

STRONG ENCRYPTION PROTECTS...

EVERYONE USES ENCRYPTION

Strong encryption protects sensitive communications and stored data. Strong crypto protects you when you use a smartphone, browse the web, bank online, or send electronic messages to your family and colleagues.

Crypto can also help authenticate your credentials, preventing criminals from impersonating you, viewing your email and photos, or accessing your bank accounts and health data.

HOW ENCRYPTION WORKS

Encryption is a mathematical process that scrambles information; it is often used to secure or authenticate sensitive documents. Encryption protects information by applying a mathematical formula, which obfuscates plaintext information and transforms the plaintext into unreadable ciphertext. Each use of encryption generates a very long number that is the mathematical solution to the formula and can unscramble the protected sensitive information. This "key" must be kept a secret or anyone who has it will be able to access the information.

LEGEND

-  ENTERPRISES
-  INDIVIDUALS
-  GOVERNMENT

STRONG CRYPTO

SEE PAGE 2 FOR THE RISKS OF WEAKENED CRYPTO



STRONG ENCRYPTION PROTECTS...

SAFEGUARDS FOR INDIVIDUALS, COMPANIES & GOVERNMENT

Every day, consumers, companies, government agencies, and elected officials benefit from strong crypto. Cryptographic technologies protect personal data, corporate confidentiality, and critical infrastructure. Many uses of encryption impact a combination of individuals, enterprises, and government. This graphic illustrates how crypto protects stakeholders and highlights risks posed by weakened crypto.

Weakened crypto creates risks to health, safety, and privacy, and increases the possibility that criminals will infiltrate systems or intercept data. Crypto can be weakened by unintentional software flaws or by intentional decisions to provide some entities with exceptional access.

Government officials typically use commercial software and hardware; there is no practical way to distinguish between public sector vs. private sector crypto.

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WEAKENED CRYPTO
SEE PAGE 1 FOR THE BENEFITS
OF STRONG CRYPTO

