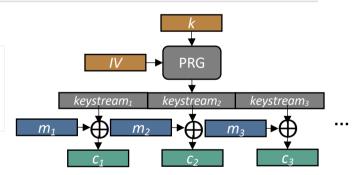


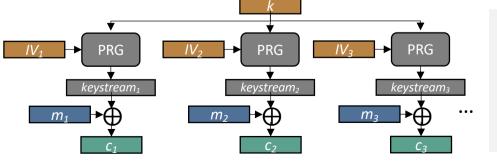
Synchronized Mode

Encryption: $c_1 \mid \mid c_2 \mid \mid c_3 \dots = (IV, PRG(k, IV) \oplus m_1 \mid \mid m_2 \mid \mid m_3 \dots)$ Decryption: $m_1 \mid \mid m_2 \mid \mid m_3 \dots = PRG(k, IV) \oplus c_1 \mid \mid c_2 \mid \mid c_3 \dots$ IV chosen uniformly at random



Unsynchronized Mode

Encryption: $c_i = (IV_i, PRG(k, IV_i) \oplus m_i)$ Decryption: $m_i = PRG(k, IV_i) \oplus c_i$ $IV_1, IV_2, ...$ chosen uniformly at random (and thus independent)



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