





egee) **Globus**, Version 2 Client User Three major services Resource Management Information Service Data Management Data Information Resourcen Management Management Service gsiftp/https/ LDAP http/rsl gate keeper FTP GRIS GISS Plot courtesy job manager server Dr. Harald Kornmayer 44 process resources School GRAM MDS GridFTP chepoó Standards, Technologies and the Globus Toolkit , February 11, 2006 E O-RI-508833

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Fundamentals of Grid Technologies



• Customer writes mail to bank, wants privacy • Customer encrypts message with the bank's public key and signs the encrypted text – create checksum of text

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- encrypt checksum with his private key
- Upon receipt, bank checks validity of message
 - calculates checksum
 - encrypts customer's checksum with his public key
 - compares both values
- Bank decrypts message with its own private key
- This procedure is only as secure as the private keys !!!





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Fundamentals of Grid Technologies

egee	Grid Security and Certificate Authorities
certificate:	
Certificat	e:
Data:	
Ve	rsion: 3 (0x2)
Se	rial Number: 410 (0x19a)
Sig	nature Algorithm: md5WithRSAEncryption
lss Va	uer: C=DE, O=GermanGrid, CN=GridKa-CA lidity
No	t Before: Jun 29 13:03:23 2004 GMT
No	t After : Jun 29 13:03:23 2005 GMT
Su	bject: O=GermanGrid,OU=FZK,CN=Ingrid
Schae	ffner Stekeet

