

KAOS

WP2: Management of Event Logs

WP5: Case Studies

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WP2: Management of Event Logs

Overview:

Developing a comprehensive conceptual framework for the extraction of (possibly incomplete) multi-dimensional event logs from the legacy data sources of an organization.

Duration: M1 – M24

Partners: UniBZ (20 PMs), Trento (6 PMs), Ulbk (4 PMs)

Objectives

- G2 Devise a KOS infrastructure, which integrates domain knowledge as a first-class citizen, making it accessible to the actual OS techniques.
- G3 Develop KOS techniques driving users in the extraction of conceptually-founded, multi-faceted process event logs from the legacy data sources employed by the organization, leveraging on the framework of ontology-based data access.

Tasks

- T2.1 Definition of a language for the end-user modeling of log mappings. [6 PMs]
- T2.2 Development of a combined framework for event log extraction by enriching OBDA with log mappings. [12 PMs]
- T2.3 Management of incomplete logs. [6 PMs]
- T2.4 Development of an architectural extension of the ProM OS backbone towards KOS. [6 PMs]

Deliverables

- D2.1 Ontology for XES and log-mapping language
Result of T2.1, T2.2 – [Report, M6]
- D2.2 Combined framework for multi-dimensional event log extraction
Result of T2.2, T2.3 – [Report, M18]
- D2.3 ProM extension for support of KOS techniques
Result of T2.4 – [Prototype, M24]

WP5 Overview, Tasks, and Deliverables

WP5: Case Studies

Overview:

Experimentation and validation of the languages, methodologies and techniques developed in WP1–WP4.

Duration: M24 – M36

Partners: UniBZ (4 PMs), Trento (3 PMs), Ulbk (5 PMs)

Tasks

- T5.1 Organizational modeling applied to the case studies. [3 PMs]
- T5.2 Multi-dimensional log extraction applied to the case studies. [3 PMs]
- T5.3 Monitoring techniques applied to the case studies. [3 PMs]
- T5.4 Inference of accurate predictions according to the case studies. [3 PMs]

Deliverables

- D5.1 Experimentation and validation of KAOS techniques.
Result of T5.1, T5.2, T5.3, T5.4 – [Report, M36]