



Security vs. Privacy?

Analysis of Privacy Policies of IT Security Software

ABOUT AV-TEST





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- Tests of security products regarding their protection performance
 - Anti-Virus software
 - Soft-/Hardware
 - Cloud Services
- Certification and awarding of outstanding products

PRE-USAGE: DOCUMENTATION



- Find privacy information!
 - Online (19/27)
 - During installation (6/27)

→ discrepancy: 2/27 without information about privacy topics

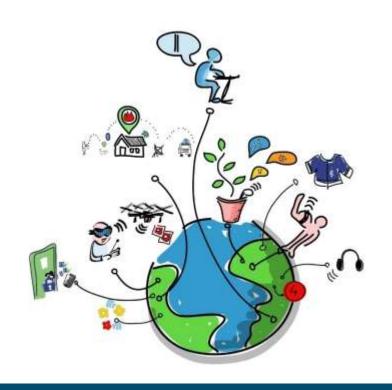
- And have the necessary skills…!
 - English version used
 - Flesch-Kincaid Reading Ease score
 - Values from 11 to 55 (22 to 11 school years)
 - Average of 38 (14 school years)



PRE-USAGE: INSTALLATION



- Hardware information
 - Device brand and model (11/25)
- Software information
 - Installed software packages (15/25)
- Licensing
 - Product version (13/25)
 - License number (10/25)
 - Product-ID (10/25)
 - Installation path (5/25)



PRE-USAGE: REGISTRATION



■ Personal infoxing和學中心現場徵才活動求職登記簡表

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*本表格同意經基隆就業中心辦理就業服務系統登記,並於微才是歐複提與關東服務 (1/25)																	
*敬請詳細填寫以上表格,並確認所提供之資料均屬實。 簽名:																	

USAGE: SYSTEM SCANS



Scanned files

- File hashes (13/25)
- Detection name (7/25)
- Detection path (7/25)
- Registry information, Certifications (1/25)
- System libraries, file size (2/25)

Furthermore...

- Suspicious executables (15/25)
- Suspicious documents (1/25)
- Anonymisation (1/25)

USAGE: THREAT MONITORING



- General computer usage (10/25)
 - Memory (6/25) and battery status (3/25)
 - Running processes (8/25)
 - System error logs (4/25)
 - Login name (4/25)
- Identifier
 - Device ID (10/25)
 - MAC Address (5/25)
 - Computer network name (5/25)
 - SIM number (2/25)



USAGE: WEB PROTECTION / COMMUNICATION



- Communication
 - Emails (4/25)
 - Anonymization (1/25)
 - Contacts (1/25)
 - Social media (5/25)
 - Chat accounts and logs (1/25)
- Online activity (14/25)
 - Search queries (5/25)
 - Click streams (3/25)

- Furthermore...
 - Pictures and photos (4/25)
 - Audio and video recordings (1/25)
 - Biometric data (1/25)

USAGE: ID / THEFT PROTECTION



- Personal identifiers
 - ID card number (1/25)
 - Social security number (1/25)
 - Driving license number (1/25)
 - (Credit card/bank account data)
- Access to
 - Desktop content (1/25)
 - Camera (1/25)

BEYOND DATA COLLECTION...



- Storage
 - Retention periods hardly covered
- Transfer
 - Encryption (11/25), naming valid technique (7/25)
 - References to Safe Harbor (4/25)
- Data processing
 - Data sharing/combination
 - Processing techniques and purposes
 - Anonymization

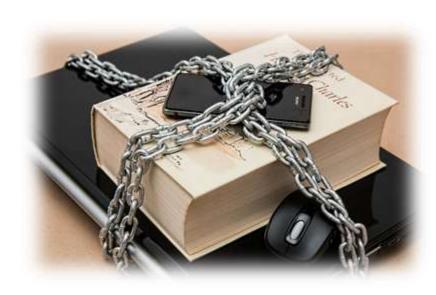


Image source: http://de.iceage.wikia.com/wiki/Scrat

GENERAL REMARKS



- Differing document quality
 - Completeness, comprehensibility, clarity
 - Validity dates from 2013-2016
 - Language versions do not always match
- Usage of design elements
 - Videos, graphical novels, summaries
- Limitations of this evaluation
 - User perspective
 - Assessment of available information
 - Interpretation of ambiguities



OPEN QUESTIONS



- Examination of software
 - Registration procedure
 - Opt-out mechanisms
 - Add-ons/PUA
- Dialogue with manufacturers
 - Storage modalities, anonymization
 - Data processing, Profiling
 - Data sharing







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Thank you for your attention!





