With innovative full-circle security, TCC’s CipherTalk secure mobile phone products provide military-grade end-to-end encrypted and anonymous voice and text communications. Protect your most sensitive communications from the full range of threats quickly and easily, and from anywhere in the world via GSM or Wi-Fi.

**Full-Circle Protection**
Tapping communications in transit, intercepting communications at the microphone before encryption, identifying call parameters and injecting malicious code into the device are just some of the many threats compromising mobile phone communications. TCC’s CipherTalk secure mobile phone is designed with innovative technology to protect against the full range of threats for trusted security of your most sensitive communications.

**End-to-End Encryption**
The CipherTalk has unlimited worldwide military-grade end-to-end voice and text security with the CipherONE® Secure Connect Network. Our solution is FIPS 140-2 certified for cryptography and uses AES 256-bit encryption and Diffie-Hellman public key exchange with 4,096 bit very long key lengths. Keys are generated on the device for each call/text and are destroyed at the end of the conversation. The CipherTalk also provides two-layer protection of data at rest.

**Anonymous and Stealthy**
Use the CipherTalk in complete privacy. The CipherONE Secure Connect Network hides the entire voice and text messaging connection procedure. No user data or call logs are generated, collected or stored. Whom and when you are calling, and where you are calling from are only known by the user.

**Device Security**
The CipherTalk secure mobile phone and the desktop phone protect against compromise to the physical device. Commercial smartphone and desktop phones are modified with a hardened operating system, restricting and disabling applications vulnerable to viruses and intrusion attacks. Smartphone security levels are selectable by the user.

The CipherTalk mobile phone with hardened Android OS also includes a permission enforcement agent to control app access to cell phone resources. Additionally, an IP firewall allows and blocks the ability of apps on the phone to access the IP network.

**Benefits**
- Military-grade end-to-end secure voice and text
- Anonymous communications
- Device security with hardened operating system, IP firewall and Permission Enforcement Agent
- Secure storage: contacts, notes, text messages
- Interoperable mobile phone and desktop phone
- Global coverage — Wi-Fi, GSM
- Optional customer-owned CipherONE Secure Connect Network
- Simple, efficient, and reliable to use with excellent voice quality
- Flexible procurement options
CipherTalk Mobile Phone Security

Anywhere, Any Way Worldwide
The CipherTalk mobile phone secures voice calls and text messages globally with all GSM networks. Communications can also be secured via Wi-Fi without using your network provider’s data service—no SIM card is required. Additionally, the CipherTalk’s innovative technology does not use VoIP or VPN protocols, enabling secure communications to continue in areas with poor bandwidth and in locations where these protocols may be blocked. The CipherTalk can also operate over various IP links, including satellite, microwave and IP over radio.

Simple, Fast, Reliable
To make a call, simply touch the CipherONE icon, enter a phone number, or select one from your secure contacts. The CipherTalk will instantly set up the call. Voice quality is not impacted by the encryption process. The low bandwidth requirement of our encryption (<10K bps) also maximizes throughput despite varying network conditions around the world.

Flexible Offering
Various options are available to meet procurement and budget requirements. Purchase the CipherTalk products or select one of our CipherTalk Secure Phone Contract plans with terms ranging from one to three years.

Customer-Owned CipherONE Secure Connect Network
A customer-owned CipherONE private network is available as an option with the purchase of the CipherTalk phones. The CipherONE Secure Connect Network enables the customer to own and manage the server(s) that securely authenticate and IP connect the CipherTalk phones, and maintain the CipherTalk IP connections worldwide. An asset management application makes managing your own secure CipherTalk network easy.

Secure Voice for All Levels of the Organization
Protecting voice communications is a critical part of an organization’s IT security infrastructure and cybersecurity strategy. As such, TCC plans to add to the CipherTalk family with an App, conferencing capability and PBX gateway to make it easy and affordable for secure voice to be a standard part of the way organizations do business at all levels.

Technical Specifications
CipherTalk 8500 Secure Mobile Phone
- Hardened Android operating system
- Supports GSM and Wi-Fi
- Secure voice and text messages
- Anonymous communications
- Selectable hardened operating system security levels: Basic, Medium, and High
- IP firewall
- Permission Enforcement Agent
- Secure storage: notes, contacts, text messages
- Biometric fingerprint physical phone access
- Fully featured smartphone
- Carrier-independent

CipherTalk Desktop
- Secure voice over IP
- Anonymous communications
- Compatible with all CipherTalk products
- Encrypted contacts, hardened OS
- Speakerphone, LED call indication, programmable secure phonebook, redial, mute, ringer, and handset volume control
- Dimensions: 230 x 200 x 30 mm

CipherONE Secure Connect Network
- Distributed network (soft switch): 1 to 8 servers worldwide
- Networks up to 40,000 concurrent calls
- Real-time, pre-emptive multi-tasking OS
- Five-nines availability rating
- Protection against DoS attacks
- Asset management application

For more than 50 years, Technical Communications Corporation has specialized in superior-grade secure communications systems and customized solutions, supporting our CipherONE® best-in-class criteria, to protect highly sensitive voice, data, and video transmitted over a wide range of networks. Government entities, military agencies, and corporate enterprises in 115 countries have selected TCC’s proven security to protect their communications.

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