

Update on WinnF SDS Committee

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SDS Committee co-chair

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Agenda

About the SDS Committee

- SDS = Software Defined Systems
- Formerly known as the "Coordinating Committee for International SCA Standards"

Highlights on some activities

Conclusions

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About the SDS Committee

Slide 3

SDR Committee Mandate

To support harmonization of the SCA and associated SDR standards at the international level

Through

- Defining industry driven SDR Standards evolution roadmap for the international community
- Profiling SDR Standards to define internationally accepted variants
- Develop extensions existing SDR standards that address gaps in the existing SDR Standards
- Developing work products supporting usage and proliferation, e.g. implementation and certification guides
- Establishing and managing industry-led certification programs where appropriate

For the mutual benefits of all stakeholders

WinnF SDR Standards

Standards serving SDR in the general sense

JTNC-developed Standards

- SCA, 2.2.2 and 4.1
- APIs

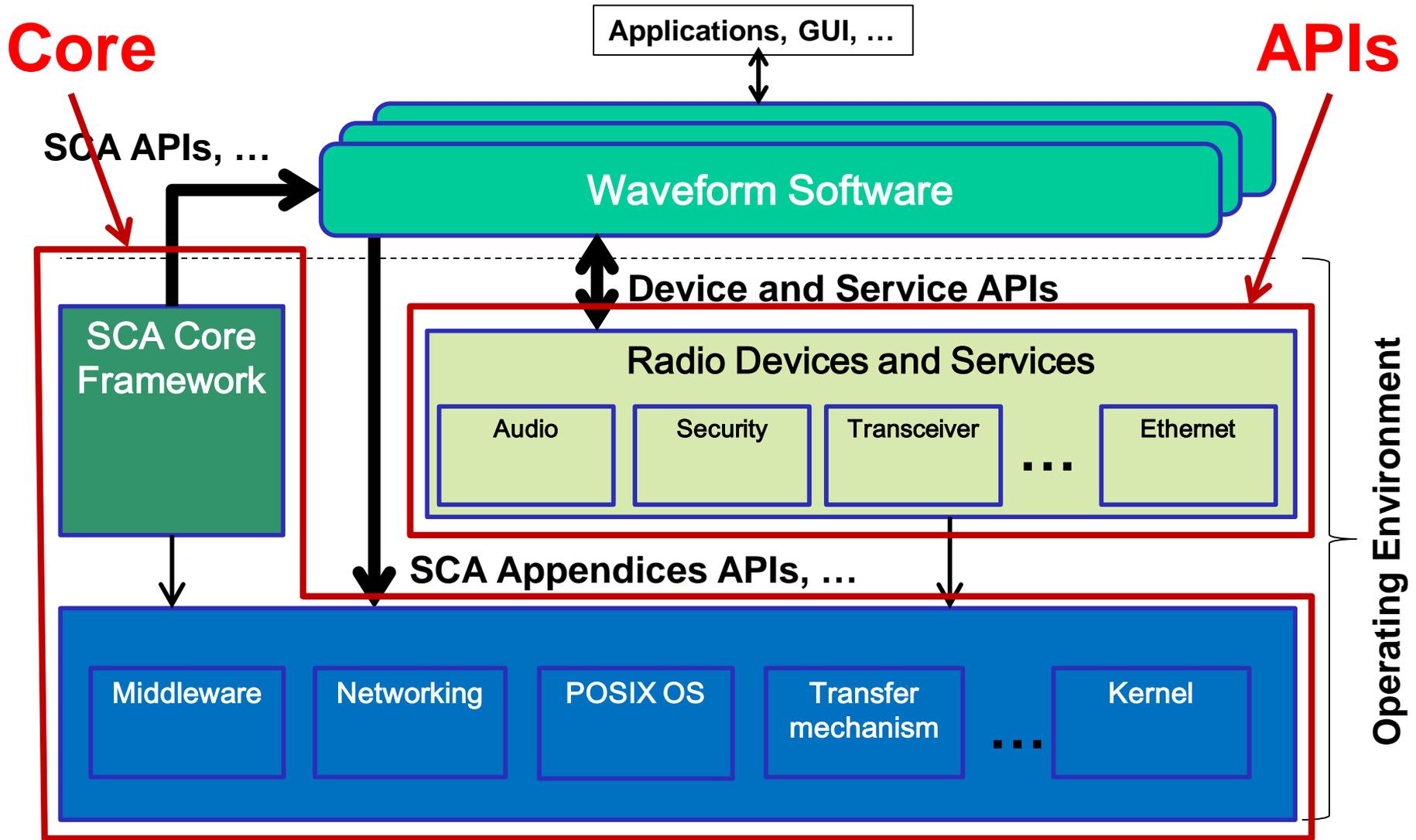


WinnF-developed Standards

- Transceiver Facility (= API + Properties)
- International Radio Security Services (IRSS) API
- (U)Lw AEPs
- PIM IDL Profiles

An Issues Collection Form is available on WinnF website to collect usage feedbacks

Core and APIs Standards



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SDS committee is led by a Steering Group



Highlights on some activities

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SCA 4.1 Verification

Already released

- **SCA 4.1 Compliance Verification**

Coming documents

- **SCA 4.1 Applications Verification Plan**
- **SCA 4.1 Applications Verification Procedures**
- Project started : sept 2017
- Expected deliveries : ~ sept 2018

A consistent suite of standards for SCA 4.1 compliance verification emerges

- Openly elaborated within WInnF
- With direct involvement of a breadth of MoD and Industries stakeholders, incl. JTNC

Transceiver Facility V2

PIM Specification (main document)

- Released Jul 2017, outcome of Transceiver Next project
- Technology-agnostic API with extensive behaviors
- Extensive set of standard Properties for portability
- Harmonized views across EU and US / CAN stakeholders

Native C++ and FPGA PSMs

- In finalization, exp. ~ Jul 2018
- Enabling hybrid heterogenous developments
- Extensive specification of header files for easier usage

SCA and Native C PSMs

- Under development, exp. ~ Dec 2018
- Extending coverage to mainstream SCA and most constrained environments

Energy Management API

A new WinnF SDR Standard

- Enabling SDR Applications to better take advantage of the power saving capabilities available on hosting radios
- First release expected around Summer 2018

Enlarged the scope of the SDS Committee

- New feature compared to "classical" APIs
- New participants to the Committee's activities

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Time Services Facility

Currently getting started

- Project name: Harmonized Time Services
- Target work product: WInnF Time Services Facility
- First meeting to take place soon (matter of weeks)

Building on the success of Transceiver Facility V2

- Harmonization
- PIM / PSM specification approach
- Standard Properties specification

Main focus

- Leveraging US, ESSOR and GE backgrounds plus industry experience on Timing Service (« what time is it?»)
- Filling existing gap on Timer capabilities (« wake me up!»)
- Fixing overlaps between API and AEP

Conclusions

Conclusions

The SDS Committee actively works and delivers

- Suite of specifications supporting SCA 4.1 verification
- Facility standards
 - Transceiver Facility V2
 - Time Services Facility
- Energy Management API

Some new challenges

- Furthering a SDR Standards Usage and Certification agenda
- Encourage prototyping of developed Standards
- Supporting NATO in implementation of its Waveform Policy
- Exploring emerging opportunities, e.g. relative to better spectrum usage thanks to emerging DSA practices

Future events (save the dates!)

- WInnComm 2018: 12-15 Nov 18, Melbourne, FL (USA)
- WInnComm Europe 2019: 13-16 May 19, Berlin (Germany)

Thank you for your attention
Questions?

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