

Course code: **ALFRESCO**

Course title: **Enterprise Content Management Systems on the example of Alfresco**

Days: 4

## Description:

### Course intended for:

The training is aimed at developers and administrators who want to learn the philosophy of the Enterprise Content Management System designed for corporate clients on the example of a market-leading product that is Alfresco.

### Course objective:

Participants will learn what are the Enterprise Content Management (ECM) systems and learn about the Alfresco product. The goal of the training is to understand components of the product and to acquire proven administration and implementations skills of Alfresco.

### Course strengths:

The training program covers issues related to the Alfresco product from the perspective of administrative, programming and business issues. In contrast this type of trainings, presented training includes workshops, which will strengthen expertise in its practical aspect. The training shows step by step how to implement and administer the Alfresco product, how to develop it so that it is fully complied with requirements of a business owner.

### Requirements:

Participants are required basic knowledge of web applications technologies and basic programming skills in Java.

### Course parameters:

4\*7 hours of lectures and workshops at a ratio of 1:3. Group size: max. 8-10 people

### Course curriculum:

1. Introduction to the Enterprise Content Management (ECM)



- I. ECM system features
  - II. Market leading ECM systems such as Documentum
  - III. Standard Content Management Interoperability Services
  - IV. ECM as business case realization
  - V. Case study – when it is justified to use ECM?
2. Alfresco Overview
- I. Product family
  - II. Architecture
    - i. Document Management (DM)
    - ii. Web Content Management (WCM)
    - iii. Records Management (RM)
    - iv. Digital Asset Management (DAM)
  - III. History
  - IV. License
  - V. Enterprise vs Community
  - VI. Commercial implementations
  - VII. The advantages
  - VIII. Architecture once again
    - i. Client
    - ii. Server
3. Administering Alfresco
- I. Installation and configuration
    - i. Prerequisites



- ii. Application server
  - iii. Database
  - iv. LDAP/Active Directory
  - v. Alfresco
  - vi. e-mail
  - vii. Others: Java, Ghost Script, Adobe Flash Player
  - viii. Components: Alfresco WCM, Alfresco S3 Connector, Google Docs v2 integration
  - ix. Multilang
  - x. Updating
  - xi. High Availability
  - xii. Scalability
  - xiii. Single Sign On
- II. Administration panel
- III. Users
- i. Adding, modifying, removing
  - ii. Disabling
  - iii. Groups
  - iv. Access policies
- IV. Look and feel configuration
- V. Document repositories
- i. Document attributes
    - A. Predefined attributed
    - B. New attributes



## C. Aspects

- ii. Group work
- iii. Versioning
- iv. Transformations such as MS Office do PDF
- v. Apache Jackrabbit

## VI. Workflows

- i. Architecture
- ii. Creating
- iii. Configuration
- iv. Working with BPM's such as Activity, jBPM
- v. Automatic OCR

## VII. Searching

- i. Full text search
- ii. Apache Solr
- iii. Apache Lucene

## VIII. Backup

## IX. Replication

## X. Tuning

## XI. Security

- i. Audit

## 4. Programming Alfresco

### I. Customizing Alfresco Share

- i. Configuration files



- ii. Document repository
  - iii. Topics
  - iv. Forms
- II. Customizing Alfresco Explorer
- i. Configuration files
- III. Alfresco Repository
- IV. Alfresco Services
- i. API
    - A. Alfresco Java Foundation API
    - B. JavaScript API
    - C. Template API
  - ii. Remote API
    - A. Restful
    - B. CMIS
  - iii. Extending existing services
  - iv. Creating new services
- V. Integration
- i. Integrating with
    - A. MS Office
    - B. MS SharePoint
    - C. GoogleDocs
    - D. EMC Documentum
    - E. Liferay



F. Yahoo, Google

ii. Techniques of integration

A. CMIS (Content Management Interoperability Services)

B. Web Scripts (CIFS, NFS, FTP, WebDAV)

C. Files

D. RSS, OpenSearch

E. Java

F. PHP

G. .NET

H. Surf

iii. EAI

VI. Web Scripts

VII. Surf

VIII. Content Model

IX. Alfresco CMIS API

X. Alfresco REST API

5. Collaboration and Social Features

6. Best practices

7. Troubleshooting

