

# BUILDING A NATIONAL TELEPATHOLOGY NETWORK

## A web-based collaborative server for pathologists

**Continuous improvements in image digitalization and teletransmission techniques led to setting up a network designed for specific Pathologists needs. The system is based on an intercommunication server which uses standard Internet protocols. The server is also a portal giving access to different services useful to routine and research Pathology. The ADICAP server is located at CRIHAN.**

### Data format and exchange protocol

Intercommunication between heterogeneous systems is handled through an XML-like formatted file within a dedicated folder designed by ADICAP, CRIHAN and eight different image workstation industrial providers

Transmission uses Internet communication protocol (TCP/IP) and his suite of standard applications.

### Features

Access via ISPs or direct ISDN dialup to the server

Easy navigation through file structure using a standard www interface

Confidentiality

Security and control mechanisms for incoming and outgoing files

Memorization and backup of exchanged data

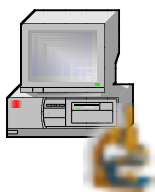
### New features soon to be implemented

Server usage statistics

Links to other medical activities

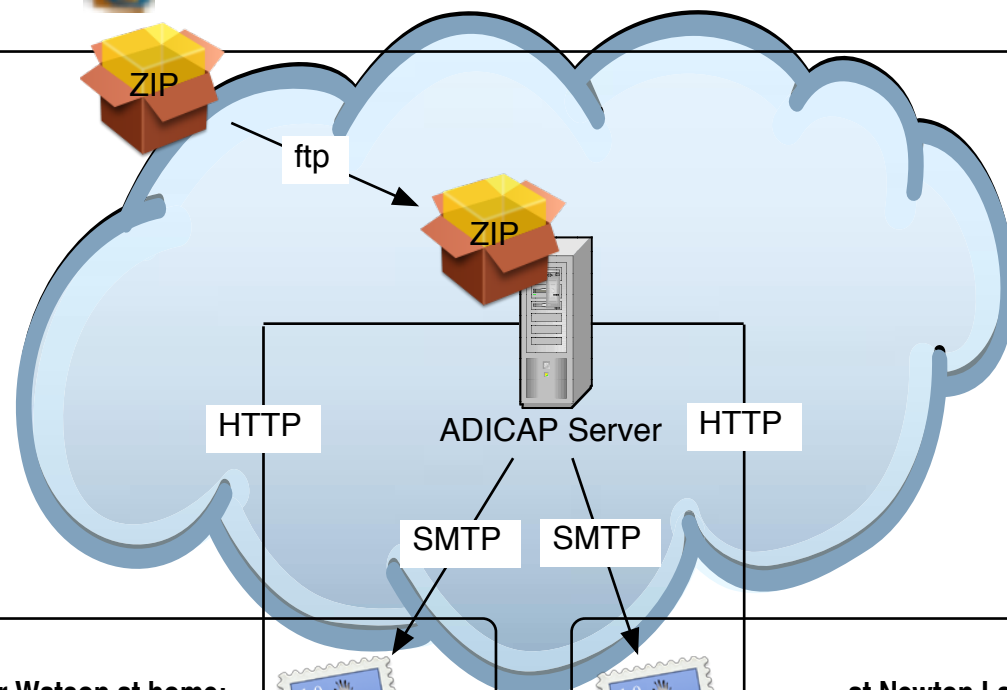
Portal to several databases for quality evaluation and training

Free software allowing the on-line creation of an ADICAP structured folder (OpenCaseMaker)



**Wilson Hospital requests an expertise from Dr Watson and from Newton Lab:**

Within his imaging application, pictures and an HTML-coded description file are collected and archived in a single compressed zip file, which is then transferred using the ftp protocol to the ADICAP server



### Dr Watson at home:

Recipient is notified via email then accesses the file using a standard web browser and sends back his answer



### at Newton Lab:

Recipient is notified via email then accesses the file using a standard web browser or his proprietary medical imaging application



He sends back his answer

Furthermore, he can download the file to reuse it in his own database

**Today, more than 250 private and public departments of Pathology, mainly in France (550+ users) are using the ADICAP-CRIHAN server, mostly for exchanging image files for a second opinion or for scientific protocol in Cytology, in Pathological Anatomy and in Haematology.**

**Use of this server could be extended to any European pathologist if needed.**