ACTIVE Knowledge Workspace

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ACTIVE Summer School

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Agenda

- Introduction to the ACTIVE knowledge workspace
- Workspace software architecture
- Online demonstration of basic Workspace features
- Overview of ACTIVE Software Developer Kit
- Availability
Introduction to the ACTIVE knowledge workspace (1)

Workspace builds on three interlocking technology themes

- Informal semantics
- Informal processes
- Task context
Introduction to the ACTIVE knowledge workspace (2): software platform

- **Partners:** HSL (ComTrade), BT, JSI, EMIC*, iSOCCO

- **Goal:** Create a software environment for the knowledge worker consisting of an integrated set of context-aware knowledge management tools. Integrate tools developed in WP1-WP3 and extend off-the-shelf tools like MS Office suite to benefit from ACTIVE technology.
Introduction to the ACTIVE knowledge workspace (3): main principles

- Supporting personal productivity, collaboration and knowledge sharing of knowledge workers in an enterprise

- Workspace concepts to support their activities:
  - Working contexts
  - Info resources
  - Tasks/Knowledge processes

- Transform off-the-shelf tools to fit into the Workspace = ACTIVation
Workspace software architecture (1)
Workspace software architecture (2)

Generic applications
Specialised applications
ACTIVE web portal
ACTIVE taskbar

Metadata Service
Task Service
Context Service

Metadata recommender service
TaskMining Service
ContextMining Service

Workspace infrastructure services
Workspace software architecture (3)

Workspace services and ACTIVated applications

- **Accenture SABLE**
- **LiveNetLife**
- **Cadence Workbench**
- **Cadence ProjectNavigator**
- **SemFS**
- **SemMedWiki**
- **ACTIVE Taskbar**
- **ACTIVE Web Portal**

**WorkspaceInfrastructure Services**

- **UserGroupService**
- **ResourceRegistrationService**
- **MediationService**
- **WorkspaceEventBus Service**
- **AccessPolicyService**
- **SynchronizationService**

**Metadata Service**

- **MetadataService**

**Context Service**

- **ContextService**

**Task Service**

- **TaskService**

**Recommendation Service**

- **RecommendationService**

**Mining Service**

- **Metadata RecommenderService**
- **ContextMining Service**
- **TaskMining Service**
- **ApplicationSpecific MiningService**
Workspace software architecture (4)

- Inter-service communication
  - Web services (WSDL/SOAP & RESTful)
  - Apache ActiveMQ Event bus: messaging & publish/subscribe: XML schema
**AKWS – live system walk through (1)**

- **ACTIVE Taskbar**
  - Contexts (creation/switching)
  - working/assigned users
  - Info resources in working context
  - tasks/knowledge processes
  - context visualization
  - TaskWizard
  - metadata & content search
AKWS – live system walk through (2)

- ACTIVE shell extension
- Outlook – context filtering
- Word – tagging
- Excel – document shadowing
- Web portal
  - team context
  - web view to Info resources
  - simple & advanced search
AKWS – live system walk through (3)

- Context discovery
- Context detection
Overview of ACTIVE Software Developer Kit

- WSDLs for Web services
- XML schemas for event messages
- C# APIs useful for ACTIVated applications
- C# APIs for Task Service
- Ruby APIs for Infrastructure services
- Online SDK documentation
Overview of ACTIVE Software Developer Kit (2)

- Three levels of ACTIVated applications
  - **Basic level:** activity monitoring
  - **Intermediate level:** context filtering and context switch support
  - **Advanced level:** process support built into the application’s GUI.
Availability

- Download of the restricted version for research purposes:
  
  [link]
  
- Demo version of Workspace:
  
  [link]

- Username: guest, password:guest

- Demo limitations