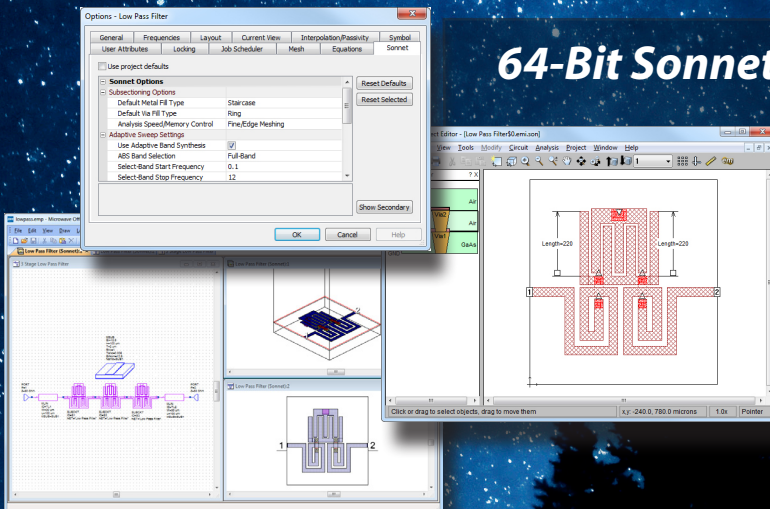




Introducing V16

Release 16 expands the Sonnet Professional feature set to facilitate more freedom, flexibility, and optimum results for design projects. The automation and integration with third party EDA vendors leads to more accuracy in circuit designs, all with increased efficiency.

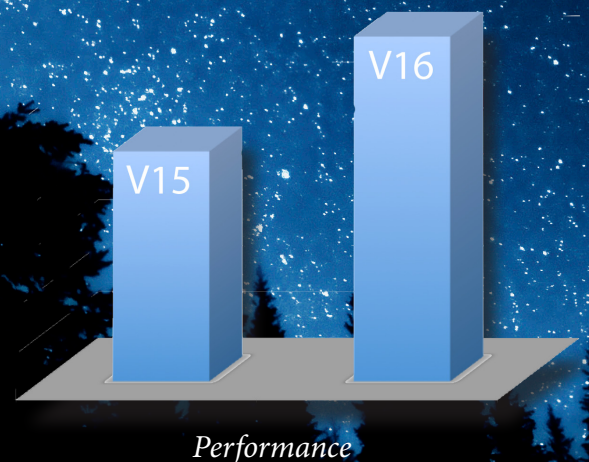


64-Bit Sonnet Interface for NI AWR MWO V13

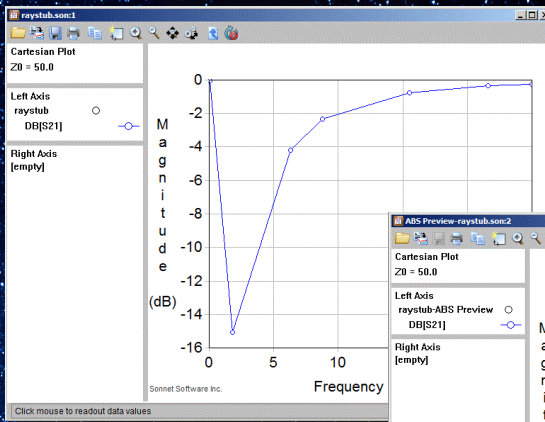
New in Version 16.54, Sonnet's Microwave Office Interface provides a completely integrated "solver on request" interface between NI AWR's Microwave Office (Version 13 and above) and Sonnet Suites.

Improved HPS Capability

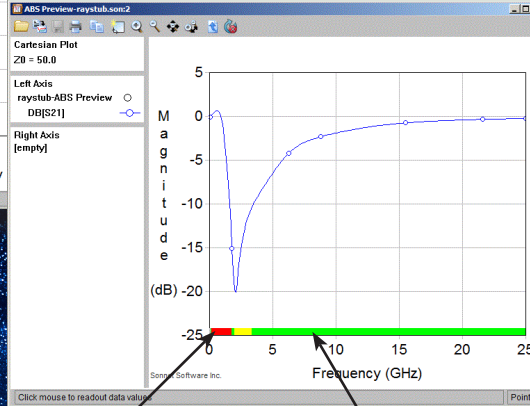
The maximum thread count for the HPS has increased from 32 to 48 threads for Release 16, providing up to a 50% speed boost in larger projects.



Non-interpolated Results



Interpolated Results



High Error

Low Error

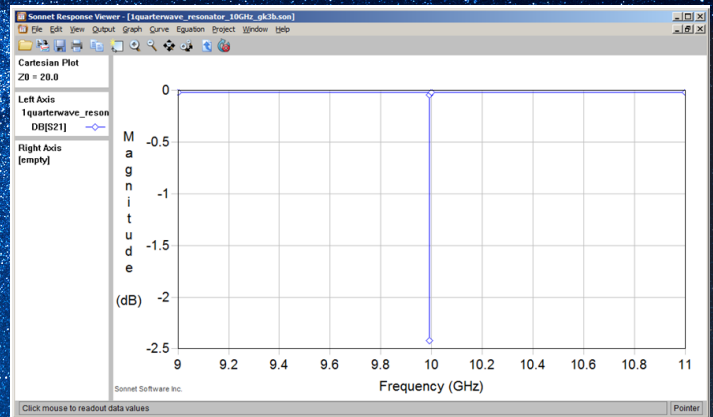
Enhanced ABS

ABS preview allows an adaptive sweep that has not yet reached convergence to be paused in order to preview and evaluate the data and, if needed, improve the analysis band for the simulation.

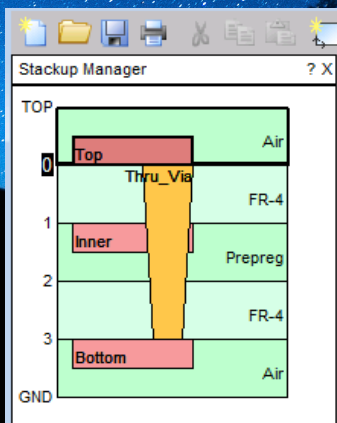
ABS DC point evaluation allows users to start an ABS sweep with 0.0 GHz entered, automatically generating data for a DC point by extrapolation from the ABS sweep data.

Pinpoint Resonance Detection

Ideal for superconductor applications, the automatic Adaptive Band Synthesis (ABS) resolution adjustment will detect and resolve extremely narrowband resonances like never before.



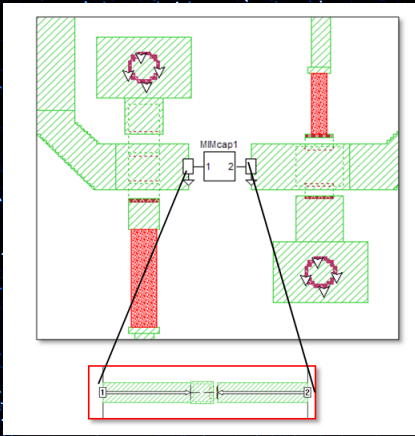
Extreme Q Resonance Detected by ABS



Metal extruded up from layer 0, down from layers 1 and 3.

Thick Metal Extrusion

Options for metal cross-sectioning with the thick metal extrusion feature have been expanded. Users may now extrude thick metal upwards as well as downwards from the layer intersection that metalization is drawn at. This allows for unprecedented control of simulations.



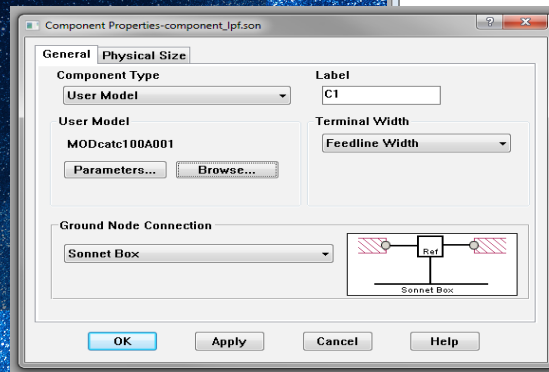
A Sonnet project within a Sonnet project.

Project Components

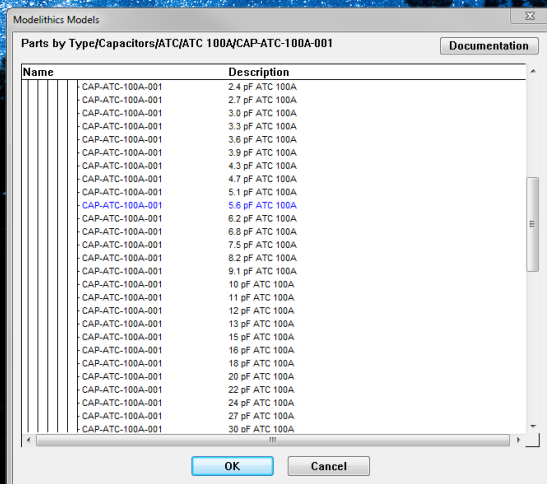
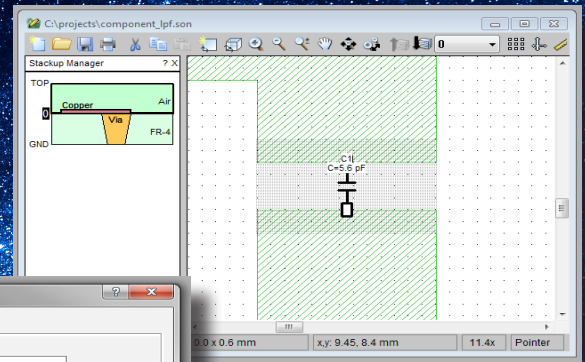
Through Project Components, users can place projects within other Sonnet Projects in a hierarchical fashion. This allows for a whole new level of design compartmentalization and organization.

Custom User Model Components

Release 16 has been designed to better incorporate internal models from other sources into current geometry with its Model Components feature. Users can place models in the geometry from a source library containing purchases as well as in-house model designs.



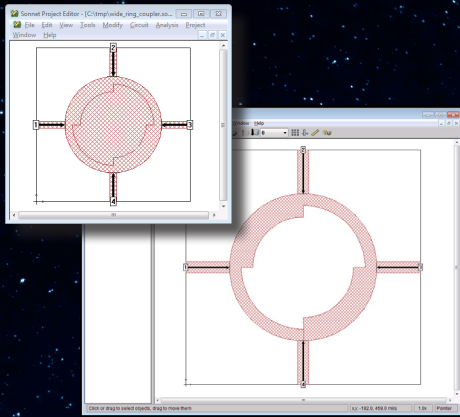
A custom capacitor included in the circuit.



Modelithics® library in Sonnet®

Modelithics® Integration

V16 adds the Modelithics® CLR Library integration capability to Sonnet's Model Components feature. The Modelithics® CLR Library contains models representing over 12,000 components from 25 vendors, available to users in list format within the software. This provides for easy access to powerful scalable models in Sonnet simulations.



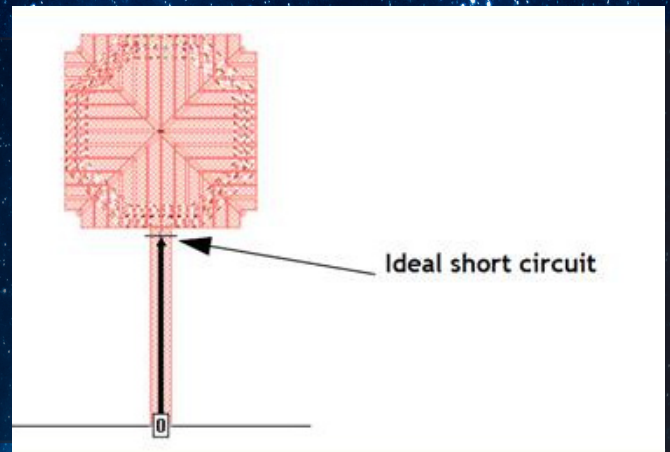
Boolean Subtract in Action

New Boolean Editing

The updated project editor gives the designer four new intuitive controls: union, intersect, trim, and subtract for easy editing of your geometries.

Unified Ground Connection

A circuit ground can be placed in any spot a standard port can be located. An ideal short circuit can be added to a circuit in positions other than the analysis box sidewall, which is particularly useful for grounding any internal shields and/or ground planes.



Additional New Features:

- Robust Loss Models
- ODB++® Translator
- Resistance Per Via
- Automatic Bar Vias
- Polygon Edge Checking Support for Tech Layers
- Efficient Via Simplification for RFIC Circuits
- GDSII™ 64 Bit Support
- 64 Bit Support for Cadence® Virtuoso® Interface
- Keysight® ADS™ Interface Enhancements

Experience Version 16

www.sonnetsoftware.com

info@sonnetsoftware.com

877.7SONNET

315.453.3096



PRECISION ELECTROMAGNETICS