

The Etel Project

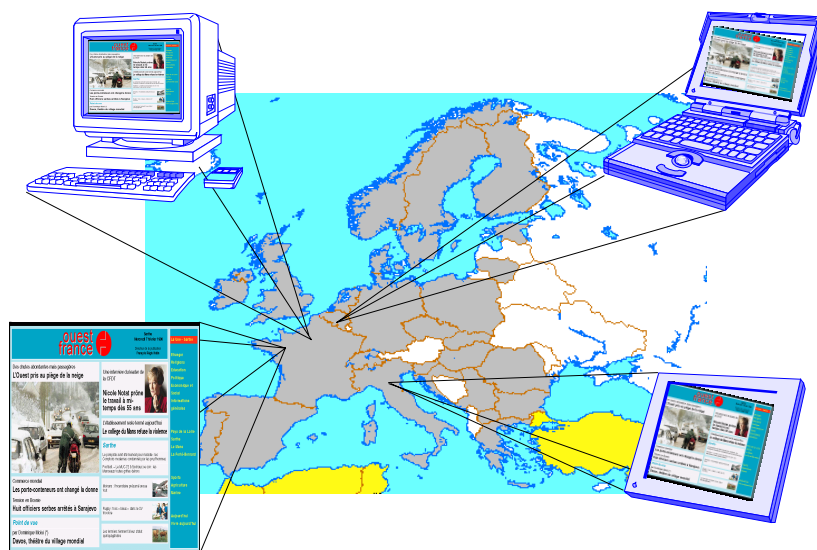
Solidor research group

IRISA / INRIA-Rennes

(<http://www.irisa.fr/solidor/work/etel>)

Industrial partners: Ouest-France, T&C Multimedia, O2-Technology

The Etel Newspaper Service



Quality of Service From the Client Perspective

☐ Comparison with the paper version

➔ Access quality

- Security
- Availability
- Responsiveness

➔ Content quality

- PDF Format
- Presentation close to the paper edition

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Quality of Service From the Server Perspective

☐ Security

- Authentication
- Secure communication

☐ Availability

- Accessibility
- Fault-tolerance
- ➔ Replication, distribution, caching

☐ Responsiveness

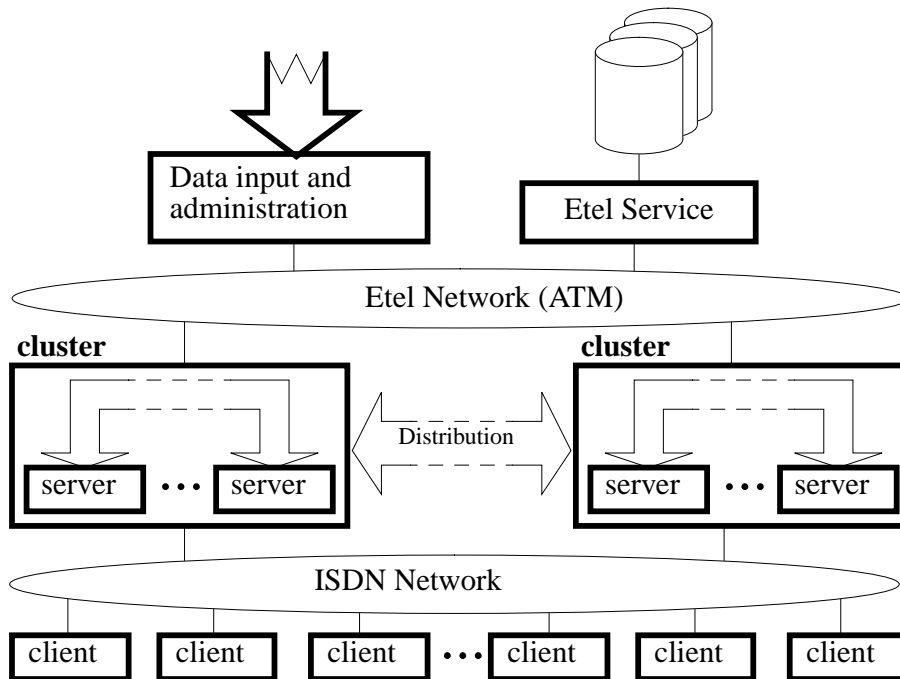
- Bounded response time

☐ Scalability

- Guaranteed QoS in the presence of a large number of users and of a large data base

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The Etel Architecture



Dealing with Responsiveness and Scalability

Design and implementation of dedicated system mechanisms based on the **users' profiles** from the perspective of their access patterns

- Client site
 - Profile-based predictive prefetching
 - ➔ Responsiveness
- Server site
 - Profile-based load balancing
 - ➔ Responsiveness and scalability

The Etel Prototype

Current prototype

- ❑ Centralized version
- ❑ Automatic production of the electronic edition from the paper version

Dealing with quality of service

- ❑ Content quality
 - Edition customization
- ❑ Access quality
 - Integration of profile-based predictive prefetching
 - Integration of profile-based load balancing

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The Etel Service and Internet

Using Etel as a distributed information system

- ❑ Content quality
 - Information content moderated by professional editors
- ❑ Access quality
 - Extension of profile-based mechanisms for ensuring responsiveness and scalability

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Etel++

Enhancing Etel using the FollowMe Environment

- ❑ Distribution over the Internet
- ❑ Accessing the service from a variety of devices
- ❑ Dealing with user mobility
 - ▣ Profile information not attached to the user's site
 - ▣ Migration of the information according to the user's location
 - ▣ Information customization based on the user's location (theatre programs, ...)

▣ These issues will be solved using the FollowMe environment (Agent technology, Location service, ...)