



COUPLING LANGUAGE AND KNOWLEDGE VIA E-SERVICES ECOSYSTEM: ALPHA VERSION OF THE FREME OPEN FRAMEWORK RELEASED

The FREME Consortium – which brings together top-tier specialists in language resources, tools, and services, multilingualism and semantic Web, linked data and open data including public sector information, publishing, localisation, and business development – is proud to announce the first Alpha version of its commercial-grade open framework, the e-Service ecosystem that allows for the multilingual and semantic enrichment of digital content while enabling the development of new businesses.

FREME is a 2-years project co-funded by the European Commission under the H2020 Framework Programme for Research and Innovation with the aim of opening new opportunities for all sectors involved in digital content management, strengthening the European Union position as provider of innovative multilingual products and services based on digital content and data.

The FREME open framework has been designed and implemented to mainly address four different types of target user: 1) technology specialists in digital content management, Big Data, multilingual and semantic technologies, that may want to contribute or extend the framework with additional functionality or services; 2) data experts and technology users, that may need to prepare the deployment of FREME, for example by selecting data sources to be used for enrichment in a given usage scenario; 3) interface developers, that may want to create high level APIs for accessing the FREME e-services; and 4) end users, that may need to use FREME mostly via graphical interfaces for example to enrich content during digital content creation.

With the Alpha release, FREME has reached a level of maturity after less than 10 months of development that exceeds expectations and may be already used and tested by third parties. Target users can access all the available e-services, and combine them easily getting additional value:

- e-Translation, to access machine translation with language pairs domain-adaptable;
- e-Terminology, for terminology identification and linking to term data bases, including term domain information;
- e-Entity, to adapt named entity recognition with user defined data sets for entity linking;
- e-Link, for integrating additional information from linked data sources;
- e-Internationalization, for processing formats like HTML, XLIFF or general XML; and
- e-Publishing, for storing enriched HTML as eBook content.

For example e-Translation can be used to interpret the outcome of e-Terminology for increasing the quality of machine translation, and e-Link can be used to fetch information from linked open data sources, based on entities identified via e-Entity. FREME can be deployed via the public installation or in a local installation – see the documentation at <http://api.freme-project.eu/doc/current/> for details.

Development of the FREME open framework has been carried out taking care of four main requirements among many others: flexibility, scalability, robustness, and usability. Scalability is assured by the code that has been structured to ease an extension of the framework; with the Alpha version target users are able to easily create their own services and to benefit from a combination with the forehand described services. Robustness of the framework has been considered by deploying tools in the realm of performance monitoring. Flexibility and usability have been covered by applying several standards in the realm of linked data into action, especially those from the area of so-called linguistic linked data that are a key for creating multilingual, semantic data and language processing chains.



The FREME Consortium is sure that this standards-based, multilingual and semantic data integration approach will be a key asset for the usage of the FREME open framework beyond the project lifetime. Discussions with other projects have already started and the framework is getting uptake. Be part of it by giving the e-Services a try! Visit the FREME website at <http://www.freme-project.eu> and follow instruction to access the demo and documentation section – or even contribute to the FREME development in its open code repository.

For further information please contact us at info@freme-project.eu or subscribe to our newsletter.