



# EDA SDR CONFERENCE

## Tuusula, Finland 17.-18.11.2009



# Standardization



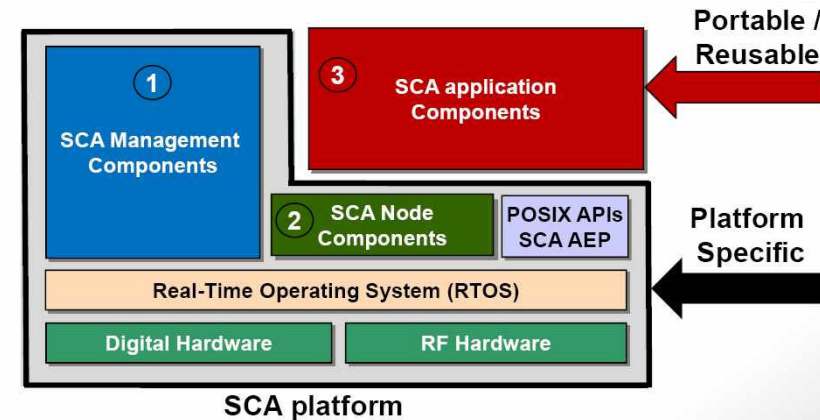


# SCA – near future co-operation



## 1 RTOS Middleware

1. The aim for standardisation co-operation should be as uniform SCA standard as possible between different domains and SDR programs



Source: SMI SDR Conference 2009, Steve Bernier, CRC

## 2 3

2. Common APIs are **critical** for waveform portability

- Radio Device APIs
- Radio Service APIs
- Radio Security Services APIs

3. Processes and defined steps towards common standards and common standardization

→ INTEROPERABILITY IN COMMON OPERATIONS





# ***SCA – mid to long term co-operation***



**Future development of SCA is evident:**

- **Need for backward compatibility for waveforms**
  - **Waveform lifecycle is obviously longer than platforms**
- **Development in electronics and sw-engineering will provide new technical solutions**
- **Need for cost effectiveness**

**This workshop is excellent forum for discussions of possibilities to do co-operation between all participants being present at this workshop.**

**→ INTEROPERABILITY,  
→ COST EFFECTIVE WAVEFORM DEVELOPMENT  
→ COST SAVINGS**





## ***SDR STANDARDISATION CHALLENGES***

- How to achieve and maintain interoperability?
- How to achieve portability?
- How to increase cost efficiency while technology evolves?
- How to organize international SDR standardization?





## ***STANDARDS***

- Interoperability standards
  - WF and Applications related
- Implementation standards
  - SCA + possible extensions
- Security
  - Holistic view
- Others





# Three categories of SDR "standards"



INTERNATIONAL  
ACTOR

MULTINATIONAL  
PROJECT / VIRTUAL  
OFFICE

INDIVIDUAL  
NATIONS

Unclassified information  
and unlimited distribution of  
SDR standards

Unclassified information but  
controlled and limited  
distribution of SDR standard

Classified information,  
controlled and nationally  
limited distribution of  
SDR standard

SCA 2 2 2 release

ESSOR add ons

Coalition WFs

Security and Crypto APIs

JTRS

SVFuA

Standardisation fora



National authorities



Defence Command Finland  
C4 Division (J6)  
Col Tapio Halkola

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## ***FUTURE STEPS***



- EDA prestudies on standardisation possibilities and future actions
- Discussions

