Teams Phone
Security White Paper

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White Paper

Oct. 2025

This document applies to models: MP58 E2 Teams, MP56 E2 Teams, MP54 E2 Teams, MP55 E2 Teams, MP52 E2 Teams.

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Overview

Yealink, a leading global provider of communication and collaboration solutions, is dedicated to ensuring the security of user information. We prioritize security and put users first, creating a safe environment for our global customers to utilize our products.

This white paper focuses on protecting user privacy data as its central theme. We have established a comprehensive security protection system by implementing enterprise security management, following OWASP application security standards, and adhering to Android's best security practices as software development guidelines. Through this system, we continuously provide security guarantees for our end users.

With over 20 years of security experience and in alignment with industry best practices, Yealink offers secure and reliable products and services to customers worldwide. We have obtained ISO 27001:2022 and SOC2 Type 2 certifications, demonstrating our commitment to safety. Additionally, we comply with GDPR and other relevant laws to ensure data privacy. For more detailed information, please visit the Yealink Trust Center at https://www.yealink.com/en/trust-center.

ISO/IEC 27001 is an internationally recognized standard for implementing safety best practices. Certification of our system signifies our dedication to product safety and ongoing investments in optimizing safety management and product design. The SOC (System and Organizational Controls) framework, developed by the American Institute of Certified Public Accountants (AICPA), is widely accepted as a comprehensive standard for internal control auditing. Our SOC2 Type 2 audit report verifies that Yealink has a stringent service control system encompassing security, availability, confidentiality, and privacy.

This demonstrates our capability to provide secure and stable products and services to our customers. This article aims to provide a clear understanding of Yealink's security architecture and solutions by introducing the security technologies and features of our products. It is divided into several sections: Hardware Interface Security, System Security, Network Security, Transmission Security, Meeting Security, Data Security, Encryption, User Privacy, and Product Release Process.

This document applies to the following model: MP58 E2 Teams, MP56 E2 Teams, MP54 E2 Teams, MP55 E2 Teams, MP52 E2 Teams.

Hardware Interface Security

2.1 Debugging Interface

- Disable device debugging interface

The UART serial port, ADB, Telnet, and other device debugging interfaces are disabled at the factory to prevent unauthorized access and potential data risks.

2.2 Secure Boot

The device supports secure boot, and the system verifies the device's integrity using a signed public key during the boot process. At any stage of the boot process, all boot programs (bootloader, kernel, partition integrity) are required to undergo integrity verification. Only when they pass the security checks can the system be successfully booted; otherwise, it will fail to start. The purpose is to prevent devices from loading and running unauthorized programs, thereby avoiding the possibility of unauthorized programs gaining control over the device by modifying boot parameters or other means during startup, which could potentially grant access to the device's shell interface.

Secure Boot includes:

- Unable to flash non-Yealink official firmware.
- Unable to run non-Yealink official firmware.
- Any data tampering at any stage will cause the device to fail to start.

2.3 Trusted Storage Service

Yealink implements hardware-level cryptographic key protection and secure storage through Hardware Security Modules (HSM), combined with the device’s Trusted Execution Environment (TEE) hardware isolation space. Based on role-based access control and hierarchical permission management principles, Yealink enforces full lifecycle management of cryptographic keys.

Device hardware utilizes chip-level TrustZone technology to separate the processor’s operating state into the secure world (Trusted Execution Environment, TEE) and the non-secure world (Rich Execution Environment, REE). The TEE can run independent operating systems and other critical software components, providing a hardware-protected secure area for sensitive code and data, ensuring the confidentiality, integrity, and availability of the protected content.

The TEE achieves data protection through the following mechanisms:

- Security Isolation: By establishing an independent execution environment at the hardware level, sensitive data and code are isolated from general-purpose operating systems and application processes. This isolation ensures that data and code within the TEE are invisible to external environments and are subject to strict access control.
- Encrypted Storage: When data exits the TEE, cryptographic operations and algorithms are executed internally to ensure encrypted storage. Even if data is intercepted during transmission or storage, the absence of the key renders the data indecipherable, thereby ensuring data confidentiality.

- Secure Key Storage: Sensitive data keys are generated and stored within the TEE, ensuring that key material never leaves the protected hardware environment. This prevents unauthorized access to static key storage.

The PKI management system adopts a two-tier CA architecture, using HSMs to achieve cryptographic key protection:

- Network Isolation: Cryptographic operations are performed within the isolated environment, and strict network isolation is enforced in production environments to restrict access from the network.
- Dual-Factor Authentication: The principle of “least privilege” is implemented at the production environment level, and Ukey-based dual-factor authentication is required to access the server, reducing overall security risk.
- Key Management: Shamir's Secret Sharing technology and supervised operational processes are used to ensure the security of cryptographic keys and provide high-availability guarantees.

2.4 External Storage Security

When mounting the USB partition, security parameters are added to prohibit programs or scripts in external storage (SD card, U disk, network storage, etc.) from obtaining execution permissions, preventing unsafe scripts and programs from being executed through external partitions.

System Security

3.1 MDEP Security Standardization Platform

The device is developed based on the Microsoft Device Ecosystem Platform (MDEP), with deep integration of Microsoft's ecosystem security capabilities (such as Intune and Azure Attestation) and the underlying architecture of the Android Open Source Project (AOSP). Through core features such as remote key management, multi-factor authentication, device compliance management, and real-time monitoring, it establishes an end-to-end security protection system for meeting devices—from boot to runtime, from local to cloud—meeting enterprise users’ stringent requirements for device trustworthiness, data integrity, and operational compliance. MDEP protects data through the following mechanisms:

- Remote Key Management: Based on Microsoft’s Public Key Infrastructure (PKI) and the chip’s Trusted Execution Environment (TEE), authentication key pairs and CSR requests are generated within a secure environment, and the certificate chain is securely stored to ensure keys are not exposed.
- Multi-Factor Authentication: A multi-layered defense mechanism including device authentication (with secure boot) and user identity verification. It ensures runtime device trustworthiness through hardware-bound unique identifiers, dynamic credential validation, and system image integrity checks.

- Device Compliance Management: Through deep integration with Microsoft Intune, it enables centralized deployment of security policies, real-time device status monitoring, and network access compliance checks, ensuring that connected devices meet the enterprise-defined minimum security standards (e.g., patch level, application whitelist, data encryption policies).

3.2 Android Hardening

Using a highly customized Android system, the Android operating system is hardened by different strategies to reduce security risks. Yealink has trimmed down unnecessary system services and applications in the native Android applications. Thereby enhancing system security by reducing the attack surface. In terms of compilation options, to prevent buffer overflow and reverse analysis attacks, safe compilation options are uniformly used, such as ASLR (level 2), stack protection, compilation Strip, etc.

3.3 Flash Encryption

Yealink encrypts and stores all user data on the device using secure keys, with the keys themselves also undergoing encryption for enhanced security. After encryption, all data (user-created data) is stored in encrypted form in the device storage space after being stored on the disk.

Disk encryption uses the AES 256-bit advanced encryption standard algorithm. The 256-bit AES algorithm encrypts the master key (implemented through calls to the OpenSSL library). The storage of the master key will be protected according to security standards to prevent external access to related key information.

3.4 Firmware Integrity Verification and Digital Signature

Before upgrading the device firmware, a thorough integrity check of the firmware package is performed. Initially, a firmware package digest is generated using a hash (SHA256), and subsequently, the digest is verified for legitimacy through the use of public-key and private-key cryptography signatures. To ensure the integrity and legitimacy of the upgrade package, perform the upgrade update only after verifying the package's completeness and authenticity, thereby preventing any tampering or replacement of the firmware package. The data in the ROM package for the upgrade is encrypted using a high-strength encryption algorithm (AES256). It is directly written to the operating system partition, which prevents reverse engineering during the partition data writing process.

3.5 Kernel Anti-Root Check

At the kernel level, Yealink has implemented a series of security measures to prevent unauthorized root access and detect any suspicious rooting behavior. This includes: signing the entire system when it is released, removing the functionality of SU in the system to prevent application privilege escalation, etc.

3.6 SELinux

Android devices all use the security scheme of SELinux (Security-Enhanced Linux). Yealink's system utilizes pre-defined mandatory access control policies to control process permissions. These policies restrict the operation permissions of system directories, files, processes, and other resources, minimizing the access that processes have to these resources. This helps to enhance the overall security of the system. Yealink has independently developed a solution to prevent bypassing the SELinux security mechanism, ensuring the secure operation of the Android kernel and upper-level applications.

3.7 SDK Security

Only apps that have been trusted by Yealink, such as Teams and Zoom, are granted access to device-specific APIs. Unauthorized third-party apps are strictly restricted from accessing these APIs.

3.8 Android Security Patch

Yealink collects and analyzes Android official patch announcements every month and fixes them every quarter based on official patch releases. When serious problems arise, patch fixes will be prioritized to avoid exploiting vulnerabilities.

Network Security

4.1 802.1X

The device supports the 802.1X feature. User devices connected to the switch port need to be authenticated, and unauthorized users are prohibited from accessing the network. The device supports seven 802.1X modes:

- EAP-MD5
- EAP-TLS
- EAP-PEAP/MSCHAPv2
- EAP-TTLS/EAP-MSCHAPv2
- EAP-PEAP/GTC
- EAP-TTLS/EAP-GTC
- EAP-FAST

4.2 Wireless 802.1X

The device also supports the Wireless 802.1X feature. The device needs to be authenticated when accessing the AP, and unauthorized users are prohibited from accessing the network. The device supports four 802.1X modes:

- EAP-TTLS
- EAP-PEAP

- EAP-TLS
- EAP-PWD

4.3 Open VPN

The device supports the functionality of OpenVPN, allowing it to establish secure point-to-point data communication over a network tunnel created by OpenVPN in a public network environment. While users achieve secure data transmission through the VPN tunnel, it also supports application layer data encryption such as SRTP and HTTPS, implementing multi-layer encryption to protect data. You can refer to the Yealink Administrator Guide device usage guide for specific Open VPN usage.

4.4 Network Proxy

The device supports Network Proxy functionality, allowing it to connect to a deployed proxy server through the network. This enables privacy protection, access control, and other security measures. The device supports application layer proxies (e.g., HTTP proxies) to intercept and process requests and responses at the application layer, as well as transport layer proxies (e.g., SOCKS proxies) to intercept and process network traffic at the transport layer.

4.5 WPA3 Personal

The device supports WPA3 Personal features, utilizing more secure communication protocols. WPA3 adopts the SAE (Simultaneous Authentication of Equals) authentication method, replacing WPA2's PSK authentication. SAE effectively resists offline dictionary attacks and increases the difficulty of brute-force attacks. It also provides forward secrecy, ensuring that even if an attacker learns the network password, they cannot decrypt captured traffic.

Transmission Security

5.1 Media Encryption (SRTP)

The media stream between SIP terminals and services can be securely transmitted using SRTP, as described in RFC 3711. Encrypted SRTP media streams provide integrity, authenticity, and confidentiality for media data.

According to the RFC 6188 protocol specification, the device supports the use of the Advanced Encryption Standard (AES) with a 256-bit key. For specific implementation details, refer to RFC 6188, and for usage methods, please refer to the Yealink Administrator Guide.

5.2 Transport Layer Security (TLS)

All data transmitted over the Internet can use secure transmission channels to ensure data integrity and confidentiality, preventing information from being

intercepted and tampered with during transmission between devices and servers. The terminal device supports TLS 1.3 functionality and enables it by default. TLS 1.3 enhances performance and security compared to TLS 1.2 by removing vulnerable and less-used algorithms.

When the device provides a web service server, it prioritizes using TLS 1.3 and TLS 1.2 protocols, and prohibits communication using TLS 1.0 and TLS 1.1. During TLS signaling connections, only strong cipher suites can be negotiated. Users can also specify cipher suites through configuration files. For specific usage methods, please refer to the Yealink Administrator Guide.

The default strong cipher suites for the web are as follows:

- TLSv1.2: Ciphers:

TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384

TLS_ECDHE_RSA_WITH_CHACHA20_POLY1305_SHA256

TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256

- TLSv1.3: Ciphers:

TLS_AKE_WITH_AES_256_GCM_SHA384

TLS_AKE_WITH_CHACHA20_POLY1305_SHA256

TLS_AKE_WITH_AES_128_GCM_SHA256

Data Security

6.1 Data Storage

- Data Storage

Use a sandboxing mechanism to ensure that each application is isolated from each other. The system assigns a private storage directory to every application, and the private directory is prohibited from being accessed by other applications to ensure static data security. For example, Taking Microsoft Teams as an example, no end-user data is transferred to, or accessible by, the Microsoft Teams RooDms device. For more information, refer to the Microsoft Teams Room Security Guidance.

Only configurations specific to the device itself are saved on the device, and only the owner of the device has access to this device configuration data.

- Configuration file encryption

The device supports CFG configuration encryption. You can encrypt the original configuration file first, decrypt it automatically after deploying it to the device, and then update the configuration to the device. Yealink provides encryption tools for Windows, Linux, and other platforms to encrypt configuration files. The user sets the key. For specific usage instructions, please refer to the Yealink Administrator

Guide or Device User Guide.

- Password Security

When transmitting password-related data over the network, RSA (Rivest–Shamir–Adleman) encryption is used to secure the data before network transmission. Passwords entered in input fields are processed with obfuscation and are never displayed in plain text on the frontend. If the number of incorrect password attempts reaches three, the account will be locked to prevent brute-force attacks. During the backup configuration process, the device automatically removes password-related configuration data to prevent data leakage.

6.2 Data Deletion

Static data is stored locally on the device. After performing a factory reset, all device data will be erased, making any previously stored data inaccessible. Real-time data is stored in the device's operating memory and will be cleared upon system reboot.

6.3 Access Control Security

The device has differentiated access control permissions by default settings: divided into User and Administrator, each with a different password. When accessing advanced settings on the phone, an administrator password is required. Regular users have basic operational privileges, but the device allows administrators to customize different levels of permissions for regular users. For detailed instructions, please consult the Yealink Administrator Guide or Device User Guide.

Encryption

7.1 Secure Unique Device Identifier (SUDI)

During manufacturing, Yealink embeds a Secure Unique Device Identifier (SUDI) into each device. This identifier is a globally unique X.509 certificate for each Yealink device, used for device authentication. SUDI is an extension of device identification defined by the IEEE 802.1 working group, designed to declare the cryptographic identity of a device. It is permanently embedded in the trust anchor module and recorded by Yealink's manufacturing department for authentication purposes.

By using SUDI, each Yealink device has a unique and secure identifier for authentication throughout its lifecycle, from manufacturing to decommissioning. This effectively defends against counterfeit devices and unauthorized access, enhancing overall device security.

In summary, through the use of Yealink's trust anchor and SUDI, Yealink devices achieve enhanced security and authentication capabilities, protecting systems from counterfeit devices and unauthorized access.

7.2 Encryption Algorithm

During the TLS negotiation process, the device uses a high-security level encryption algorithm suite by default, disables anonymous and other insecure algorithm suites, ensuring the security of data transmitted over the network. For users with stringent security requirements, administrators can enhance the security level by configuring algorithm lists. For specific instructions, please consult the Yealink Administrator Guide or Device User Guide.

Algorithm List:

- TLS_AES_256_GCM_SHA384 (0x1302)
- TLS_CHACHA20_POLY1305_SHA256 (0x1303)
- TLS_AES_128_GCM_SHA256 (0x1301)
- TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384 (0xc02c)
- TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384 (0xc030)
- TLS_DHE_DSS_WITH_AES_256_GCM_SHA384 (0x00a3)
- TLS_DHE_RSA_WITH_AES_256_GCM_SHA384 (0x009f)
- TLS_ECDHE_ECDSA_WITH_AES_256_CCM_8 (0xc0af)
- TLS_ECDHE_ECDSA_WITH_AES_256_CCM (0xc0ad)
- TLS_DHE_RSA_WITH_AES_256_CCM_8 (0xc0a3)
- TLS_DHE_RSA_WITH_AES_256_CCM (0xc09f)
- TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256 (0xc02b)
- TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256 (0xc02f)
- TLS_DHE_DSS_WITH_AES_128_GCM_SHA256 (0x00a2)
- TLS_DHE_RSA_WITH_AES_128_GCM_SHA256 (0x009e)
- TLS_ECDHE_ECDSA_WITH_AES_128_CCM_8 (0xc0ae)
- TLS_ECDHE_ECDSA_WITH_AES_128_CCM (0xc0ac)
- TLS_DHE_RSA_WITH_AES_128_CCM_8 (0xc0a2)
- TLS_DHE_RSA_WITH_AES_128_CCM (0xc09e)
- TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA384 (0xc024)
- TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (0xc028)
- TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 (0x006b)

- TLS_DHE_DSS_WITH_AES_256_CBC_SHA256 (0x006a)
- TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA256 (0xc023)
- TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (0xc027)
- TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (0x0067)
- TLS_DHE_DSS_WITH_AES_128_CBC_SHA256 (0x0040)
- TLS_ECDHE_ECDSA_WITH_AES_256_CBC_SHA (0xc00a)
- TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (0xc014)
- TLS_DHE_RSA_WITH_AES_256_CBC_SHA (0x0039)
- TLS_DHE_DSS_WITH_AES_256_CBC_SHA (0x0038)
- TLS_ECDHE_ECDSA_WITH_AES_128_CBC_SHA (0xc009)
- TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (0xc013)
- TLS_DHE_RSA_WITH_AES_128_CBC_SHA (0x0033)
- TLS_DHE_DSS_WITH_AES_128_CBC_SHA (0x0032)
- TLS_RSA_WITH_AES_256_GCM_SHA384 (0x009d)
- TLS_RSA_WITH_AES_256_CCM_8 (0xc0a1)
- TLS_RSA_WITH_AES_256_CCM (0xc09d)
- TLS_RSA_WITH_AES_128_GCM_SHA256 (0x009c)
- TLS_RSA_WITH_AES_128_CCM_8 (0xc0a0)
- TLS_RSA_WITH_AES_128_CCM (0xc09c)
- TLS_RSA_WITH_AES_256_CBC_SHA256 (0x003d)
- TLS_RSA_WITH_AES_128_CBC_SHA256 (0x003c)
- TLS_RSA_WITH_AES_256_CBC_SHA (0x0035)
- TLS_RSA_WITH_AES_128_CBC_SHA (0x002f)
- TLS_EMPTY_RENEGOTIATION_INFO_SCSV (0x00ff)

Privacy Security

8.1 Log Security

The device provides local logging and remote logging services for troubleshooting and security information event management. The content of the log output strictly follows the protocol standard of RFC 5424 and prohibits the printing of sensitive data, such as password information, encryption information, etc., in the log, diagnostic debugging information, and alarm information. You can choose the TLS transmission method for network transmission, which can effectively guarantee the confidentiality and integrity of the logs.

Suppose the device malfunctions and requires Yealink to provide service support. In that case, the product logs and diagnostic information require user authorization to access the relevant files, and unauthorized users cannot actively access the diagnostic information of the current device.

8.2 Configuration Backup

Password-related configuration is removed by default when exporting device configuration backups to avoid the risk of password leakage. The configuration file is encrypted using the AES256 encryption algorithm. This encryption algorithm is a strong symmetric encryption algorithm that provides a high degree of data protection.

The exported configuration file can optionally be saved in an encrypted binary format, such as config.bin instead of a plaintext text file. This security measure effectively protects user privacy and configuration information from unauthorized access and disclosure during backups.

8.3 Device Management

The device supports different vendors' device management platforms, such as Teams Admin Center (TAC), Zoom Device Management (ZDM), and third-party device management platforms (e.g., Utelogy) to manage the device.

Users can also choose Yealink's device management platform for bulk device management. Yealink provides device management platforms with two different deployment methods.

YDMP (Yealink Device Management Platform), customers can install Yealink DM software in their own data center. YMCS (Yealink Management Cloud Service), Yealink uses Microsoft Azure, which is widely recognized and trusted by enterprise users, to build DM services. YMCS is SOC2 Type 2 and GDPR certified and has independent data centers in the United States, Europe, and Australia to protect data security fully.

The core benefits of the Yealink Device Management service are as follows:

- Device status monitor
- Bulk device upgrades and management
- Remote diagnosis

8.4 Preconfigured Domain Name Information

When the device is restarted or when executing business, it is necessary to access the preset server address. The specific list is as follows:

Domain Name	Business Functionality	Request Method
www.msftncsi.com/ncsi.txt www.google.com/generate_204	Network connectivity check, trigger request on reboot or network change.	Enabled by default
rpscloud.yealink.com	The RPS automatic deployment feature (optional service) triggers a redirection request once during factory reset, closes upon successful deployment, and can be disabled if not required.	
time.windows.com pool.ntp.org	NTP's sever address, power-up and periodic queries.	
update.yealink.com	Server address for device detection upgrade	Disabled by default, customers need to enable it manually
www.google.com	Proxy Tested Access Sites	
www.yealink.com	Web page hyperlink address that provides quick access to the official Yealink web site.	
support.yealink.com	Web page hyperlink addresses that provide quick access to Support's Web site features.	

Note:

Some addresses may change during the software release process. The specific information should be based on the configuration of the device preset or deployed. If you have any questions, you can consult Yealink's technical support.

Security Management

9.1 Product Launch Process

Yealink follows a secure software development lifecycle (S-SDLC). During the coding phase, the security team conducts risk assessments of third-party libraries and tools used in the product to ensure that vulnerabilities introduced by the supply chain are avoided. They also conduct security reviews. Before the software version is released, it undergoes Alpha version, Beta version testing, and UAT testing. At each stage, the security team participates in penetration testing, attack surface analysis, and security scanning of software and hardware to ensure that the released product software meets the security standards for the software release.

Penetration testing includes but is not limited to the following:

- System security: secure boot, file encryption, compilation condition detection, etc.
- Web Testing: XSS Cross-Site Scripting Attack, File Upload Vulnerabilities, CSRF Cross-Site Request Forgery Attack, etc.
- Vulnerability scanning: Use multiple mainstream scanning tools in the industry to test firmware and deployed devices to ensure the security of the software.

9.2 Code Security Specification

Key Management: The core key management adopts a dedicated strategy, with the principle of least privilege, and ordinary engineers cannot access or obtain the keys.

Code Management: Yealink has strict coding security requirements internally. Each code update is reviewed and undergoes reliability verification. The device-related code library has strict permission management mechanisms and company red-line requirements. It is strictly prohibited to upload to public or semi-public services such as GitHub and Gitee without permission to prevent source code leakage.

Secure Environment: Yealink's security team and IT department regularly perform static and dynamic vulnerability scans and penetration tests for both production and internal network environments to ensure that software development, firmware packaging, and device production take place in a secure network environment.

9.3 Security Emergency Response

Security has always been a focus of Yealink. As industry security technology iterates, Yealink invests heavily in resources yearly to improve Yealink's security level. At the same time, Yealink will find multiple well-known, authoritative third-party organizations for security verification every year to ensure that the security level matches the current security technology. If you find a possible security issue while using Yealink products, you can contact us in Yealink's security center or submit a ticket through the ticket system, and we will respond promptly and deal with relevant issues.

Security incident response typically consists of four main stages: vulnerability collection, vulnerability assessment, vulnerability remediation, and tracking resolution.

- Vulnerability Collection: Collect relevant logs and information based on reported security incidents and assign dedicated personnel to track and handle them.
- Vulnerability Analysis: Priority is given to determining vulnerability risks based on the problem. During the processing stage, temporary solutions will be provided first to prevent the problem from expanding.
- Vulnerability repair: analyze the root cause of the problem, trace the cause of the defects in the design, and solve the vulnerability problem from the root cause in a timely manner.
- Track and Resolve: Investigate whether all product lines have the same problem and follow up to resolve it. At the same time, collect the problem and regularly check it in Yealink's vulnerability database.

Technical support can access the Yealink Support website to learn about firmware downloads, product documentation, and frequently asked questions. For better service, we recommend that you use the Yealink ticket system to submit technical issues.

Disclaimer

10.1 Affirmation

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