

Services Flyer

Software Maintenance Agreement



NI AWR Design Environment

Benefits of a Software Maintenance Agreement (SMA)

Technical support staff at your service

Our expert staff is available for unlimited technical support via email (preferred) or phone during the agreement period.

Ready access to software updates and new releases

You receive the latest to software updates and new versions that are released during the agreement period.

E-learning and live training

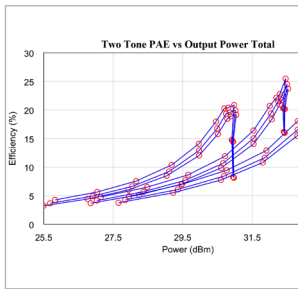
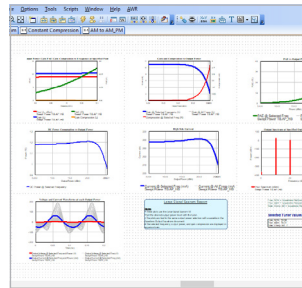
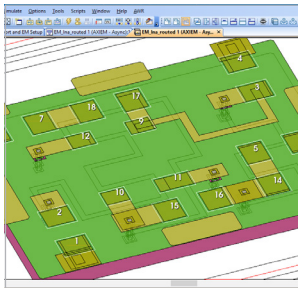
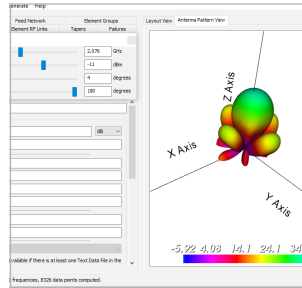
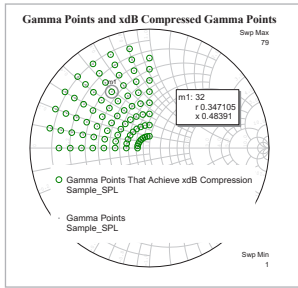
You have access to the e-Learning portal offering a wide variety of self-paced training videos 24/7 during the agreement period, as well as VIP priority attendance at live training.

For more information and to initiate an SMA, please contact your local [NI AWR software expert](#).

New Features of V14 Available With an Active SMA

NI AWR software tackles the design challenges of today's highly-integrated RF/microwave devices within next-generation communications and radar systems such as 5G, IoT, and smart vehicles. As component performance requirements become more stringent due to market demands, designers must deliver novel designs based on greater exploration of the design space.

To meet these challenge, the V14 release of NI AWR Design Environment software focuses on expediting all stages of design, from initial starts using powerful network synthesis to circuit/system and simulation technology for performance analysis, optimization and verification.



Parameter	✓ Tune	Step Size	Lower	Tuner
W	<input checked="" type="checkbox"/>	4	200	<input type="text"/>
Z	<input checked="" type="checkbox"/>	0.7	25	<input type="text"/>
W	<input checked="" type="checkbox"/>	3	122.8	<input type="text"/>
L	<input checked="" type="checkbox"/>	1	50	<input type="text"/>
Offset	<input checked="" type="checkbox"/>	0.02	-1	<input type="text"/>
C2_Len	<input checked="" type="checkbox"/>	0.6	20	<input type="text"/>
C1_Len	<input checked="" type="checkbox"/>	0.8	20	<input type="text"/>
L3_Len	<input checked="" type="checkbox"/>	1	25	<input type="text"/>
L2_Len	<input checked="" type="checkbox"/>	8	100	<input type="text"/>
L4_Len	<input checked="" type="checkbox"/>	4	50	<input type="text"/>
C4_Len	<input checked="" type="checkbox"/>	0.3	10	<input type="text"/>
C3_Len	<input checked="" type="checkbox"/>	0.5	20	<input type="text"/>
L1_Len	<input checked="" type="checkbox"/>	2	25	<input type="text"/>

Coupled with further enhancements to design flow automation, NI AWR Design Environment V14 offers an unmatched user experience to accelerate RF/microwave designs from concept to product.

With new technologies like network synthesis, V14 jump starts and streamlines design by empowering engineers with the ability to interactively develop amplifiers that are optimized for noise, power, or impedance matching networks between amplifier stages or between different components, such as amplifiers and antennas.

V14 also offers powerful automation and specialized design wizards, including new editing capabilities for EM verification of complex PCBs and a proprietary phased-array generation wizard that allows engineers to develop phased array antenna systems, complete with antenna array, feed network and RF front-end components for communications and radar applications.

This latest release further improves user efficiency with centralized management of measurement data sources and parameters to create and manage great looking reports with automation that reduces engineering efforts. A re-imagined tuner (tuning bar) more readily allows users to dial-in design parameters that result in optimum performance.



Try AWR

Try NI AWR Design Environment software today and see for yourself how easy and effective it is to streamline your design process, improve end-product performance and accelerate time to market for MMICs, RFICs, RF PCBs, microwave modules, antennas, communication systems, radar systems, and more.

Download your trial at awrcorp.com/tryawr

Feature Comparison by Release

	V14	V13	V12	V11
Design Environment and Automation				
Dynamic documents and measurement management	x			
Simplified PA measurements	x			
Advanced multi-technology project support	x	x		
New optimization methods	x	x		
Transmission zeros added to iFilter*	x	x		
OpenAccess schematic import/export	x	x		
Graph marker improvements	x	x		
Marching waveforms for harmonic balance and transient analysis	x	x		
RF models auto-configuration option	x	x	x	
Graphic display enhancements for stepped colors on swept traces, multi-selection of traces for edit, and more	x	x	x	x
Expanded output file support across circuit simulators	x	x	x	x
System Simulation, Models and Libraries				
Enhance MIMO/phased-array model generation wizard*	x			
New spacial channel models	x			
New system load pull (ACPR, EVM)	x	x		
5G signal generation	x	x		
Enhanced LTE-A, radar, and NB-IoT	x	x		
Expanded circuit envelope simulation	x	x	x	
Bidirectional RF blocks	x	x	x	
RF blocks supporting temperature dependency	x	x	x	x
Datasets enable project quick comparison of prior results	x	x	x	x
Visual System Simulator™ (VSS) radar block/library and licensing option	x	x	x	x
Additional measurements for yield and RF budget analysis	x	x	x	x
Circuit Simulation, Models and Libraries				
New network synthesis wizard* for impedance matching	x			
New tuning bar interface for large scale parametric design	x			
Loop gain stability analysis	x			
Spectre netlist co-simulation	x	x		
New nested source/load pull	x	x		
Harmonic load-pull simulation (both nested and individual) and support for measured harmonic load-pull files	x	x	x	
Two-tone load-pull simulation/support for measured two-tone load-pull files	x	x	x	
New time-domain waveform measurements on load-pull A/B wave files	x	x	x	
Datasets for allowing project quick comparison of prior results	x	x	x	x
APLAC technology as default HB simulator	x	x	x	x
New gamma probe model	x	x	x	x
Transient and TAHB improvements	x	x	x	x
New SDELTAM measurement	x	x	x	x

	V14	V13	V12	V11
Electromagnetic (EM) Simulation and Modeling				
New point ports for component/EM integration	x			
3D internal wave ports	x			
Support for conformal structures such as antennas	x			
Simulation speed and solver improvements (meshing, ports, and matrix solve)	x	x		
Improved AFS algorithms	x	x		
Analyst™ surface roughness model	x	x		
New 3D editor commands	x	x		
Enhanced bi-directional links to HFSS, CST, and Sonnet	x	x	x	
Analyst EM now supports orthogonal differential ports	x	x	x	
AXEIM EM now supports anisotropic dielectric materials	x	x	x	
Visualize the impact of circuits on antenna patterns	x	x	x	
Enhancements for higher-accuracy loss model for thin conductors, surface roughness, and frequency-dependent dielectrics	x	x	x	x
3D EM editor enhanced for creation of arbitrary 3D structures: ready-made parts library, imported SAT/IGES, and custom PCells	x	x	x	x
AFS band limiting	x	x	x	x
Asynchronous simulation 3D planar MoM enhancements	x	x	x	x
Physical Design and Layout				
Enhanced PCB layout import wizard (ODB++, IPC2581)	x			
Enhanced iNet™ intelligent net routing and layout manager	x			
Expanded shape preprocessor modifier	x	x		
Layout additions and improved operational functionality for iNets, vias, and more	x	x	x	
Use real-world antenna data in system analysis	x	x	x	
Enhanced layout editing	x	x	x	x
User Support				
What's new example playground	x	x		
Guided help interactive documentation	x	x		
Sticky notes for schematics, system diagrams, and graphs	x	x	x	
Scripting updates and improvements for load pull and PDKs	x	x	x	
Support for 64-bit mode on 64-bit operating systems	x	x	x	x
Online knowledge base (KB)	x	x	x	x



Learn more at awrcorp.com/whatsnew

*Add-on module, additional license cost incurred

Customer Resources

[Download Site](#) – Secure website for downloading the latest release of the software (registered customers only)

[E-Learning](#) – Get a jump start with self-paced modular training videos that educate new users on NI AWR software (for registered users, login/password required)

[Live Training](#) – Numerous training courses spanning one or more days are offered regularly to bring customers up the learning curve quickly

[Knowledge Base](#) – User support website containing examples, application notes, FAQs, videos, and documentation

[User Forum](#) – A forum for customers to provide product feedback and propose future software features (for registered users, login/password required)

[Technical Support](#) – Contact NI AWR software support staff during business hours to obtain answers to your questions (for active customers, customer ID required)

[E-Newsletter](#) – Subscribe to the e-newsletter to stay informed of the latest offerings of training, videos, and new release updates

Contact Information

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PF-SMA-2018.08.30