

WinnForum Members in the SCA Ecosystem

Radio / Application Providers

A4ESSOR
Bharat Electronics
Harris
Hitachi Kokusai Electric
Indra
NEC
Qinetiq
RadmorSA
Rafael
Raytheon
Rohde & Schwarz
Rolta
Selex ES
Tata Power SED
Thales

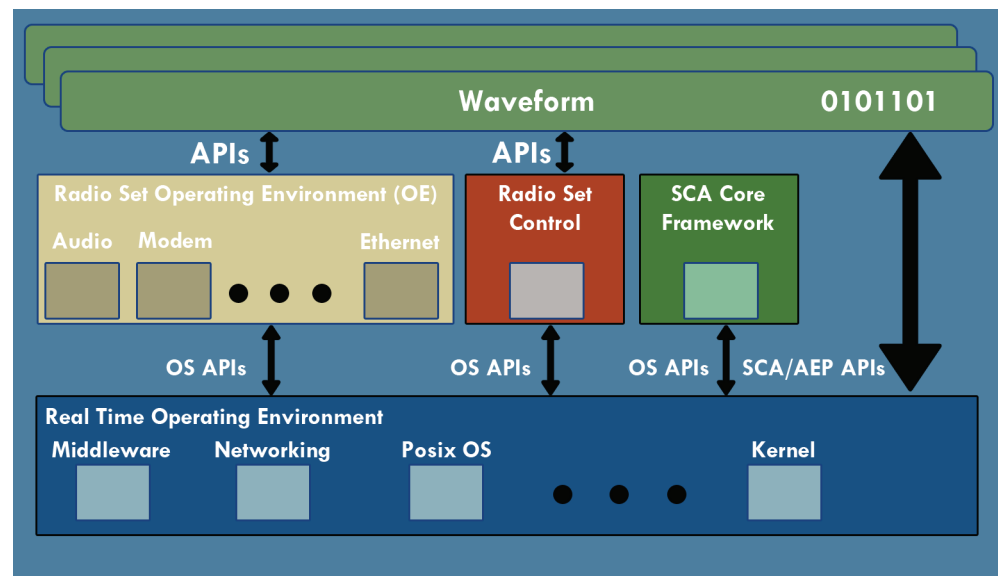
Others

Aeroflex
Coherent Logix, Inc.
Communications Research Centre (CRC)
DataSoft Corporation
Datron World Communications Inc.
Engility
Etherstack
FMV
Fraunhofer
GIRD Systems
MITRE Corp
NCOIC
Nordiasoft
Objective Interface Systems
OMG
Optimum Semiconductor Technologies, Inc.
Reservoir Labs
PrismTech
Space Coast Communication Systems
Spectrum Signal Processing By Vecima
Virginia Tech

Government Agencies

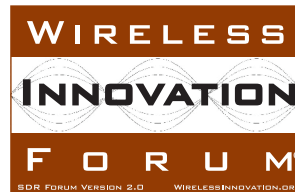
AFRL
CERDEC
DSO National Labs
FMV
SPAWAR

SCA Creation and Management Hierarchy



Source: JTNC

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.

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



"SCA Standards are key success factors for reducing cost in porting common waveforms onto platforms from different suppliers and bringing benefits to radio manufacturers in advancing their product portfolio such as reduced time to market, reduced development costs, and the availability of ported waveforms, therefore providing more options to customers."

David Renaudeau, Thales

Wireless Innovation Forum Coordinated SCA Based Standards Portfolio:
WirelessInnovation.org/SCA_Standards

WirelessInnovation.org

Proven Performance in Deployed Systems

- General Dynamics AN/PRC-154 Rifleman Radios – 19,000 Units Ordered, 190,000 planned
- General Dynamics AN/PRC-155 – 3700 Units ordered
- Harris AN/PRC-117G – 25,000 Units Deployed
- Harris AN/PRC-152 – 160,000 Units Deployed
- Thales AN/PRC148 JTRS Enhanced MBITR – 200,000 Units Deployed



"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



"The SCA 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

"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

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

Ugo Manetti, a4ESSOR SAS

Available Waveforms

SCA Based Waveforms - Deployed*

- Easy II
- FlexNet Waveform
- HAVEQUICK II
- HDR-AJ
- Mobile User Objective System (MUOS)
- PR4G-Fastnet
- SATURN
- Soldier Radio Waveform (SRW)
- Soldier Broadband Waveform (SBW)
- VHF/UHF Line of Sight (VULOS)
- Wideband Networking Waveform (WNW)
- Legacy Waveforms (COBRA, SATCOM 181/182/183/184, SINGARS, EPLRS, JTRS Bowman, Link-16 & HF)

SCA Based Waveforms - in Development*

- Coalition Wideband Networking Waveform (COALWNW)
- ESSOR High Data Rate Waveform (HDRWF)

*These lists are representative, not all-inclusive



Other SCA Based Radios in Deployment

- Harris Falcon III Radio Family
- Rockwell Collins/Thales FlexNet
- ViaSat/Rockwell Collins MIDS-JTRS
- Raytheon (RT-1987 / ARC231, MAINGATE, NMT, FAB-T)
- Rockwell Collins RT-840
- Rohde & Schwarz R&S®SDTR Vehicular Tactical Radio
- Selex ES Swave™ Family (HH, VM-3, MB-1, VB-1, VQ-1)
- Thales (FlexNet, Fastnet, and Nextwave Families)

