Guidelines for adding Text+ Services to the SSH Open Marketplace

Version	1.1
Editorial Date	30.04.2024
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Project	Text+ Sprach- und textbasierte Forschungsdateninfrastruktur
Title of Document	D IO 3.2: Guidelines for adding Text+ Services to the SSH Open Marketplace
Funding	DFG FKZ 460033370
Project Duration	01.10.2021 - 30.09.2026
Reporting Period	not applicable

Objective

With its portfolio, Text+ as an NFDI[1] consortium for language- and text-based research data addresses various tasks within scientific research data management. A significant part of this portfolio consists of services that are provided by the participating data and competence centers as well as developments within Text+. These services – with the term "service" defined broadly – are to be provided through the Text+ portal in a simple, understandable, and contextualized manner.

Approach

In principle, for the purpose of making structured data available, a catalog or database solution is suitable as it allows users to search data with parameters. This raises the question of the implementation effort. In Text+, in addition to the Federated Content Search (FCS), the Registry is being developed as a central technical backbone for providing research data. The three data domains are represented in the Registry with the entities "Collection", "Edition", and "Lexical Resource". Below this level, the Registry thus makes repositories available that either provide metadata, data, or a combination of both. Further entities are conceivable and can be brought together in use cases through mapping of the data models. Here, a registry can provide added value, e.g. a user finds a collection of specific research data and is suggested suitable tools. At this point, the fourth newly added entity, "Service", comes into play.

In addition to the above-mentioned provision of research data through services such as the FCS or the Registry, Text+ offers a range of services related to research data management or develops them as part of the funding. In this context, service is broadly defined and may include, for example, a tutorial explaining the use of a specific tool. A service can be an offering developed within Text+ as well as other existing services from contributing partners, provided they fit into the thematic context and research data management.

Users will typically search for and find services through two avenues: a search engine search or a thematic entry or information point. A thematic entry point could be a website established in the community. Typically, this will not be a project page, and research infrastructures also need to establish their visibility within the community.

Against this background, Text+ selects an approach that must fulfill the following criteria:
- Use of an offer already established in the community,
- Machine readability of metadata to be interoperable, for example, for an NFDI graph or to enable value-added services,
- Minimal or ideally no effort required for operating and maintaining the offer,
- Simple usability without entry barriers,
- Attractive, clear, and structured data corresponding to community standards.

The approach chosen by Text+ for making services visible therefore relies on:
- SSH Open Marketplace[2] as the actual provisioning and curation site of the descriptive metadata of the services,

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[1] NFDI: Nationale Forschungsdateninfrastruktur = National Research Data Infrastructure. See: https://www.nfdi.de/
[2] See: https://marketplace.sshopencloud.eu/

- Text+ Registry as the delivering service in the Text+ portal, which harvests the metadata from the SSH Open Marketplace,
- And the Text+ portal itself as the presentation layer on top of the registry.
- Overall, both Marketplace and Registry remain as machine-harvestable sources, with the Marketplace being the authoritative source.

In the following, only SSH Open Marketplace will be discussed in more detail, as it will be the place where human users will create or curate entries for services. The automatic provisionand harvesting of data are not the subject of this guide. However: the harvesting of Text+ related services from the SSH Open Marketplace is conducted via a simple search string looking for resources tagged with "Textplus" as keyword[3]. The technical approach is not relevant for the user. However, the described components may be studied in the Text+ Architecture v.1.0[4].

The SSH Open Marketplace
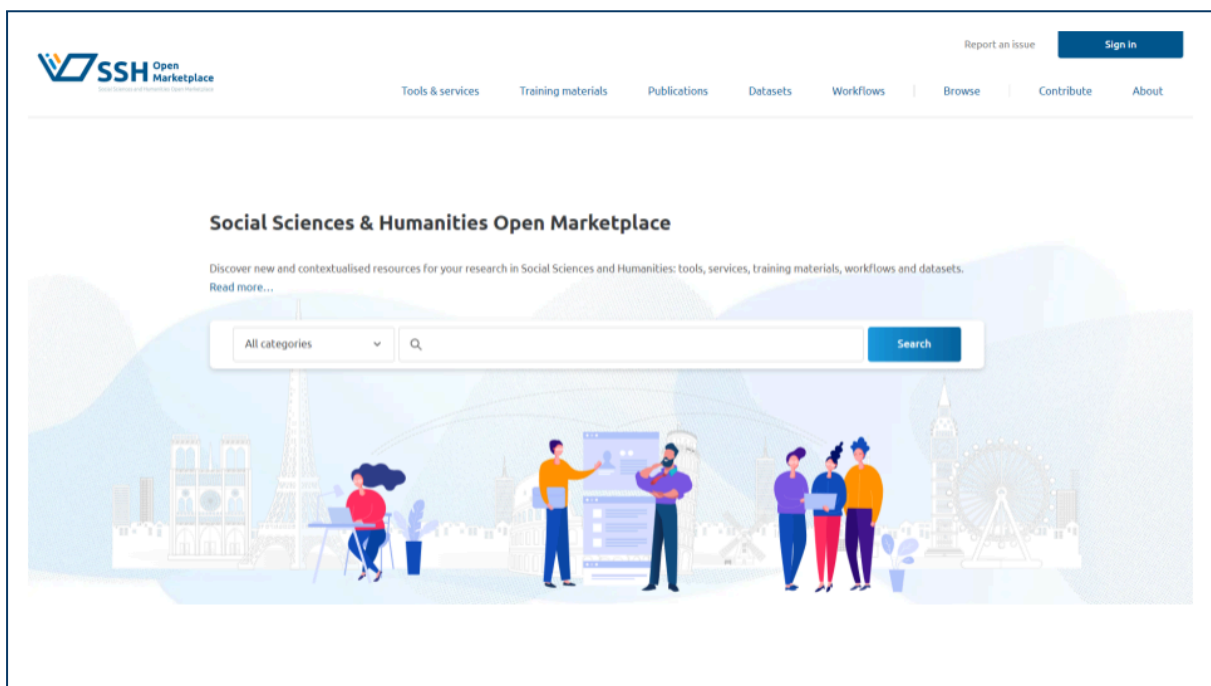
The SSH Open Marketplace is a service for social sciences and humanities researchers working with digital resources. The Marketplace provides the community with information on various resources, including tools, training materials, datasets, publications, and workflows.

A key characteristic of the Marketplace is the process described here: users help shape the platform through their entries and thus make an important contribution to making those digital resources visible that are of particular interest to the social sciences and humanities community. In this way, both service providers and researchers can manage and curate their resources themselves in a central place at the European level. Numerous individual national project websites no longer need to be curated individually (e.g. DARIAH-DE and CLARIAH-DE

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[3] The related search string: https://marketplace.sshopencloud.eu/search?f.keyword=Textplus
[4] See also: https://pad.gwdg.de/Dc9lrVYUTJiW97v9D0IlXg?view

as well as newly emerging NFDI websites with their respective service catalogs), but can link instead to the SSH Open Marketplace.

Regarding Text+, the SSH Open Marketplace serves as the sustainable and easy-to-use platform for describing the services Text+ provides for its community.

How to add a Text+ Service to the SSH Open Marketplace[5]

Below, the individual steps for adding a new service are described. Foremost, we take tools and services as examples. Other categories (e.g. publications, training materials etc.) might differ.

Login

First, you have to sign in to the Marketplace. For this, you may use any already existing credentials. You don't need to create a new account for the SSH Open Marketplace.
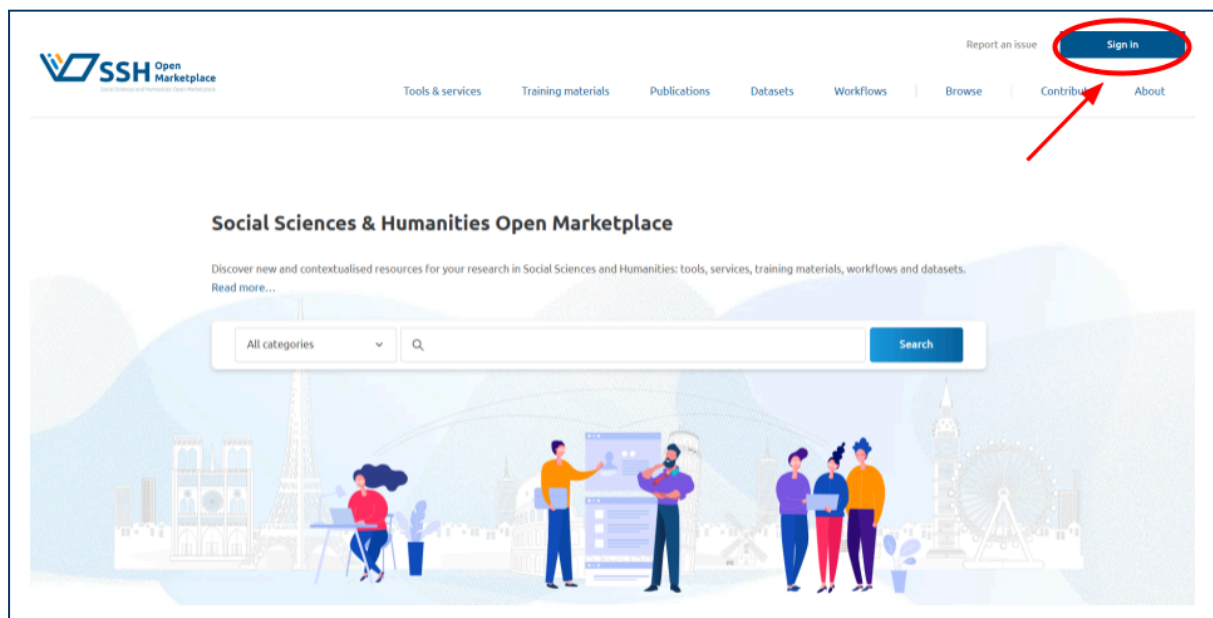
The European Open Science Cloud (EOSC) allows you to log in with existing credentials like your home institution, or with ORCID or Google. Regardless of which account you choose here, you should always use the same account for all subsequent logins, as your profile in the SSH Open Marketplace, and thus, the saved drafts of your entries will be linked to this identity.

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[5] A former version of these guidelines has been authored by Nanette Rißler-Pipka, Melina Jander, Laure Barbot, Stefan Buddenbohm, Edward Gray. See: Nanette Rißler-Pipka, Melina Jander, Laure Barbot, Stefan Buddenbohm, & Edward Gray. (2022). Guidelines for adding DARIAH National Resources to the SSH Open Marketplace (0.1). Zenodo. https://doi.org/10.5281/zenodo.7410294 and Nanette Rißler-Pipka, Melina Jander, Laure Barbot, Stefan Buddenbohm, & Edward Gray. (2023). Handreichung für das Einpflegen von Angeboten des GKFI e.V. in den SSH Open Marketplace (0.1). Zenodo. https://doi.org/10.5281/zenodo.7646522
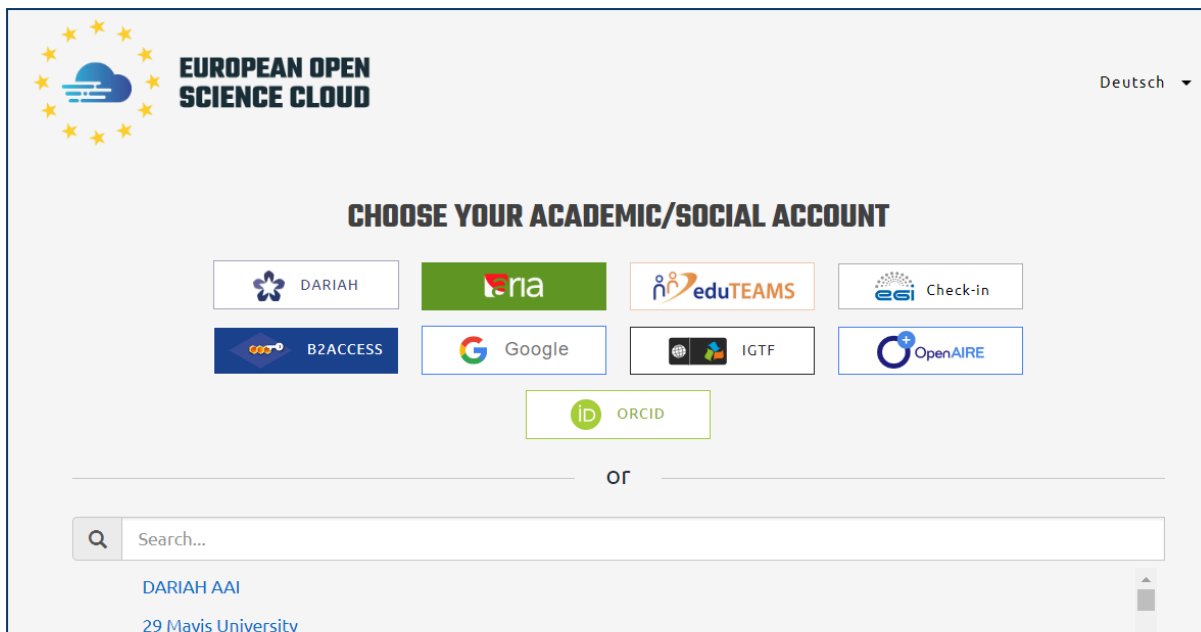
Choosing the resource type

If you want to create a new resource, you can choose from different categories, depending on the type of resource: tool or service, training material, publication, dataset, workflow. Definitions of the 5 resource types are [available here](). We take "tool or service" as an example.
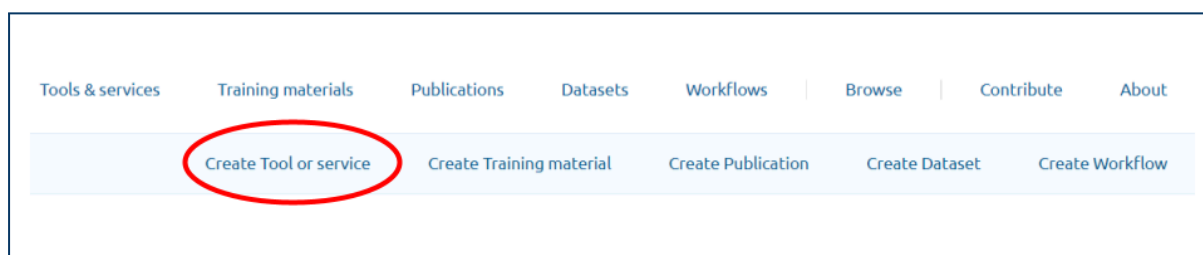
Metadata input

In the input mask, metadata about the resource is requested. The fields marked with an asterisk (*) are obligatory, i.e. the label and the description. Here you can, for example, copy and paste or revise the description texts that already exist on project websites. The descriptions should correspond to the current status of the resource. Also, the texts should be easy to understand and not too long. More information can be given in additional metadata fields (e.g. a contact address, helpdesk and other useful links).

The Label and the Description are the only metadata fields that are mandatory. All other fields are optional, but we recommend using some of them in order to make your resource recognizable as Text+ Service and easier to understand for the users.

Below the input fields, the respective metadata is described. Some input fields offer the selection from a drop-down menu (using in most cases a controlled vocabulary). The Marketplace provides general recommendation as to which metadata should be entered for which resource type and what the individual metadata fields mean.

Below, we have specified this table for **Text+ services** (Tools & Services).

The metadata fields

The mandatory metadata in the Marketplace are:

Label	Name of the resource. Where possible use "Text+" in the description (e.g. Text+ Helpdesk). If you don't want to brand the resource as Text+ this is also feasible.
Description	Brief description of the resource. If a resource has been developed within Text+ and with funding of the project, please include the following phrase: **Funded by the Deutsche Forschungsgemeinschaft (DFG) in the National Research Data Infrastructure (NFDI) - Grant Agreement Number: 25/1 460033370** Please include this phrase in the description of all other resources, which should relate to Text+: **This resource is supported by Text+. In case of questions you may get in touch with the Text+ helpdesk at textplus-support@gwdg.de.**
Keyword	**Textplus**

	You must select the "Textplus" keyword, in addition to any others. This will allow it to be picked up by our automated checks. You can also add another keyword field to make the resource findable for another system (e.g.CLARIN, DARIAH).
Accessible at	Link/URL to the resource. Landing page of the resource which could be the persistent identifier. Ideally, only one URL should be added to "as accessible at". For other URLs, see "externalID".

Additional and Optional Recommendations

Recommendations for Text+ Resources

The optional metadata in the SSH Marketplace are the fields in the "Actors" and "Properties" sections. The table below lists those metadata that are of particular relevance for adding Text+ resources. But: all of these are optional fields.

Actor/Property Field	How to fill it?	Explanation/Commentary
Provider (Actor)	Name the institution responsible for and providing the tool/service.	Can be more than one provider. For joint resources this field might be confusing for the user - and you can decide to skip it. In general, it makes the resources more trustworthy if provider info is given.
external IDs	External identifiers, such as Wikidata, Github or DOIs identifiers	In addition to the link/URL to the resource, external identifiers should be added when possible. They link Marketplace items to other authoritative

		sources and contribute to increase the (meta)data quality. See below for more details.
Activity	Choose at least one activity	Similar to Keyword, this is based on the TaDIRAH taxonomy - and is thus a controlled vocabulary. To be preferred over Keyword for activity description.
License	If applicable	Important information for the user! Based on a closed vocabulary. If license unknown, fill in Terms of Use textbox.
Authentication	If applicable	There is only a "yes" or "no" option, further information in Terms of Use or elsewhere is necessary
Terms of Use URL	If applicable	If you are not able to provide a link to a terms of use url you can either use the license (see above) or the Term of Use textbox
Language	name the language(s) of the resource	Based on a closed vocabulary. Important information if reasonable in context of the service. Language options of the user interface (multiple languages or add another field for each language)
Helpdesk URL	If applicable	If your tool or service is supported by a helpdesk, it is always useful information
User Manual URL	If applicable	If you provide a User Manual online, it is always useful information
Resource Category	If applicable	Based on the EOSC vocabulary - to be preferred over Tool Family
Technicality Readiness Level	if applicable	If you want to align with the EOSC marketplace, consider the Technicality Readiness Level indications here - to be preferred over Life Cycle Status
Discipline	If relevant	If your service is for a specific discipline, you might want to indicate it / you can alternatively use the Intended Audience field if you want to address a specific group (e.g. researchers, providers, data managers)
See also	If relevant	Links to non-MP materials that are relevant

Each metadata field can be selected multiple times if you want to specify more than one piece of information for the corresponding property. Depending on the property type, you can choose from an existing vocabulary, e.g. TaDiRAH 2, ISO 639-3 Language Codes, or the EOSC Resource Category List.

Thumbnails and other media

To visually enhance the resource entry, a thumbnail can be uploaded. For example, the logo of the resource or the reviewer is recommended. Screenshots of the user interface or other meaningful images can be added as media. The upload is possible both from a local memory drive and online via using URLs. For Text+ related resources the logo is a useful addition.

Related Items

If other entries and items in the Marketplace are related to your tool or service (e.g. training material or publications) it is very relevant information for the user to indicate this connection here. You have several options of how to specify the relation. Only registered entries of the MP can be chosen as a related item: if you start typing the name of the item it will be suggested automatically in a list.

Example resources

- TextGrid Repository & Lab:
  https://marketplace.sshopencloud.eu/tool-or-service/oKFMi6
- CLARIN UdS Repository: https://marketplace.sshopencloud.eu/tool-or-service/85qlGu
- RocketChat: https://marketplace.sshopencloud.eu/tool-or-service/3EeqTh
- GND - Eine Einführung: https://marketplace.sshopencloud.eu/training-material/tI8hV5

And finally...

After checking the entries once again, you can save them as draft (Save as draft), send them to the Editorial Team (Submit) or delete them (Cancel). Once you have clicked on Submit, you can no longer make any changes yourself. However, this does not mean that the entry will immediately appear on the Marketplace because it is first checked by the Editorial Team. After it is approved and published by a moderator, you can still suggest more changes. If you click on Save as draft, you can continue working on the item at any time. If you want to suggest the deletion of a published resource, you need to "Report an issue" and fill out the contact form or write to sshopenmarketplace@sshopencloud.eu. You can use this address also for any other request.