

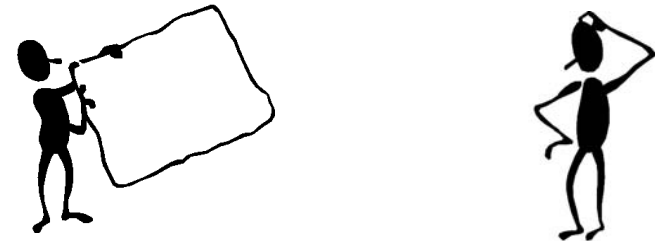
ADCSS 2011 Workshop FDIR Session – Round Table

FDIR Session Objectives

1. To evaluate **issues, shortcomings, challenges** of the current FDIR Development and V&V Practices



2. To evaluate **state of the art approaches** offering effective solutions



3. To identify **common core areas** and agree on **way forward** how to address them.



1. Lack of principles to **guide FDIR engineering process** - fitting FDIR concept to mission goals and objectives to FDIR goals, Fault tolerance, FDIR architecture and risk posture etc.
 - a. FDIR concepts and specifications in many cases **are missing**.
 - b. For similar missions and mission goals FDIR concepts and specifications **are diverged**.

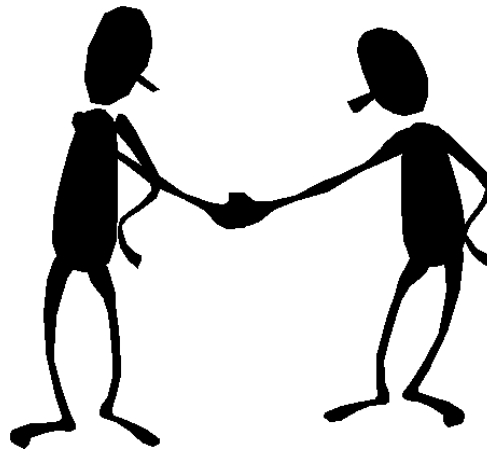
(notions of Failure Levels, FDIR Levels, HW Alarms are used but often lack consistency. FDIR strategy are linked to Failure levels but has very many exception rules).

2. Who is **responsible** for FDIR engineering. Do we need it ?
 - a. No identified FDIR responsibility exists.
3. Does **advanced techniques** and **emerging technologies** in the DHS, AOCS and SW domains impacts FDIR concept and design with a new perspective ?
4. Today's **FDIR engineering techniques** are sufficient ?
5. Does FDIR domain needs a **generic set of requirements** which can be elaborated and instantiated ?
 - a. Is it desirable to promote ***FDIR functional requirements*** instead of ***Design implementation requirements*** ?
 - b. What Operators and Designers would like to see as FDIR requirements from customer side (simplicity, variability etc).

Conclusions



Thank You !



Round table conclusions will be forwarded to SAVOIR.