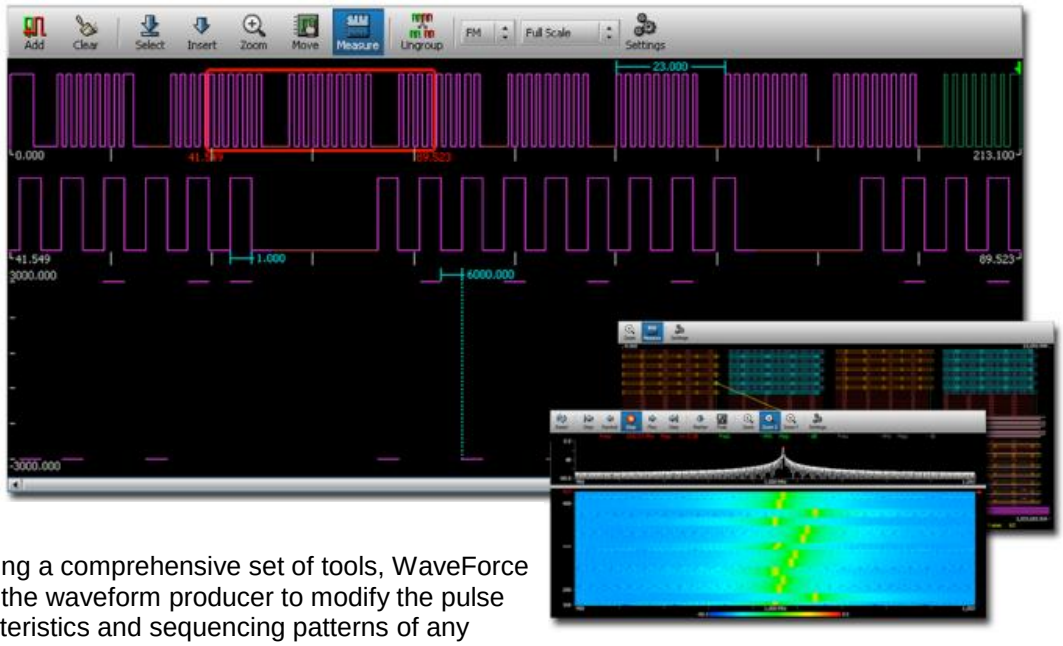
EWA Government Systems, Inc.
"Enabling a more secure future"

WaveForce
Advanced ELINT Signals Visualization Software

WaveForce is a revolutionary software application that is designed to describe RF signal timing, modulation, and sequencing at an unprecedented fidelity. By taking advantage of the intuitive, graphical user interface of WaveForce, the user can quickly and efficiently build accurate representations of very complex signal waveforms and store them in compact digital files. These files can then be transmitted to users who, in turn, are equipped with a single, unambiguous, interactive picture that requires virtually no interpretation.



Providing a comprehensive set of tools, WaveForce allows the waveform producer to modify the pulse characteristics and sequencing patterns of any waveform in a matter of seconds. In addition, WaveForce can produce simple parametric waveform data as well as a variety of derived parameters and statistics based on the sequence pattern of the waveform. WaveForce even has the ability to compare and correlate waveforms with one another to determine whether or not a waveform of interest is unique.

The modular architecture of WaveForce provides the user with the power to directly interface with the underlying data structures, allowing a virtually unlimited import, export, and analysis capability. Users who wish to convert data to a proprietary data format can easily do so by creating a WaveForce plug-in that is loaded at runtime. Likewise, the ability to import data from the same proprietary source, such as a Microsoft Excel spreadsheet, a raw digital data format, or even a hardware interface, can easily be attained in the same fashion.

WaveForce Features

- Unambiguous complex signal representation
- Comprehensive frequency, phase, amplitude and time model
- Intuitive interface
- Interactive displays and audio generation
- Rapid scripting of complex signals
- Unprecedented signal fidelity
- Customizable displays and output
- Analytical pulse to pulse interpolation and pattern recognition
- Flexible parametric analysis and outputs
- Rapid simulator reprogramming capability
- Compatible with existing intelligence data
- Extensible software plug-in architecture

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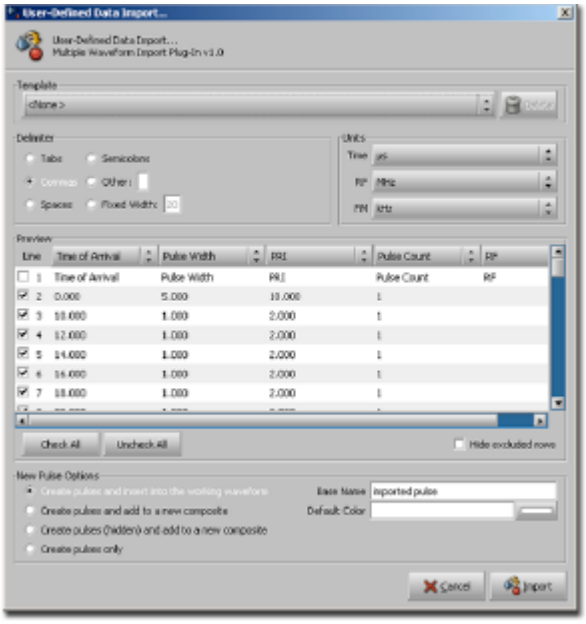

Customize WaveForce to Suit Your Needs

WaveForce has been designed to add customized windows for user-specific data entry and data displays. Wizards can be developed to speed up repetitive tasks for signal building or perform unique functions without altering the core functionality of WaveForce.

Drive Your Stimulator

Speed, accuracy, and ease-of-use make WaveForce a prime candidate for programming your existing or planned stimulator. WaveForce can provide precise pulse level information in timing and RF specifically formatted to meet your needs. Whether you're creating a signal from scratch or pulling from a library of signals, programming your stimulator with the latest information has never been faster or easier.

Show Your Data with WaveForce

Import plug-ins can be developed to convert your data format into data that can be stored and displayed by WaveForce, allowing you to take full advantage of the powerful editing and display features that WaveForce has to offer. Then, if you decide to make changes to the signals that you imported, you can easily export the changes right back into your own format. Also, by saving your data in a WaveForce file, you can then share your data with anyone who uses WaveForce by giving them the portable, compact data file that WaveForce created.

WaveForce Provides Endless Input/Output Possibilities

By taking advantage of the modular plug-in architecture that WaveForce provides, the input and output possibilities are virtually endless. For example, you can import and export your user-specific file formats, define frequency, phase, and amplitude modulation, and create common or algorithmic pulse definitions and sequences

System Requirements	WaveForce Specification
▪ Windows 2000, XP, or later - Solaris 8 or later ▪ 50 MB (Windows) - 150MB (Solaris) of available disk space ▪ 512MB (suggested) or 256MB (minimum) of RAM ▪ 1280x1024 (suggested) or 1024x768 (minimum) display resolution ▪ OpenGL support	▪ 1 nanosecond timing resolution ▪ 1 Hz frequency resolution ▪ Virtually unlimited waveform storage capability ▪ Uses “building block” waveforms to create long sequences ▪ Single pulse width and PRI values of up to 4 seconds

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