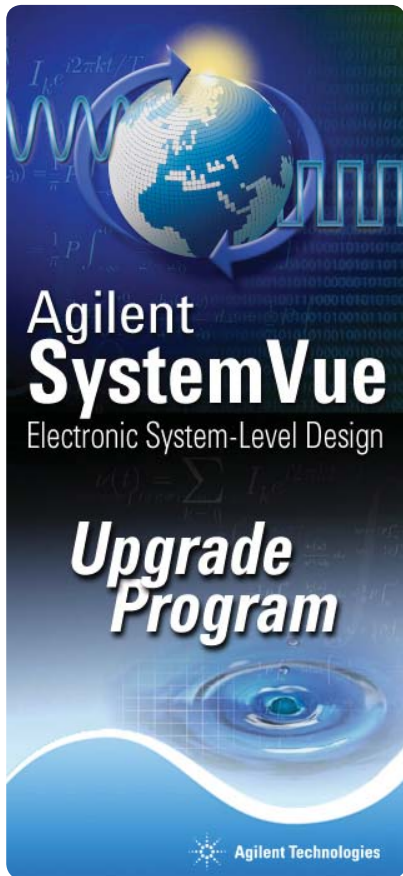




SystemVue 2011 Upgrade Guide

What to consider when upgrading from previous versions of SystemView from Eagleware-Elanix



“I own an older SystemVue. What are my options?”

The new SystemVue platform began with the SystemVue 2008.12 release. SystemVue 2011 continues the heritage of ease-of-use and convenience of the older Eagleware-Elanix platform, but infuses multiple new technologies to extend simulation, instrumentation, hardware design, scripting, and the user interface. The environment is specifically aimed at baseband/RF architectures in communications physical layer and aerospace/defense applications. SystemVue 2011 is a substantially new platform, but with significant overlap with its older application space.

Existing SystemVue users are invited to transition to the new platform under very attractive terms, but please act soon. Some aspects of the program are time limited.

See what you're missing online:

Demonstration videos:

<http://www.agilent.com/find/eesof-systemvue-videos>

Try the new software for yourself!

<http://www.agilent.com/find/eesof-systemvue-evaluation>



Agilent Technologies

Upgrade Case 1

Actively Supported Software

If your SystemVue 2007.03 software maintenance status is current and up to date, you will receive two things at your next support renewal:

1. For each supported older seat of SystemVue, you will receive the closest equivalent seat of the new platform. You now own the new software and can renew support on it from this point forward. Note that since the licensing has changed you may need to change hosts/hardware keys.
2. In addition, you will receive “perpetual” license keys for your older software to help you transition to the new release and serve legacy design requests. You can use either platform, but only one at a time. The SystemVue 2007 upgrade table is provided at the end of this document. Technical support will continue to answer questions on the older software, but the software itself is “functionally stable” and, once upgraded, has no further upgradeability or trade-in status.

Summary

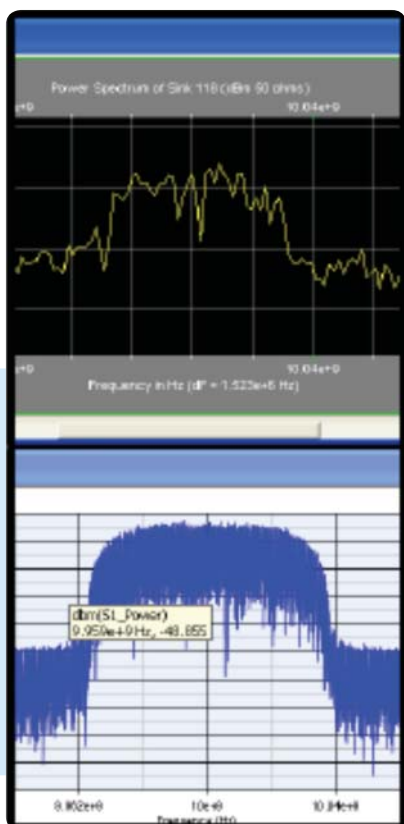
Supported customers will ultimately receive both platforms, carry forward with the new platform, and receive dual access. There is no risk. If your support anniversary has not arrived yet, you are welcome to request early loaner access to the new SystemVue 2011 until your status can be finalized. Please consult your Agilent EEs of EDA sales person or EEs of Business Support Center.

Upgrade Case 2

Recently Unsupported Software

If your SystemVue 2007.03 (or older) software maintenance status has expired within the last 2 years, it will likely cost less for you to return to supported status and take advantage of the generous terms cited above. On your annual support renewal, you will be asked to renew support on the new modules. If you choose not to renew support, your status remains unchanged, for now. However, formal obsolescence will begin soon and you will be given “perpetual licenses” for this older software. You will always have it, but will forfeit your upgrade option.

If you are not sure, renew support today to keep your options open.



Fast RF effects

Full RF effects in Complex Envelope mode lets you do close-in phase noise and realistic CCDF, EVM and coded-BER measurements with standards-compliant waveforms.

Video demo online at:

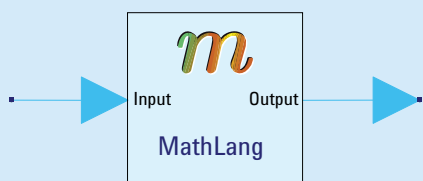
<http://www.agilent.com/find/eesof-systemvue-videos>

Upgrade Case 3

Unsupported Older Software

If your SystemVue maintenance expired before 2008, it is recommended that you consult with your local Agilent representative to learn about special programs to upgrade and/or trade in your older software, in order to receive access to the new SystemVue platform. Most long-time users of SystemVue choose to receive perpetual licenses for their old software, with some discounted access to the new software, achieving the best of both worlds. Your local Agilent representative can assist you.

Why Upgrade to the New SystemVue?



```
Equations I/O Custom Parameters
1 in1 = input
2
3 setmatlabvariables('in1')
4 #matlabregion
5 if in1 >= 0
6   yy = 3*sqrt( in1 )
7 else
8   yy = 2*sqrt(-in1)
9 end
10 #endregion
11 getmatlabvariables('yy')
12
13 output=yy
```

The math language block uses the native SystemVue equation parser, but can also declare a region where an external copy of MATLAB® is invoked in-line, for maximum compatibility with existing .m files.

1. Complex envelope simulation, often 10x-100x faster for modulated carriers
2. Better simulator support for multi-rate processing, and matrix/framed datatypes
3. Intimate links to RF and baseband test equipment
4. Free access to the new Agilent N1010A FlexDCA software, for oscilloscope measurements
5. Access to better RF system tools, including X-parameter support and new ADC models
6. Native, built-in math language modeling and post-processing support, with debugger
7. Direct integration with Microsoft Visual C++ and MATLAB®
8. Superior HDL co-simulation for verification
9. The new SystemVue includes several free modules that formerly were added-cost options
10. Easier licensing, OS and Enterprise tool support
11. Scriptable and extendable environment
12. Stored plots, real-time tuning, and LiveReport (for interacting with multiple plots and schematics)
13. Libraries for OFDM and Zigbee included free with base platform
14. Access to over a dozen leading-edge reference libraries and applications, such as Radar, LTE, 8x8 MIMO Channel modeling, WiMAX, Digital Pre-Distortion, and more
15. Supported SystemVue 2007.03 users can keep their old software, and move forward into the new platform! It's the best of both worlds!

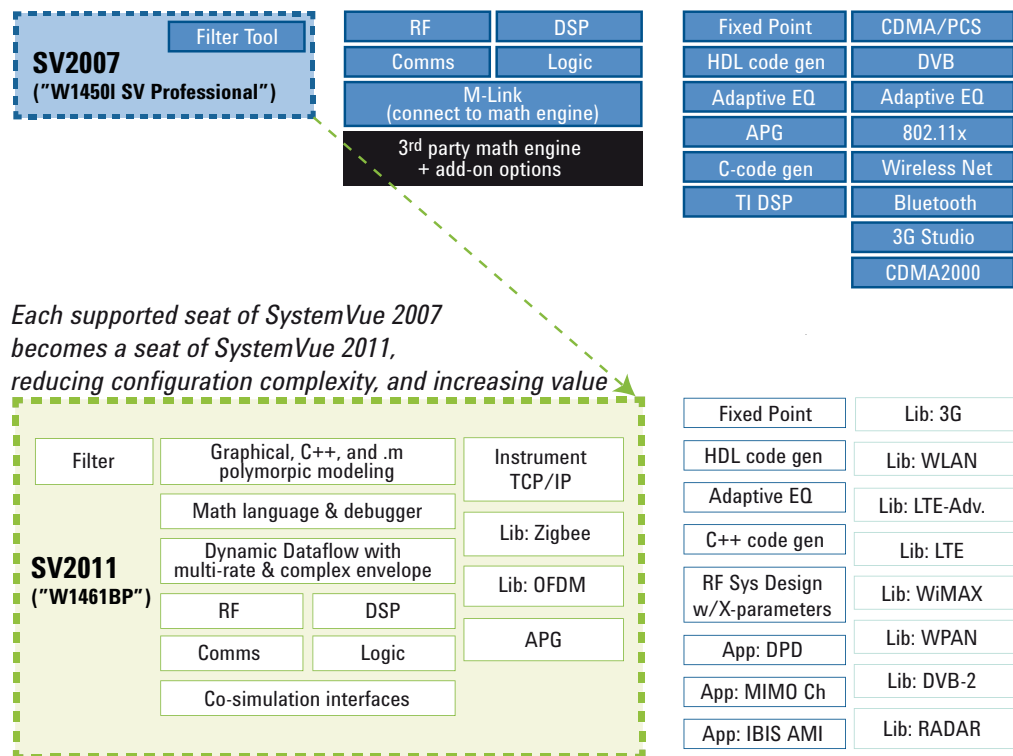
How does SystemVue 2011 compare to SystemVue 2007?

When first introduced, SystemVue 2008.12 overlapped with the original capability of SystemVue 2007 in most areas. At the same time, it took the software in new directions with such things as instrument links, complex modulation, co-simulations, and scripting.

SystemVue now continues to expand this feature coverage, with Agilent's R&D team working to complete and move beyond the older product footprint. In the future, links to partner electronic-system level (ESL) environments, hardware design, wireless IP, and embedded instrument applications will continue to push SystemVue to new levels as both a personal front-end system tool and a rigorous platform for model-based baseband/RF designs in FPGA, DSP, ASIC, and embedded processor applications.

Visual Comparison of SystemVue 2007 and SystemVue 2011

The W1461BP SystemVue core environment includes many modules that were formerly add-on products to the W1450L SystemVue Pro. Most configurations upgrading from a W1450L or W1451L will receive a substantial increase in capability.



SystemVue 2007 Upgrade Reference Table

Product number	Eligible SystemVue "classic" products	Replacement product available?	Replacement product model #	Notes on individual replacement products and obsoleted products
OBSOLETE SystemVue 2007 modules			Replacement models	
W1450L	SV 2007 Professional	Yes	W1461BP	SystemVue Comms Architect (significant upgrade)
W1702L	M-Link	**	—	**Obsolete, but W1461 includes free replacement
W1703L	C-Code Gen (obsolete)	No	—	Obsolete, no direct replacement
W1704L	Advanced C-Code Gen	Yes	W1718EP	C++ Code Generator
W1705L	Automatic Program Generator	**	—	**Obsolete, but W1461 includes free replacement
W1706L	TI interface	No	—	Obsolete, no replacement.
W1708L	HDS HDL Design Studio	Yes	W1903EP	Fixed-Point Library
			W1717EP	Hardware Design Kit
W1801L	Comm Library	**	—	**Obsolete, but W1461 includes free replacement
W1802L	DSP Library	**	—	**Obsolete, but W1461 includes free replacement
W1803L	Logic Library	**	—	**Obsolete, but W1461 includes free replacement
W1804L	RF/Analog Library	**	—	**Obsolete, but W1461 includes free replacement
W1805L	CDMA/PCS is95 Library	Yes	W1916EP	3G Baseband Verification Library
W1806L	DVB (Digital Video Broadcast)	No	—	Obsolete, no direct replacement
W1807L	UWB (Ultra Wideband Library)	No	—	Obsolete, no direct replacement
W1808L	802.11x Library	Yes	W1917EP	WLAN Baseband Verification Library
W1809L	Wireless Network Library	Yes	W1917EP	WLAN Baseband Verification Library
W1810L	Turbo Product Code	No	—	Obsolete, no direct replacement
W1811L	Bluetooth Library	No	—	Obsolete, no direct replacement
W1812L	Adaptive Filter Library	Yes	W1904EP	Adaptive Equalization Library
W1813L	Equalizer Library	Yes	W1904EP	Adaptive Equalization Library
W1814L	Fixed-Point Library	Yes	W1903EP	Fixed-Point Library
W1815L	3G Design Studio	Yes	W1916EP	3G Baseband Verification Library
W1816L	CDMA2000 Library	Yes	W1916EP	3G Baseband Verification Library
W1451L	SV Comms Design Suite	Yes	W1461BP	SystemVue Comms Architect
W1452L	SV HS Comms Design Suite	Yes	W1461BP	SystemVue Comms Architect
W1453L	SV Real Time Comms Design Suite	Yes	W1461BP	SystemVue Comms Architect
			W1718EP	C++ Code Generator
W1454L	SV Real Time DSP Suite	Yes	W1461BP	SystemVue Comms Architect
			W1718EP	C++ Code Generator
W1455L	SV Wireless Design Suite	Yes	W1461BP	SystemVue Comms Architect
			W1916EP	3G Baseband Verification Library
			W1917EP	WLAN Baseband Verification Library
W1456L	University bundle (Obsolete)	No		Re-submit donation request for W2030UT (US) or W1460UN (outside US)
W1457L	SV FPGA Developers Suite	Yes	W1462BP	SystemVue FPGA Architect
W1458L	SV Algorithm Developers Suite	Yes	W1461BP	SystemVue Comms Architect
			W1903EP W1718EP	Fixed-point Library C++ Code Generator

Common questions and concerns

Licensing

The new SystemVue is licensed differently, but in a more standard way. The new licensing provides you choices in terms of securing your new software that are convenient and can reduce the effort required by your IT/EDA department.

Did you know?

SystemVue floating licenses are only 1.3x the price of nodelocked licenses. Therefore, you may be able to purchase a complete annual SystemVue floating license for less per year than the maintenance of competing software, immediately lowering your cost while improving your RF capability and group workflow.

Design files

SystemVue 2011 can import many DLL's exported from SystemVue 2007 as a compatibility bridge. See our video library at www.agilent.com/find/eesof-systemvue-videos for a demonstration of this feature. In general, however, file migration is manual. To ease this transition, dual access to both platforms is provided to supported customers to help them migrate critical designs over a period of time.

Support

Tech Support calls will continue to be answered on the older SystemVue platform for a period of time, especially questions regarding licensing and installation. However, the product will be considered obsolete in the near future and is functionally mature.

Feature coverage

The majority of SystemVue 2007 add-ons are now included with the standard environment. Enhancements to the new platform continue and will soon surpass older capabilities in all but a few areas. The new platform is not a 100-percent superset of the old platform, especially in control-loop and non-communications applications. The feature coverage is pictured in the SystemVue 2007 and SystemVue 2011 visual comparison table as well as in SystemVue 2007 upgrade table.

Can I still buy the old software?

SystemVue 2007 modules are no longer available for purchase, or support renewal. The emphasis is on the new platform. However, for long-term programs please contact your local Agilent EEsof EDA representative for special arrangements.

Video demo online at:

<http://www.agilent.com/find/eesof-systemvue-videos>

Tip: Importing SystemVue 2007 models into SystemVue 2011

SystemVue 2011 includes a feature to automatically import and wrap a symbol around DLL's exported from SystemVue 2007 APG. This allows you to manually bring critical IP into the new platform to take advantage of the new features.

www.agilent.com
www.agilent.com/find/eesof-systemvue

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

Americas

Canada	(877) 894 4414
Brazil	(11) 4197 3500
Mexico	01800 5064 800
United States	(800) 829 4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Other AP Countries	(65) 375 8100

Europe & Middle East

Belgium	32 (0) 2 404 93 40
Denmark	45 70 13 15 15
Finland	358 (0) 10 855 2100
France	0825 010 700*
	*0.125 €/minute
Germany	49 (0) 7031 464 6333
Ireland	1890 924 204
Israel	972-3-9288-504/544
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200-88 22 55
United Kingdom	44 (0) 118 9276201

For other unlisted Countries:

www.agilent.com/find/contactus

Revised: October 14, 2010

Product specifications and descriptions
in this document subject to change without notice.

© Agilent Technologies, Inc. 2010-2011
Printed in USA, February 17, 2011
5990-4770EN

*MATLAB is a U.S. registered trademark of
The Math Works, Inc.*



Agilent Technologies