

# How to integrate services or data sets into the ELG platform

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# **ELG platform**

- It is a web-based platform and runs at: <u>https://live.european-language-grid.eu</u>
  - A catalogue for resources: LT services, data sets, lexical/conceptual resources, language descriptions
  - Each resource is documented with the required metadata
  - "Published" resources are visible by anyone; i.e. log-in, is not required
- What is required to be a resource provider in ELG
  - Register to the platform
  - ELG admins should assign you the "provider" role (email to <u>contact@european-language-grid.eu</u>)
  - Upload -> Review process ...

#### **Provide a functional LT service**

- Currently, ELG supports the integration of tools/services that fall into one of the following broad categories:
  - Information Extraction (IE)
  - Text Classification (TC)
  - Machine Translation (MT)
  - Automatic Speech Recognition (ASR)
  - Text to Speech Generation (TTS)
- Documentation: <u>https://european-language-</u> grid.readthedocs.io/en/release1.0.0/all/RegisterFunc.html

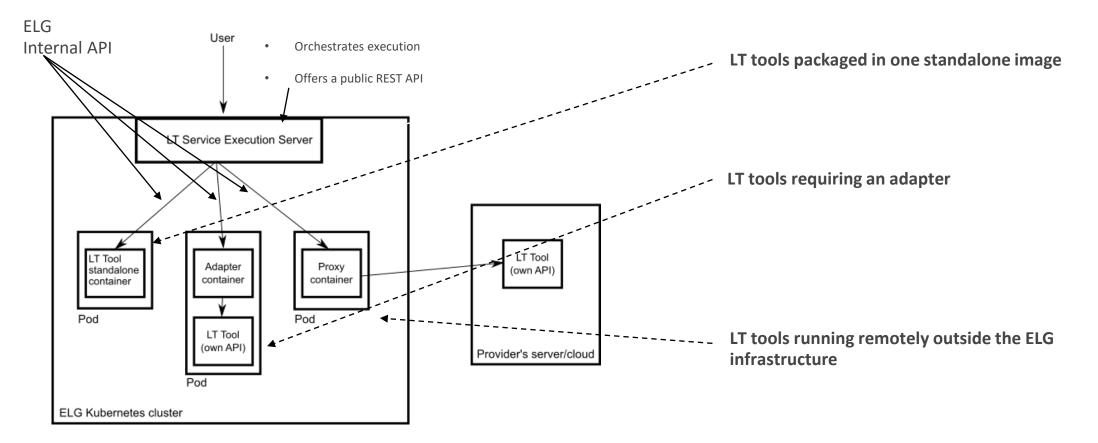
#### **Provide a functional LT service: Technical Requirements**

- Expose an ELG compatible endpoint:
- You MUST create an application that exposes an HTTP endpoint for the LT tool(s).
- The application MUST consume requests that follow the ELG JSON format, call the underlying LT tool and produce responses again in the ELG JSON format (ELG LT Internal API)
- E.g. for services that take as input plain text and return annotations (IE).

```
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                                                                                          "response":{
"params":{...}, /* optional */
                                                                                            "type": "annotations",
"content":"The text of the request",
                                                                                            "warnings":[...], /* optional */
// mimeType optional - this is the default if omitted
                                                                                            "features": {...}, /* optional */
"mimeType":"text/plain",
                                                                                            "annotations":{
"features":{ /* arbitrary JSON metadata about this content, optional */ },
                                                                                              "<annotation type>":[
"annotations":{ /* optional */
  "<annotation type>":[
                                                                                                  "start":number,
                                                                                                  "end":number,
      "start":number,
                                                                                                  "features":{ /* arbitrary JSON */ }
      "end":number,
      "features":{ /* arbitrary JSON */ }
```

#### **Provide a functional LT service: Technical Requirements**

• **Dockerization**: You MUST Dockerize the application and upload the respective image(s) in a Docker Registry, e.g. GitLab. Three integration options are available.



# Describe the LT service according to the ELG metadata schema

 Full metadata record example in XML: <u>https://gitlab.com/european-language-</u> grid/platform/metadatarecords/-/blob/master/R1a/USFD/hosted/annie-named-entity-recognizer.xml

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#### Describe the LT service according to the ELG metadata schema

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	<pre><ms:licenceidentifier ms:licenceidentifierscheme="http://w3id.org/meta-share/meta-share/SPDX">LGPL-3.0-onlyLGPL-3.0-onlyLGPL-3.0-onlyLGPL-3.0-onlyLGPL-3.0-onlyLGPL-3.0-onlyLGPL-3.0-onlyLGPL-3.0-onlyLGPL-3.0-onlyLicenceIdentifierScheme="http://w3id.org/meta-share/meta-share/SPDX"&gt;LicenceIdentifierScheme="http://w3id.org/meta-share/meta-share/SPDX"&gt;LicenceSPDX"</ms:licenceidentifier></pre>
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	<ms:annotationtype>http://w3id.org/meta-share/omtd-share/Location</ms:annotationtype>

# Describe the LT service according to the ELG metadata schema

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+ Corpus (252) + Tool/Service (161)	2006 CoNLL Shared Task - Ten Languages published	E Corpus
<ul><li>+ Lexical/Conceptual resource (21)</li><li>+ Language description (7)</li></ul>	2006 CoNLL Shared Task - Ten Languages consists of dependency treebanks in ten languages used as part of the CoNLL 2006 shared task on multi-lingual dependency parsing. The languages covered in this release are: Bulgaria	2 views 2 downloads
Languages + English (304) + Polish (64) + German (54)	Keyword:       corpus         Languages:       Dutch       Slovenian       Spanish       Turkish       Portuguese          Licences:       ELRA-END-USER-COMMERCIAL-NOMEMBER-NONCOMMERCIALUSE-1.0          ELRA-END-USER-COMMERCIAL-MEMBER-NONCOMMERCIALUSE-1.0	
+ French (52) https://live.european-language-grid.eu/catalogue/#/upload		

- Logged-in
- Assigned the "provider"

# Test LT service and publish (review process)

- The LT Service is assigned to a "reviewer"
- The LT tool is deployed to the ELG platform
  - The respective YAML files for kubernetes have to be created
- The LT Service is tested by the reviewer and the LT provider ...
- The service is "ingested" not "public"
- Test via UI
- Check container logs ...
- Troubleshoot ...
- Finally it is published to the catalogue

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# **Provide a functional LT service: FAQs**

- The task of packaging, deploying and registering an LT service to ELG is not "trivial"
- Many questions and several difficulties arise
- FAQs: <u>https://european-language-grid.readthedocs.io/en/release1.0.0/all/RegisterFunc.html#frequently-asked-questions</u>

• E.g.

- Q: How many resources will be allocated for my LT container in the k8s cluster?
- A: By default, 512MB of RAM and half a CPU core....
- Q: What is a k8s namespace and when should an LT Provider ask for one?
- A: A k8s namespace is a virtual sub-cluster, which can be used to restrict access to the respective containers that run within it. You should ask for a dedicated namespace when you need to ensure isolation and security

## Provide a data set

- Documentation:
- <u>https://european-language-</u> grid.readthedocs.io/en/release1.0.0/all/RegisterNonFunc.html
- <u>https://european-language-grid.readthedocs.io/en/release1.0.0/all/RegisterCorpus.html</u>
- Steps:
- Register to the platform and ask (by email to contact@european-language-grid.eu) to be granted "provider" permissions;
- Describe your dataset according to the ELG metadata schema -> upload
- Provide access to it (?)

## Provide a data set (corpus)

- Corpora are collections of data selected according to specific criteria:
- text corpora: monolingual, bilingual or multilingual collections of texts in a specific domain, e.g. news articles,
- corpora of audio recordings, e.g., lists of sentences recorded by individuals from a specific region with a dialect accent, etc.
- collections of videos, such as interviews with politicians
- corpora combining all of the above

# Provide a data set (example)

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<ul><li>+ Lexical/Conceptual resource (21)</li><li>+ Language description (7)</li></ul>	2006 CoNLL Shared Task - Ten Languages consists of dependency treebanks in ten languages used as part of the CoNLL 2006 shared task on multi-lingual dependency parsing. The languages covered in this release are: Bulgaria	2 views 2 downloads
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The dataset will be checked and published to the catalogue by a reviewer.



#### Thank you!

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