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ITEA 3 is a EUREKA strategic ICT cluster programme

D4.2.1 Interface Control Document (ICD)

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Text & Model-Synchronized Document Engineering Platform

Project number: ITEA 2 13028

Work Package: WP4 Knowledge Base Design and Implementation

Task: T4.2 - API of the Knowledge Base

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Apart from the deliverables which are defined as public information in the Project Cooperation Agreement (PCA), unless otherwise specified by the consortium, this document will be treated as strictly confidential.



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Interface Control Document (ICD)

Document History

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Interface Control Document (ICD)

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Interface Control Document (ICD)

1. Introduction

Role of the deliverable

This document provides the Interface Control Document (ICD), which specifies the API for accessing & manipulating the Knowledge Base.

The List of Technical Work Packages

UC Code	Requirements derived from	
WP2	Semantic Parsing and Generation of Documents and Documents Components	
WP3	Model to/from Knowledge Base (synchronization mechanism)	
WP4	Knowledge Base Design and Implementation	
WP6	Architecture, Integration and Evaluation	

Structure of the document

This document is organized as follows:

- Chapter 1 introduces the document.
- Chapter 2 the interface.
- Chapter 3 concludes the document.

Terms, abbreviations and definitions

Abbreviation	Definition
RDF	Resource Description Framework
WP	Work Package
UC	Use Case
ICD	Interface Control Document



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Interface Control Document (ICD)

2. Interface Control Document (ICD)

```
package synalp.commons.input.knowledgeBase;
import java.io.IOException;
import java.util.Set;
import com.hp.hpl.jena.ontology.DatatypeProperty;
import com.hp.hpl.jena.ontology.Individual;
import com.hp.hpl.jena.ontology.ObjectProperty;
import com.hp.hpl.jena.ontology.OntClass;
import com.hp.hpl.jena.rdf.model.Resource;
import com.hp.hpl.jena.util.iterator.ExtendedIterator;
public interface IOntologyAnalysis {
       // Method that provides the list of the ontology's classes
       public abstract Set<OntClass> getClasses();
       //Method that creates a text from the label skos definition
       public abstract void CreateTextFromDefinition(String fileTextFromKB)
                       throws IOException;
       // Method that provides the list of the ontology's datatypesPoperties
       public abstract ExtendedIterator<DatatypeProperty> getDatatypeProperties();
       // Method that provides the list of the ontology's objectPoperties
       public abstract ExtendedIterator<ObjectProperty> getObjectProperties();
       // Method that provides the list of the ontology's individuals
       public abstract Set<Individual> getIndividuals();
       // Method that provides the list of all ontology's concepts
       public abstract Set<Resource> getOntoConcepts();
       // Method that provides the resources corresponding to a word
       public abstract OntClass getResource(String word);
       // Method that checks if two classes are disjoint or not
       public abstract boolean isDisjoint(OntClass c1, OntClass c2);
}
```



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Interface Control Document (ICD)

3. Conclusion and way forward

This document provides the Interface Control Document (ICD), which specifies the API for accessing & manipulating the Knowledge Base.

In the second year of the implementation of these interfaces will be realized and integrated in the project.



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References

N/A