CRT: Counter AP: Access Point

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RC4: Rivest Code 4

k: cryptographc key

IV: Initialization Vector

CRC: Cyclic Redundancy Check

 $\boldsymbol{C}$ 

Sizes

k: 104 bits (40 bits export)

IV: 24 bits (used in CTR mode)

Encryption:  $c = (IV, RC4(k,IV) \oplus m \mid |CRC(m))$ 

RC4

keystream

Decryption:  $m \mid |CRC(m) = RC4(k,IV) \oplus c$ 

CRC(m)

m

Confidentiality: short k, short IV, linearity / bit flipping, ...

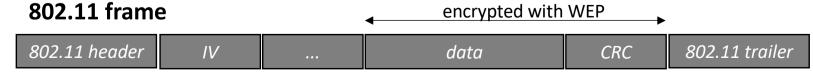
Integrity: CRC is not a MAC/MIC

Key management: a single key for all devices

*Authentication:* not mutual, A can passively find the keystream for used IV

• Open standard





802.11 frame payload

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