

Metadata Element	Automation Potential	Mandatory	Implemented
Resource Title	Inserted manually. If not inserted by the user, default value is the dataset name.	Yes	Yes
Resource Abstract	Inserted manually	Yes	Yes
Identifier code and namespace (2 elements)	Take the Object Identifier of the spatial table in the database. This will form part of a unique URI for the dataset, which will also incorporate project and end user domain detail. In an academic context, a default value for a project or university could be used.	Yes	Yes
Resource type	Default to 'dataset'.	Yes	Yes
Resource language	It may be possible to implement this using language detection algorithms provided the dataset contains sufficient text. See Section 4.3.1 for details	No	Yes
Keyword(s)	This could be implemented by concatenating all text fields of the dataset and picking the top 10 repeating words while eliminating common words. See Section 4.2.2	Yes	Yes
Bounding Box (4 elements)	Can be automatically identified from the spatial coordinates in the dataset	Yes	Yes
Date of publication	Can default to the date that data was uploaded to the system, with updates when the data is edited. Manual verification required by the end user.	Yes	Yes
Date of last revision	Default to the date the data was uploaded to the system. Update automatically any time data edited	No	Yes
Date of creation	Default to the date the data was uploaded. Manual verification required by the end user	No	Yes
Limitations on public access and conditions of use (2 elements)	Given the academic context, a default value can be assigned, perhaps taking the most open value or perhaps on a per project basis.	Yes	No
Responsible party name, email and role (3 elements)	Based on user groups (identified from the user's login details and a corresponding lookup table).	Yes	Yes
Metadata contact name, email and date (3 elements)	This can be derived from the database login of the person uploading the dataset or creating the new dataset.	Yes	Yes
Metadata language	This can be detected by applying a language detection algorithm to the metadata (see 4.3.1 below)	Yes	Yes