

DATA STEWARDS AND ROLE OF LIBRARIANS

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Data Stewards

Data stewards

(Plotkin, 2014;
Walek, 2019)

- Individuals responsible for data governance and stewardship;
 - A person with predominantly technical expertise and responsibilities in data management;
 - An individual responsible for ensuring the quality, integrity, and security of an organization's data assets
 - Someone who manages data on behalf of someone else;
 - Are directly responsible for data management and for the support of data life cycle processes;
 - Are responsible for collecting, collating, and evaluating issues and problems with data.
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Data Stewards

Types of data stewards

Data stewards encompasses diverse types:

1. Business data stewards
2. Technical data stewards
3. Project data stewards
4. Domain data stewards
5. Operational data stewards

(Plotkin, 2014)

Data Stewards

Types of data stewards

1. Business data stewards

- Could be data analyst or business analyst;
- Key representative in a specific business areas;
- Assess enterprise impact of related to data changes;
- Provides input for data governance metrics;
- Coordinates their data work with many others in the institution;
- Identify data quality requirements;
- Work closely with technical stewards and business stakeholders.

(Plotkin, 2014)

Data Stewards

Types of data stewards

(Plotkin, 2014)

2. Technical data stewards

- IT personnel who support data governance and stewardship;
- Provide technical support on systems intelligent tools application, data creation, processes, stores, and warehouses;
- Ensure data quality control and rule enforcement;
- Respond to various technical queries;

Data Stewards

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(Plotkin, 2014)

3. Project data stewards

- Represent data stewardship on projects;
 - Funded by the projects;
 - Provide deliverables that belong to data governance
 - Coordinate and record various issues;
 - Provide the results as input back to the project;
 - Work with other data stewards;
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Data Stewards

Types of data stewards

4. Operational data stewards

- Work on the frontlines of data governance and stewardship;
- Assist business data stewards in identification collecting data metrics, and performing data analysis;
- Identify and communicate for opportunity for data quality improvement;
- Ensure adherence to data regulatory frameworks (i.e., policies, rules and procedures;
- Assist other data stewards to accomplish different tasks.

(Plotkin, 2014)

Data Stewards

Types of data stewards

5. Domain data stewards

- Official steward of shared data;
- Responsible for keeping track of data;
- Provide support to business data stewards;
- Help enforce business rules related to the data governance;
- Document the list of consulted business functions;
- Recommend changes to improve data quality;
- Ensure consistency of data usage across a data domain and share best practices

(Plotkin, 2014)

Data Stewards

Roles of librarians on data stewardship

(LIBER, 2018;
Constantinescu,
2018)

- Increasing research data-awareness amongst researchers;
 - Providing archiving and preservation services for data within the institution through institutional repositories;
 - Use their technical expertise to train and support researchers with their data from defining their needs to proposing practical solutions;
 - Librarians are in the position of implementing new and previously untested services such as data management.
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Data Stewards

Roles of librarians on data stewardship

- Librarians have a great opportunity to expand their services in ways that can benefit faculty and other users;
- Have ability to build stronger relationships with research communities.

(LIBER, 2018;
Constantinescu,
2018)

Data Stewards

References

Plotkin, D. (2014). *Data Stewardship: An Actionable Guide to Effective Data Management and Data Governance*. Morgan Kaufmann;

Wałek, A. (2019). Data librarian and data steward–new tasks and responsibilities of academic libraries in the context of open research data implementation in Poland. *Przegląd Biblioteczny*, 497-512.

Corrall, S. (2012). Roles and responsibilities: Libraries, librarians and data. *Managing Research Data*, 105-133.

LIBER Europe (2018). Data librarian, expert on research data management, description, archiving and dissemination. <https://libereurope.eu/blog/2018/05/14/data-librarian-expert-on-research-data-management/>

Constantinescu, N. (2018). Data librarian, the steward. *Revista Română de Biblioteconomie și Știința Informării*, 14(4), 113-121.