



**OPEN INVITATION TO TENDER**  
**AO/DSL/VKVET-GRUSSO/Real-time LMI 2/009/16**  
**Cedefop Clarification – Questions and answers (2)**

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Question 1

Why is open source software requested?

Cedefop answer 1

All intellectual rights related to the final product will belong to Cedefop at the end of the project. In order to facilitate the further usage and development of the tool, Cedefop has to be free from any further licencing fees and restrictions imposed by the Tenderer and make the tool open to potential Third parties and the developer/scientific community.

Question 2

At the Contract with each of the Web Portal owners, is it stated explicitly whether web crawling is allowed or integration with web-services should be achieved?

Cedefop answer 2

In most cases yes.

Question 3

For both the existing and the new System, please confirm that data retrieval is always achieved via web-services (SOAP/REST) and not through web pages parsing (web crawling).

Cedefop answer 3

No. Data retrieval is achieved in different ways depending on the technical possibilities and the agreement made with each Job portal. In some cases it is via direct database file downloading, but in most cases it is via web pages parsing (web crawling)

Question 4

The web services schemas that are currently consumed by the existing System and the future ones that are going to be consumed by the new System as well are common for all web portals, or each web portal owner exposes their data based on their own web services schema design?

Cedefop answer 4

No, there is no common web services schema for the different portals. Each web portal has its own way to make data available. In most portals there is no database access, so web pages parsing (web crawling) is needed.

Question 5

Can you provide an estimate of the total number of web portals that the System is required to integrate with?

Cedefop answer 5

It is up to the contractor to report on the needed number of web portals, as part of the initial landscaping exercise (Activity 1). In the current Cedefop 5-country prototype, 2-4 web portals per country were enough.

Question 6

What is the conformance percentage of the existing system to ISCO classification framework? Please provide specific details of the corresponding pending tasks.

Cedefop answer 6

In the current Cedefop 5-country prototype, the classifier model reached an accuracy of average 80% for the 4 countries and 98% for the case of the Czech republic. This means that online vacancies were classified under the correct 4-digit ISCO/ESCO code in 80%/98% of the cases. This level of accuracy/quality can be considered enough and should be achieved for the rest of the EU countries as well.

Question 7

Is it acceptable to implement an entirely new System, without extending the existing one?

Cedefop answer 7

Yes, given that the new System will convincingly cover all the requirements of the Call for Tenders.

Question 8

Except from the production environment, please state any other environments that need to be provided (UAT, Disaster Recovery etc.).

Cedefop answer 8

It is up to the Tenderer to propose and maintain the IT infrastructure needed for successfully running the project and ensuring availability, performance, efficiency, disaster recovery, backups, etc.

Question 9

Is it acceptable to host the required infrastructure on a Cloud Provider?

Cedefop answer 9

Yes.

Question 10

List any other services that should be provided by the requested infrastructure, such as backup mechanisms, monitoring tool, helpdesk tool etc.

Cedefop answer 10

Please refer to Cedefop answer 8. Monitoring tools are also considered useful (the current Cedefop prototype has monitoring at the level of the application, viewing running web crawling and data extraction processes, etc.)