WHY IS USABLE SECURITY HARD? AND WHAT SHOULD WE DO ABOUT IT?

Adrienne Porter Felt, Google

A security feature should be...

invisible when you don't need it, helpful when you do



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They brought in the horrible key ing thing!" Analysing the Jsability of Two-Factor Authentication in UK Online Banking (Web Ever Pulpeou, Emiliano De Crimeter, M. Angele Seare Submitted on 19 Jan 2015) To prevent password breaches and guessing attacks, banks increasingly turn to two-factor authentication (2FA), requiring users to present at least one more factor, such as a one-time password generated by a hardware token or received via SMS, besides a password. We can expect some solutions – especially those adding a token – to create extra work for users, but little research has investigated usability, user acceptance, and perceived security of deployed 2FA. This paper presents an in-depth study of 2FA usability with 21 UK online banking customers, 16 of whom had accounts with more than one bank. We collected a rich set of qualitative and quantitative data through two rounds	Current browse context: e.cd * mer (resert 150) Change to browse by: e.c.i0 References & Citations • NASA.400 DBLP - CS Bibliography lating black Browse Context Browse Co
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October 2015,

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Usable security is science, BUT NOT ENOUGH PEOPLE TREAT IT LIKE SCIENCE









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The site ahead contains malware

Attackers currently on **example.com** might attempt to install dangerous apps on your device that steal or delete your information (for example, photos, passwords, messages, and credit cards).

BACK TO SAFETY
DETAILS

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Deceptive site ahead

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Attackers on **example.com** may trick you into doing something dangerous like installing software or revealing your personal information (for example, passwords, phone numbers, or credit cards).

BACK TO SAFETY

DETAILS

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Control	The website ahead contains malware!
	The website ahead contains malware! Go back!
Control	This file is malicious.
	This file is malicious. Discard this file to stay safe.
	This file is malicious. To stay safe, don't run it.
	This file is malicious. To stay safe, discard it.

Control	The website ahead contains malware!	84%
	The website ahead contains malware! Go back!	82%
Control	This file is malicious.	77%
	This file is malicious. Discard this file to stay safe.	76 %
	This file is malicious. To stay safe, don't run it.	78 %
	This file is malicious. To stay safe, discard it.	74%



×

Your connection is not private

Attackers might be trying to steal your information from example.com (for example, passwords, messages, or credit cards). NET::ERR_CERT_CONTAINS_ERRORS

Automatically report details of possible security incidents to Google. <u>Privacy policy</u>

BACK TO SAFETY

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La conexión no es privada

Es posible que usuarios no autorizados estén intentando robar tu información de **example.com** (por ejemplo, contraseñas, mensajes o tarjetas de crédito). NET::ERR_CERT_CONTAINS_ERRORS

Informar automáticamente detalles de posibles incidentes de seguridad a Google (<u>Política de privacidad</u>)

VOLVER A SEGURIDAD

AVANZADA

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MALWARE WARNINGS



HTTPS ERROR WARNINGS



Usable security is science, so do great science & share it with everyone