

Towards a General Enterprise Information Logistics Framework

The EILF Proposal

The Current Situation

- Unstructured information management becoming more and more important
- Different vendors, different platforms, different technologies, different methodologies
- No common standard framework available to cover all aspects from data sources to semantic annotations

➔ Proprietary solutions

- ◆ Hard to implement, to maintain, to extend
- ◆ Re-inventing the wheel all the time for commodity functions

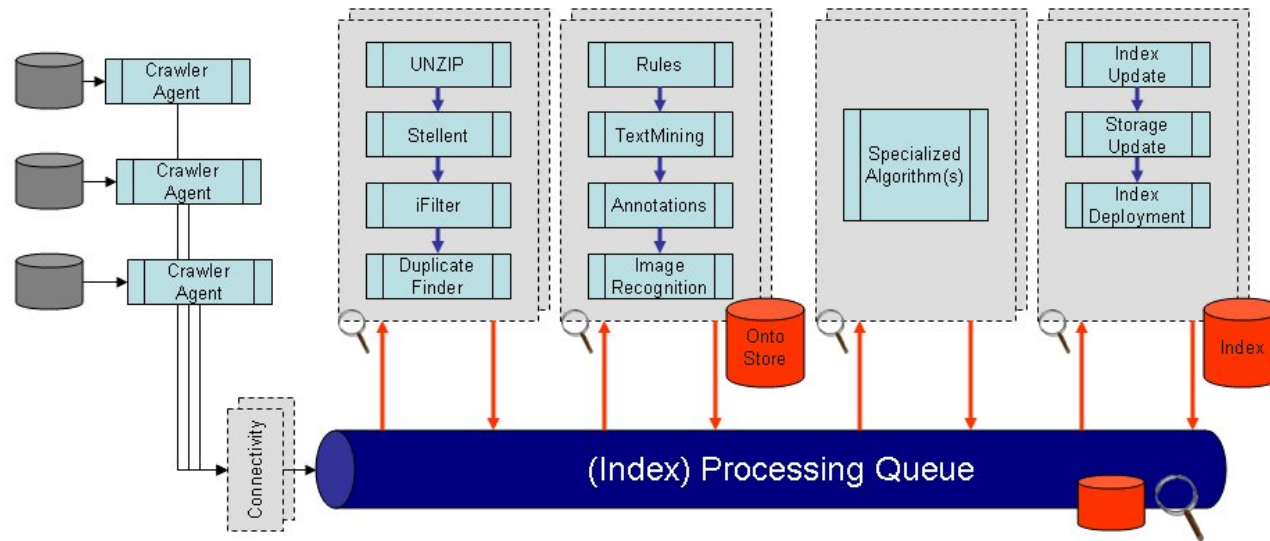
Mission

- Establish the future standard and technological infrastructure enabling the next generation of information management systems
- Define and implement a standard framework in the area of (unstructured) information management on enterprise levels
- Establish a community to bring in related aspects, such as
 - ◆ OCR
 - ◆ data mining
 - ◆ language translation
 - ◆ rich media management

Strategic Goals

- Develop standard framework for unstructured information management
- Provide ready-to-use platform and components
- Allow for extension in terms of specialized technologies, components and plug-ins
- Establish lively community to get best-of-breed tools in
- Open source to allow skilled developers to contribute
- Allow for business being generated on top of EILF, e.g. via dedicated components or services

Architecture



Key Ideas

- Crawlers/Agents push data into Connectivity / Entry Point
- Connectivity Module filters, converts versions, extracts binaries etc. and pushes into queue
- Message-driven queue stores data and guarantees delivery
- 1...n servers respond to messages, process data and write back to queue
- Potentially multiple instances of servers for load balancing and increased throughput
 - Open issue: synchronization of persistence
- 1...n processes inside server arranged via BPEL (~pipelines, ~strategies)
- Search yet to be defined separately but the objective is to separate the processes of (a) filling the index and (b) using the index for search (unlike in e.IAS)

Scope

- Architecture
- Componentization
- Data Source Management
- Operations and Management
- Authentication and Authorization
- Application & Business Use Cases

Team and Community

- Joint initiative by empolis and brox (Germany)
- Key contacts:
 - ◆ August Georg Schmidt (brox)
 - ◆ Igor Novakovic (empolis)
 - ◆ Mario Lenz (empolis)
- Currently ~8 active developers involved
- Resources
 - ◆ <http://www.eclipse.org/proposals/eilf/>
 - ◆ Newsgroup eclipse.technology.eilf