Public

What is data classification?

Who does this apply to?

Confidential / Sensitive

Assigning a sensitivity level to research data to identify and implement the appropriate controls for handling and protecting data based on sensitivity.

Anyone responsible for collecting, classifying, handling, sharing, or protecting research data at the University. This can include Principal Investigators, Research Facilitators, Graduate Students, Office of Research (ORS), and Technology Services (IT).

Research Data Classification Levels

Internal / Private

Data only available to limited authorized users ; unauthorized disclosure could result in severe harm to an individual or the University.	Data available to authorized users for research purposes; unauthorized disclosure could result in minor harm to an individual or the University.	Data deemed public by legislation or through a University policy; disclosure would not result in any harm to an individual or the University.
 Human participants' name, address, health & medical information, income Intellectual property Unpublished research data & library transactions 	 Research team meeting minutes & correspondence Contracts between researchers & community partners Project funders' contact information 	 Published research data Researchers' name and business contact information Aggregated human subject data (where re-identification is not possible)

Principal Investigator (PI) & Research Team (RT) Responsibilities

Data Identification	 ✓ Understand research data collected and used and identify sensitivity of data ✓ Inventory sensitive data and its flow through the information lifecycle ✓ Identify technologies involved and verify the ones within scope of the IT Team's support (University-provided or IT-approved technologies) 	
Data Classification	 ✓ PI: Assign a classification level to all research data and identify the appropriate controls for handling and protecting research data based on the classification assigned ✓ RT: Understand the classification level assigned and apply the appropriate controls for handling and protecting the data based on the classification 	
Data Collection	 ✓ Obtain voluntary and informed consent from research participants before or at the time of data collection. ✓ Limit collection of data only to what is necessary and to the identified purposes 	
Data Storage & Transmission	 ✓ Manage and limit access to research data on a role-based and need-to-know basis ✓ Implement controls to protect data in-storage and in-transit based on sensitivity ✓ Confidential data should not be shared through email; in cases of exception, removable media should be encrypted, and password protected before use 	
Data Usage	 ✓ Obtain fresh consent for secondary use of data ✓ Limit use of data only to identified purposes at the time consent was provided 	
Data Sharing	 Obtain consent from research participants before disclosing 'Confidential' data and ensure data sharing agreement is in place before disclosure to 3rd parties 	
Data Retention	✓ Retain all research data for a minimum of 7 years after the completion of research activities, as defined by the LUFA Collective Agreement, or based on separate retention requirements the data may be subject to	
Data Disposal	✓ Ensure all research data is securely disposed of through destruction or archival in accordance with the applicable disposal requirements – return University devices to Facilities for secure disposal; engage IT for guidance if needed	

DATA CLASSIFICATION Cheat Sheet



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- Human participants' name, address, health & medical information, income
- Intellectual property
- Unpublished research data & library transactions
- Research team meeting minutes 8 correspondence
- Contracts between researchers & community partners
- Project funders' contact information
- Published research data
- Researchers' name and business contact information
- Aggregated human subject data (where re-identification is not possible)

Office of Research Services & Research Facilitators Responsibilities



Develop & maintain the Research Data Guidelines & Standard; **periodically review** & **make updates** as changes are required



Monitor changes to privacy legislation, regulations, & University requirements that may impact the management of research data.



Communicate these changes to Researchers & incorporate updates to the Guidelines & Standard.



Data Identification

- Work with Researchers to understand the research data collected and used and identify sensitive data to be inventoried to capture its flow through the information lifecycle
- ✓ Identify technologies involved and verify the ones within scope of the IT Team's support (University-provided or IT-approved technologies)



Data Classification Provide Researchers with the classification levels and guidelines on controls for handling and
protecting research data so they can assign a classification level to all research data and identification the
appropriate controls to implement



Data Collection

Provide training and guidance to Researchers on obtaining voluntary and informed consent from
research participants before or at the time of data collection and limiting collection of data only to what
is necessary and to the identified purposes



Juliu Concellon

Data Storage &

✓ Provide training and guidance to Researchers on limiting access to research data on a role-based and need-to-know basis, implementing controls to protect data in-storage and in-transit based on sensitivity, and ensuring that storage of 'Confidential' data on removable media is encrypted, and password protected before use



Data Usage

Transmission

✓ **Provide training** and **guidance** to Researchers on **obtaining fresh consent** for **secondary use** of data and **limiting use of data** only to **identified purposes** at the time consent was provided



Data Sharing

Maintain a data sharing agreement template for Researchers' use when disclosing Confidential' data to 3rd parties, and provide training and guidance to Researchers on obtaining consent from research participants before disclosing 'Confidential' data



Data Retention

Provide training and guidance to Researchers on data retention requirements as defined by the LUFA Collective Agreement (retaining all research data for a minimum of 7 years after the completion of research activities) or based on separate retention requirements the data may be subject to



Data Disposal

Provide training and guidance to Researchers on ensuring all research data is securely disposed of in accordance with the applicable disposal requirements and that University devices are returned to Facilities for secure disposal

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IT Team Responsibilities

Identifying the scope of IT's responsibility to implement technical controls for handling & protecting research data



In Scope

- Research data that is within the Researcher's control and within the University's environment. This can include:
 - Research data stored on University-provided or ITapproved systems, applications, and devices
 - ✓ Data hosted within on-premise and cloud systems



- Research data stored and managed in an external third party's system that researchers are provided access to for use in research
- Research data stored on systems, applications, or devices that are not University-provided or approved by IT

Protecting data at rest



Ensure that University-provided technologies have effective security controls in accordance with defined University standards so Researchers can securely store research data.

Where removal media is required for storage of 'Confidential' data, provide encrypted, and password protected USBs to Researchers.

Protecting data in transit

'Confidential' research data should not be shared through email. In cases of exception, enable email encryption capabilities within the University's email system for Researchers' use.

Sharing of data should be done only via secure and authorized means that have been approved by IT (e.g., secure file transfer protocol).

Maintain a list of authorized sharing methods to help Researchers verify what is appropriate to use.and Implement these capabilities upon request

Audit Logs of Access to Data

Audit trails should be enabled for systems/applications that contain 'Confidential' research data to track user activities (e.g., access, edits, downloads).

Review audit logs to investigate user activities when there is a suspected or reported privacy or security incident and retain audit logs for at least a year with a minimum of two months immediately available for analysis.

Threat and Vulnerability Management

Systems, applications, and servers containing 'Confidential' research data should undergo threat and vulnerability management testing on a monthly basis.

Vulnerability scans should be performed on a monthly basis and rescans should be performed after a significant change to the system/application/server, or to test and inspect that a vulnerability identified has been remediated

Implementing the appropriate data disposal requirements using the following methods:

Electronic data

Destroy data, including backups, using a process that

ensures the data cannot be recovered and used for

unauthorized purposes.



University-provided physical devices

University-provided devices are to be **returned to the Facilities** team for secure disposal. **Provide guidance to Researchers** on returning physical devices upon request.

Data Storage & Transmission

Data Identification

Data Disposal