



TACAR Repository Backend

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**Massimiliano Pala
Politecnico di Torino**

- TF-Emc2 Meeting -



TACAR Repository

- TACAR repository based on FileSystem
 - Access is provided to web browsers only
 - Changes need operator(s) work
 - Suitable for small number of certificates

- A database to support the repository could:
 - Ease TACAR Repository management
 - Allow to provide access through other protocols
 - Allow for search facility to be added to TACAR

- LDAP as database backend



LDAP for TACAR

- LDAP deployment in two phases
- Phase One
 - Defining the Schema to be used
 - Setting up the LDAP server
 - Developing the web interface to LDAP
- Phase Two
 - Adding a public LDAP server
 - Tuning the system
 - Adding web-based administrative interface for repository management (if needed)



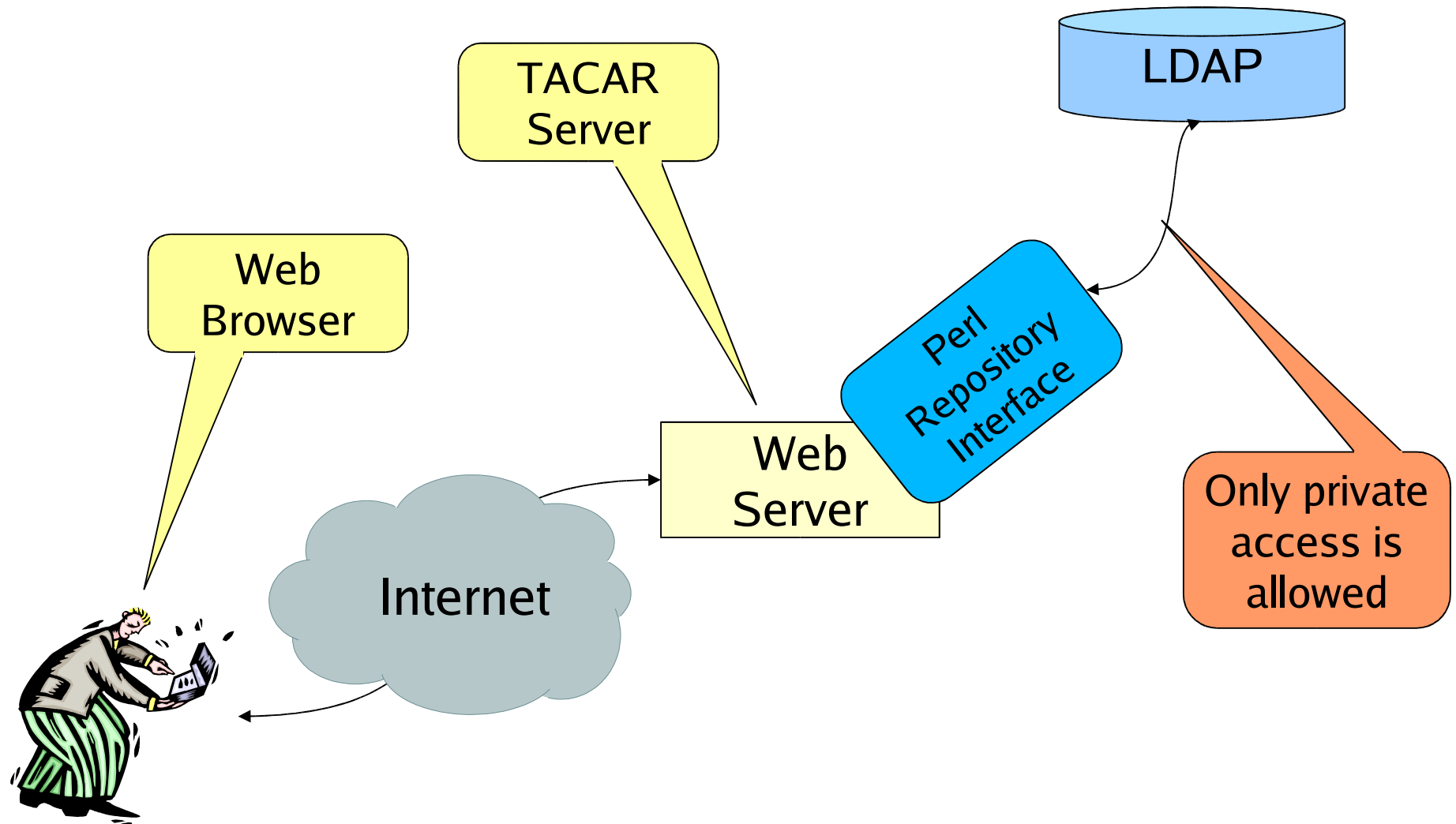
Phase One

- **LDAP configuration design**
 - **Server available only from TERENA web server**
 - **BaseDN: <none> ???**
 - **Schema Used: <cosine.schema> ???**

- **Web Interface development**
 - **PERL based interface**
 - **Tools for automatic web list generation**
 - **Dynamic vs Static page generation (???)**



Phase One Design





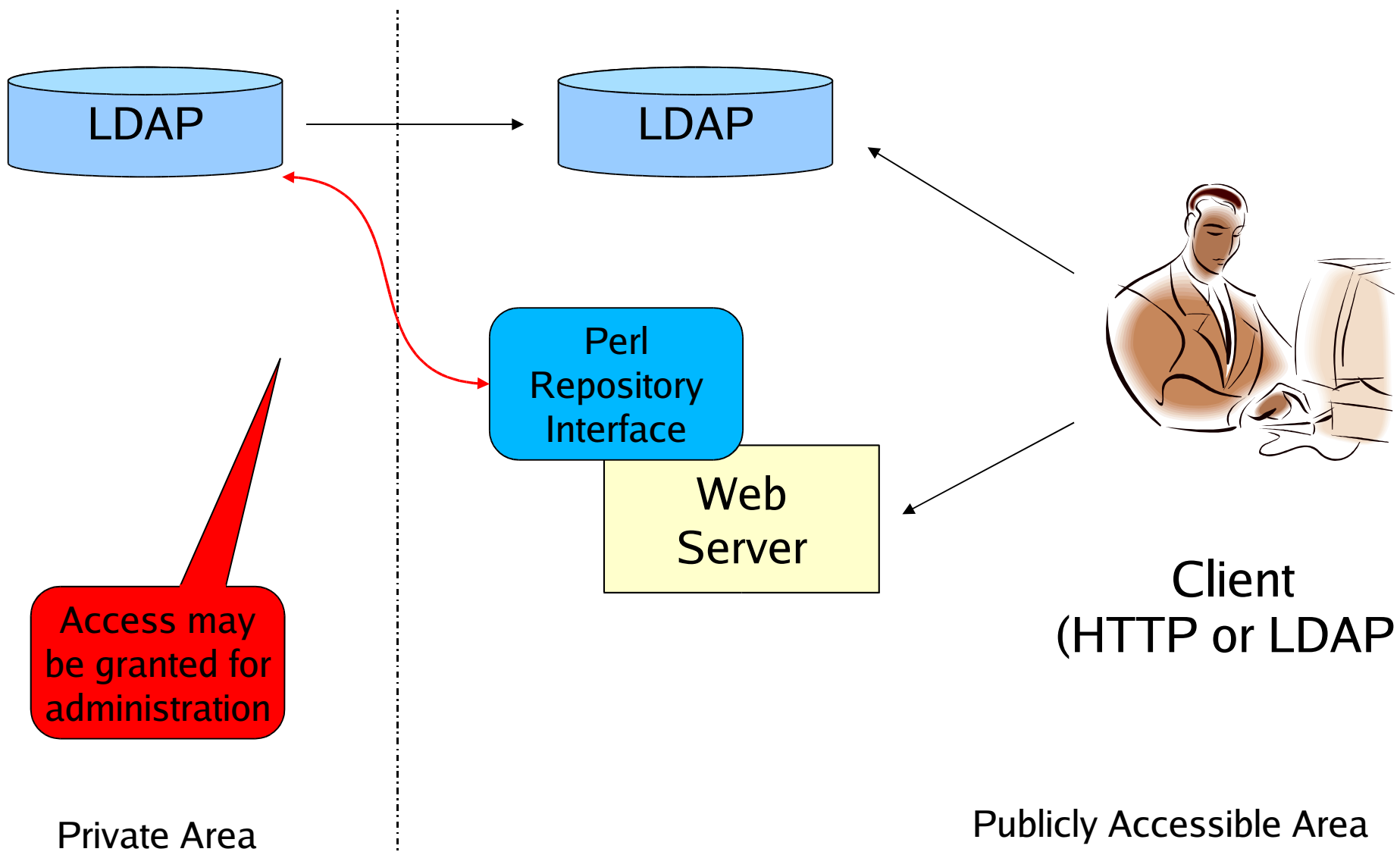
Phase Two

- **Slave LDAP server setup**
 - **Read-only access**
 - **Publicly available**

- **Adding LDAP references and client configuration to TACAR web server**



Phase Two



Access may be granted for administration

Private Area

Publicly Accessible Area



Project Timetable

- **Phase One**
 - **Optimistic deployment by the end of the year**
 - **Should be completed within the end of January 2005**

- **Phase Two**
 - **Should an LDAP access be provided to public clients?**
 - **Optimistic deployment before TNC2005**



(Possible) Future Work

- **Provide access to the repository via new protocols (i.e. draft-ietf-certstore)**
- **Support for LDAP certificate parsing server**
 - **sits between administrative client and LDAP server**
 - **parses certificates and CRLs and adds the subordinate entries from attribute values**
- **Suggestions ?**