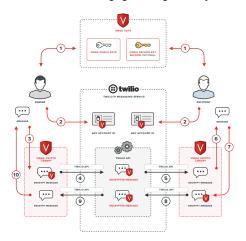


Twilio IP Messaging with Virgil Security



Virgil Cryptogram



Virgil Uses

Virgil ECIES Defaults

DESCRIPTION ΔFS256 Brainpool 512 **ELLIPTIC CURVE** HASHING SHA384 FCDSA SIGNATURE

NSA Suite B Compliance mode

Crytography Functions

KEY GENERATION	CTR-DRBG, NIST SP 800-90A
KEY DERIVATION	KDF1, ISO-18033-2 Clause 6.2.2
ENTROPY SOURCE	Platform dependent, multi source support
KEY EXCHANGE (EC)	ECDH, NIST SP 800-56A
KEY EXCHANGE (RSA)	NIST SP 800-56B rev 1
SIGNATURE	ECDSA, EdDSA (available soon)
HASHING	SHA-2, FIPS Pub 180-4

Virgil Framework

CRYPTOGRAPHIC MESSAGE SYNTAX	RFC 5652
ENCRYPTION	ISO 18033-2, SECG SEC1

AES, FIPS Pub 197. SYMMETRIC (AES)

ASYMMETRIC (EC)

GOST 28147-89 Brainpool bp256r1, bp384r1, bp512r1 secp192k1, secp224k1, secp256k1 NIST secp192r1, secp224r1, secp256r1, secp384r1, secp521r1 Curve 25519 (available soon)

Platforms & Languages









































