SCA Standards
for Defense Communications

Global Adoption, Proven Performance

What are SCA Standards?
Standards based on or supporting the Software Communications Architecture (SCA), an architecture framework created to assist in the development of software defined radio communication systems, allowing waveform application software to be more easily ported across radio platforms.*

SCA Benefits
- Proven cost and delivery time advantages through the reuse of waveform software and firmware components within a radio family and across radio vendors
- Enhanced communications interoperability through use of a common waveform application base across multinational coalitions
- Simplified insertion of new communications capabilities in deployed radios including next generation networking, dynamic spectrum allocation and multinational security solutions
- Reduced development risk and time-to-market through an established SCA vendor ecosystem

*For more information on the history of the SCA visit: wirelessinnovation.org/What_is_the_SCA

About the Wireless Innovation Forum Coordinating Committee on International SCA Standards

Do you want to be part of the SCA Ecosystem? Get involved in the Forum’s SCA Committee today:

- Define an industry driven SCA Standards evolution roadmap for the international community
- Profile the SCA specification and related APIs to define internationally accepted variants that are hosted by the Forum
- Develop extensions to the SCA standards that address any gaps between the defined SCA evolution roadmap and Forum accepted SCA specification variants
- Provide implementation and certification guides, tools etc. easing implementation and supporting proliferation
- Facilitate industry led certification programs where appropriate

To learn more, contact Lee Pucker, CEO, Lee.Pucker@WirelessInnovation.org.
We have realized significant savings by leveraging SCA standards across Harris’ military tactical Software Defined Radio (SDR) product lines. The underlying component technology facilitates genuine software reuse, providing development cost and time savings for porting simple legacy waveform applications to porting highly complex networking waveform applications.”

Mark Turner, Harris Corporation

“WeSCA specifications are an important corner stone to SDR standardization and - in combination with an open architecture and near target development platforms - a prerequisite to enable timely and cost efficient porting and integration of waveforms, especially multinational and secure waveforms for combined operations.”

Rüdiger Leschhorn, Rohde & Schwarz

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“Selex ES gained great benefits from the large-scale migration of Software Communications Architecture (SCA)-based techniques into the Software Defined Radio (SDR) range of products. With a mature technology foundation and now ready to enter into the market with very good sales prospects, it provides unprecedented advantages to the customer. These include using the same platform for different radio applications (waveforms and user services), featuring upgradeable and flexible solutions, supporting the rapid deployment of mission-ready systems.”

Fabio Casalino, Selex ES

“ELESSOR Nations and Industries have recognized the outstanding benefit of the SCA as the foundations for the SDR military business. The ELESSOR Architecture extends the SCA in order to facilitate WF portability, addressing secure solutions for a large scope of military waveform applications.”

Ugo Monetti, a-ESSOR SAS

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“SCA-based Development and Manufacturing Centers

• Harris Falcon III Radio Family
• Rockwell Collins/Thales FlexNet
• ViaSat/Rockwell Collins MIDS-JTRS
• Rosyfanö (RT-1987 / ARC231, MAINGATE, NMT, Fab-T)