Approach towards SDR
European Certification
for the benefit of military users

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EDA
1. The EDA
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1 - The EDA a new tool: Place within «institutional triangle»

European Council

Head of States

European Council

Council of the EU

Ministers

Decides

EDA

General Secretary

EUMS

Defence Ministers

1 - political instrument
2 - catalyst
3 - proposal’s force

Commission

Parliament

Proposes and manages

Controls
1-The EDA a new tool: Mission and Functions

Under the control of the Council

➢ “To support the Council and the Member States in their effort to improve European defence capabilities in the field of crisis management and to sustain the ESDP as it stands now and will evolve in the future”

➢ Four functions

1. Developing Defence capabilities
2. Promoting armaments co-operation
3. Strengthening the DTIB, and supporting the creation of a competitive EDEM
4. Promoting collaborative defence research
1-The EDA a new tool: Organisation chart

HR Dr. Solana
Head of EDA

Nick Witney
Chief Executive

Dr. Linnenkamp
Deputy CE

Plans & Policy

Media & Comm

Capability Directorate
Armament Directorate
Research & Technology
Industry & Markets
Corporate Services
2 - Introduction
Military capabilities and SDR

- FLEXIBILITY
  - Soft transition from Legacy Tactical Radios
  - Reconfigurability (WBWF, LPI WF, Local Frequencies)
  - Improved Interoperability (Coalition WF, Civ Actors)
  - Portability of the WF
  - Dynamic upload of WF (WF repository)

- New Combat Capabilities
  - IED, Eves Dropping ....
  - SDR Cognitive techniques
  - Open approach
2 - Introduction

SDR Landscape

USA

JTRS program in progress (JPO, JTEL, SCA, SDR Forum)

+ Partnership from MIDS with European Mod: DE, ES, FR, IT

NATO SRUG

EUROPE

Military SDR

EDA PT SDR including follow-on of LoI CRT 6 Activities

Security SDR (*European Commision*)

EC WINTSEC (Security Users Group) and Follow on Studies

Mass Market SDR related activities (*European Commision*)

E2R, R&TTE directive, etc...
2 - Introduction
Joint Civ/Mil EU SDR Endeavour

- DG InfSo
- DG Enterpr
- EDA
- PT SDR
  - Industry
  - Nat. Military SDR Projects
    - Industry
    - SDR Forum
    - NATO

SDR Security Referential

SDR Related Projects in ESRP (FP7)

WINTSEC
EDA SDR

Military Information Assurance

ESSOR

Interoperability
Development of European secured software defined radio referential

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1 – What are we talking about?

What is Certification?
- The whole process aiming at verifying the compliance of systems (networks, devices, T&E processes…) against relevant standards

What is Qualification?
- The whole process aiming at verifying the performance of systems against customer’s other specifications
2 – The Vision

- Fulfil military requirements, particularly:
  - interoperability (international coalitions, Mil. & Homeland security)
  - high security of information in severe environment
- Considering the specific aspect: “Software”
- WF portability (European, NATO, US …)
- Support European DTIB in the domain
3 – Means

- Use common existing referential (SCA for OE)
- Develop European standards as appropriate (standardisation of APIs)
- Network of pMS and EU T&E capabilities
- Modular approach
4 – Challenges

- Consistency and convergence between different SDR certification initiatives
- What do we need to standardize?
- Articulation with US certification (JTEL)
- Optimized European certification capability
- Organisational approach (Commission, EDA, pMS)
More information?
www.eda.europa.eu