

## INFORMED CONSENT FOR PARTICIPATION IN RESEARCH ACTIVITIES

### Whom to Contact about this study:

Principal Investigator: Prajit Kumar Das

Department: Computer Science and Electrical Engineering

Telephone number: (410) 455-2668

Mobile Access Control Survey

### **I. INTRODUCTION/PURPOSE:**

I am being asked to participate in a research study. The purpose of this study is to streamline part of the process of determination of access control policies. I am being asked to volunteer because I am a regular everyday user and the study wants to determine if it is feasible to use their methodology to capture my privacy policy. My involvement in this study will begin when I agree to participate and will continue until August 2017. About 100 persons will be invited to participate.

### **II. PROCEDURES:**

As a participant in this study, I will be asked to carry out the following tasks for the study:

1. Install the MithrilAC app from the app's website @ <https://mithril.online>
2. Setup the app by adding my work/home location, my working hours/do-not-disturb hours and if available, choose from a list of BluetoothIDs, who are my colleagues and supervisor. The information input by me in this app setup process will never leave my phone and will remain private to me.
3. Over the next few months, the app will detect app launch events that are "violations" of the installed access control policy.
4. The app will collect data in an iterative fashion and will request my feedback on "true" violations (which means I agree with the current policy) or a "false" violation (something that I expect to happen).
5. For a "false" violation, I will be asked to state modifications required to the current default policy. The modification to the policy will either add, delete or modify policy conditions. The changes should reflect perceived notion of policy conditions, under which the launch behavior should be allowed in the future. Modification to policy condition could be done by generalizing or specializing the conditions as available in the app.
6. I will be asked to submit my feedback through the app by explicitly clicking on the upload button. My participation in this study will last for seven months and I will be asked to give feedback at the end of each week through the app. I will not be required to come to a location as part of this study. The surveys conducted in this study are anonymous and will not contain information that may personally identify me.
7. A policy in this study has the structure:
  - *<Do/don't> launch an <app/category of apps> at a <location/timeOfDay/inPresenceOfSomeone>*
  - e.g. **DON'T launch Facebook at work or school.**The modification to such a policy could be "Do launch at school during lunch hours".

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8. The information uploaded by the app will be “Violation1” about Facebook was not a “true” violation and “Policy1” has now been modified to “Allow Facebook at work or school during lunch hours”.
9. Since the information uploaded about my modifications are generic like “work”, “lunch hours” and not my work address, none of the information uploaded by the app will be personally identifiable information.

### III. RISKS AND BENEFITS:

My participation in this study does not involve any significant risks and I have been informed that my participation in this research will not benefit me personally, but the results will allow the researchers to design a methodology to create a person’s preferred access control policy. Such a methodology does not exist at present and system administrators design them for everyone, as a result of which access control systems tend to be rigid. This methodology will allow systems to easily capture such policies.

### IV. CONFIDENTIALITY:

Any information learned and collected from this study in which I might be identified will remain confidential and will be disclosed ONLY if I give permission. The investigator (s) will attempt to keep my personal information confidential. To help protect my confidentiality the app does not upload any personally identifiable information. Information like my work location and working hours remain on the phone and in each weekly feedback iteration the upload occurs by explicit consent from me. I can check the information that is being uploaded in the log shown on the upload screen.

Only the investigator and members of the research team will have access to these records. If information learned from this study is published, I will not be identified by name. By signing this form, however, I allow the research study investigator to make my records available to the University of Maryland Baltimore County (UMBC) Institutional Review Board (IRB) and regulatory agencies as required to do so by law.

Consenting to participate in this research also indicates my agreement that all information collected from me individually may be used by current and future researchers in such a fashion that my personal identity will be protected. Such use will include sharing anonymous information with other researchers for checking the accuracy of study findings and for future approved research that has the potential for improving human knowledge.

The surveys are anonymous and will not contain information that may personally identify me.

### V. SPONSOR OF THE RESEARCH:

(Name of external sponsor) is the sponsor of [or “is funding”] this research study. **If there is no sponsor, delete this section**

### VI. COMPENSATION/COSTS:

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My participation in this study will involve no cost to me. I will not be paid any compensation for participating in this study.

### **VII. CONTACTS AND QUESTIONS:**

The principal investigator(s), Prajit Kumar Das has offered to and has answered any and all questions regarding my participation in this research study. If I have any further questions, I can contact Prajit Kumar Das at (410-4552668, [prajit1@umbc.edu](mailto:prajit1@umbc.edu)).

If I have any questions about my rights as a participant in this research study, contact the Office of Research Protections and Compliance at (410) 455-2737 or [compliance@umbc.edu](mailto:compliance@umbc.edu).

### **VIII. VOLUNTARY PARTICIPATION**

I have been informed that my participation in this research study is voluntary and that I am free to withdraw or discontinue participation at any time. I have been informed that data collected for this study will be retained by the investigator and analyzed even if I choose to withdraw from the research. If I do choose to withdraw, the investigator and I have discussed my withdrawal and the investigator may use my information up to the time I decide to withdraw.

### **IX. SIGNATURE FOR CONSENT**

The above-named investigator has answered my questions and I agree to be a research participant in this study. Since this is an anonymous study, I will not need to physically sign a document. However, by clicking on the “I agree” button that follows this form, I provide my consent to be a participant in this study.

Participant's Name: N/A, this is an anonymous study Date: \_\_\_\_\_

Participant's Signature: N/A, this is an anonymous study Date: \_\_\_\_\_

Investigator's Signature: Prajit Kumar Das Date: January 19, 2017