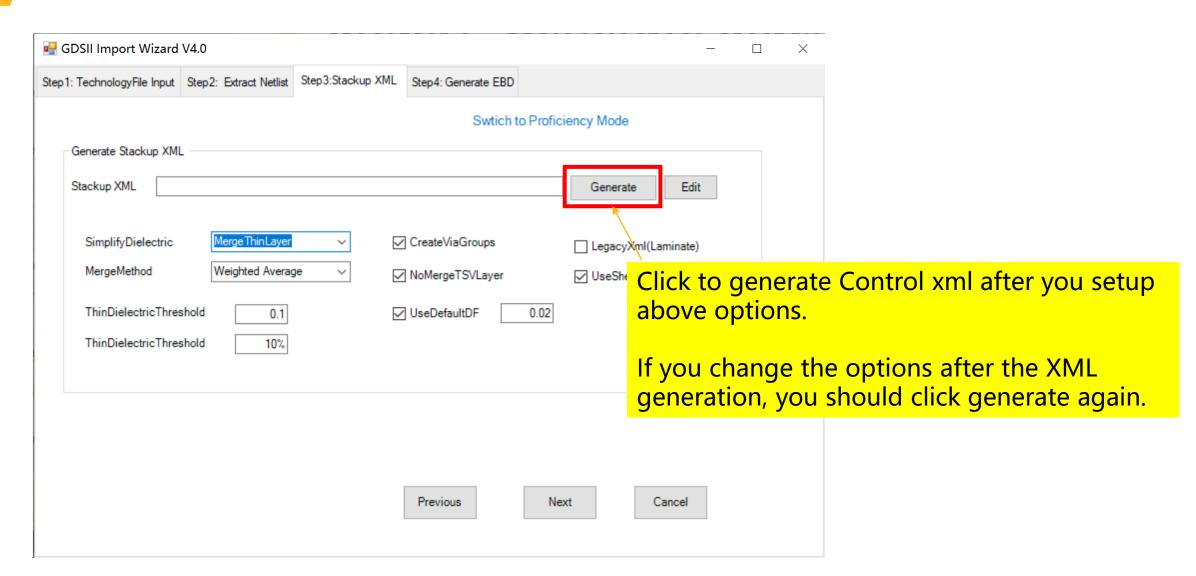






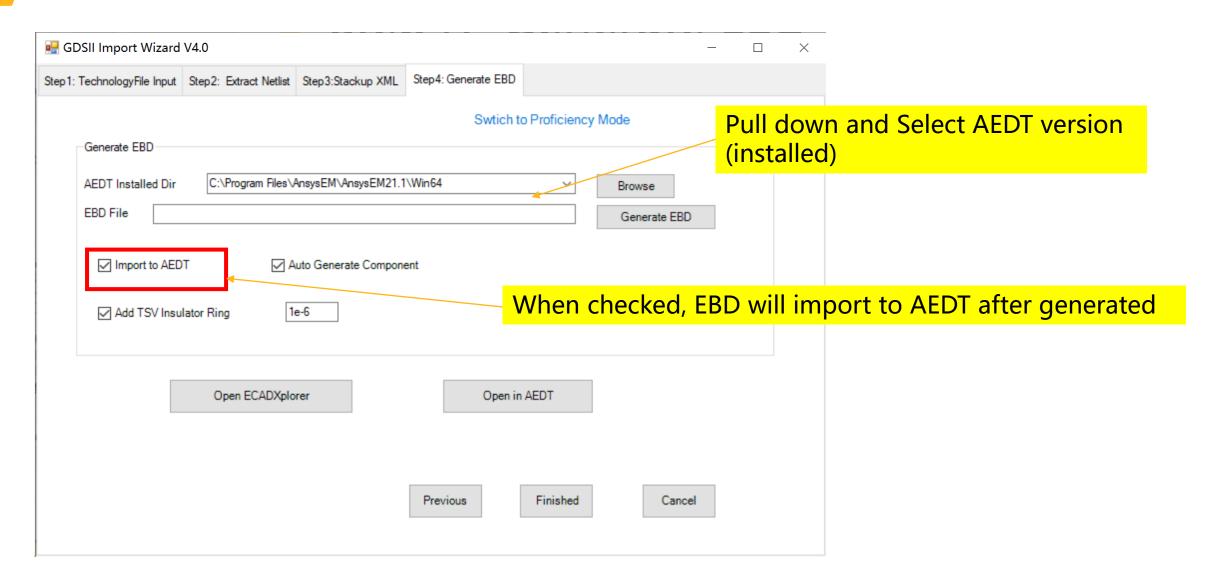
Note: By default, GDSImportWizard generate Overlapping stackup which would create ViaGroups automatically.





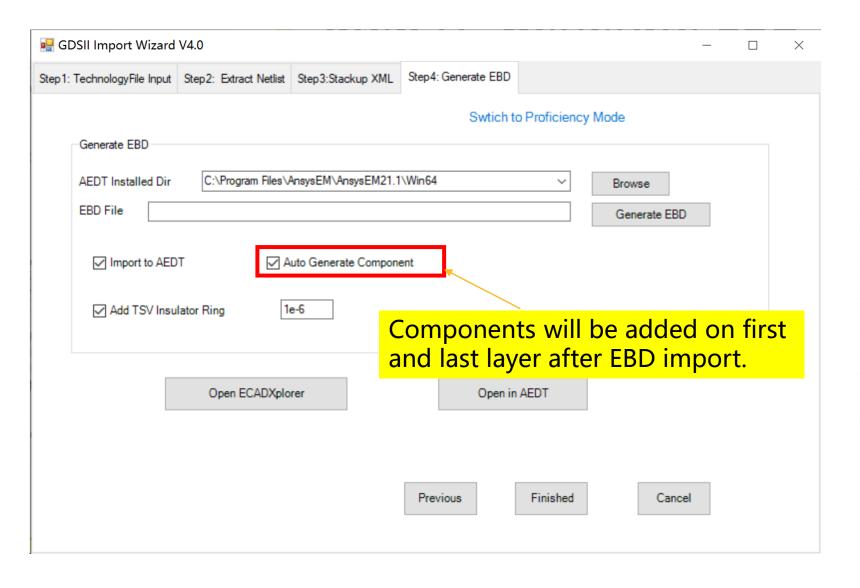


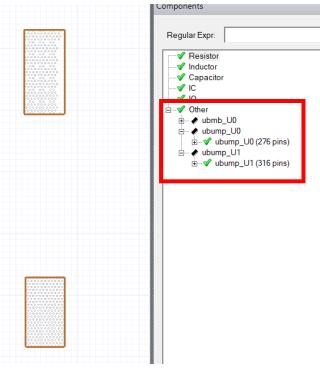
### Step4: Generate EBD



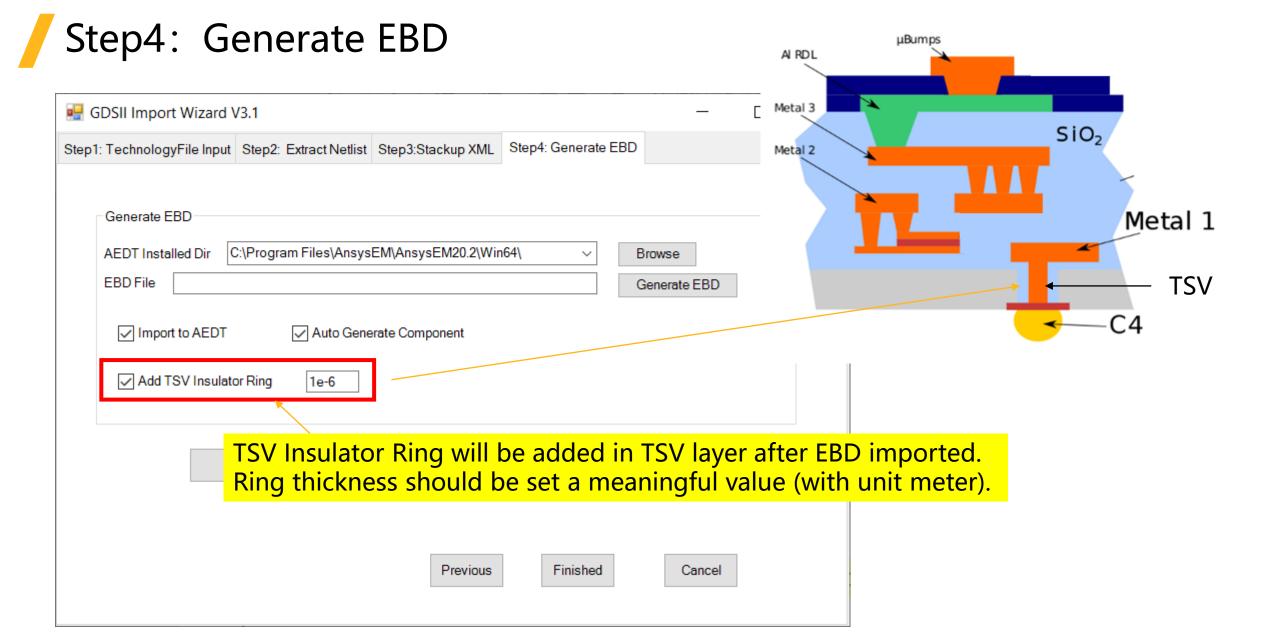


### Step4: Generate EBD



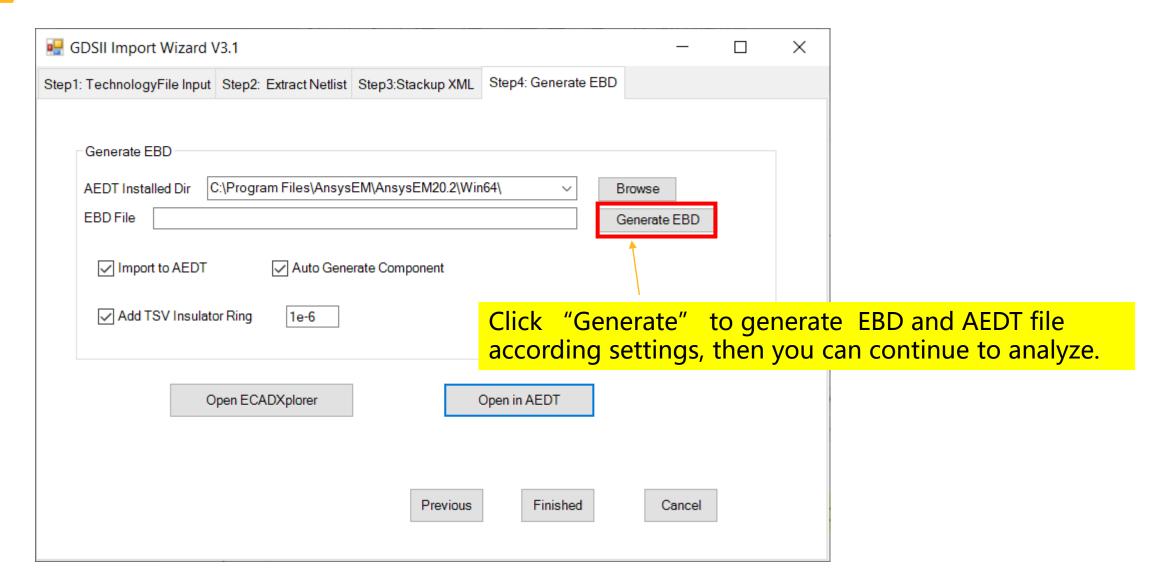








### Step4: Generate EBD





# Running in Batch Mode



### Running in batch mode - Windows



- set aedtInstallPath=C:\Program Files\AnsysEM\AnsysEM20.2\Win64
- set gdsPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.gds
- set ircxPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\TSMC\_INTERPOSER.ircx
- set path=%aedtInstallPath%\common\IronPython;%path%
- ipy64 GDSImportWizard.py -batch

- Optional Setting
- set netlistPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.net
- set xmlPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.xml
- set edbPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.aedb



### Return

# Running in batch mode - Linux

- export aedtInstallPath='/home/ansys/app/AnsysEM20.1/Linux64'
- export gdsPath=/home/ansys/yguo/test/test.gds
- export ircxPath=/home/ansys/yguo/test/TSMC\_INTERPOSER.ircx
- export ipy64="\$aedtInstallPath/common/mono/Linux64/bin/mono \$aedtInstallPath/common/IronPython/ipy64.exe"
- \$ipy64 GDSImportWizard.py -batch
- Optional Setting
- export netlistPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.net
- export xmlPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.xml
- export edbPath=D:\HFSS\GDSII\GDS2XML\TECH2XML\_test\test.aedb

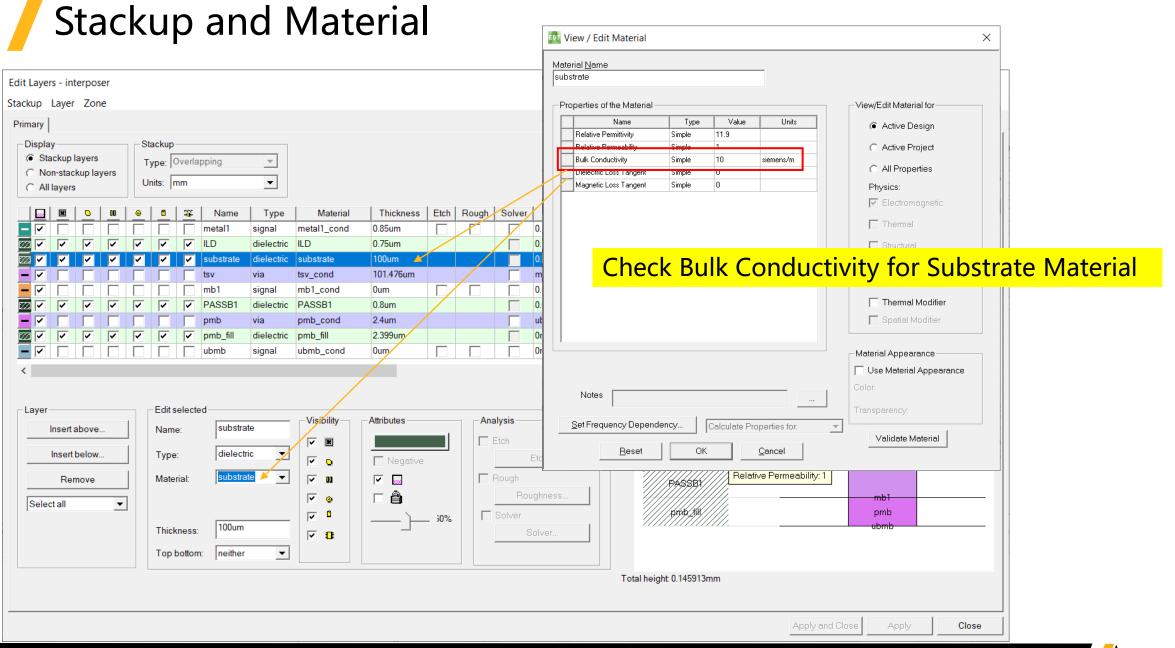




# After Importing

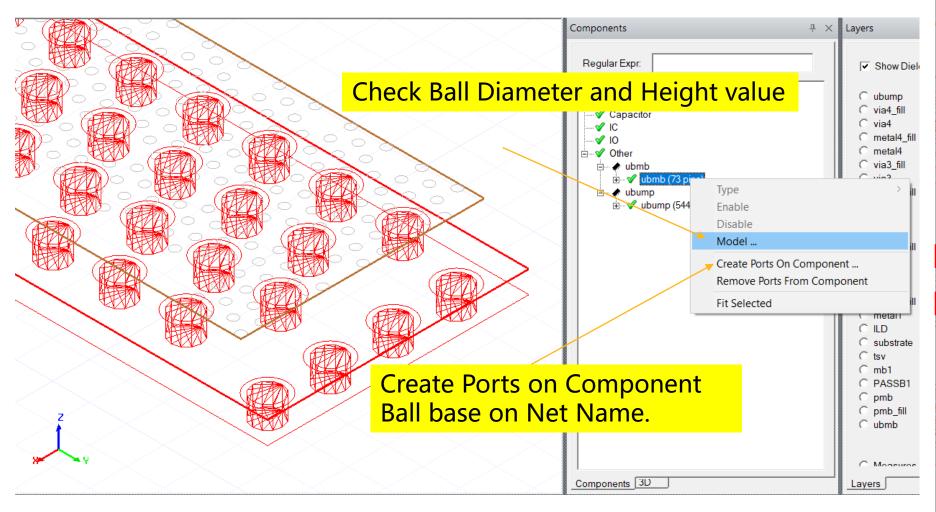
- ✓ Check the stackup thinness and material properties.
- ✓ Clip Design could be done in 3D layout to improve efficiency.
- ✓ If you want use Slwave solver, lagacyXML(Laminate) should be checked in step 3.







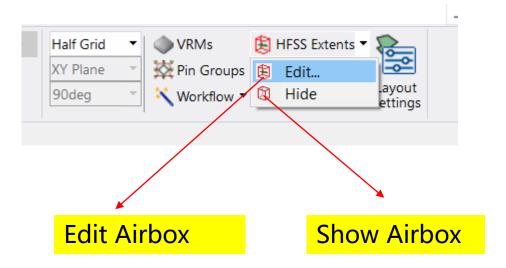
# Component solder ball and port

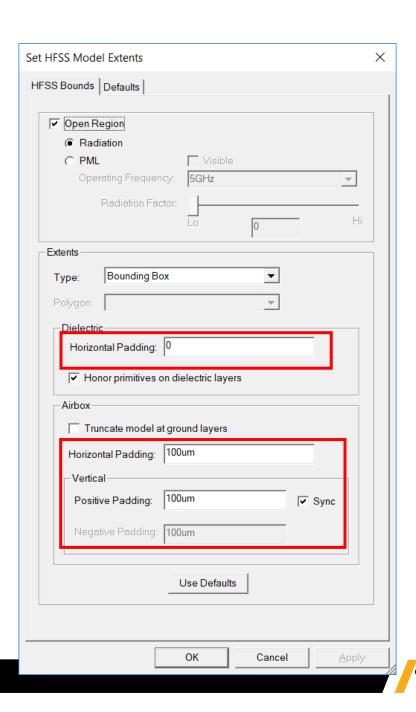


■ Component Model X		
Component Info		
Part Name:	ubmb	
Part Type:	Other	
Ref Des:	ubmb	
No. Pins:	73	
- Model Interface -		
Interface:	Manual 🔻	
Solder Ball Propert	ies	
Shape:	Cylinder ▼	
Diameter:	80um	
Mid Diameter:	0mm	
Height:	60um	
Material:	solder	
Port Properties	,	
Reference Offset:	0	
Reference Size:	<b>✓</b> Auto	
	X: 0	
	Y: 0	
	OK Cancel	

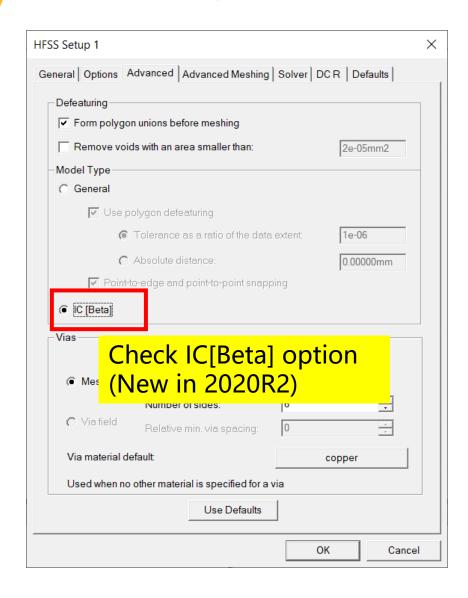


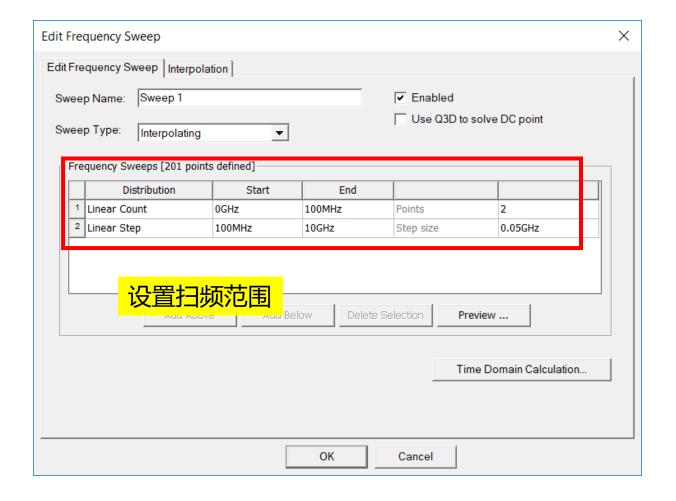
### Set HFSS Model Extents(Airbox)





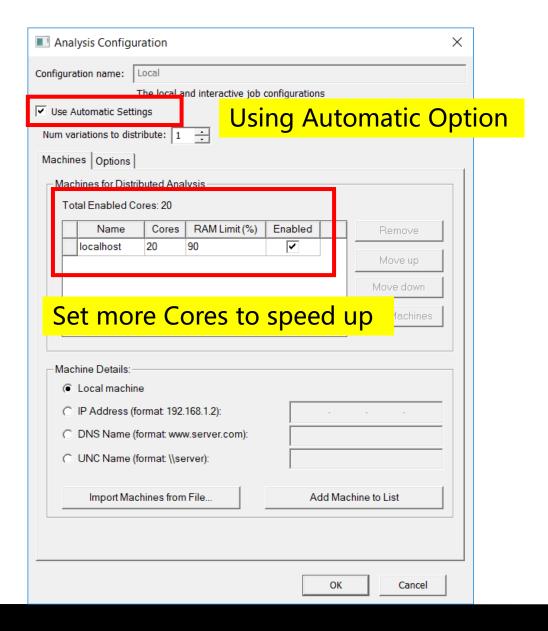
# **HFSS Setup**

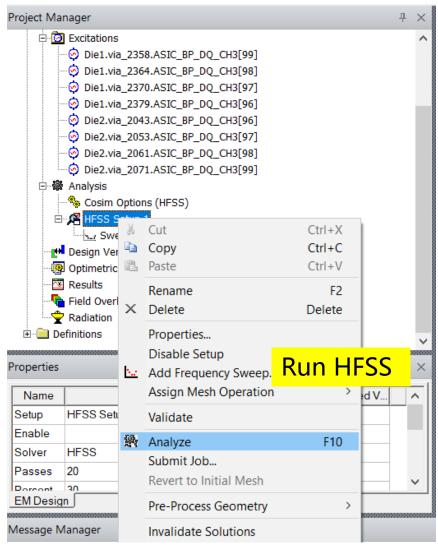






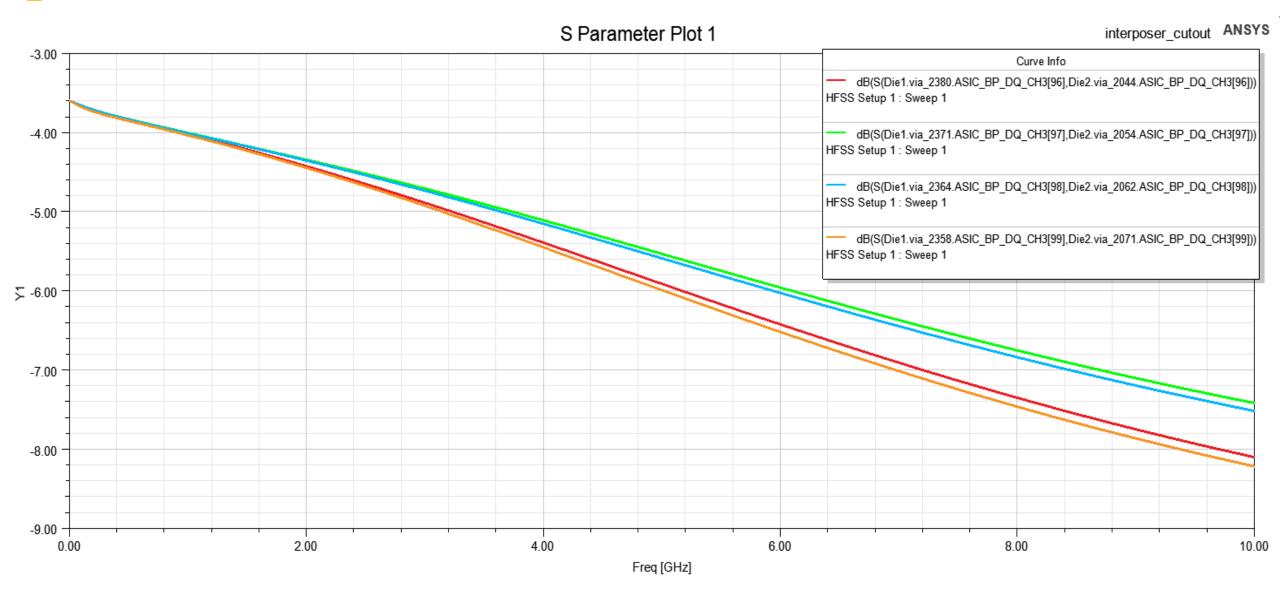
### **Run Simulation**















# More about Configuration file (JSON)

Introducing JSON to configure the default value for the tools is a new attempt in V4.0.

The configuration file only work on GUI mode.



### Configuration from JSON file

When running the tool at the first time, a gds2xml.json configuration file will be generated in the tool directory. The default setting of the tool can be modified by changing values in the JSON file.





# Configuration from JSON file

thinDielectricThreshold, dkDeviationThreshold, control the behavior of mergethinlayer:

	thin Dielectric Threshold	dkDeviationThreshold	Note
1	0.1	0.1	Merge when layer thickness < 0.1 um, or 2 layers dk difference less than 10%
2	0.05	-1	Only merge when layer thickness < 0.05 um
3	-1	0.05	Only merge when 2 layers dk difference less than 5%

useSheetLayer, sheetLayerThreshold, controls whether sheetlayer used to solve efficiency:

	default	Note
useSheetLayer	true	true: use SheetLayer, false: not use
sheetLayerThreshold	0.0015	Default value is <0.0015um will use SheetLayer if useSheetLayer is true. The unit is "um"



# Configuration from JSON file

More will be coming...



# **Ansys**