



## **Caring about Sharing: User Perceptions of Multiparty Data Sharing**

Bailey Kacsmar, Kyle Tilbury, Miti Mazmudar,  
and Florian Kerschbaum, *University of Waterloo*

<https://www.usenix.org/conference/usenixsecurity22/presentation/kacsmar>

**This artifact appendix is included in the Artifact Appendices to the Proceedings of the 31st USENIX Security Symposium and appends to the paper of the same name that appears in the Proceedings of the 31st USENIX Security Symposium.**

**August 10–12, 2022 • Boston, MA, USA**

978-1-939133-31-1

**Open access to the Artifact Appendices  
to the Proceedings of the 31st USENIX  
Security Symposium is sponsored  
by USENIX.**

## A Artifact Appendix

### A.1 Abstract

Our artifact consists of the study protocol with respect to the survey provided to respondents. Additionally, we include expanded details of our statistical evaluation. We provide two supplemental files for the replication and interpretation of the work in the paper "Caring about Sharing: User Perceptions of Multiparty Data Sharing" to appear at USENIX Security 2022. Note that the survey includes opening and closing text as per the University of Waterloo's office of research ethics. This study received approval under ORE #: 41762.

There are no additional hardware or software requirements beyond a computer to access the files online. Readers can review the conclusions of our paper using the expanded statistics with respect to the tests performed and the test statistic values. The provided survey can be used to replicate our results or to apply them to different population sets or for related privacy perception studies.

### A.2 Artifact check-list (meta-information)

- **Security, privacy, and ethical concerns:** This study received approval under ORE #: 41762. Participants were able to quit the study at any point and still receive remuneration. They were informed of the bounds of the study before participating and informed of the privacy focus after the study.
- **Publicly available:** <https://github.com/bkacsmar/CaringAboutSharing>)
- **Archived:** <https://github.com/bkacsmar/CaringAboutSharing/releases/tag/V1.Usenix.22>

### A.3 Description

#### A.3.1 How to access

All files can be accessed at <https://github.com/bkacsmar/CaringAboutSharing>. They can be read in their online form, selectively downloaded, or by git-cloning the repository.

#### A.3.2 Hardware dependencies

Not applicable.

#### A.3.3 Software dependencies

Not applicable.

#### A.3.4 Data sets

Not applicable.

#### A.3.5 Models

Not applicable.

#### A.3.6 Security, privacy, and ethical concerns

### A.4 Installation

Not applicable.

### A.5 Evaluation and expected results

- The overall acceptability of multiparty data sharing is lower for collaborations that are not reciprocal. The inclusion of a health company in non-reciprocal collaborations is even less
- Across user controls, preferences for consent vary the most between collaboration types, however, opt-in consent is, generally speaking, the most acceptable.

To reproduce our results, if a study was done that sampled the same population, after doing the statistical tests, the same results should be found. We provide the results of our statistical tests across all variables we measured and our results can be verified by reviewing the values of the test statistics.

### A.6 Version

Based on the LaTeX template for Artifact Evaluation V20220119.