

Semantics

YOU ARE A PUBLIC ADMINISTRATION

What is the building block about?

Semantic technology provides many concepts and tools to make machine-understandable descriptions of data, programs and infrastructure enabling computers to handle these artefacts. These concepts and tools allow computers to overcome some of the problems that remain open when using messaging and XML as the basis for interoperability, namely the meaning of the XML labels and the real business meaning of the values contained in an XML document. In the e-SENS project it goes beyond the code lists and vocabularies to the use of ontologies for automatic inference.

Why should I use it?

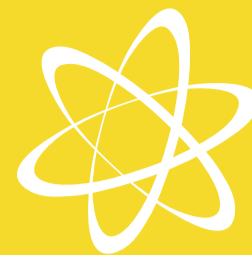
Public administrations can implement, deploy and use a system based on the Semantics architecture design to facilitate mapping between structured legal criteria with the actual MS legal official documents in specific domains like eProcurement and Business Lifecycle. The architecture design provides an architecture which can easily extend these legal mappings to become cross-border and help break down the barriers in electronic procedures where the legal alignment between Member States is one of the main impediments.

How can I use it?

From a public administration perspective, a system based on the Semantics architecture design needs to be governed, in order to guarantee that the information to be provided is up-to-date and reflects the current legal status.

What kind of help can I get?

The e-SENS project can provide the specifications of the common Data model and the Application Programming Interface needed with such a service, together with Implementation Guidelines on how to implement and deploy the service.



Semantics

YOU ARE A SERVICE PROVIDER

What is the building block about?

Semantic technology provides many concepts and tools to make machine-understandable descriptions of data, programs, and infrastructure, enabling computers to handle these artefacts. These concepts and tools allow computers to overcome some of the problems that remain open when using messaging and XML as the basis for interoperability, namely the meaning of the XML labels and the real business meaning of the values contained in an XML document. In the e-SENS project it goes beyond the code lists and vocabularies to the use of ontologies for automatic inference.

Why should I use it?

- A Service Provider should use a system based on the Semantics architecture design to provide legal mapping services on specific domains that are provided by the Public Administrations.
- By using these services, which should be backed up by Public Administration and/or official public bodies, the Service Provider can automate legal mapping for specific domains, and provide a streamlined workflow for multiple cross-border cases like the eProcurement pre-award (eTendering) use case.

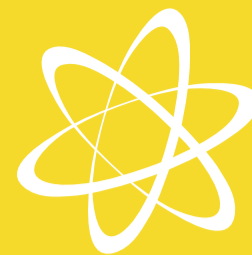
How can I use it?

A Service Provider provides a service that needs information from a Semantic Mapping Service, based on the Semantics architecture design. The following functionalities are provided to the Service Provider, for use within its systems:

- Provision of a requirement template, depending on the application process and the legal domain. The system should be able to provide a structured list of requirements, mapped to the requester's national legislation and EU directives (where applicable).
- Provision of a Requirement-to-Document mapping (also known as criteria-to-evidence mapping in eProcurement). The system, given a structured criteria/requirement list, should be able to provide a national criteria/requirements structured list, mapped to the requester's national legislation, and the national document types that can be used as evidence for the given required criteria.
- Provision of a validation service (evidence-to-criteria mapping). The system, given a list of national document types and a mapped criteria/requirement list of another legal domain, should provide a validation result, stating that the actual documents provided are suitable for the mapped requirements.

What kind of help can I get?

The e-SENS project can provide the specifications of the common Data model and the Application Programming Interface needed with such a service, together with Implementation Guidelines on how to implement and deploy the service.



Semantics

YOU ARE A SOFTWARE COMPANY OR A SOFTWARE DEVELOPER

What is the building block about?

Semantic technology provides many concepts and tools to make machine-understandable descriptions of data, programs, and infrastructure enabling computers to handle these artefacts. These concepts and tools allow computers to overcome some of the problems that remain open when using messaging and XML as the basis for interoperability, namely the meaning of the XML labels and the real business meaning of the values contained in an XML document. In the e-SENS project it goes beyond the code lists and vocabularies to the use of ontologies for automatic inference.

Why should I use it?

- A Software Company should use a system based on the Semantics architecture design to provide legal mapping services on specific domains that are provided by the Public Administrations.
- By using these services, which should be backed up by Public Administration and/or official public bodies, the Software Company or developer can automate legal mapping for specific domains, and provide a streamlined workflow for multiple cross-border cases like the eProcurement pre-award (eTendering) use case.

How can I use it?

A Software Company / Developer develops a service that needs information from a Semantic Mapping Service, based on the Semantics SAT. The following functionalities are provided to the Service Provider for use within its systems, though the use of standardised APIs and Data models:

- Provision of a requirement template, depending on the application process and the legal domain. The system should be able to provide a structured list of requirements, mapped to the requester's national legislation and EU directives (where applicable).
- Provision of a Requirement-to-Document mapping (also known as criteria-to-evidence mapping in eProcurement). The system, given a structured criteria/requirement list, should be able to provide a national criteria/requirements structured list, mapped to the requester's national legislation and the national document types that can be used as evidence for the given required criteria.
- Provision of a validation service (evidence-to-criteria mapping). The system, given a list of national document types and a mapped criteria/requirement list of another legal domain, should provide a validation result, stating that the actual documents provided are suitable for the mapped requirements.

What kind of help can I get?

The e-SENS project can provide the specifications of the common Data model and the Application Programming Interface needed with such a service, together with Implementation Guidelines on how to implement and deploy the service.