

Software Defined Radio & SCA

SVS - SDR Verification Suite

SDR Products and Services

SVS:

- SDR Verification Suite
 - Formerly JTAP
 - Supports SCA-Compliant Development
 - Commercial License and Support
 - SCA v2.0, v2.2
 - SCA v2.2.1, v2.2.2 (soon)
 - STRS Version (future)
 - Portable
 - Configurable
 - User Extensible
 - Windows Environment
 - Graphical User Interface
 - Test Log with Log Levels
 - SVS Consulting and Test Services

SDR Applications:

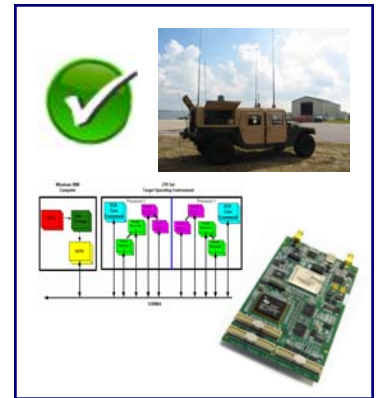
- MIL-STD-188-220
 - B/C Versions
 - D Version (in development)
 - Variable Message Format (VMF)
 - VMF Parser Solution
 - C++
 - Deployed on Aeronix's IDM Product
- WiMAX 802.16 - 2004
 - 802.16e
 - >2000 MPH Doppler
 - GPS Reference
 - Hard-MAC/Soft-MAC Design
 - SCA Compatible

Prior SDR Experience:

- JTAP
 - Sole Developer of JTAP for the JTeL
 - Broad Core Framework Experience
- JCIT Software Defined Radio
 - Joint Combat Information Terminal
 - Naval Research Laboratory
 - Red & Black Processor Modules
 - INFOSEC modules

For nearly two decades, Aeronix has developed and fielded software defined radios and waveform software for the US DoD. Since 1999, the JTRS JPO has relied on our systems engineering support with JTRS/SDR, and we are an active member of both the Software Defined Radio Forum (SDRF), and the Object Management Group (OMG) SWRadio working group.

In addition to SVS, our available products include MIL-STD-188-220/VMF, WiMAX 802.16, and GBS, and we are continuing development of those waveform applications with other DoD and commercial vendors.



SVS: SDR Verification Suite

Aeronix is releasing a new test and verification suite for SDR/SCA developers. Based upon the technologies developed for the JTAP test tool, this commercial version will be available internationally, and will be supported by Aeronix as a commercially-licensed product. It will be available in current SCA-compliant versions, but will also be enhanced to test subsequent commercial and government versions of the SCA.

SVS utilizes a familiar easy-to-use Graphical User Interface, which is completely configurable by test or SCA requirement for the particular SCA Operating Environment under test or development. A structured test tree is generated from XML, and is easily extensible for adding SCA Device or Resource tests, as well as any type of user tests. It provides extensive test log capabilities with selectable log levels.

Aeronix is intimately involved in the evolution of SDR specifications, and plans to provide users with continued up-to-date test tools as these technologies mature. Prices and purchase options will be available soon.

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Aeronix is the sole developer of the JTRS Test Application (JTAP), a software certification suite which exhaustively tests a Software Defined Radio for compliance with the Software Communications Architecture requirements.

The JTAP was developed under contract with the JTRS JPO and the SPAWAR JTRS Technology Laboratory (JTeL), beginning in 2001. Aeronix engineers have been instrumental in testing numerous JTRS radios, as well as commercial SDR Core Frameworks, for compliance with the SCA specification.

Through this work, Aeronix has gained vast experience with the unique challenges associated with the development and deployment of almost all industry Core Frameworks (CF), Object Request Brokers (ORB) and Real-time Operating Systems.

Our experienced team of embedded hardware, DSP, FPGA, and software system designers possess an unparalleled and intimate knowledge of the Software Communications Architecture and its related Software Defined Radio technologies.



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