







(c)ICU Kwangjo KIm





(c)ICU Kwangjo KIm

DEM Mossad	Δ
	C
BEGIN-PRIVACY-ENHANCED-MESSA	GE
Processing Type	
Content Domain	
Message text encryption algorithm	1
Issuing authority	
Version/expiration	
Origination certificate	
Originator key information	
Issuer certificate	
MIC information	
Issuing authority	
Version/expiration	
Encrypted DEK	
User Text	
END-PRIVACY-ENHANCED-MESSAG) E



(c)ICU Kwangjo KIm

8







History of PGP(I) Obsigned by Phil Zimmerman - High security - public domain S/W - popular for personal use □ PGP Classic : Can't handle Internet Mail - PGP v.1.0 : '91.6 - PGP v.2.0 : '92. 9 - PGP v.2.3a : '93.7 (last version of PGP didn't use RSAREF) - PGP v.2.4 : original ViaCrypt PGP – PGP v.2.5 : Interim release of PGP with RSAREF - PGP v.2.6 : Freeware version of PGP - PGP v.2.7 : Commercial version by ViaCrypt

(c)ICU Kwangjo KIm



Function	Algorithm	
Digital Signature	DSS/SHA RSA/SHA	or
Message Encryption	CAST-128 or w/ DH or RSA	IDEA or 3DES (64bCFE
Compression	ZIP	(Note) Signing before compression Encryption after compression
E-mail compatibility	Radix 64	
Segmentation		





(c)ICU Kwangjo Klm











Key Rings of PGP Private Key ring : store his own public and private keys Encrypted Timestamp KeylD **Public Key** UserID Private key KU_i mod 2⁶⁴ Ti KUi User i E_{H(Pi)}[KRi] Public Key ring : store all known entities' public key UserID Time KeylD Public Owner Key Signature(s) Signature Key stamp Trust Legitimacy Trust(s) KU_imod 2⁶⁴ KUi trust_flagi User i ERj(H([KUi])) complete Ti trust_flagi ERk(H([KUi])) marginal

(c)ICU Kwangjo KIm











