General Data Protection Regulation and cryptographic solutions

Bavo Van den Heuvel

CIPP/E – CIPM – CIPT ISO27001 Lead Auditor – Forensic Computer Auditor Data Protection Officer

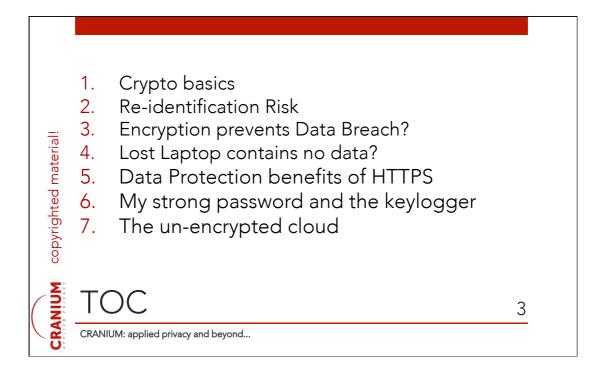
Barcelona, July 7 2015

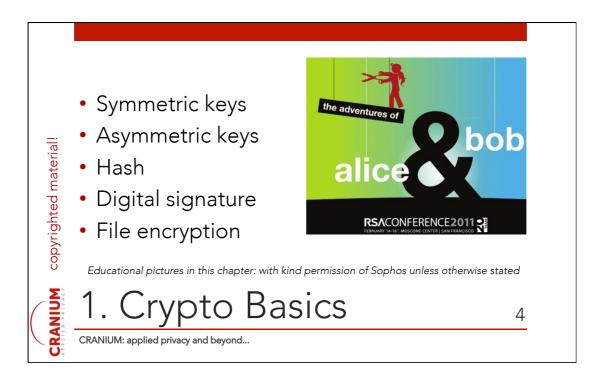
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CRANIUM

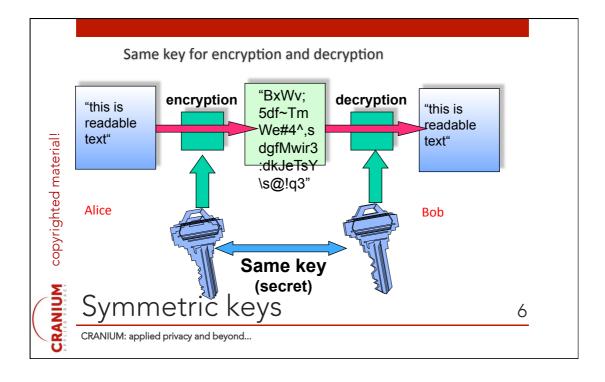
bavo@cranium.be

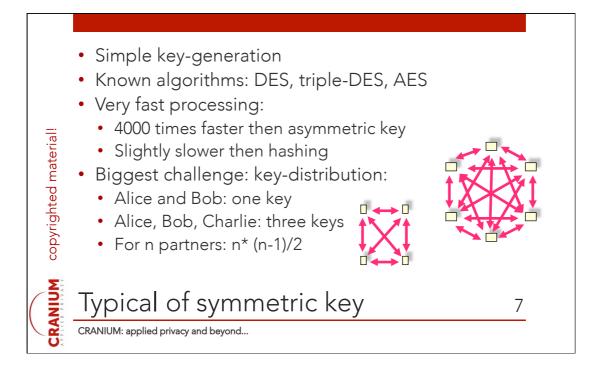


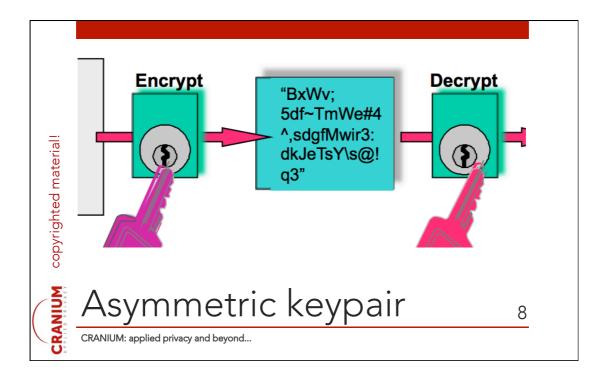


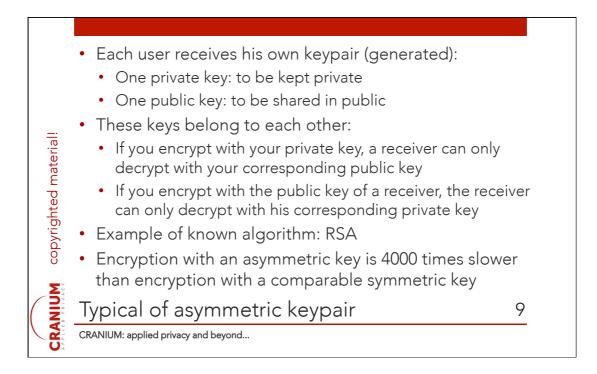


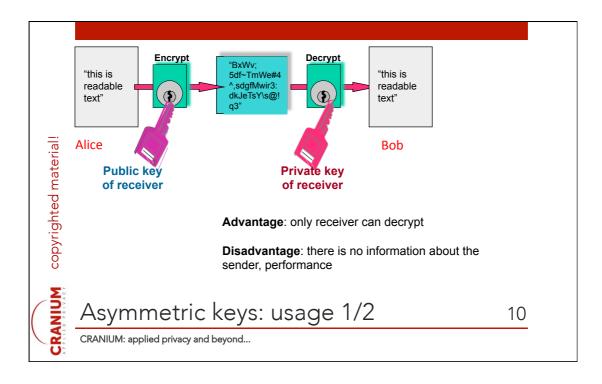


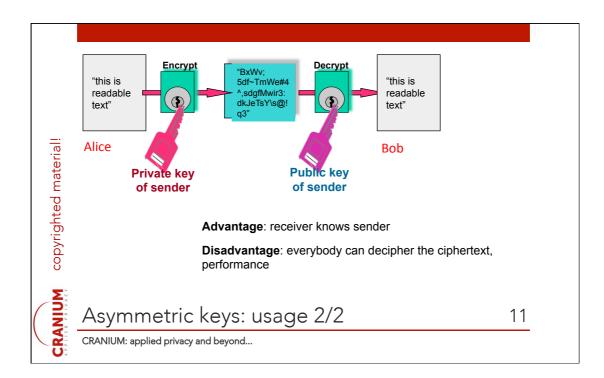




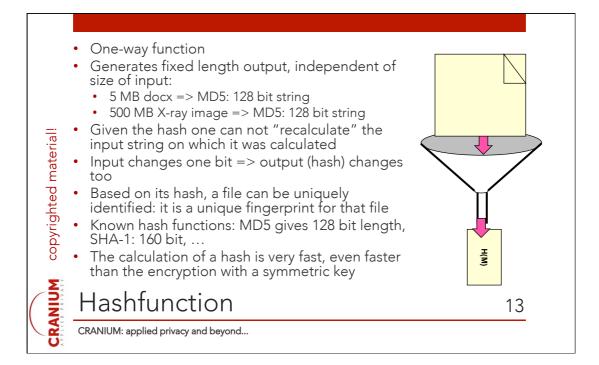






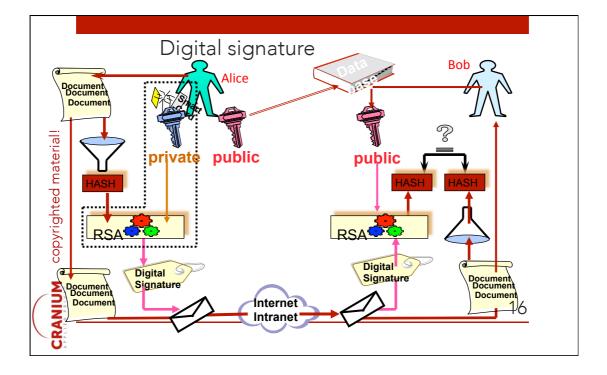


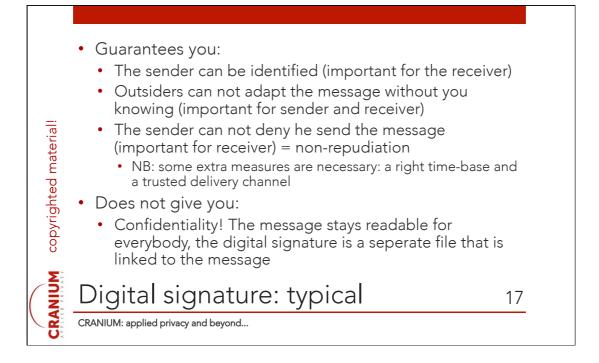
	md5crack	
copyrighted material!	Calculate Md4/5 and sha-1 Hash Enter the password/text you want to be encrypted, then select the algorithm option you want below. Input Ashiah Calculate MD4 MD5 SHA-1 Result 633a612ae9cb31748e12a8369dcf2801	
	Hash (function) 12	2



	Тур	Algorithms	MByte/sec @ P90MHz	
		DES	0,4 (1,9 in HW)	
		Triple-DES	0,16 (0,7 in HW)	
<u>_:</u>	Symmetric	IDEA	1,0	
eria	algorithms	RC5 (64 Bits)	2,7	
mat		AES	4,3	
copyrighted material!	Msg Public Key	RSA (512 Bits)	0,001	
ʻigh		MD5	14,2	
ру	Hash	SHA-1	6,1	
S		RIPEMD-160	5,0	
N				
	Speed (Per	ntium 90	MHz!)	14
	CRANIUM: applied privacy and be	eyond		

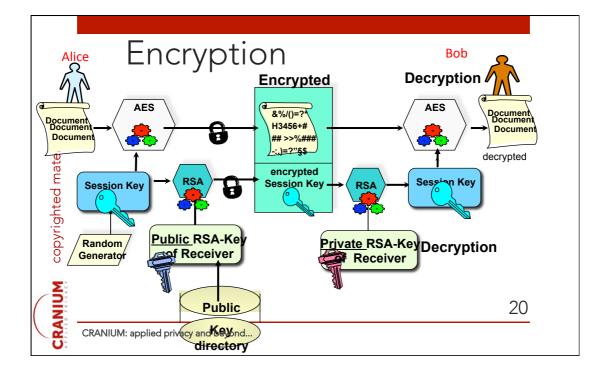




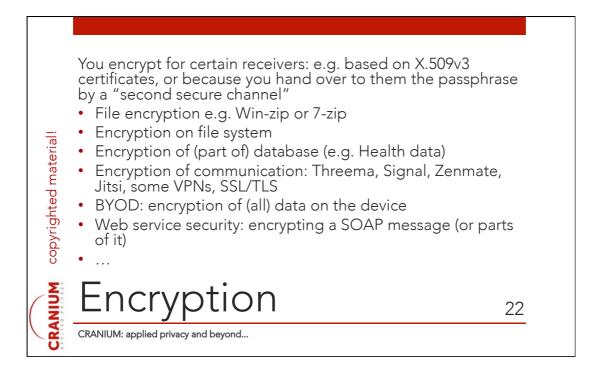


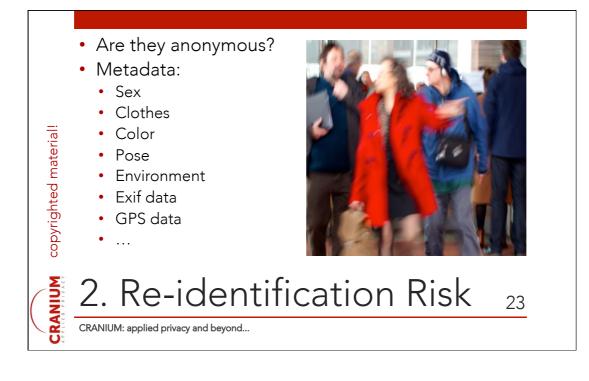


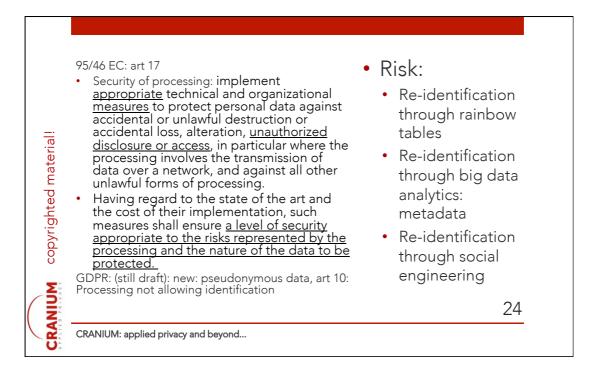




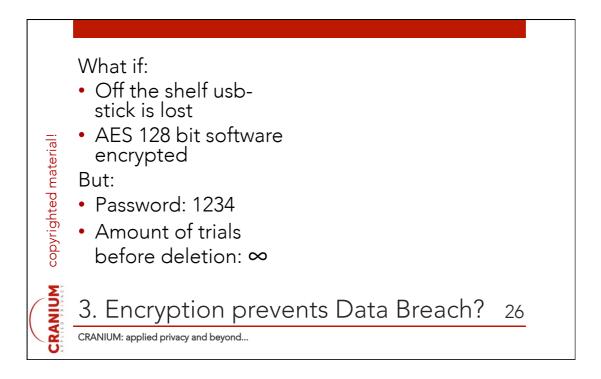


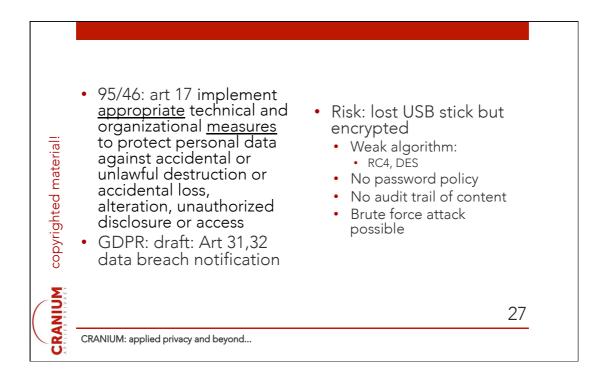


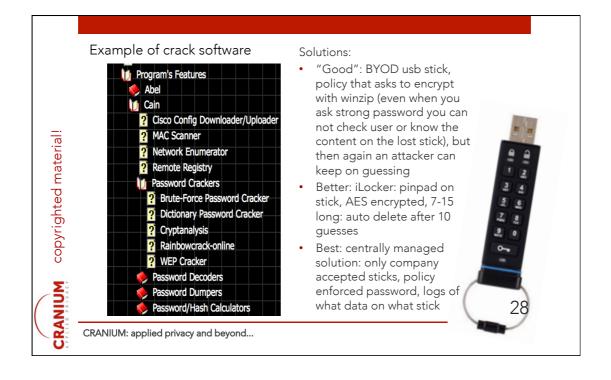














	 95/46 art 17: () Having regard to the state of the art and the cost of their implementation, such measures shall ensure level of security appropriate to the risk represented by the processing and the nature of the data to b protected. 	June 15 and 16 2015 Justice and Home Affairs Council: Right to erasure and "to be forgotten" : data controllers must erase personal data without undue delay where: o the data are no longer necessary in relation to the purposes for which they were collected or otherwise processed; o the data subject withdraws consent for the processing of personal data; o the data subject objects to the processing of personal data;
		 o the data were unlawfully processed; o a law requires the controller to erase the data.
C	GDPR: art 23 Data protection by design and by default, art 30 Security of processing, art 32 a Respect to Ris art 33 data protection impact assessment	In relation to information society services, individuals may also obtain the erasure of their data without undue delay, within the limits of: o freedom of expression and information, o legal obligations applicable to the controller, o public interest, o scientific, statistical and historical archiving and o the establishment, exercise or defence of legal claims. 30

