





Either explicitly or via transfer of trust

Sara trusts she want to "talk" to Chuck

 Open system Multiple entity trust model No single control of who "talks" to whom

Chuck trusts

Given

$$e = 17, d = 33, N = 55$$

$$(e \cdot d) \% \varphi(N) = 1$$

Structure

Structure

• e = 17, d = 33, N = 55 represents a binding relationship through

$$(e \cdot d) \% \varphi(N) = 1$$

- Given e: N it is difficult* to determine d
- Chuck trusts e: N belongs to Sara
 - Either explicitly or via transfer of trust
- Sara trusts she want to "talk" to Chuck
- Open system
 - Multiple entity trust model
 - No single control of who "talks" to whom

^{*} The RSA problem is linked to the integer factorization problem

Man-in-the-Middle