





- 1- REASONS AND GOALS
- 2- DIFFICULTIES & SOLUTIONS
- **3- METHODS**
- **4- SECURITY TARGET**
- 5- RESULTS & CONCLUSIONS







1.1- IMPLEMENT "ON-SITE SECURITY".

- "Physical Environmental" Security.
 - -> Access control, Secure storage, ...
- "Information System" Security.
 - -> Configuration, Firewall, Access control, ...
- Security Policies, Procedures and Practices.
 - -> Security Management, Security Measures.
- Training & Education.







1.2- OFFICIALLY RECOGNIZED SECURITY.

- Compliance to recognized Standards.
 - -> Common Criteria (CC).
- Compliance to "Recommendations" used by the Industry.
 - -> Protection Profile (PP/9806).
- Conducted under Official Certification Scheme.
- Possibly Certified Activity after Evaluation.







1.3- KNOWLEDGE & EDUCATION ON COMMON CRITERIA.

- Deploy the aim and scope of the CC Standard to employees.
- Training to the security requirements and measures.
- Learning processes during the evaluation phase.







1.4- CHALLENGING THE SECURITY & CONTINUOUS IMPROVEMENT.

- Identification of what need to be secured & of the Threats.
- Implementation of a "Security System".
- Maintenance Program.







1.5- RECOGNITION OF EMPLOYEES WORK.

- Reporting during evaluation process.
- Audits.
- Certification.
- Recognition from Management.
- Recognition from CUSTOMERS.







2.1- TOE SELECTION & SECURITY TARGET

- TOE is a "physical" feature: "Development Environment".
- Common Criteria are applicable to Information Technology.
- Environment of the TOE is the Environment of the "Development Environment".

- TOE is the "Development Flow": Production Flow,...
- "Development Flow" is using Information Technology.







2.1- TOE SELECTION & SECURITY TARGET

SOLUTIONS (Ct' d):

- TOE Environment is the environment in which the "Development Flow" is taking place.







2.2- CC & INFORMATION TECHNOLOGY

- Common Criteria are applicable to Information Technology.
- Security Requirements dependencies.

- Keep focus on the evaluation goals: "Development Environment".
- Clearly identify the IT of the TOE and its boundaries.
- Limit the list of selected Security Requirements only to those mandatory for the security.







2.3- INFORMATION SYSTEM & NETWORKING

- Usually, the "IS" of "Development Environment" is huge.
- Usually, links to other networks exist.

- Clearly identify the IT of the TOE and its boundaries.
- Limit the application of CC to this part of the "IS".
- Move other part of "IS" into the TOE Environment: Can be covered with Security Procedures.







2.4- CC & ASSURANCE MEASURES

- Some Assurance Measures may be difficult to apply to a TOE that is of a "System" type ("Development Environment"). Ex: ACM_CAP.1 Version Numbers.

- Partnership with Certification Body and with Evaluation Laboratory.
- Use the "concept" and methodology of the CC and not the "basic requests" from the CC wording.







2.5- SUSTAINING A PRODUCT EVALUATION

- Evaluation of a product issued from this "Development Environment" may be needed.
- Product Evaluation have security requirements to the Environment.

- Use existing Protection Profile, that product evaluation may claim for: PP/9806,...
- Validate and introduce the requirements on the Environment into the Security Target of the "Development Environment".







- 3.1- Implement Working Groups.
- 3.2- Train Working Groups:
 - To Common Criteria.
 - To Security.
- 3.3 Write Security Target and Documentation:
 - CC documentation.
 - "Company Documentation".







- **3.4 Implement Procedures:**
 - Policies.
 - Specifications.
 - Security Measures.
- 3.5 Evaluate as per CC.







4.1- TOE & TOE ENVIRONMENT DESCRIPTION.

4.2- ASSETS:

- From the TOE.
- Used by the TOE.

4.3- ASSUMPTIONS:

+ Assumptions for conformance to "Product PP".

4.4- THREATS:

+ Threats for conformance to "Product PP".







4.5- ORGANIZATIONAL SECURITY POLICIES.

+ OSP's for conformance to "Product PP".

4.6- SECURITY OBJECTIVES:

- IT Security Objectives for the TOE.
- Non-IT Security Objectives for the TOE.
- Security Objectives for the TOE Environment.
- + Security Objectives for conformance to "Product PP".

4.7- SECURITY REQUIREMENTS:

- TOE IT Security Functional Requirements.







4.7- SECURITY REQUIREMENTS (Ct' d):

- TOE NON-IT Security Requirements.
- TOE Environment Security Requirements.

4.8- TOE IT ASSURANCE REQUIREMENTS:

+ Augmentation (if claimed).

4.9- SUMMARY SPECIFICATION:

- TOE Security Functions.
- TOE Assurance Measures.
- Non-IT Security Measures for the TOE.
- Security Measures for the TOE Environment.







4.10- PP CLAIMS.

4.11- RATIONALE.







- 5.1- IT IS POSSIBLE TO USE CC FOR SITE OR ENVIRONMENT EVALUATION.
- 5.2- AT THE CONDITION THAT "IT" IS AVAILABLE INSIDE THE TOE.
- 5.3- NEED TO CAREFULLY SELECT THE TOE.
- 5.4- KEEP FOCUS ON THE GOALS OF THE PROCESS » SITE, ENVIRONMENT.
- 5.5- GOOD PROCESS FOR IMPLEMENTING & CHALLENGING SECURITY.







- 5.6- IS BETTER IF MAINTENANCE PROGRAM IS FORESEEN.
- 5.7- LIGHTENING ANY FUTURE EVALUATION ON PRODUCT.









