Purpose
This application profile is meant for exchange of machine-actionable DMPs between systems. It is independent of any internal data organisation used by these systems. The application profile does not prescribe how information must be presented to the end user and does not enforce any specific logic on how this information must be collected or used. The application profile is an information carrier and the full machine-actionability can only be achieved when systems using the application profile implement appropriate logic.

This application profile is intended to cover a wide range of use cases and does not set any business (e.g. funder specific) requirements. It represents information over the whole DMP lifecycle, that is, it can express planned actions, as well as actions already performed.

The application profile is NOT intended to be a prescriptive template or a questionnaire, but to provide a re-usable way of representing machine-actionable information on themes covered by DMPs.

Overview
Figure 1 presents concepts used within the application profile. Each concept is further broken down into specific fields (not depicted). The full application profile specification can be found online. Below we outline main concepts used within the application profile that are depicted in Figure 1.

DMP - Provides high level information about the DMP, e.g. its title, modification date, etc. It is the root of this application profile.

Project - Describes the project associated with the DMP, if applicable. It can be used to describe any type of project: that is, not only funded projects, but also internal projects, PhD theses, etc.

Funding - For specifying details on funded projects, e.g. NSF of EC funded projects.

Contact - Specifies the party which can provide information on the DMP.

Contributor - For listing all parties involved in the process of data management described by

![Diagram of the application profile for the machine-actionable DMPs](image-url)
this DMP, and those parties involved in the creation and management of the DMP itself.

**Cost** - Provides a list of costs related to data management.

**Dataset** - This follows the definition of Dataset in the W3C DCAT specification. Dataset can be understood as a logical entity depicting data, e.g. raw data. It provides high level information about the data.

**Distribution** - This follows the definition of Distribution in the W3C DCAT specification. Distribution points to a specific instance of a dataset. Hence, distribution contains information such as the format and size of files. A dataset can have several distributions.

**License** - Used to indicate the license under which data will be made available. It also allows for modelling embargoes.

**Host** - Provides information on the system where data is stored.

**Security and Privacy** - Used to indicate any specific requirements related to security and privacy of a specific dataset.

**Technical Resource** - For specifying equipment needed/used to create or process the data.

**Metadata** - Provides a pointer to a metadata application profile used to describe the data. It does not contain any actual metadata relating to the dataset.

**Methodology**

The group performed an open stakeholder consultation to define the scope of information covered by machine-actionable DMPs [1]. We identified typical processes that use information from maDMPs and developed prototypes that demonstrate how typical data management tasks can be automated [2] [3]. All these actions helped us in defining this application profile and also led to formulation of 10 principles for implementing machine-actionable DMPs [4]. Using this application profile helps in making data FAIR [5].

**Contact**

Participate by adopting the application profile in your setting. Sign up to the [RDA DMP Common Standards working group](https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard) to stay up to date. Contact chairs in case of any questions.

**Important links**

**Full specification**


**FAQ**

[https://git.io/JeX81](https://git.io/JeX81)

**JSON Examples**

[https://git.io/JeX8y](https://git.io/JeX8y)

**Slides, prototypes, etc.**

[https://git.io/JeX85](https://git.io/JeX85)

**References**


