Secure Communication

PhoneCrypt solution suite is a dedicated Secure Voice over IP (VoIP) and Instant Messaging (IM) solution to ensure complete privacy for voice and IM communication for enterprise professional and organization. It comprises of front-end solution and backend VoIP/IM system to provide a complete secure communication over IP network. It is designed with true End-to-End encryption and rich features for secure voice call and instant messaging.

PhoneCrypt D100: a Secure Deskphone designed for office environment with a separate hardware element and anti-tampering protection. It connects to backend secure VoIP/IM system through RJ45 connection to the internet.

Both the Phonecrypt D100 and M100 will be connected to the secure backend VoIP/IM system which comprises of NetCrypt U1000 IP encryptor and PhoneCrypt server.

Key Features

- End to end secure voice conversation and instant messaging between the clients through the backend PhoneCrypt system
- Layer 3 IPSec security providing maximum security
- AES algorithm for data confidentiality, Secure Hash Algorithm (SHA) as well as Internet Key Exchange (IKE) protocols for integrity protection and user authentication
- Excellent voice quality
- Easy installation and supporting dynamic IP addressing
- Plug-and-play unit provides greater convenience for travellers
- Back-end system also comprised of encrypted storage system for contacts. It protects confidential data against unauthorized access
Deployment Use Cases

Specifications

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<th>Network Interfaces</th>
<th>External port: 1 x Ethernet RJ45 10/100 Mbps auto-sensing port</th>
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| | Support Layer 3 encryption capability  
| | IP Compression  
| | QoS support  
| | Traffic flow confidentiality |
| Authentication | RSA Public Key Signature (up to 4096 bit) |
| Key Management | Support Internet Key exchange (IKE v2)  
| | DH supports up to 8192 bit  
| | Supports ECDH (up to P-521 bit) |
| Encryption Algorithm/Modes | AES-CBC (256 bit) |
| Hash Algorithm | HMAC-SHA1  
| | HMAC-SHA2 (256, 384, 512 bit) |
| Hash Algorithm | Interfaces:  
| | - 10/100 Mbps Ethernet RJ45 (remote management and local configuration)  
| | - RS232 local console interface (DB9 to RJ45) |
| Management Security/Configuration: | Extensive audit logging  
| | Alarm detection and logging  
| | SNMP v2c network management (operates with standard SNMP network management station)  
| | Supports up to 3-factor authentication  
| | 1 x Ethernet RJ45 10/100 Mbps auto-sensing port |
| Security Features | Tamper-resistant chassis  
| | Anti-tamper detection and response |

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