

Electronic Document Handling

webEDH

**Per G Jönsson AS-SU-EDH
1999**

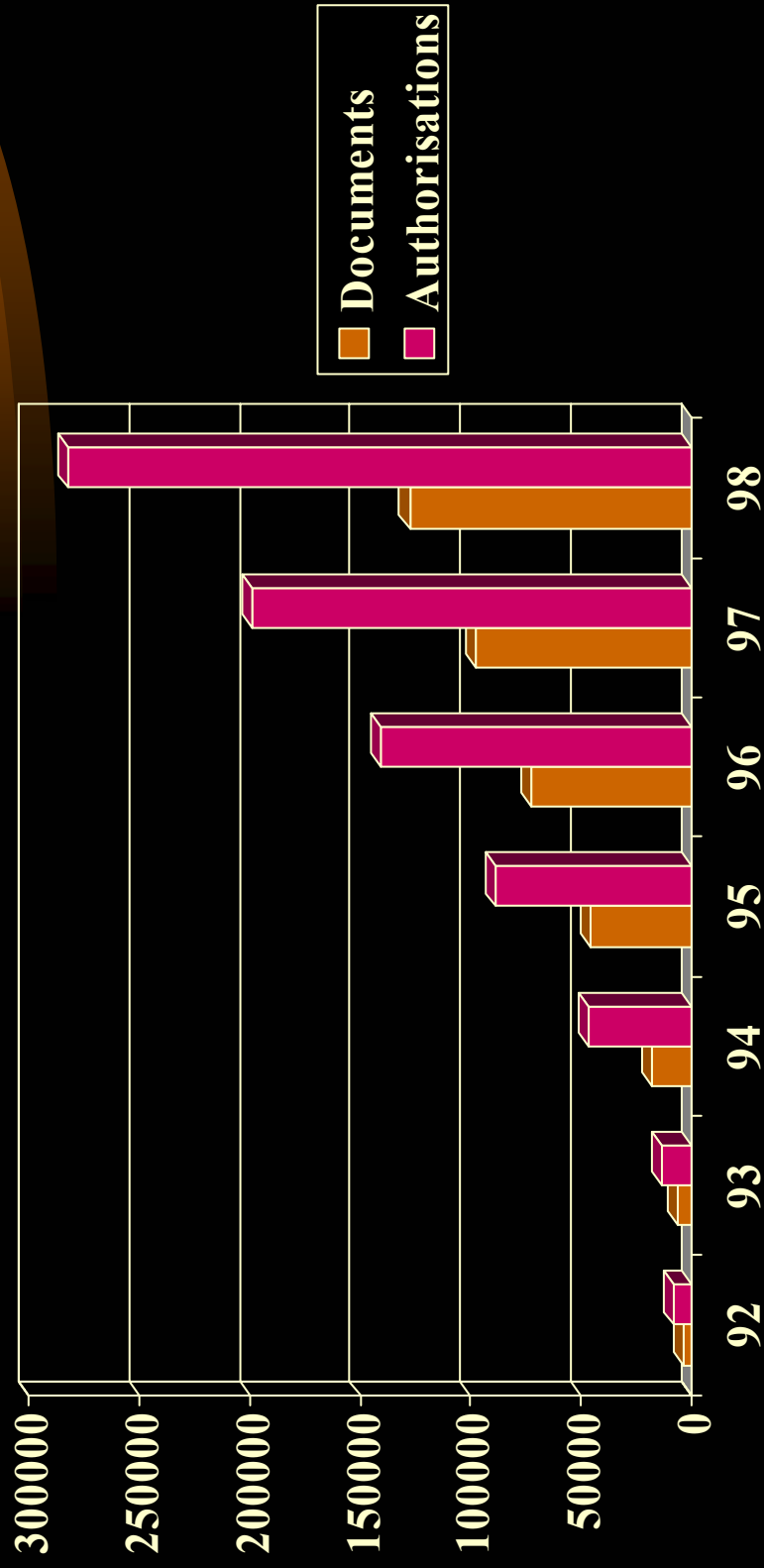
Electronic Document Handling



- EDH is a client/server workflow. It manages the creation, validation and routing of administrative documents.
- EDH is available on Macintosh, PC and Unix.
- It is fully integrated in the AIS environment, and probably the most widely used software in CERN:
 - 4500 active users
 - 1500 active users per day

Per G Jönsson, April 1999

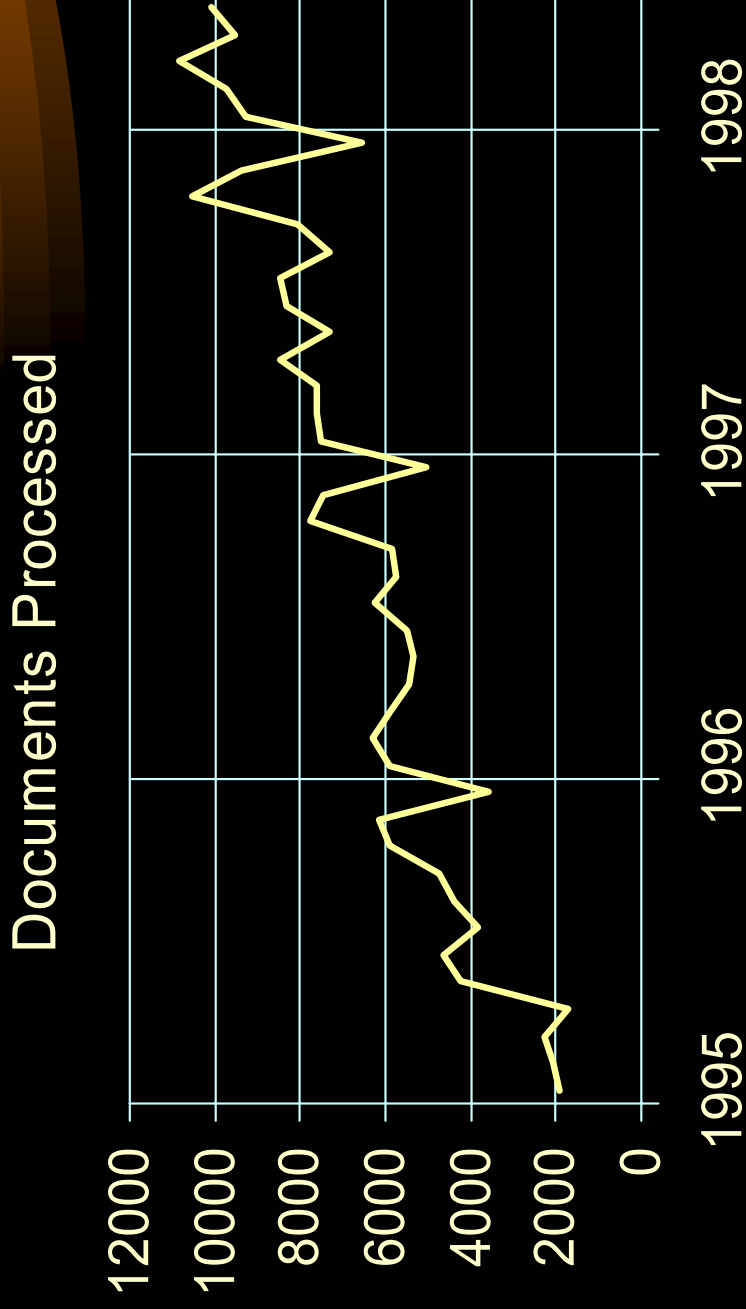
Documents transferred per year



Per G Jönsson, April 1999

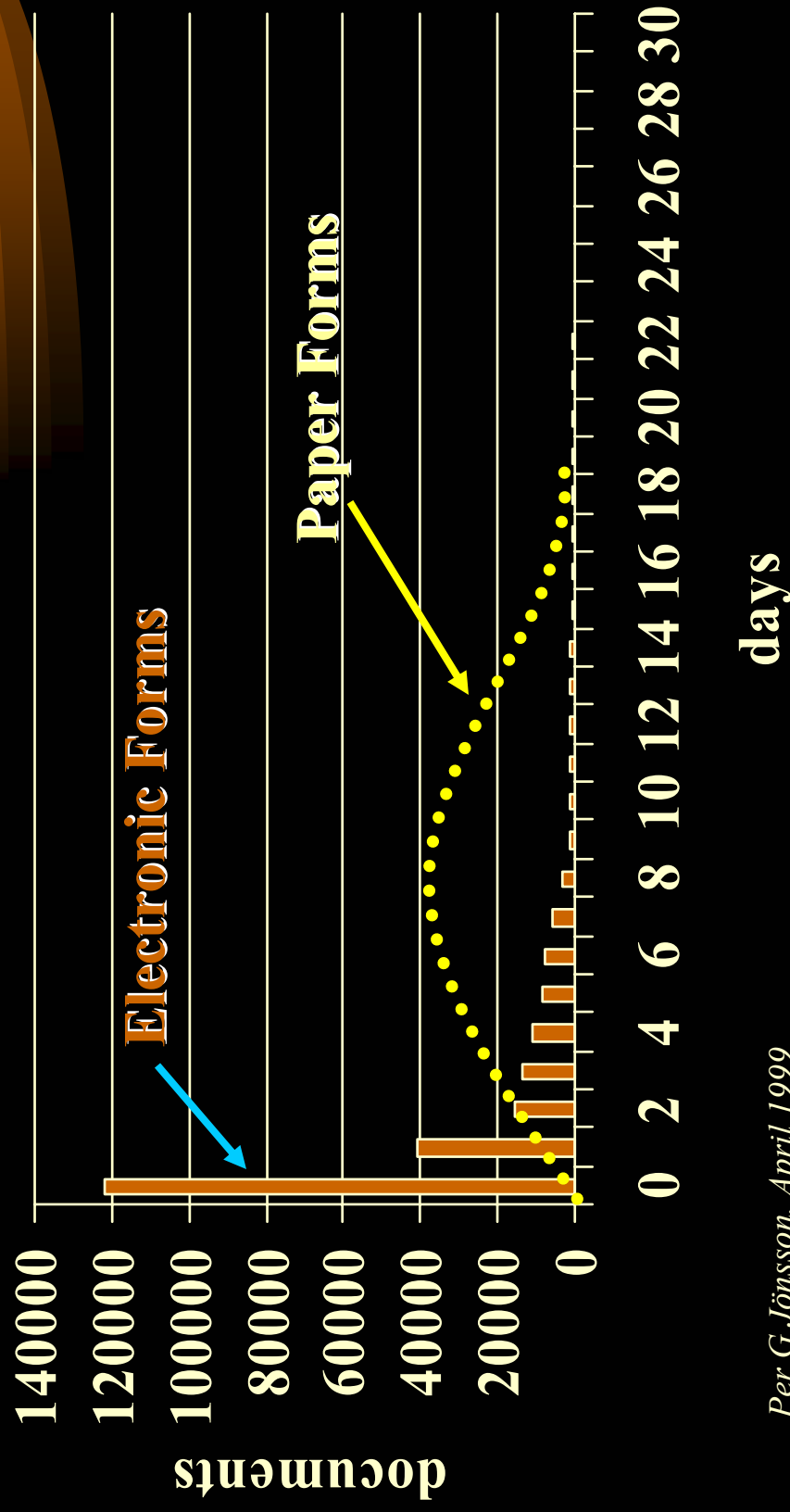
Documents transferred per month

A new document every 45 seconds ...



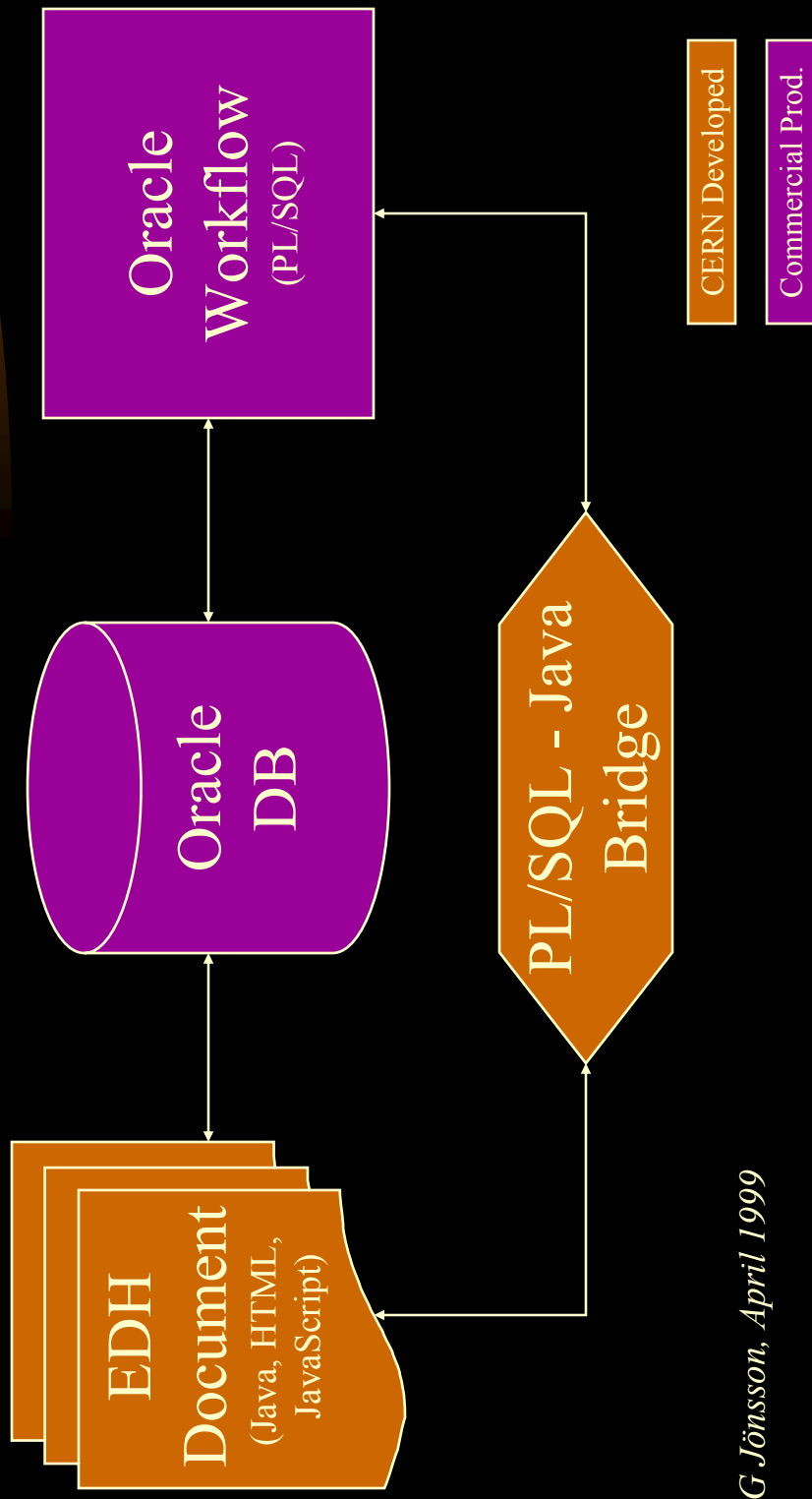
Per G Jönsson, April 1999

Productivity Gain



Per G Jönsson, April 1999

webEDH Overview



Per G Jönsson, April 1999

webEDH Building Blocks

Common Business Objects (CBOs)

Encapsulates CERN data types such as Persons, Budget Codes, Contracts etc.

Implements the **Enterprise**

Javabeans standard.

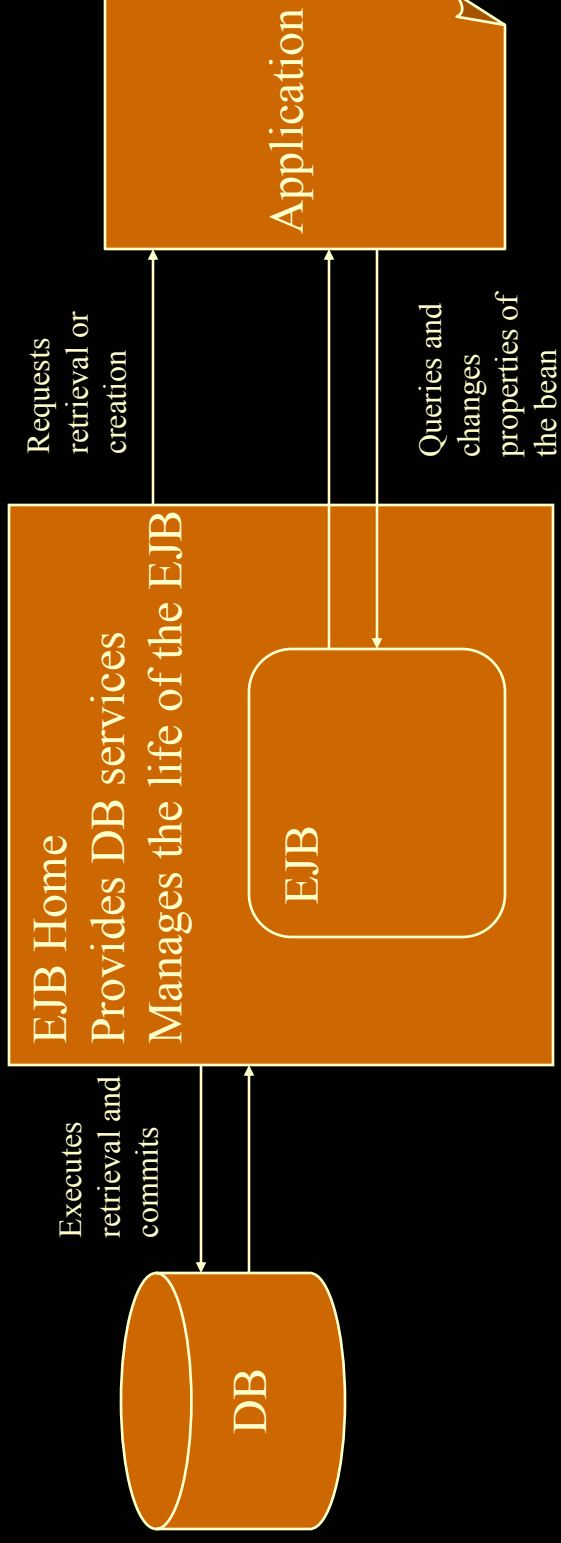
Each EDH document is in itself a CBO used by for instance the WFM.

Common Input Objects (CIOs)

Used to build the user interface.

Performs standard UI tasks, renders components of a document in HTML and provides a consistent look and feel to all EDH documents.

webEDH CBOs - What is EJB ?



Per G Jönsson, April 1999

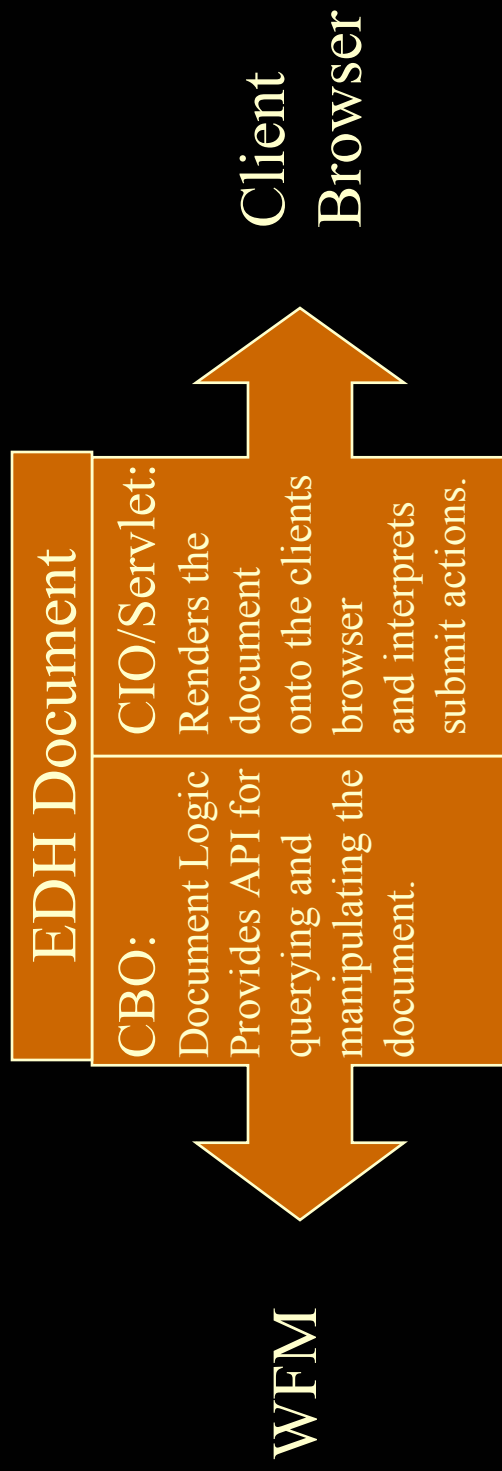
webEDH CBOs - Why EJB ?



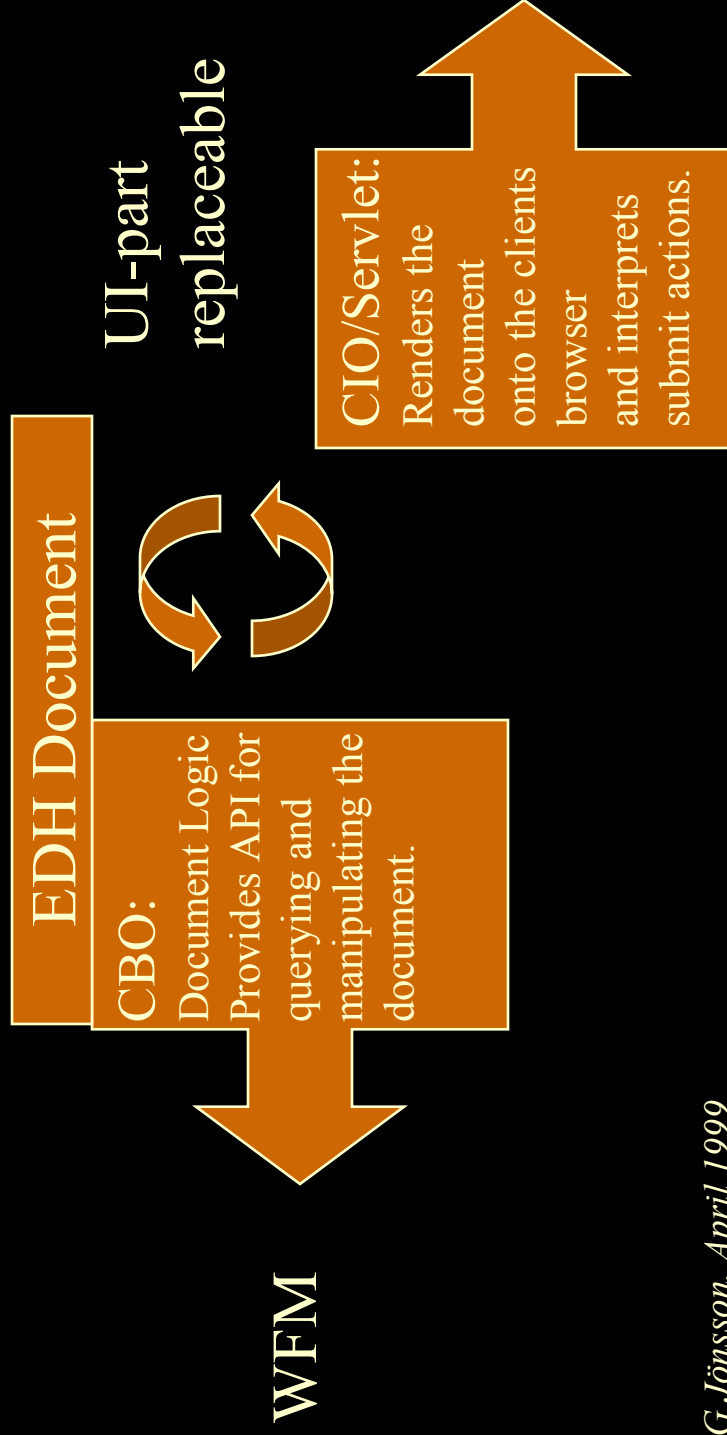
- A framework was needed.
 - No need to reinvent the wheel.
- Becoming an Industry Standard
 - Anyone familiar with EJB will quickly become productive with our CBOs.
- Commercial tools are rapidly becoming available.
- Usable locally or remotely.

Per G Jönsson, April 1999

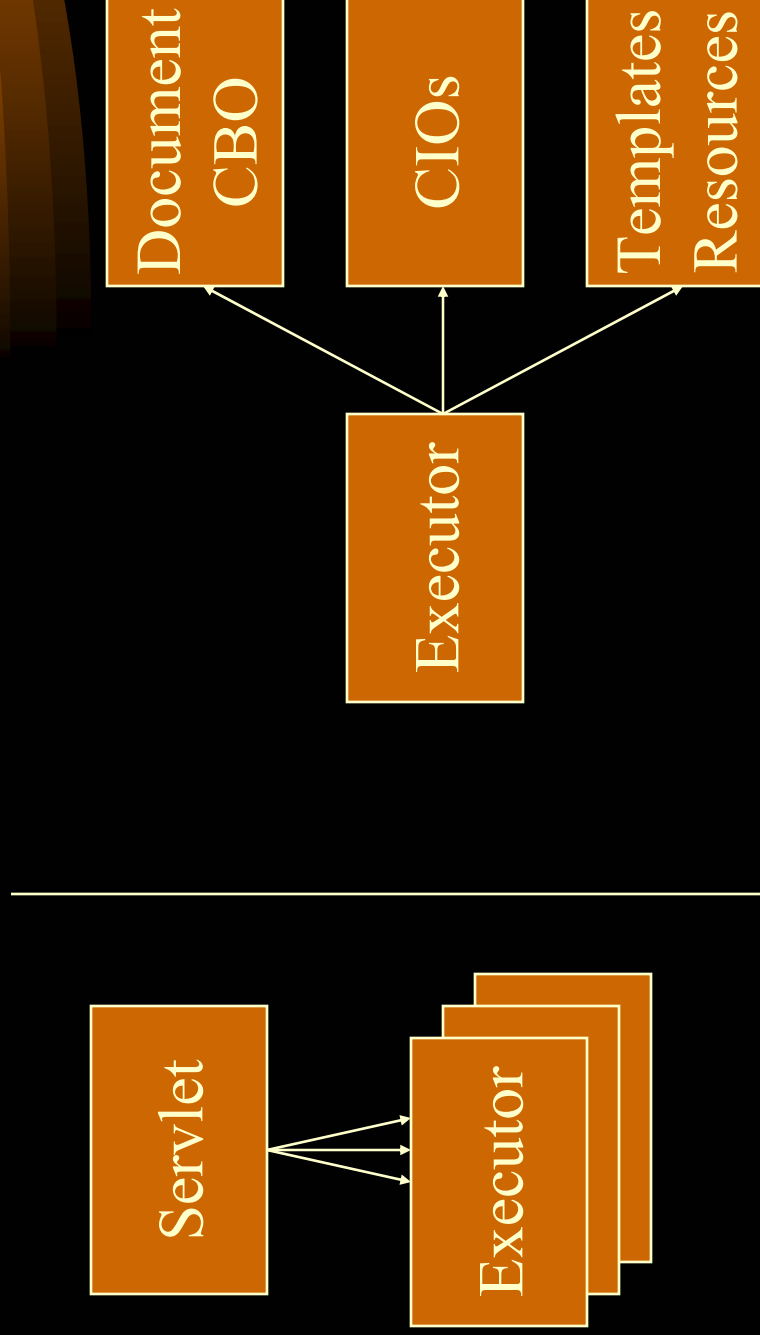
webEDH Document



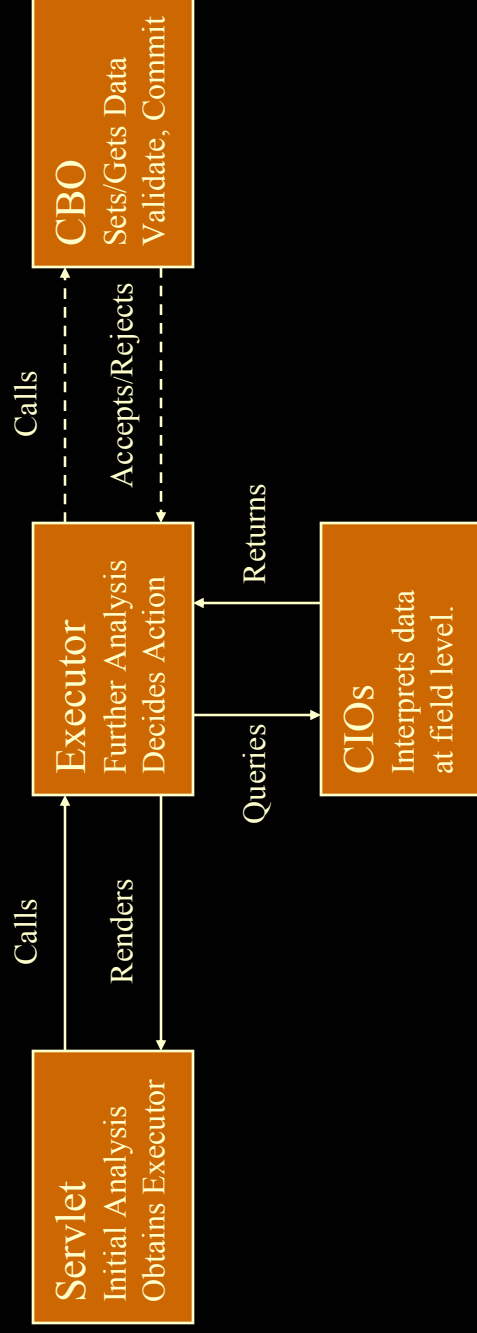
webEDH Document



webEDH Servlet User Interface

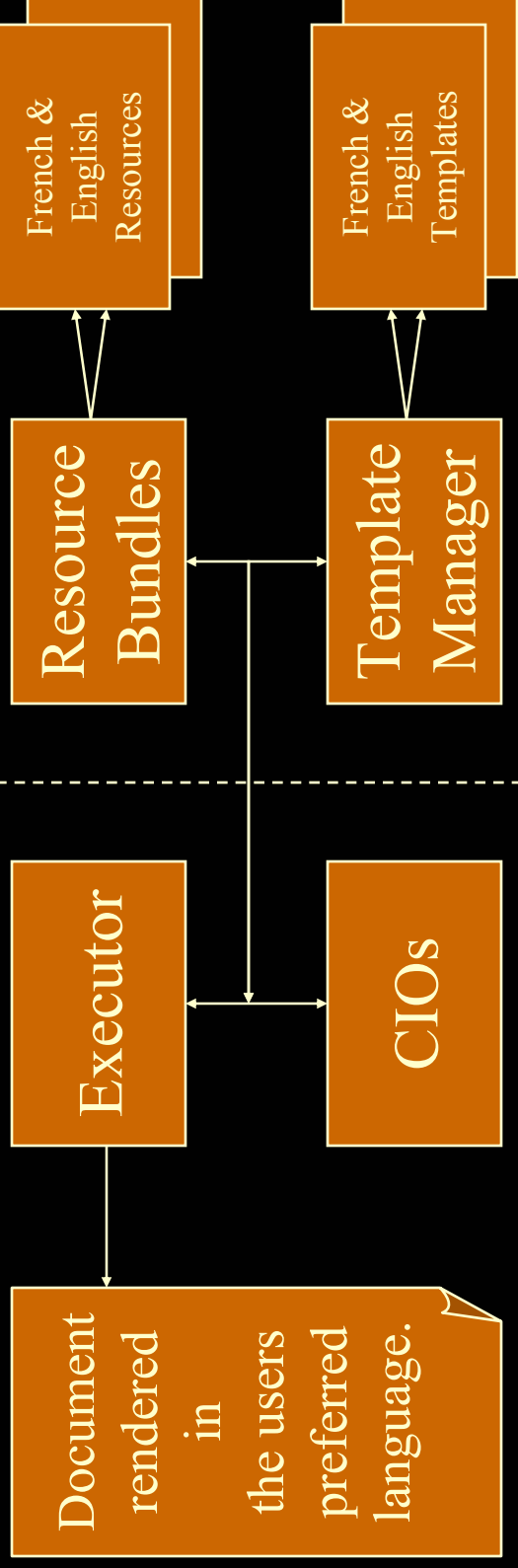


webEDH Client Submit

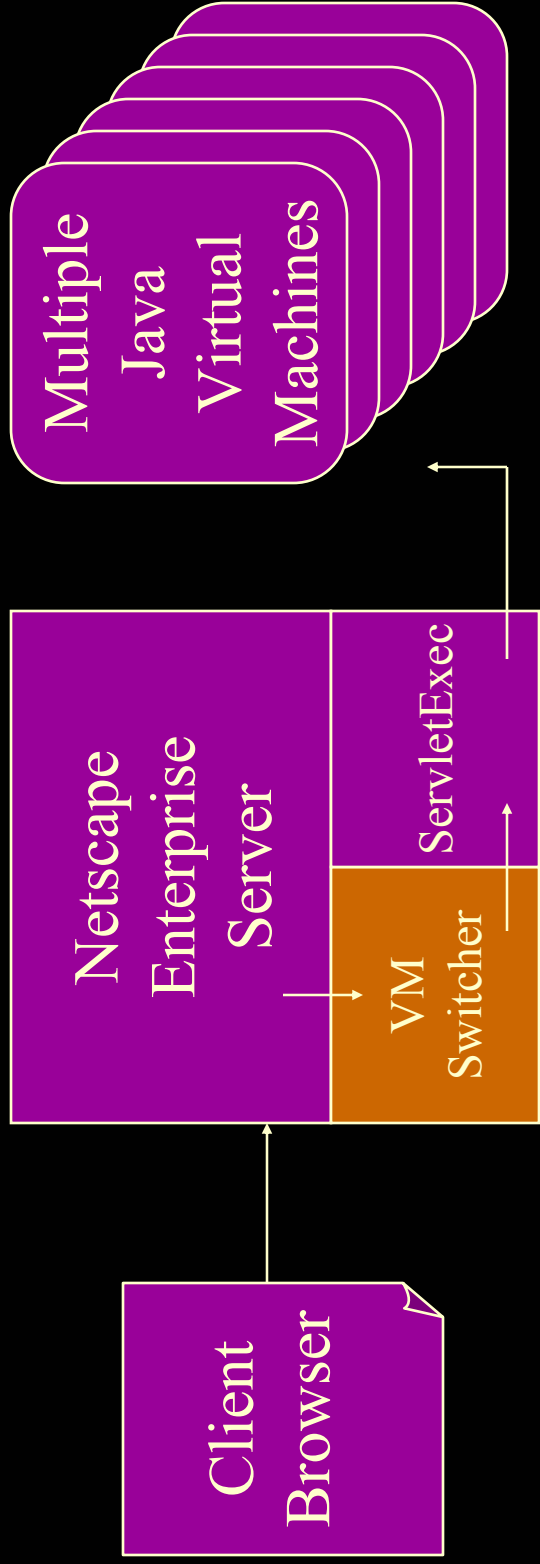


Per G Jönsson, April 1999

webEDH Language Support



webEDH Runtime Framework

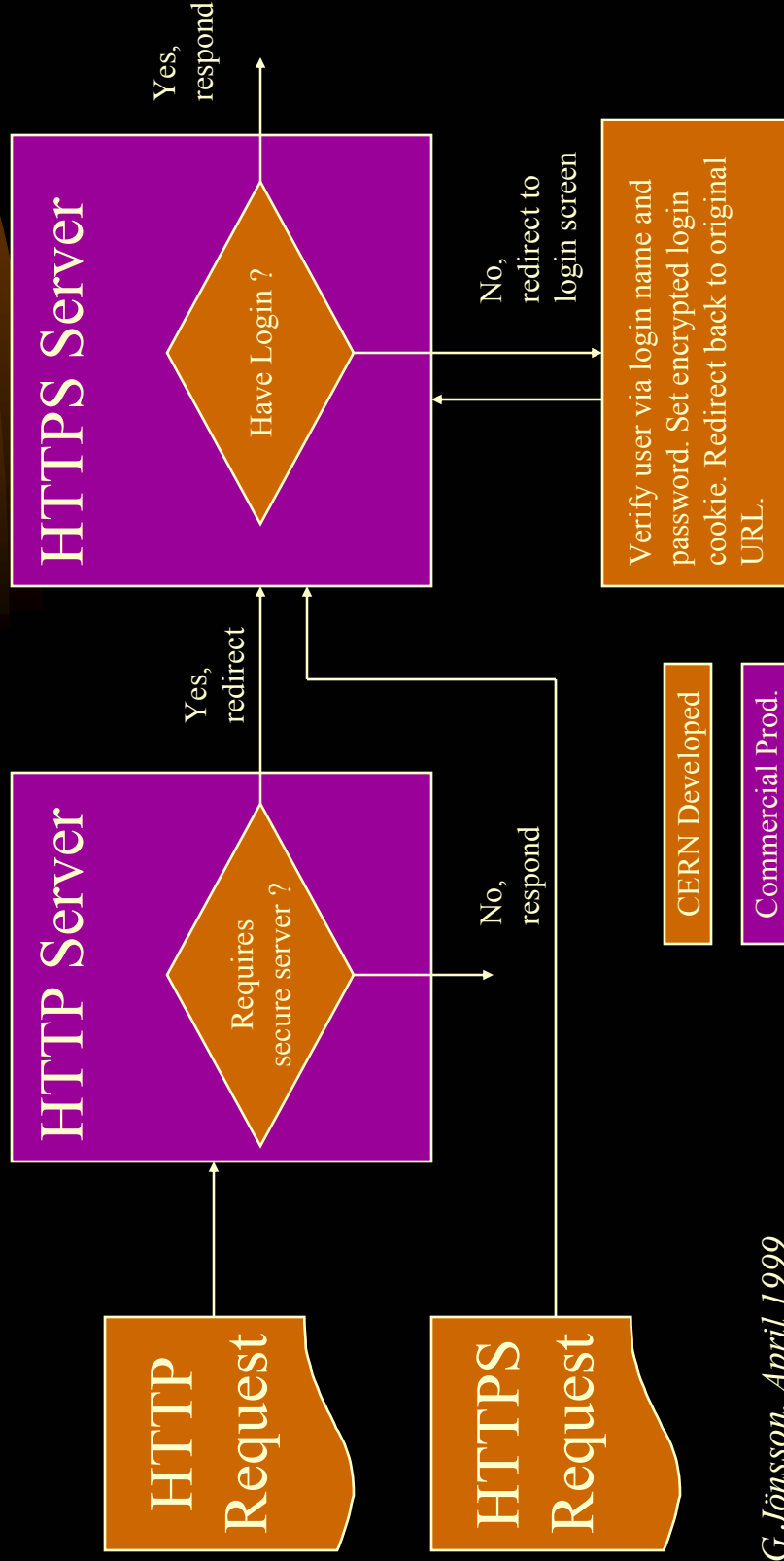


CERN Developed

Commercial Prod.

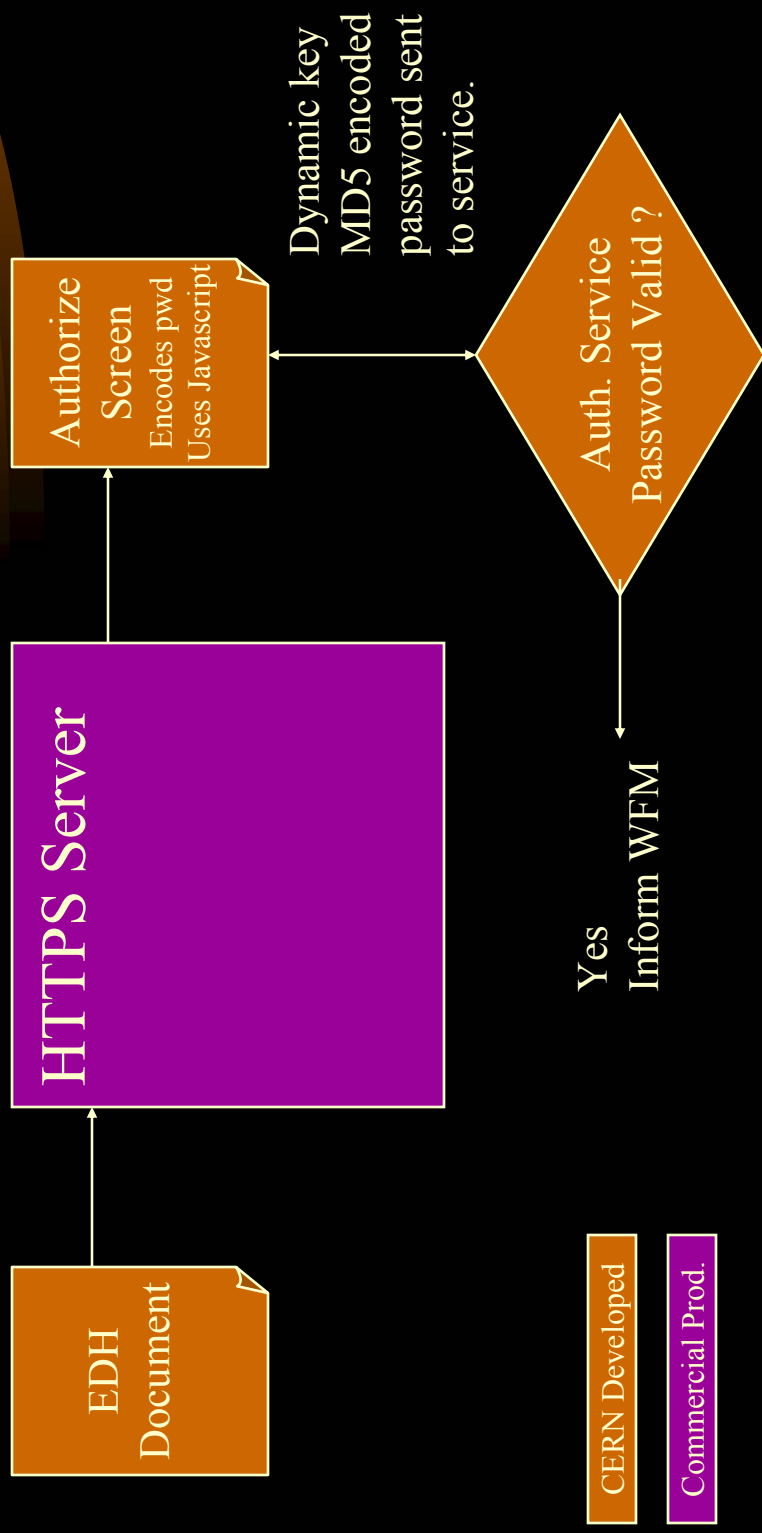
Per G Jönsson, April 1999

webEDH General Security



Per G Jönsson, April 1999

webEDH Authorization Security



CERN Developed

Commercial Prod.

Per G Jönsson, April 1999

webEDH Architectural Features



- Simple HTML and JavaScript in Client.
- Uses well known Servlet Technology
 - Little more than Java knowledge required to write a document
- High degree of reusable components, CBO, CIO.
- State held in server persists if client disconnects
 - A user can recover a document being edited after client crash.
- Multiple language support in the core architecture.

Per G Jönsson, April 1999

webEDH References



EDH General Information

<http://edh.cern.ch/Doc>

webEDH Document Architecture

<http://edh.cern.ch/Doc/Arch>

Enterprise Java Beans Specification

<http://www.javasoft.com/products/ejb>

JavaSoft Java Servlet API

<http://www.javasoft.com/products/servlet>

NewAtlanta ServletExec

<http://www.newatlanta.com>