



About TSG

Tactical Solutions Group provides an array of integrated systems that facilitate secure, real-time, and interoperable communications across different operational domains. These platforms are designed to support critical sectors such as government, military, financial, public utilities and the mining industry, where seamless coordination, security, and reliability are paramount.

Obsidian

Offline Secure Communications

**Completely undetectable, air-gapped, and encrypted offline data transfer —
from any device to any device**

Obsidian provides offline encrypted transmission and reception of data without use of radio frequencies. It is completely passive — without network connection or RF transmission. From one device to another, it is completely air-gapped and unidirectional. The file transfer cannot be detected, intercepted, or traced.

Obsidian works cross-platform to and from any device that has the application loaded and an embedded camera. The system encodes files into dynamic encrypted data matrices (QR codes) that are transmitted visually and decoded by the receiving device's camera. For those who need to transfer the most sensitive information **without the possibility of detection or interception**, Obsidian is the tool for you.



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YEARS SOLVING

INTEGRATION AND INTEROPERABILITY
CHALLENGES

Obsidian Feature Offerings

PROTOCOL	• Select any file to send • Algorithm encodes the file into a dynamic data matrix • Display the data matrix to the receiving device • Data matrix scanned by the receiver's camera • Algorithm decodes the data matrix back to original file • Transfer is completely passive and unidirectional
CROSS-PLATFORM COMPATIBILITY	• Works with iOS and Android smartphones • Compatible with camera-equipped desktops or laptops • Obsidian SDK allows linkage into other applications • No network connection required on either device • No RF transmission or emission of any kind
ENCRYPTION FEATURES	• Minimum 256-bit AES encryption baseline • Transmitted file encoded into dynamic datamatrix prior to sending • Standard device camera receives and decodes the encrypted file • Transfer cannot be detected, intercepted, or traced • Completely air-gapped and unidirectional transfer
DEPLOYMENT & PRICING OPTIONS	• End user licenses based upon number of users • Max transfer speed dependent upon license tier • Supports all file formats with no file size limitations • Unlimited transfers per license • Advanced integrations with internal systems • Complete training and support during deployment

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