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Encryption •

Decryption

equation  $y = e$

$K(x)$   $x = d$   $K(y)$

• Important: The key must be transmitted via a secure channel between Alice and Bob. • The secure channel can be realized, e.g., by

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manually  
installing the  
key for the Wi-  
Fi Protected  
Access (WPA)  
protocol or a  
human courier.

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Some Basic Facts

- Ancient

Crypto: Early  
signs of

encryption in  
Eqypt in ca.

2000 B.C. Letter-  
based encryption  
schemes (e.g.,  
Caesar cipher)

popular ever

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Symmetric  
ciphers: All  
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schemes from  
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Bitwise initial  
permutation,  
then 16 rounds  
1. Plaintext is  
split into  
32-bit halves  $L_i$

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and  $R_i$  2.  $R_i$  is fed into the function  $f$ , the output of which is then XORed with  $L_i$  3. Left and right half are swapped • Rounds can be expressed as:  
The DES Feistel Network (1) • DES structure is a Feistel

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