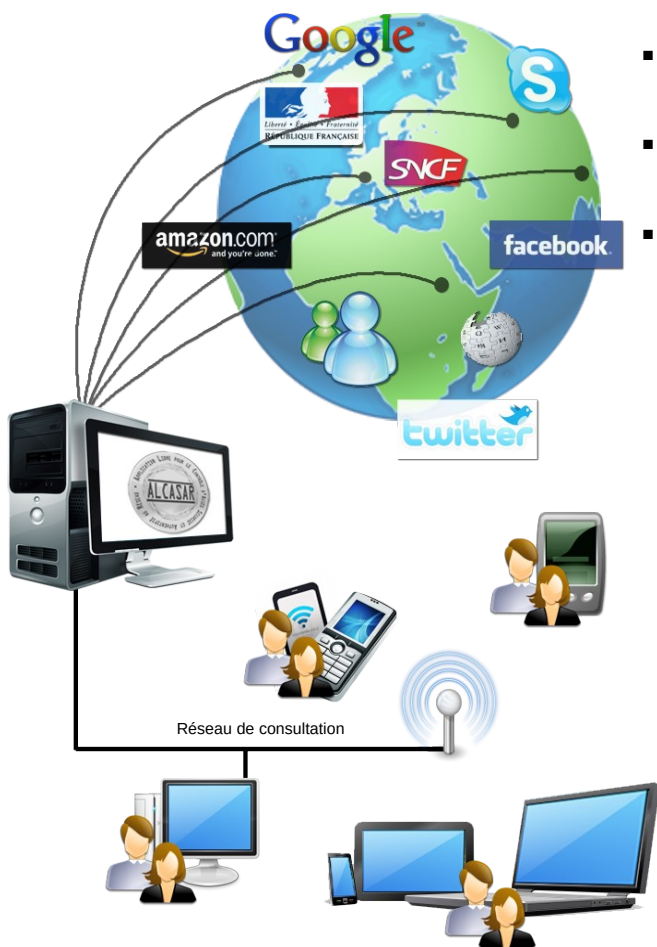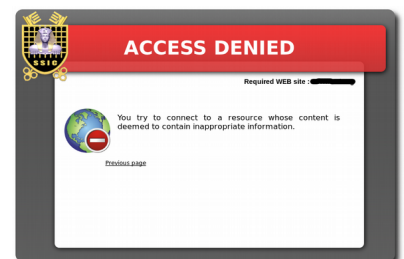# ALCASAR

A secured Network Access Controller (NAC)

ALCASAR is a Network Access Controller which controls the Internet consultation networks. It **authenticates**, **attributes** and **protects** users' access regardless their connected equipment (PC, tablet, smartphone). It includes network filters per users complying various needs especially **for institutions welcoming young people**. **In France** and in Europe, ALCASAR allows people in charge of consultation networks to meet the **laws**.

- **To authenticate and control accesses**

- **To trace and impute while respecting privacy**

- **To protect and filter flows per users**

- **Free & open source**


Réseau de consultation

Users authentication page in 8 languages
(en, fr, de, es, nl, pt, zh, ar)

Sites filtering

ALCASAR can be easily installed on a small computer including two network cards. It's positioned between Internet and a consultation network. This portal is totally **independent** for both ISP's equipment and consultation network access technologies (WIFI, PLC, Ethernet, etc.). The equipment connected on the consultation network can be any type (PCs, mobile phones, tablets, game consoles, etc.). They require **no changes** in their configuration. An installation's documentation is supplied to allows a **simple** and **quick** deployment.
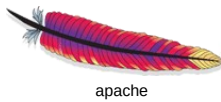
The main page allows users to log-off, to change their password and import the security certificate into their browser. It allows administrators to manage, in a secure way, the portal via the **Alcasar Control Center** (ACC).

ALCASAR components

- A small PC with two network cards
- Secured Linux operating system
- Dynamic firewall and filtering router
- Intercept gateway (captive portal)
- DHCP and DNS servers
- Authentication, authorization and accounting server (radius)
- Database management system (for users base)
- Can be connected to external directory servers (LDAP or A.D.©)
- Web antivirus
- Time server
- Scripts to deploy, update and manage it
- Secured WEB control center :
  - Management of users and users groups
  - Filters management (protocols, domains, URL)
  - Backup of logs files
  - Network flows report
  - Security report
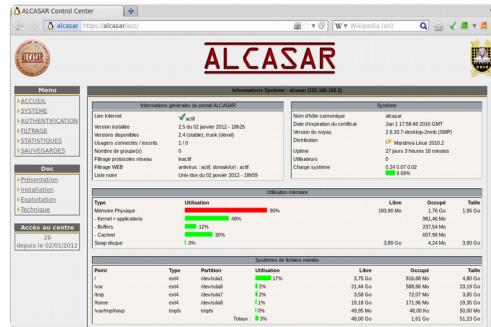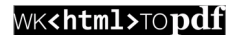
School/parental filtering functions

To meet the requirements of organizations welcoming young peoples, ALCASAR includes a filtering system by user (blacklist and whitelist) :

- Filtering based on Toulouse University list. On ALCASAR, this filter operates both on name resolution process (DNS) and on WEB browsers requests ;
- Filtering search engines and YouTube results filter;
- Filtering of network protocols.

DansGuardian

Respects the French and European laws

- European Directive 2006/24/CE about data retention.
- French law N°2004-575 consolidated in 19/05/2011 for the trust in numerical economy (resume in this document of the French Security Agency - ANSSI).
- French decret N°2011-219 about retention and communication of data that should identify somebody who has contributed to create online data.
- Accounting compliant with needs of CNIL and CERTA (CERTA-2008-INF-005).
- Recommendations of the French security agency "ANSSI" (security pen-test).

OpenSSH

More information on www.alcasar.net