

# Common Criteria Certification in the UK

7<sup>th</sup> ICCC – Lanzarote – September 2006

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# Agenda

- Overview of UK CC scheme
- Other assurance services provided by CESG
- Enhancements to provide a wider view of assurance

# The UK Scheme (1)

- Established 1991 - to enable system & product evaluations
- Internationally recognised Certifications
  - For developers who need a formal, internationally-recognised verification of their product's security feature claims
- Independent testing laboratories (Commercial Evaluation Facilities - **CLEFs**) carry out evaluations
- **Certification Body** (CB), based at CESG, oversees and certifies all system and product evaluations in the UK
- On successful completion of an evaluation, a formal assurance level and a certificate are awarded; results may be published in Certification Report on CESG website and CC website

## The UK Scheme (2)

- CB provides the Scheme Infrastructure
  - Criteria (CC, ITSEC, SYS, FTA, TAS), methodology, procedures & rules (UKSPs), interpretations
- Scheme rules cover
  - quality and management
  - security / confidentiality
  - evaluator training
  - appointment and accreditation of CLEFs
- Parties involved in Evaluation
  - Developer, Sponsor, Evaluator, Certifier, Accreditor

## The UK Scheme (3)

- Certification services on cost recovery basis
- Commercial labs conduct evaluation
- Total to date 75 products certified EAL1- EAL5
- 4 CLEFS accredited (reduction from 5 last year)
  - LogicaCMG
  - EDS
  - BT
  - SiVenture

# Current Business

- 10 products currently undergoing CC Evaluation
  - Networking products
  - Telecommunications switches
  - Access control products
  - Firewalls
  - Secure application delivery products
  - Miscellaneous products for military systems

# Trends

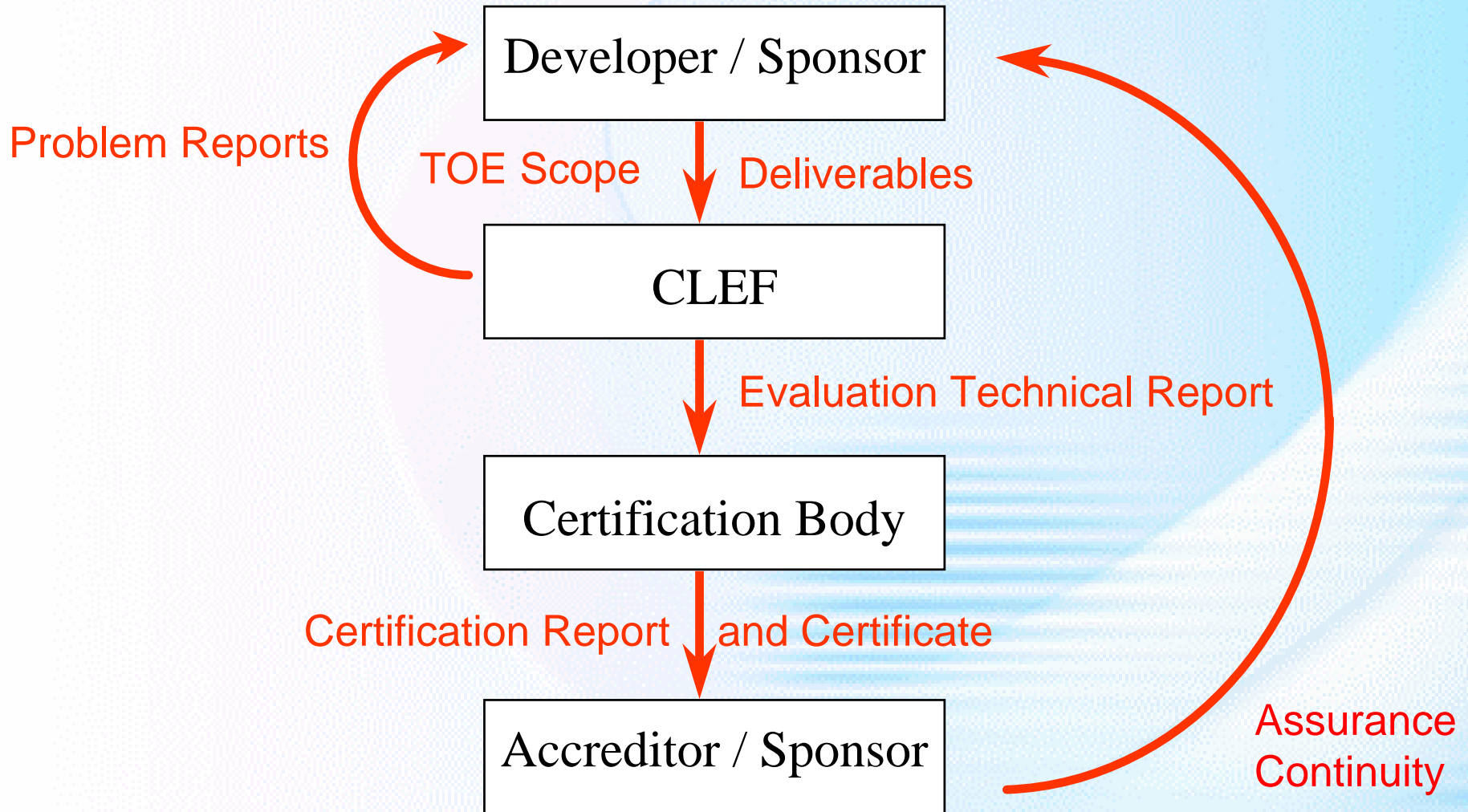
- Apparent increase in interest in UK Common Criteria certification and in demand for evaluations this year.
- Typically elapsed time for evaluation is 6 months, but dependent upon:
  - priority placed on evaluation by sponsor and CESG
  - resource availability
  - size, scope and complexity of evaluation
  - issue of timely and correct deliverables

# UK CC Review

- Evaluation and certification processes reviewed and re-engineered in 2005
- New processes now implemented for new tasks
- ST agreed before moving to full evaluation
- TOE scope aligned with how we would expect the product to be used by the end-user community
- Scheme documentation has been updated
- Business processes being re-engineered to increase efficiency
- Typically 20% reduction in certification costs with no reduction in effectiveness



# IT Security Evaluation and Certification (Evaluation Process)



# Other CESG Assurance Services

- IA Consultancy (in-house and through industry partnerships (CLAS))
- CAPS (Cryptographic Consultancy and Evaluations )
- Tailored Assurance Service (TAS)
- Evaluations and Conformance Testing
- TEMPEST Certification
- IT Security Health Check and CHECK – penetration testing
- CESG Intrusion Detection Services (CIDS)
- Portfolio of services grouped under (Information Assurance and Consultancy Services) IACS

# Why is a wider view of assurance required?

- Rapidly changing IA environment
- Increasing customer demands
- Technology changes
  - Rapid development cycles
  - Widespread interconnection and unclear system boundaries
  - Networks and systems
  - Frequent patching in response to vulnerabilities
- Complement the role of traditional formal evaluations
- Require better support to customers and accreditors
- Wider responsibilities for ensuring assurance

# How could a wider model look?

- Provide a holistic and lifecycle view of assurance to enable all aspects to be considered in gaining confidence in the security of a product or system
- Help determine where assurance effort should be put to yield maximum benefit, and which elements are not under our control and pose least risk
- Build on the value of a formal evaluation
- Helps identify requirements for ongoing operational lifecycle assurance
- Encourages developers and users to take greater responsibility for security

# Contact Details

CESG Assurance Services are happy to provide more information on any of the CC Scheme Certified products and Certification Services:

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