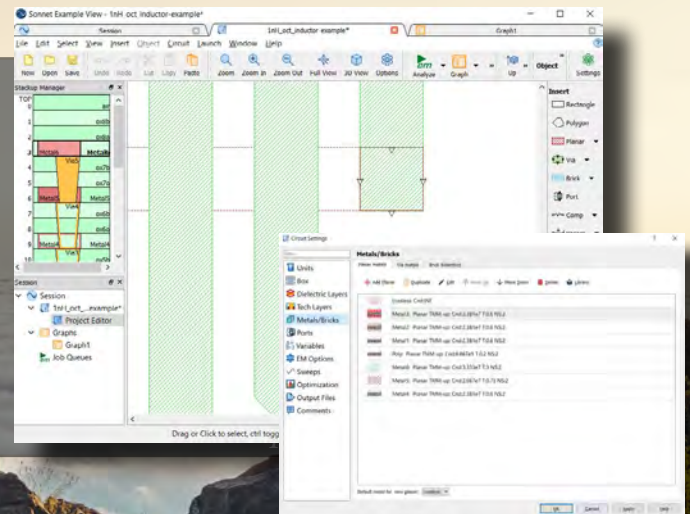


Introducing v17 SONNET®

Sonnet's new v17 is a breakthrough release featuring the most major updates, improvements, and re-works we've produced in this decade. An all new interface is both thoroughly modern and instantly familiar, and the package brings a new level of usability to EM simulation.

Completely Remastered Interface

v17 introduces an easy to use, modern and extremely intuitive interface, with windows that provide almost infinite flexibility. Usage is both familiar and easy, with buttons, menus, and settings beautifully organized. You can also configure your design environment to suit your workflow, placing controls anywhere in the Sonnet window or in separate windows.

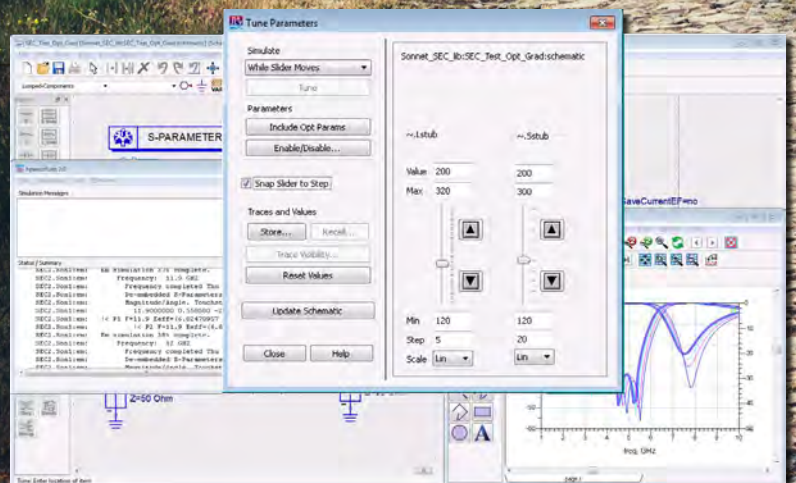


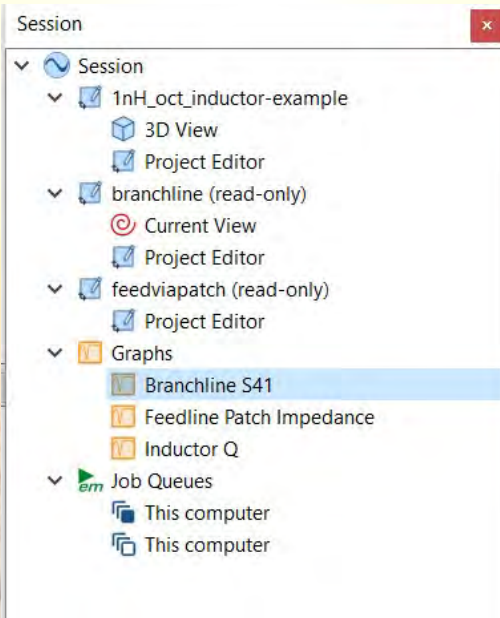
Tabbed Interface

Keep your projects organized and convenient. The Sonnet window now contains all running modules displayed in separate tabs, allowing you to quickly move through different parts of your design process and stay organized. Tabs may be rearranged or moved into their own windows as needed and then added back to the main window at the user's discretion.

Sonnet EM Co-Simulation (SEC)

Extend your simulation capability; v17 introduces Sonnet's EM Co-Simulation (SEC) for Keysight® ADS which allows you to perform EM Co-simulation from within the ADS environment. An SEC component placed within the ADS schematic can invoke Sonnet EM simulations, allowing you to tune and optimize with maximum ease and flexibility.



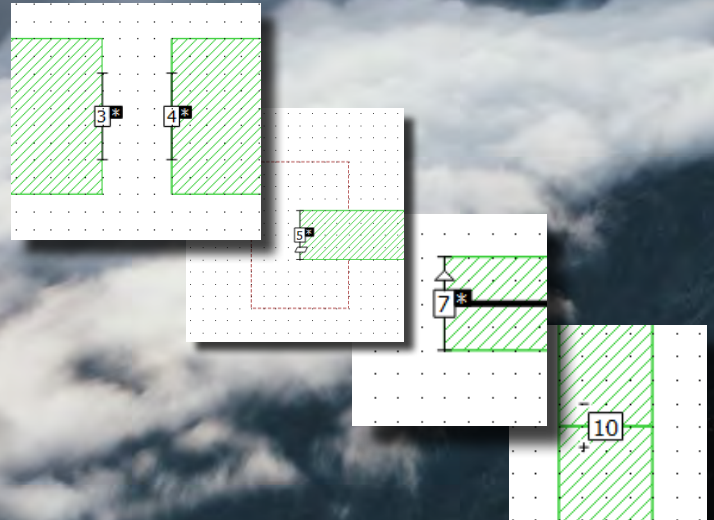


Session Manager


See your workspace at a glance and move through it effortlessly. The Sonnet session window allows you to access all the modules in Sonnet, manage your project files, access help and Sonnet example files, and access various administrative tasks. The main session tab contains a session manager which displays everything presently open in your session which can be used to easily manage elements of your session and move between modules. The session manager is displayed by default within every module in Sonnet.


Port Enhancements


Sonnet now has more flexibility than ever to get currents in and out of your circuits. Numerous improvements in creating and modeling ports have been made in v17. The port type is automatically assigned based on the placement of the port in the circuit with immediate feedback on correct port placement. A new type of port, the *delta gap port* is introduced in this release. Several capabilities have been added to ports including assigning a local ground polygon, assigning multiple numbers to a single port and controlling the polarity of ports.





Tech Layers


 Auto Create














 Add Metal


 Add Via


 Add Brick


 Edit

 Delete

Type	Name	Metal/Brick	Level(s)	Fill Type	Total Polys	Local Polys	Meshing	GDS Steam	DXF Layer	Gerber File
	Via5	Via	3-6	Ring	1	1	Default	0:0	Via5	Default
	Via4	Via	6-9	Ring	0	0	Default	0:0	Via4	Default
	Via3	Via	9-12	Ring	0	0	Default	0:0	Via3	Default
	Via2	Via	12-15	Ring	0	0	Default	0:0	Via2	Default
	Via1	Via	15-18	Ring	0	0	Default	0:0	Via1	Default
	Cont	Via	18-20	Ring	0	0	Default	0:0	Cont	Default
	Metal6	Metal6	3	Conformal	7	0	Default	0:0	Metal6	Default
	Metal5	Metal5	6	Conformal	5	0	Default	0:0	Metal5	Default
	Metal4	Metal4	9	Conformal	0	0	Default	0:0	Metal4	Default
	Metal3	Metal3	12	Conformal	0	0	Default	0:0	Metal3	Default
	Metal2	Metal2	15	Conformal	0	0	Default	0:0	Metal2	Default
	Metal1	Metal1	18	Conformal	0	0	Default	0:0	Metal1	Default
	Poly	Poly	20	Conformal	0	0	Default	0:0	Poly	Default

 Metal

 Via

 Brick

Polygons not in Tech Layers: 0

Restore column order

Sonnet Technology File (STF)

Get right into your designs! v17 introduces the Sonnet technology file for Sonnet interfaces and translators which conveniently stores all the information needed for the stackup. Contact info@sonnetsoftware.com to see if your process has an available STF or to request one be made.

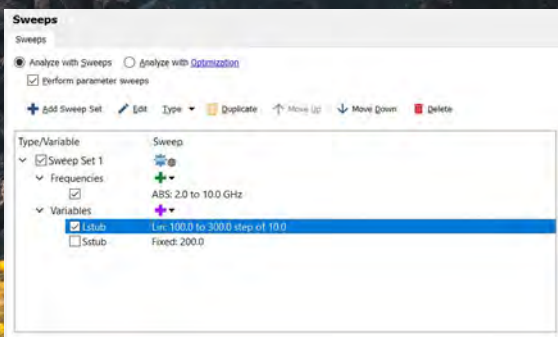
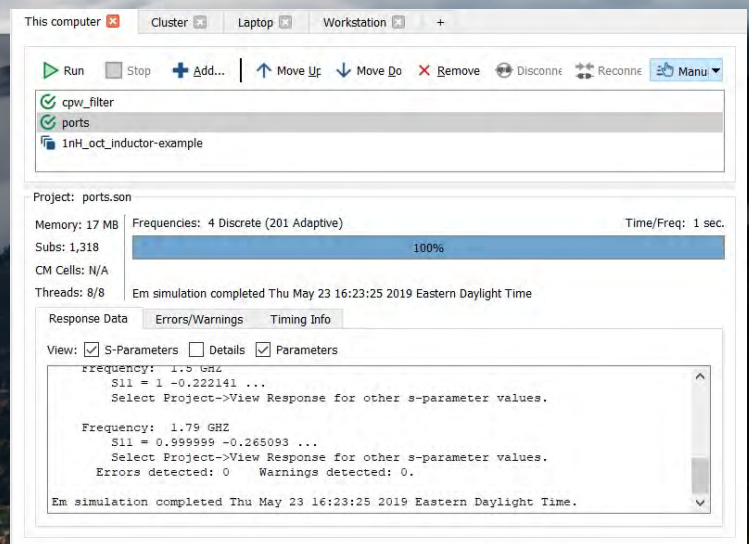


Metal Bias

With advanced production processes, we need to be able to simulate what we're producing as opposed to what we're drawing. The new Sonnet Technology file incorporates metal definitions which account for fabrication effects including width, spacing, and loss-dependent metal bias for both planar and via metals. At left, the layout (red) is overlain on a potential bias (green). *Image is a dramatization for illustrative purposes only. Only specific processes are currently supported. To find out if your process is currently supported or to request support for one, please contact info@sonnetsoftware.com.*

Job Queues

It is now easier than ever to keep multiple runs organized on multiple machines! The new Job Queue tab has replaced the analysis monitor to control and monitor your analyses. This can be used to set up jobs for later analysis, or to run analysis jobs immediately. If you wish to start an analysis manually or at a specified time, you can define a new queue, then specify a manual or timed start before adding jobs to that queue. You may define multiple job queues in your session.

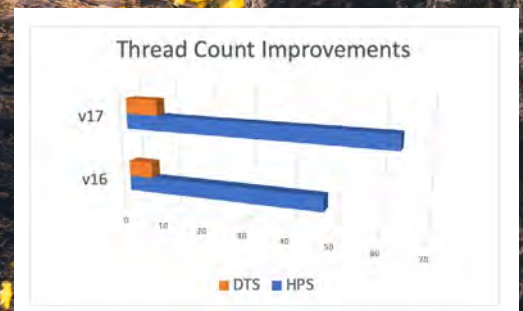


Sweeps

It is now easier than ever to perform complex simulations and keep them organized, as v17 features a new implementation for setting up your analysis sweeps that is more powerful and efficient.

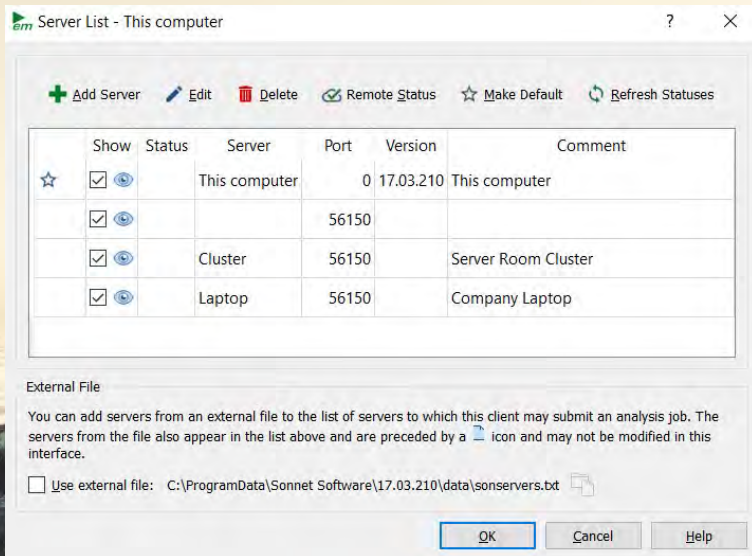
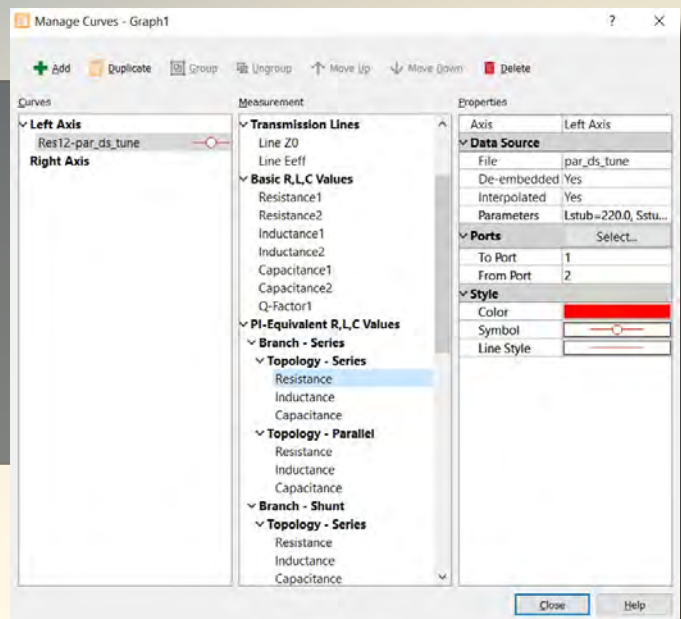
Performance

Run your simulations faster! In addition to numerous behind the scenes optimizations, Desktop Solver (DTS) thread count has been increased to eight, and High Performance Solver (HPS) thread count has been increased to 64.



Measurements and Equations in Response Viewer

It is more convenient and accessible to view different data sets in Sonnet when viewing different types of data. There are a number of new measurements and pre-defined equations available in the response viewer, combined with a new interface for managing your data curves.



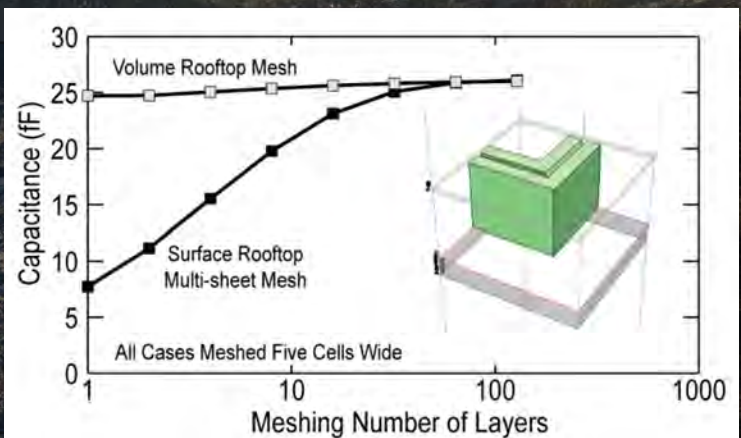
Remote Server Setup

Setting up remote servers has been streamlined and simplified with an intuitive interface, so that admins and users can keep all of their hardware utilized efficiently.

In Development

TrueVolume™ Subsections

To more accurately simulate complex 3D cross-sections and structures, Sonnet has developed new TrueVolume Subsections (Patent Pending). This revised model allows for true volumetric and 3-dimensional currents to be simulated in your designs. Due to the advance nature of the technology, Sonnet is testing the new feature and intends to release it in a v17 point release.



Experience Version 17:

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