

# Foundations of Computer Security

## Lecture 79: Security Target Example

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# Example ST: Sun Identity Manager

Sun Java System Identity Manager is a product for managing user access privileges stored in directory services. Evaluation to EAL2 performed by Cygnacom in summer 2005.

## Assumptions

- OE.NoUntrusted: no untrusted users on the system
- OE.Time: the OS has reliable time stamps

## Threats

- T.BadPasswords: users may have selected guessable passwords
- T.Abuse: authorized users perform bad actions
- T.Mismanage: administrators don't manage security well
- T.Privil: unauthorized user gains access
- T.Undetect: attack attempts go undetected
- T.Walkaway: a user leaves workstation without logging out

## Security Objectives for the TOE

- O.ManagedData: store properties of users
- O.PasswordGen: support automatic generation of passwords
- O.PasswordQual: specify password quality parameters

## Security Objectives for the Environment

- OE.Time: the underlying OS provides reliable time
- ON.NoUntrusted: the administrator assures no untrusted users or software on the host

## Security Requirements

- (21 requirements from CC relevant to this type of product)

## TOE Summary

- Mapping of security requirements to subfunctions
- Assurance measures provided by the vendor (CVS listings, product documentation, vulnerability assessment)

## Rationale: how threats are countered

- e.g., T.BadPassword is countered by O.PasswordGen and O.PasswordQual

- A Security Target is a specific system or class of systems submitted for evaluation.
- The policy may be specified “fresh” or as previously evaluated protection profiles.
- The idea is to specify what security means for this product and how the product enforces that notion of security.

**Next lecture:** Common Criteria Evaluation