

Academics advise how to keep data secure in a cyber world

November 26 2014



Cyber security experts from the University of Bristol have advised the European Union Agency for Network and Information Security (ENISA) on how to protect the personal data of millions of citizens.

Two reports, edited by Professor Nigel Smart, Professor of Cryptology, have been published by ENISA.

- [The Algorithms, key size and parameters report 2014](#) is a reference document providing a set of guidelines to decision makers, in particular specialists designing and implementing cryptographic solutions related to commercial online services.
- [The Study on cryptographic protocols](#) provides an

implementation perspective, covering guidelines regarding protocols required to protect commercial online communications containing [personal data](#).

The reports give guidance to corporations, member states, and the wider community about current best scientific practice in the rapidly advancing field of cryptography.

The first report provides a set of proposals in an easy to use form, with a focus on commercial online services that collect, store and process the personal data of EU citizens.

The second report focuses on the current status in cryptographic protocols and encourages further research. A quick overview is presented on protocols which are used in relatively restricted application areas, such as wireless, mobile communications or banking (Bluetooth, WPA/WEP, UMTS/LTE, ZigBee, EMV) and specific environments focusing on Cloud computing.

The reports, which also had input from a number of members from the Cryptography Research group in the Department of Computer Science, provide an update to the [2013 cryptographic guidelines report](#) on security measures required to protect personal data in online systems.

Professor Smart said: "It was a joy to work with ENISA once again on the 2014 reports. We received a lot of positive responses from various stakeholders related to last year's report, and we hope the new reports will have a similar impact."

Provided by University of Bristol

Citation: Academics advise how to keep data secure in a cyber world (2014, November 26)

retrieved 7 May 2024 from <https://phys.org/news/2014-11-academics-cyber-world.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.