

TURKISH COMMON CRITERIA EVALUATION & CERTIFICATION SCHEME

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SPEAKER



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- Worked as an assistant and a researcher about Computer Hardware and Networks in Middle East Technical University.
- Worked as a certifier of electrotechnical equipments and devices in Turkish Standards Institution(TSE).
- Still working as the head of certifiers in Turkish Common Criteria Certification System (CCCS) in TSE...



AGENDA



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- INTRODUCTION
- PROGRESS REPORT
- CURRENT STATUS
- EXPECTATIONS
- CONCLUSION
- Q&A



INTRODUCTION



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- Turkish Common Criteria Evaluation & Certification Scheme has an history which began at 2001.
- Interested parties in the Scheme is;
 - Turkish Standards Institute,
 - The Scientific and Technological Research Council of Turkey,
 - National Resarch Institute of Electronics and Cryptology,
 - Turkish General Staff,
 - Various developers,
 - Consumers,
- Common Criteria Certification System (CCCS) is currently working as Certification Body which was established according to the requirements defined at CCRA, EN 45011, CCMB procedures and national regulations.
- Before defining CCCS briefly lets talk about the CC progress in Turkey.



PROGRESS REPORT (1/4)



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- In 2001,
 - Turkish General Staff (TGS) initiated the Common Criteria programme for Turkish Armed Forces (TAF);
 - ✦ The aim was to establish a CC scheme for Software or Hardware products which had been developed by TAF or which was procured by TAF.
 - ✦ According to the programme, an institute under The Scientific and Technological Research Council of Turkey (TUBITAK) called National Research Institute of Electronics & Cryptology (known as UEKAE) was going to set up the evaluation facility and an approval authority inside TGS would validate the evaluation results.



PROGRESS REPORT (2/4)



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- In 2003,
 - Common Criteria Evaluation Facility (known as OKTEM) was established under TUBITAK UEKAE.
 - TGS recommended to extend the scope of the test center with also commercial products.
 - Turkish Standards Institute (known as TSE) was designated as the Certification Authority for commercial CC evaluations.
 - Turkey has signed the CCRA as a certificate consuming nation.
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PROGRESS REPORT (3/4)



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- In 2005,
 - Turkish Standards Institute, which was established by law, has formed a Certification Body.
 - The military scheme runned by TGS and the commercial scheme runned by TSE was combined. TSE was the only CB inside the Turkish Common Criteria Scheme and TGS was only the approval authority for certified products.
 - However, the scheme was not working as properly as it was planned.



PROGRESS REPORT (4/4)



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- In 2007,
 - TSE, TGS and TUBITAK UEKAE has accepted that the first attempt for national CC scheme has going to fail if the necessary precautions will not taken by interested parties.
(next slide lessons learned)



LESSONS LEARNED



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- The first problem was establishing the evaluation facility instead of establishing the Certification Body in the national scheme.
 - Normally the certifiers needs to be much more experienced then evaluators. Although in the first attempt we honestly can not achieve this goal.
 - OKTEM has been accredited according to ISO/IEC 17025 by Turkish Accreditation Authority without a temporary licence from CB or sample evaluation under CB.
- TSE was the national certification authority by law and was conducting certifications according to various ISO and national standards. However information security is relatively a new area for TSE and they have some security flaws also.
- We also has faced with marketing difficulties. The companies in Turkey is not so different from their foreign sisters. Thats why they were so sad when we tried to add new costs to their budgets.



ACTIONS TAKEN (1/2)

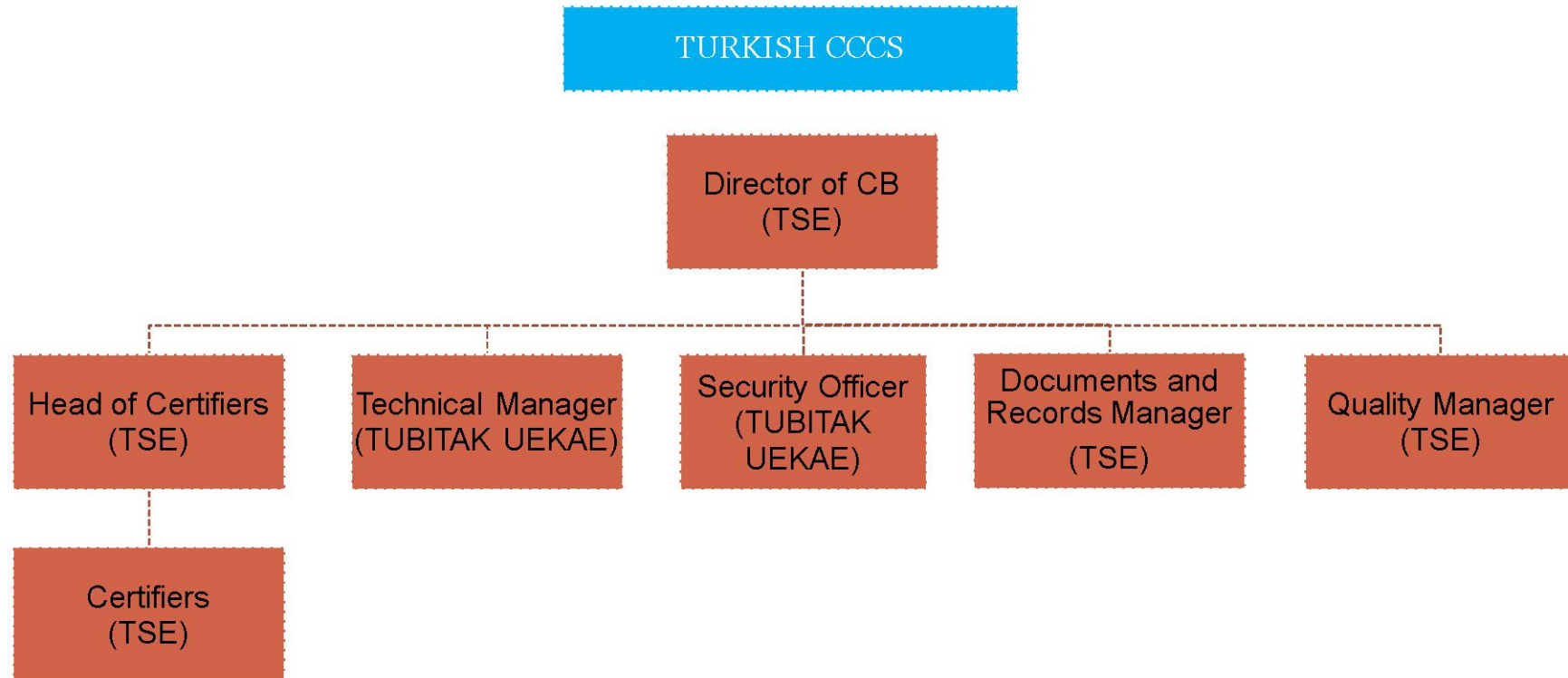


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- First of all a new perspective has been defined for Turkish CC Scheme.
 - As you all know, NIST and NSA has formed a validation body called NIAP. In our case we decided to solve the know-how and security awareness problem of former CB by forming a new entity called Common Criteria Certification System.
 - A collaboration protocol has been signed at December 7th between The Scientific and Technological Research Council of Turkey (TUBITAK) and TSE.
 - According to the protocol, TUBITAK UEKAE will going to take a role under Common Criteria Certification System. It will support TSE by supplying technical know-how and necessary security awareness.
 - The new body was aiming to use certification infrastructure of TSE which has an accreditation according to EN 45011 and the experience of TUBITAK UEKAE in CC.
 - TUBITAK UEKAE will assign a security officer and a technical manager for Common Criteria Certification System and a secure working place for CB. The employers assigned for CB is working under a director in TSE. This was an important clause in the protocol because of the conflict of interest problem may arise.

ORGANIZATION CHART

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ACTIONS TAKEN (2/2)



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- The new CB formed according to the protocol, had updated the scheme procedures and policies.
- A secure office has been established in order to handle sensitive data.
- OKTEM has been licenced according to their CC knowledge proved by their former evaluation experiences.
- CB decided to promote two products which will apply for EAL3 and above evaluations.
- Applying for a status update at CCRA in the first quarter of 2009 is accepted as the main objective for the scheme.



CURRENT STATUS



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- We proudly announce that we have a running CB named Common Criteria Certification System established by both TSE and TUBITAK.
- We have an accredited and licensed evaluation facility named OKTEM.
- Three formal application taken and two of the evaluations has started. (one EAL4+ and one EAL3+)
- Negotiations with more than six products is going on.



CURRENT STATUS (SUMMARY)



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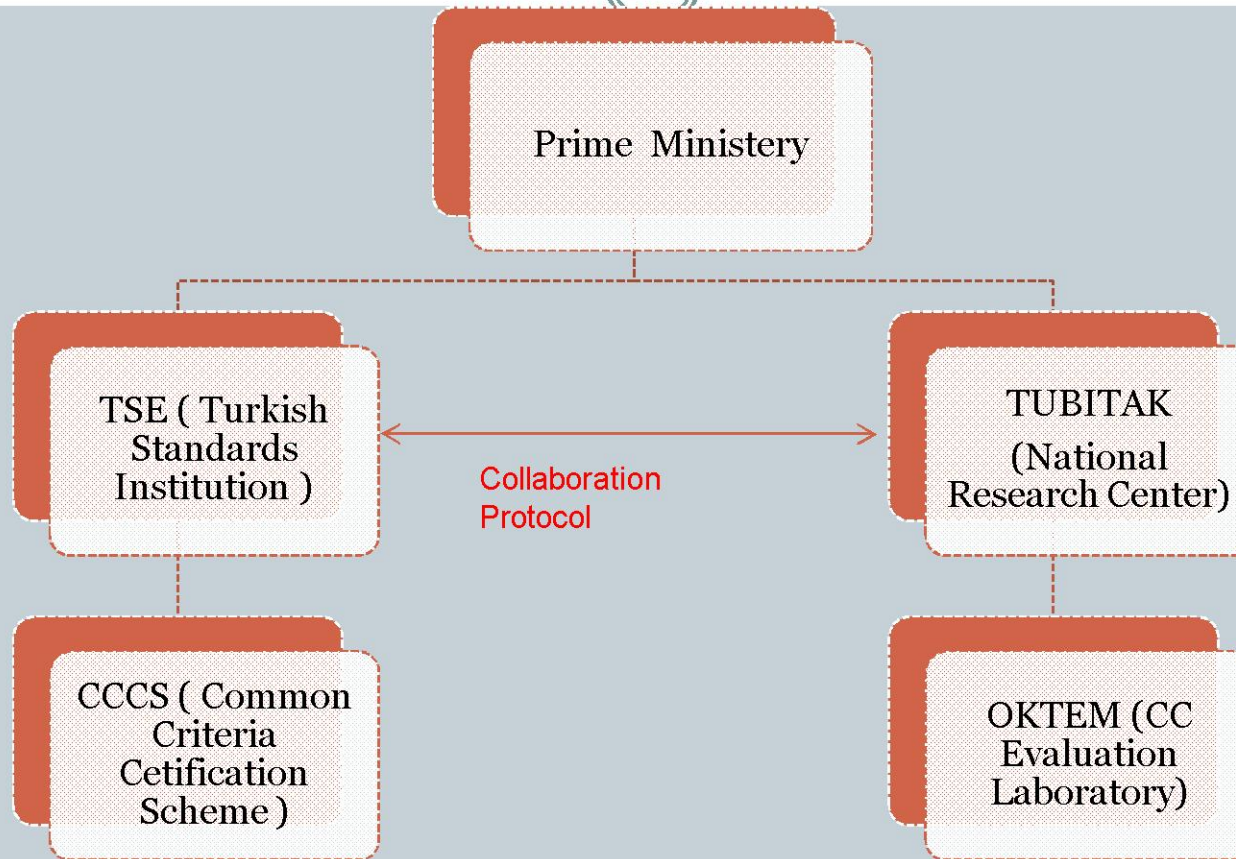
- CCCS
 - ✓ Staff, docs and procs in place.
 - ✓ Three certification running.
 - ✓ EN45011 accreditation workings close to completion.
- LAB
 - ✓ OKTEM got licence from CCCS.
 - ✓ EN 17025 accreditation completed from Turkish Accreditation Body (TURKAK)
 - ✓ Two evaluations are close to completion.
 - ✓ About 6 evaluators in the Scheme



GOVERNMENTAL CONTEXT



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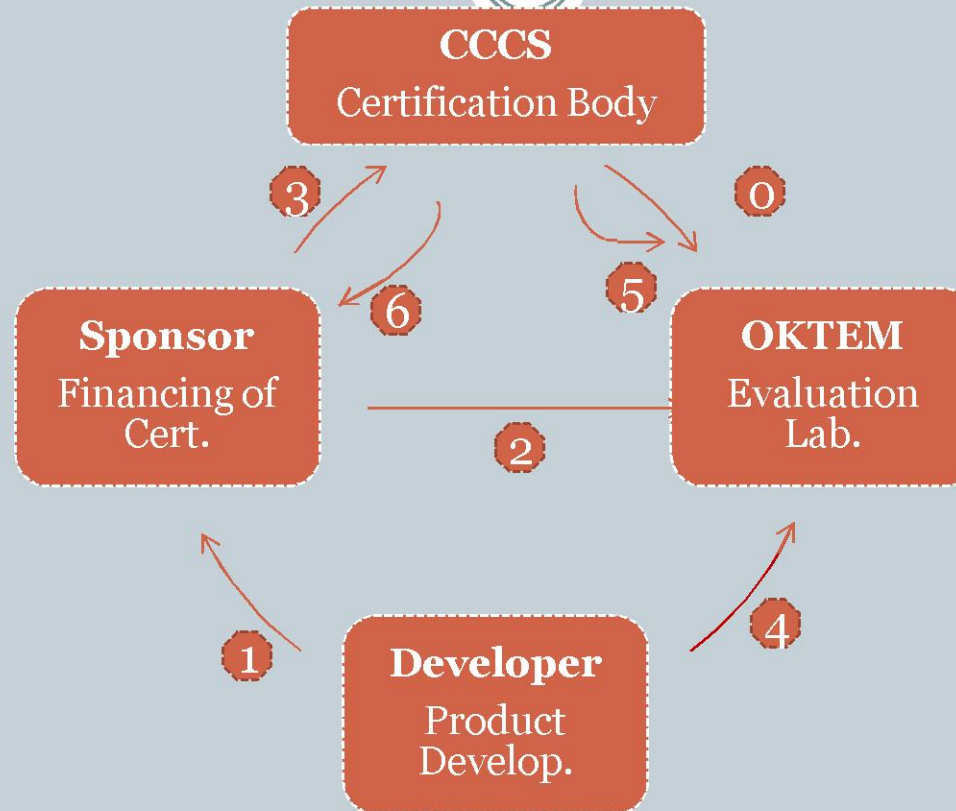




TURKISH COMMON CRITERIA EVALUATION&CERTIFICATION PROCESS



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0 Licensing
1 Agreement
2 Orders Evaluation

3 Certification Application
4 Product&Documentation
5 Evaluation Reports

6 CC Certificate



EXPECTATIONS



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- The first TOE at EAL4+ is a Security Gateway and the evaluation according to CC v2.3 is going to finish around February 09.
- The second TOE at EAL3+ is a Public Key Infrastructure CA and the evaluation according to CC v3.1 is going to finish around January 09.
- If the evaluations will ended as scheduled we are going to apply for a status update April or May 09.



CONCLUSION



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- The CC adventure of Turkey was a long journey.
 - Some steps took too much time,
 - Some steps took too much energy,
 - Some steps took too much money,
- Now we believe that we had a an experienced evaluation facility and strong well organized open scheme which can handle evaluation applications and new evaluation facility applications.
- We would like to take your critics, opinions and advice in addition to your questions.
- Thank you for your time and interest.



THANKS FOR YOUR ATTENTION



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Q&A's ?

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