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Offener Brief zur Corona-App

Forschende aus aller Welt warnen vor Daten-Missbrauch und ungeahnten Überwachungsmöglichkeiten.

von Manovas Weltredaktion
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Als Maßnahme gegen die Ausbreitung des Coronavirus diskutieren Politikerinnen und Politiker unter

anderem den Einsatz von Apps, die Nutzerinnen und Nutzer warnen sollen, dass sie sich in der Nähe einer Person befunden haben, die später die Diagnose Covid-19 erhielt. Im Zuge der Maßnahmen zur Eindämmung der Covid-19-Pandemie könnte eine Smartphone-Anwendung – eine Corona-Tracking-App – nützlich sein. Wissenschaftler, Unternehmer und Politiker arbeiten aktuell an verschiedenen Konzepten, die dabei helfen sollen, Kontakte zu infizierten Menschen mithilfe der Anwendung sichtbar zu machen. In einem offenen Brief warnen internationale Wissenschaftlerinnen und Wissenschaftler nun vor Missbrauch.

Dabei kann im Wesentlichen zwischen zwei Ansätzen

unterschieden werden: einem zentralen Ansatz, bei dem alle Daten zu den Interaktionen auf einem einzigen Server gespeichert und im Falle einer Infektion an die Betroffenen automatisch verschickt würden, und einem dezentralen Ansatz, bei dem die Daten verteilt gespeichert werden und nur manuell von den Usern abgerufen werden können.

In einem offenen Brief appellieren nun Forscherinnen und Forscher aus aller Welt, unter ihnen auch zahlreiche Mitglieder des Horst-Görtz-Instituts für IT-Sicherheit der RUB, für einen verantwortungsbewussten Umgang mit den Rechten auf Privatsphäre und Datenschutz aller User innerhalb des Entwicklungsprozesses einer solchen App.

„Wir sind besorgt, dass einige Lösungen für die Krise in schleichenden Prozessen zu Systemen führen könnten, die eine

beispiellose Überwachung der Gesellschaft ermöglichen würden“, erklären die Unterzeichnenden in ihrem Statement vom 19. April 2020. Sie weisen dafür auf eine dezentrale Vorgehensweise zur Umsetzung hin und plädieren für eine Bluetooth-basierte Lösung, die Datenschutz- und Privatsphäre-Bestimmungen einhält.

„Es ist von entscheidender Bedeutung, dass wir, um aus der gegenwärtigen Krise herauszukommen, kein Instrument schaffen, das eine groß angelegte Datenerhebung über die Bevölkerung ermöglicht, weder jetzt noch zu einem späteren Zeitpunkt“, heißt es in dem offenen Brief.

Empfehlungen der Unterzeichnenden

Um dies zu gewährleisten, geben die Forschenden dezidierte Empfehlungen aus. So soll eine Corona-Tracking-App nur im Rahmen von gesundheitsfördernden Maßnahmen genutzt werden können, das Sammeln weiterer User-Daten soll mit dem System nicht möglich sein. Außerdem soll die Entwicklung transparent vollzogen werden: „Die Protokolle und ihre Implementierungen, einschließlich aller von Unternehmen bereitgestellten Teilkomponenten, müssen zur öffentlichen Analyse verfügbar sein. Die verarbeiteten Daten und ob, wie, wo und wofür sie gelagert werden, müssen eindeutig dokumentiert werden“, fordern die Wissenschaftler und Wissenschaftlerinnen. Zudem sollte immer die privatsphärefreundlichste Option gewählt werden, falls verschiedene Möglichkeiten zur Implementierung einer bestimmten Komponente oder Funktionalität von der App existieren würde.

Ein wesentliches Merkmal zur Nutzung solcher Apps nennen die Unterzeichnenden in ihrem Appell zuletzt:

Der Einsatz einer solchen App soll immer nur auf

freiwilliger Basis und mit der ausdrücklichen Zustimmung des Nutzers oder der Nutzerin erfolgen. Die Anwendung solle so konzipiert sein, dass sie nach der Krise deinstalliert und die gesammelten Daten vollständig gelöscht werden können.

Originaltext des öffentlichen Briefes auf Englisch

Joint Statement on Contact Tracing: Date 19th April 2020 (<https://drive.google.com/file/d/1OQg2dxPu-x-RZzETlpV3lFa259Nrpk1J/view>)

The undersigned represent scientists and researchers from across the globe. The current Covid-19 crisis is unprecedented and we need innovative ways of coming out of the current lockdowns. However, we are concerned that some „solutions” to the crisis may, via mission creep, result in systems which would allow unprecedented surveillance of society at large. Contact tracing is a well-understood tool to tackle epidemics, and has traditionally been done manually. However, manual contact tracing is time-consuming and is limited to people who can be identified.

In some situations, so-called „contact tracing Apps” on peoples’ smartphones may improve the effectiveness of the manual contact tracing technique. These Apps would allow the persons with whom an infected person had physical interaction to be notified, thus enabling them to go into quarantine. The Apps would work by using Bluetooth or geolocation data present in smartphones. Though the effectiveness of contact tracing Apps is controversial, we need to ensure that those implemented preserve the privacy of their users, thus safeguarding against many other issues, noting that such Apps can otherwise be repurposed to enable unwarranted discrimination and surveillance.

Research has demonstrated that solutions based on sharing geolocation (i.e., GPS) to discover contacts lack sufficient accuracy and also carry privacy risks because the GPS data is sent to a centralized location. For this reason, Bluetooth-based solutions for automated contact tracing are strongly preferred when available. Some of the Bluetooth-based proposals respect the individual's right to privacy, whilst others would enable (via mission creep) a form of government or private sector surveillance that would catastrophically hamper trust in and acceptance of such an application by society at large. It is crucial that citizens trust the applications in order to produce sufficient uptake to make a difference in tackling the crisis. It is vital that, in coming out of the current crisis, we do not create a tool that enables large scale data collection on the population, either now or at a later time.

Thus, solutions which allow reconstructing invasive information about the population should be rejected without further discussion. Such information can include the „social graph” of who someone has physically met over a period of time.

With access to the social graph, a bad actor (state, private sector, or hacker) could spy on citizens' real-world activities. Some countries are seeking to build systems which could enable them to access and process this social graph. On the other hand, highly decentralized systems have no distinct entity that can learn anything about the social graph.

In such systems, matching between users who have the disease and those who do not is performed on the non-infected users' phones as anonymously as possible, whilst information about non-infected users is not revealed at all.

To aid the development of contact tracing without a centrally controlled database that holds private information on individuals, Google and Apple are developing infrastructure to enable the

required Bluetooth operations in a privacy protective manner. Teams building the privacy protective schemes fully support this effort as it simplifies – and thus speeds up – the ability to develop such Apps.

We applaud this initiative and caution against collecting private information on users. Some who seek to build centralized systems are pressuring Google and Apple to open up their systems to enable them to capture more data. It is worth noting that the European Parliament on April 17th gave their support to the decentralized approach, pointing out by overwhelming majority „that [...] the generated data are not to be stored in centralised databases, which are prone to potential risk of abuse and loss of trust and may endanger uptake throughout the Union” and demanding „that all storage of data be decentralised”.

There are a number of proposals for contact tracing methods which respect users’ privacy, many of which are being actively investigated for deployment by different countries. We urge all countries to rely only on systems that are subject to public scrutiny and that are privacy preserving by design (instead of there being an expectation that they will be managed by a trustworthy party), as a means to ensure that the citizen’s data protection rights are upheld.

The following principles should be at least adopted going forward:

- Contact tracing Apps must only be used to support public health measures for the containment of Covid-19. The system must not be capable of collecting, processing, or transmitting any more data than what is necessary to achieve this purpose.
- Any considered solution must be fully transparent. The protocols and their implementations, including any sub-components provided by companies, must be available for public analysis. The processed data and if, how, where, and for how long they are stored must be documented unambiguously. Such data collected should be minimal for the given purpose.
- When multiple possible options to implement a certain component or functionality of the app exist, then the most privacy-preserving option must be chosen. Deviations from this principle are only permissible if this is necessary to achieve the purpose of the app more effectively, and must be clearly justified with sunset provisions.
- The use of contact tracing Apps and the systems that support them must be voluntary, used with the explicit consent of the user and the systems must be designed to be able to be switched off, and all data deleted, when the current crisis is over.

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Dieser Artikel erschien bereits auf www.rubikon.news.



Es bringt wenig, nur im eigenen, wenn auch exquisiten Saft zu schmoren. Deshalb sammelt und veröffentlicht **Manovas Weltredaktion** regelmäßig Stimmen aus aller Welt. Wie denken kritische Zeitgenossen in anderen Ländern und Kulturkreisen über geopolitische Ereignisse? Welche Ideen haben sie zur Lösung globaler Probleme? Welche Entwicklungen beobachten sie, die uns in Europa vielleicht auch bald bevorstehen? Der Blick über den Tellerrand ist dabei auch ermutigend, macht er doch deutlich: Wir sind viele, nicht allein!

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