



EDA Ad Hoc Working Group (WG) on SDR Standardization Strategic Guidance (SDR SSG)

Outline

- Reference scenario for European SDR standardization;
- Elements of the EDA SDR SSG;
- A close look at the Rules and Principles for Military SDR Standardization;
- A closed look at “Work Plan”;
- Conclusions.

Reference scenario for European SDR standardization

European SDR standardization

Incremental approach EDA prospective

Stage 3

Create and promote an
international standard
defined by European Nations and USA

Stage 2

Create a European Community for SSDR
crystallized on ESSOR and SVFuA SW
architecture
and
Create a North-America Community for SSDR
crystallized on JTRS architecture

Stage 1

Internal consolidation of
ESSOR and Germany
Architecture

SDR Standardisation roadmap



Elements of the EDA SDR SSG

Why creating the EDA Ad Hoc WG on SDR SSG

1. To define and promote a common European Defence position on SDR SW Architecture standardization ;
2. To promote excellent working relation with the most important SDR stakeholders, in order to ensure portability and interoperability of the various SDR products;
3. To allow the best possible coordination among the “Participants” in the various forums dealing with SDR SW Architecture standardization.

The ultimate goal is a worldwide harmonization

Participants

As **Participating Members (PM)** of the SSG WG:

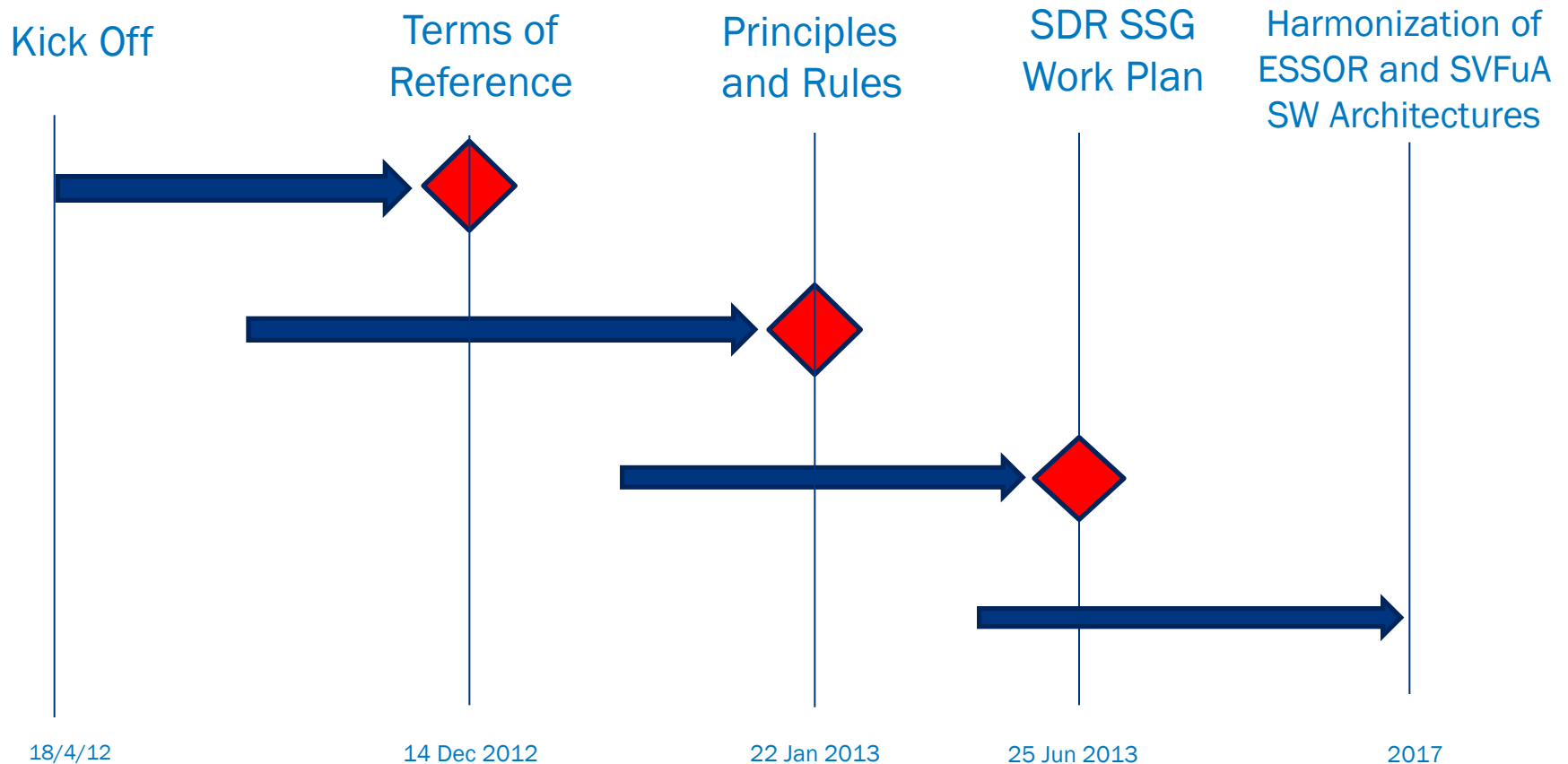
- Representative of EDA involved in EU SDR domain
- Representatives of nations:
 - Finland, France, Italy, Poland, Spain and Sweden involved in ESSOR program;
 - Germany involved in SVFuA program;
- Representatives of OCCAR managing the ESSOR program;
- Representatives of industries involved in above programs.

As **Invited participant** is a representative who can be invited by PM (e.g.: NATO, EC, WINNF, US JTRS), but it is not a member of the group.

Scope and objectives

- Identify/define items to standardize;
- Identify/define the global framework of the standardization including interfaces (e.g. NATO, WINNF, US JTRS) and policies;
- Identify/define harmonized Rules and Procedures to achieve the SDR SW Architecture Military Standard taking into account the MODs' requirement to maintain control on the process.
- address any financial resources associated with tasks' accomplishment.

EDA SDR standardization Strategic Guidance WG (Roadmap)



Participants: EDA, ESSOR Nations and Germany (both governments and industries) OCCAR.

A close look at the

Rules and Principles for Military SDR SW Architecture Standardization

The SCOPE of the military standardization of the SDR software architecture is

to promote the portability of different waveforms (WF) to different Software Defined Radio (SDR) platforms in order to pave the way for interoperability in the military domain.

The requirements expressed in terms of Principle and Rules should be used as a base to produce the management and the change control processes of the selected Standard Developing Organization (SDO).

The selected SDO will be in charge to issue and maintain the configuration control of the future military SDR SW Architecture Standardization, but it must guarantee that the requirements are fulfilled and the rules are enforced throughout the standardization process.

PRINCIPLES

- Each Contributing States (CS) shall be empowered to decide on the information produced;
- The distribution of military information shall be controlled;
- Decision making processes shall be clearly identified and based on consensus;
- The standards produced by the standardization activity shall fulfil all the requirements needed to be proposed as a NATO STANAG.

RULES

- Each CS shall be able to represent all and/or part the other CS plus the associated industries;
- Each CS shall be able to call for a closed meeting in the SDO;
- Each CS shall be able to participate to any meeting in the SDO;
- The final standardization document shall be approved by the CS based on consensus;
- Any change in the approved standardization documents shall be approved by the CS based on consensus;
- Distribution of the Standard (part open to public, part restricted to authorized parties only) shall be approved by the CS based on consensus;
- SDO shall support the possibility to have classified meetings;
- SDO shall have the knowledge to produce a standard document that is in line with the NATO STANAG requirements.

A close look at the

Work Plan

According to the TORs of the SDR SSG Ad Hoc WG, **the purpose of the work plan** is to describe, as detailed as possible, all activities necessary to achieve a European military SDR standard.

Two kinds of activities are considered in this plan:

- **The technical activities**, which aim is to build the common technical specs for the European SDR Architecture, using the ESSOR and the SVFuA SW Architecture as a starting point;
- **The activities related to the custodianship model**, which will investigate what kind of standardization (eg.civil, military, etc) the different stakeholders want to achieve and its scope (basket #1, basket #2...), and also the most convenient body to conduct it.

The writing of this document is still in progress

Harmonization of the ESSOR and the SVFuA SW architectures

WHAT? WHERE? WHEN?

Harmonization of the ESSOR and the SVFuA SW architectures

WHAT?

- ❑ ESSOR Nations and Germany have already started exchanging some information about their respective architectures;
- ❑ some key elements for an initial collaboration have been identified in the area of:
 - Core Framework
 - Operating Environment (OE)
 - Radio Devices (RD)
 - Radio Services (RS)
 - Radio Security Services (RSS) ?

Harmonization of the ESSOR and the SVFuA SW architectures

WHERE?

- ❑ OCCAR will initially play a role (*sometimes starting from 2nd half of this year*);
- ❑ Standard Developing Organization (Not yet identified)

Harmonization of the ESSOR and the SVFuA SW architectures
WHEN?

Mid 2014 – 2017 (TBC)

Conclusions

EDA Strategic political goal



EDA consider of paramount importance to create a strong and compact **European SDR military dimension.**



Thank you for your attention!