Q-mast
Sample Report

Quokka

iOS Application Analysis

VPN - Super Unlimited Proxy

mobi.mobilejump.freevpn
1.44
SHA256: 2ed30fb9c14ddae296402bc592081cfead0460abe0548770bc953744bdb4ae75
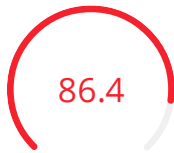
Submitted Date: 02/28/2019 - 11:31:29 PM
Analysis Date: 02/28/2019 - 11:31:29 PM
Analysis Version: 3.2.12

- Critical Risk
- High Risk
- Medium Risk
- Low Risk

Threat Score
86.4
- 2 High
- 6 Medium
- 6 Low

OWASP Risk
38.9
- 3 failed
- 1 need review

NIAP Risk
50.0
- 2 failed
- 4 need review

GDPR Risk
81.3
- 5 failed
- 3 need review

Security Findings

Uses hard coded credentials for secure operations
Loads an external library dynamically

- ✅ No hard coded initialization vector (IV)
- ✅ No malware detected
- ✅ Application transport security enabled
- ✅ Not vulnerable to known OS attacks
- ✅ Does not access risk files over the network
- ✅ Proper Keychain Protection
- ✅ Data at rest encryption
- ✅ Uses iOS provided encryption
- ✅ App checks for trusted environment
- ✅ No unencrypted network connections made
- ✅ SSL pinning detected
- ✅ Memory Protections Enabled
- ✅ RASP detected
- ✅ No HTTP URLs found in application

Privacy Findings

Exposes sensitive information
Has in app purchases
Connection to foreign country
Integrates with an ad network
Integrates with a social network

- ✅ Does not expose low risk sensitive information
- ✅ Does not get information about the user
- ✅ No cloud storage integration
- ✅ Does not access calendar

Device Functionality Findings

Can interact with sending SMS/MMS messages
Can access microphone
Accesses photos and/or videos
Can interact with email client on device
Accesses the Internet
Can modify files
Can read files

- ✅ Does not access camera
- ✅ No access to contacts/address book
- ✅ Does not access Bluetooth
- ✅ Does not access location

Additional Evidence

- ⓘ Application Information
- ⓘ Permissions Requested
- ⓘ Keychain Operations
- ⓘ AV Scan Results
- ⓘ Sensitive Data Exposure
- ⓘ Hard Coded Credentials
- ⓘ App Transport Security
- ⓘ Network Traffic
- ⓘ File Access

NIAP Sections

FPR_ANO_EXT.1.1: User Consent for Transmission of Personally Identifiable Information
FCS_RBG_EXT.1.1: Random Bit Generation Services
FMT_SMF.1.1: Specification of Management Functions
FCS_COP.1(1): Cryptographic Operation - Signing
FMT_CFG_EXT.1.1: Secure by Default Configuration
FTP_DIT_EXT.1.1: Protection of Data in Transit
FCS_COP.1(2): Cryptographic Operation - Signing
- 🔍 FCS_CKM.2: Cryptographic Key Establishment
- 🔍 FDP_NET_EXT.1.1: Network Communications
- 🔍 FCS_CKM_EXT.1: Cryptographic Key Generation Services
- 🔍 FCS_HTTPS_EXT.1.1: HTTPS Protocol
- 🔍 FCS_CKM.1.1: Cryptographic Symmetric Key Generation
- 🔍 FMT_MEC_EXT.1.1: Supported Configuration Mechanism
- 🔍 FDP_DEC_EXT.1.2: Access to Platform Resources
- 🔍 FDP_DEC_EXT.1.1: Access to Platform Resources
- 🔍 FPT_TUD_EXT.1.3: Integrity for Installation and Update
- 🔍 FPT_LIB_EXT.1.1: Use of Third Party Libraries
- 🔍 FPT_TUD_EXT.1.5: Integrity for Installation and Update

🔍 FCS_COP.1(3): Cryptographic Operation - Signing

✅ FPT_TUD_EXT.1.4: Integrity for Installation and Update
✅ FPT_AEX_EXT.1.3: Access to Platform Resources
✅ FPT_AEX_EXT.1.4: Anti-Exploitation Capabilities
✅ FPT_TUD_EXT.1.2: Integrity for Installation and Update
✅ FPT_AEX_EXT.1.2: Requests to Map Memory with execute permissions using mprotect
✅ FPT_TUD_EXT.1.6: Integrity for Installation and Update
✅ FPT_AEX_EXT.1.1: Requests to Map Memory using mmap

Tests Performed

⚠️ **HIGH**

Exploitable **Uses hard coded credentials for secure operations** `dynamic` `CVSS Score: 6.5` `CWE-798`

All execution is monitored during Dynamic Analysis for cryptographic operations. All operations are logged with provided encryption keys and hard-coded keys are flagged.

Threat Details

Encryption should always be performed with keys that are random or as close to random as possible. Randomly generated keys make reversing encryption operations much more difficult. Hard-coded encryption keys allow for easy reversing of encryption operations as an attacker already has the credentials. Attackers that are able to locate the hard-coded key can use it to reverse any operation and gain access to the previously encrypted data.

Regulations

- Fail OWASP: M2: Insecure Data Storage
- Fail OWASP: M5: Insufficient Cryptography
- Fail OWASP: M7: Client Code Quality
- Fail NIAP: FMT_CFG_EXT.1.1
- Fail GDPR: Article 32: Security of Processing
- Fail GDPR: Article 5: Principles Relating to Processing of Personal Data
- Fail GDPR: Article 25: Data Protection by Design and by Default

Test Performed

Scans were performed on the application's byte code and any packaged SDKs to search for hard-coded credentials used in cryptographic functions. These codes are declared as constant values within the application's code.

Remediation

The hard-coded keys should be removed from the application and replaced with securely generated cryptographic keys. More information can be found here https://developer.apple.com/documentation/security/certificate_key_and_trust_services/keys/generating_new_cryptographic_keys.

Finding Impact

Credentials that are hard-coded in the application code base could be extracted by an attacker and used to gain privileged access to data. Even if they are not used in the active code base they should be trimmed out in order to stay in line with best practices.

Evidence

Hard Coded Credentials

⚠️ **HIGH**

Exploitable **Exposes sensitive information** `dynamic` `CVSS Score: 5.3` `CWE-200`

The application sends sensitive information over the network. Sensitive information is any data that can be used to identify the device and/or user.

Threat Details

Sensitive information should be carefully reviewed to ensure it is only shared when absolutely necessary. Quokka highlights ALL sensitive information sent, including those to Apple, & the app developer to ensure the user is aware of all connections. Sharing of device metadata and unique user IDs (advertising IDs, generic user identifiers, etc) can be used in conjunction with other collected data to track users and identify them based off what seems to be innocuous information.

Regulations

- Fail OWASP: M7: Client Code Quality
- Fail NIAP: FPR_ANO_EXT.1.1
- Fail GDPR: Article 44 - General Principle for Transfers to Third Countries or International Organizations

Test Performed

We scan all network traffic generated during Dynamic Analysis for any sensitive information. This includes both plain text HTTP and encrypted HTTPS.

Remediation

The developer should review the URL of the social network connection to identify which domain the data is sent to. Using the URL and domain information they can then identify the entity/sdk the connection comes from and search their codebase for the origin of the network connection.

Finding Impact

User, device, or organizational data is exposed through network traffic. The data could be harvested or used by untrusted parties.

Evidence

Sensitive Data Exposure

Loads an external library dynamically · dynamic · CVSS Score: 3.9 · CWE-470

MEDIUM

All execution is monitored during Dynamic Analysis for loading of an external library.

Threat Details
If the developer does not verify the security and validity of the dynamically loaded library it is possible it could introduce vulnerabilities, flaws, or unintended functionality in the application.

Regulations
Review	OWASP: M6: Insecure Authorization
Review	NIAP: FPT_API_EXT.1.1
Review	NIAP: FPT_LIB_EXT.1.1
Review	GDPR: Article 17: Right to be Forgotten

Test Performed
All execution during Dynamic Analysis is monitored for the loading of an external library.

Remediation
The developer can remove the code referencing the third party library from the application. This can be located by searching the code base for the name of the third party library and reviewing any libraries packaged with the app.

Finding Impact
Dynamically loaded libraries that are not verified with a hash or other mechanism have the potential to load vulnerable and/or malicious code into the application and comprimise the integrity of the app. This could lead to private information leakage of the user and or the app development organization.

Evidence
Libraries Loaded:
- vpn.app
- ZendeskCoreSDK.framework
- ZendeskProviderSDK.framework
- ZendeskSDK.framework
- CydiaSubstrate.framework
- Security
- Accounts
- StoreKit
- AdSupport
- CoreTelephony
- CoreTelephony.framework
- CoreTelephony.framework
- ZendeskCoreSDK.framework
- ZendeskSDK.framework
- ZendeskProviderSDK.framework

Has in app purchases · static · CVSS Score: 2.3

MEDIUM

We determine if the application requires the StoreKit framework for accessing in-app purchases functionality.

Threat Details
Purchases can be made through the user's Apple account. In-app purchases can be used to trick users into payments for superfluous reasons.

Regulations
| Review | NIAP: FDP_DEC_EXT.1.1 |

Test Performed
We determine if the application uses the iOS framework for providing in-app purchases as well as parsing information from the App Store.

Remediation
The developer can remove the framework from the application binary. If the developer did not explicitly add the framework, they are often added during the build process from third party development tools or libraries.

Finding Impact
Developer should ensure that this permission is needed for the core functionality of the application. Extraneous permissions and functions increase the size of the application. Additionaly users are wary of overly permissive apps.

Evidence

Relevant Framework(s):

Framework	Description
StoreKit.framework	Contains interfaces for handling the financial transactions associated with in-app purchases.

⚠️ **MEDIUM**

Can interact with sending SMS/MMS messages `static` `CVSS Score: 2.3`

We determine if the application requires the MessageUI framework and uses the MFMessage class for sending SMS messages through the app.

ℹ️ **Threat Details**
Access to this framework allows the app to pre-populate an SMS message with a destination number and message contents. This functionality could be used to trick the user into sending messages without reviewing content but does require user interaction to finalize.

Regulations
`Review` NIAP: FDP_DEC_EXT.1.2

🧪 **Test Performed**
We identify if the framework for SMS/MMS messages is used by the application and if the app uses the MFMessage class.

🔧 **Remediation**
The developer can remove the framework from the application binary. If the developer did not explicitly add the framework, they are often added during the build process from third party development tools or libraries.

🎯 **Finding Impact**
Developer should ensure that this permission is needed for the core functionality of the application. Extraneous permissions and functions increase the size of the application. Additionally users are wary of overly permissive apps.

💼 **Evidence**

Relevant Framework(s):

Framework	Description
MessageUI.framework	Contains interfaces for composing and queuing email or SMS.

⚠️ **MEDIUM**

Can access microphone `static` `CVSS Score: 2.3`

We determine if the application uses the AVFoundation, AudioToolbox or ReplayKit frameworks for accessing the microphone on the device.

ℹ️ **Threat Details**
Access to record audio on the device should be considered dangerous. Applications should be reviewed carefully to determine if they need access to these features to support their core functionality. Application developer and country of origin should also be taken into account when reviewing if the application should be run with this access.

Regulations
`Review` NIAP: FDP_DEC_EXT.1.1
`Review` GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
`Review` GDPR: Article 6: Lawfulness of Processing

🧪 **Test Performed**
We identify if the framework used for accessing the microphone is used by the application.

🔧 **Remediation**
The developer can remove the framework from the application binary. If the developer did not explicitly add the framework, they are often added during the build process from third party development tools or libraries.

🎯 **Finding Impact**
Developer should ensure that this permission is needed for the core functionality of the application. Extraneous permissions and functions increase the size of the application. Additionally users are wary of overly permissive apps.

Evidence

None

Relevant Framework(s):

Framework	Description
AVFoundation.framework `Requires Permission`	Contains Objective-C interfaces for playing and recording audio and video.
CoreVideo.framework	Contains low-level routines for manipulating audio and video (included with other frameworks indirectly).
CoreMedia.framework	Contains low-level routines for manipulating audio and video.
AudioToolbox.framework `Requires Permission`	Contains the interfaces for handling audio stream data and for playing and recording audio.

⚠️ **MEDIUM**

Accesses photos and/or videos `static` `CVSS Score: 2.3`

We determine if the application uses the AssetsLibrary or PhotoKit frameworks for accessing the photos and videos on the device.

Threat Details

Access to the user's photo and video library should be considered sensitive. Any and all user photos stored in this library can be accessed by the application.

Test Performed

We identify if the application uses the framework to access photos and videos stored on the device.

Remediation

The developer can remove the framework from the application binary. If the developer did not explicitly add the framework, they are often added during the build process from third party development tools or libraries.

Finding Impact

Developer should ensure that this permission is needed for the core functionality of the application. Extraneous permissions and functions increase the size of the application. Additionally users are wary of overly permissive apps.

Regulations

`Review` NIAP: FDP_DEC_EXT.1.2
`Review` GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
`Review` GDPR: Article 6: Lawfulness of Processing

Evidence

Permission	Info	Description
🖼 Photos	reason for the app to access the user's photo library	Need your approval to access photo library!

Relevant Framework(s):

None

⚠️ **MEDIUM**

Connection to foreign country `dynamic` `CVSS Score: 4.3`

The application connects to servers located outside of your designated home country. By default this is set to the United States and can be modified in the "Settings" menu for your user account under "Analysis" settings.

Threat Details

Connections to other countries can be important for many regulations and application standards, one prominent example is GDPR in the EU. Evaluators should consider what level of access and information the app has and look at which countries are connected to in order to determine the threat profile.

Regulations

Fail GDPR: Article 44 - General Principle for Transfers to Third Countries or International Organizations

Test Performed

We examine all network traffic to determine the countries that the application connects to.

Remediation

The developer should review the URL of the foreign connections to identify which domain the data is sent to. Using the URL and domain information they can then identify the entity/sdk the connection comes from and search their codebase for the origin of the network connection.

Finding Impact

Developer should ensure connections going outside the targeted app country are necessary and legitimate. Extraneous connections and sending data to untrusted countries could be a violation of GDPR.

Evidence

Foreign connections
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125
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CN 203.119.214.125
CN 203.119.214.125
CN 203.119.214.125

🇨🇳	CN	203.119.214.125
🇨🇳	CN	203.119.214.125
🇨🇳	CN	203.119.214.125
🇨🇳	CN	203.119.214.125

⚠ Integrates with an ad network `dynamic` **CVSS Score: 3.5**

`LOW`

The application integrates with an advertising network.

Threat Details

ⓘ Integration with advertising networks allows for tracking the user based off advertising identifiers and device metadata. This information can be combined with other datasets in the backend to identify user behavior, preferences, locations, and more. Special attention should be given to advertisers based in un-trusted countries.

Regulations

- `Review` NIAP: FPR_ANO_EXT.1.1
- `Review` GDPR: Article 44 - General Principle for Transfers to Third Countries or International Organizations
- `Review` GDPR: Article 17: Right to be Forgotten
- `Fail` GDPR: Article 22: Automated Individual Decision-Making, Including Profiling

Test Performed

✎ We scan through all network traffic generated by the application during Dynamic Analysis for the presence of Advertising Network traffic being transmitted.

Remediation

⚒ The developer should review the URL of the advertising connection to identify which domain the data is sent to. Using the URL and domain information they can then identify the entity/sdk the connection comes from and search their codebase for the origin of the network connection.

Finding Impact

◎ Developers often include third-party advertisement libraries in their applications. Developers should ensure that this advertising data is stored in a trusted location and transmitted in a secure manner. If the third-party provider does not meet these standards this can be a breach of privacy regulations like GDPR.

💼 **Evidence**

Ad Networks Detected:
DoubleClick US/International (Google)
Admob US/International (Google)

⚠ Integrates with a social network `dynamic` **CVSS Score: 3.5**

`LOW`

The application connects to at least one social networking service.

Threat Details

ⓘ Integration with social networks is common in consumer applications and should be considered normal. For business applications that may contain sensitive data connections to social networks should be reviewed for the data shared and purpose.

Regulations

- `Review` NIAP: FPR_ANO_EXT.1.1
- `Review` GDPR: Article 44 - General Principle for Transfers to Third Countries or International Organizations
- `Review` GDPR: Article 17: Right to be Forgotten

Test Performed

✎ We scan through all network traffic generated by the application during Dynamic Analysis for the presence of communication with know social networks.

Remediation

⚒ The developer may remove any social network related SDKs from their application and perform string searches for social network URLs that may be in their own code base.

Finding Impact

◎ Developers often include links to social networks in their applications. Developers should ensure that data sent to these networks are stored in a trusted location and transmitted in a secure manner. If the social network does not meet these standards this can be a breach of privacy regulations like GDPR.

💼 **Evidence**

Relevant Framework(s):

None

Can interact with email client on device `static` `CVSS Score: 2.3`

LOW

The application can interact with the email client on the device.

Threat Details

The application can pre-populate emails for the user to send, this can lead to abuse and information exposure for less security concious users.

Regulations

`Review` NIAP: FDP_DEC_EXT.1.2

Test Performed

We identify if the framework to interact with the email client is used by the application.

Remediation

The developer can remove the MessageUI framework from the application if it is not needed.

Finding Impact

Developer should ensure that this permission is needed for the core functionality of the application. Extraneous permissions and functions increase the size of the application. Additionally users are wary of overly permissive apps.

Evidence

Relevant Framework(s):

Framework	Description
MessageUI.framework	Contains interfaces for composing and queuing email or SMS.

Accesses the Internet `hybrid` `CVSS Score: null`

LOW

All execution is monitored during Dynamic Analysis for network traffic. If any network traffic is seen, this issue is flagged.

Threat Details

Access to the internet should be considered normal for any application that has a backend infrastructure. This should only be considered a risk if the application purports to not have any internet connectivity.

Regulations

Test Performed

We identify if the application requires permission to open network sockets for communication.

Remediation

The developer can remove any network calls initiated by the application by searching for methods like NSURLConnection.

Finding Impact

Developers should be aware of all potential network connections in their application. What data is sent and where is very important for not violating privacy regulations like GDPR. Ensure not only developer source code is considered, but also data handled by third-party libraries or frameworks.

Evidence

Network Traffic

Can modify files `hybrid` `CVSS Score: 2.3`

LOW

The application writes files to the device.

Threat Details

Access to modify files is limited to files in the application's private container and shared containers from the same developer. This functionality could be used to share information collected to another application with less privileged access.

Test Performed

All execution is monitored during Dynamic Analysis for NSFileManager operations. All fwrite operations are logged with the file name and path.

Remediation

The developer can look for NSFileManager operations, specifically fwrite operations inside their codebase. These can be trimmed from the application as needed.

Finding Impact

Developer should ensure that this permission is needed for the core functionality of the application. Extraneous permissions and functions increase the size of the application. Additionaly users are wary of overly permissive apps. Files stored on the device should also be encrypted, otherwise they may be exposed when used on a comprimised device.

Evidence

File Access

Regulations

Review   NIAP: FDP_DEC_EXT.1.2

Can read files   hybrid   CVSS Score: 2.3

The application reads files on the device.

LOW

Threat Details

Access to read files is limited to files in the application's private container and shared containers from the same developer. This functionality could be used to pull information collected from another application with more privileged access.

Test Performed

All execution is monitored during Dynamic Analysis for NSFileManager operations. All fopen operations are logged with the file name and path.

Remediation

The developer can look for NSFileManager operations, specifically fopen operations inside their codebase. These can be trimmed from the application as needed.

Finding Impact

Developer should ensure that this permission is needed for the core functionality of the application. Extraneous permissions and functions increase the size of the application. Additionaly users are wary of overly permissive apps.

Evidence

File Access

Regulations

Review   NIAP: FDP_DEC_EXT.1.2

PASSED

Exploitable   **No hard coded initialization vector (IV)**   dynamic   CVSS Score: 6.5   CWE-798

Threat Details

Encryption should always be performed with IVs that are random or as close to random as possible. Randomly generated IVs make reversing encryption operations much more difficult. Hard-coded IVs allow for easy reversing of encryption operations, attackers that are able to locate the hard-coded IV can use it to help reverse any operation and gain access to the previously encrypted data.

Regulations

Review OWASP: M2: Insecure Data Storage
Review OWASP: M5: Insufficient Cryptography
Review OWASP: M7: Client Code Quality
Review NIAP: FMT_CFG_EXT.1.1
Review GDPR: Article 32: Security of Processing
Review GDPR: Article 5: Principles Relating to Processing of Personal Data
Review GDPR: Article 25: Data Protection by Design and by Default

Test Performed

Scans were performed on the application's byte code and any packaged SDKs to search for hard-coded credentials used in cryptographic functions. These codes are declared as constant values within the application's code.

PASSED

Exploitable **No malware detected** static CVSS Score: 9.3 CWE-506

Threat Details
This application should not be installed on any device for any reason. Malware is present in the app.

Regulations
Review OWASP: M6: Insecure Authorization
Review GDPR: Article 25: Data Protection by Design and by Default

Test Performed
We run the application and any embedded files such as PDFs through a series of anti-virus engines to identify any known malware.

PASSED

Exploitable **Application transport security enabled** static CVSS Score: 6.3 CWE-295

Threat Details
Disabling of the built-in security features surrounding network connectivity allows for the application to load resources or communicate over insecure HTTP connections. These connections are vulnerable to information harvesting and man-in-the-middle attacks.

Regulations
Review OWASP: M3: Insecure Communication
Review OWASP: M7: Client Code Quality
Review NIAP: FTP_DIT_EXT.1.1
Review GDPR: Article 32: Security of Processing
Review GDPR: Article 5: Principles Relating to Processing of Personal Data
Review GDPR: Article 25: Data Protection by Design and by Default

Test Performed
We check the application's manifest (Info.plist) to see if the NSAllowsArbitraryLoads or NSExceptionAllowsInsecureHTTPLoads keys are enabled.

PASSED

Exploitable **Not vulnerable to known OS attacks** static CVSS Score: 8.6 CWE-284

Threat Details
An attacker can exploit the application on devices running a vulnerable operating system version. This may be used to attack users running the application and/or exploit the application itself.

Regulations
Review OWASP: M1: Improper Platform Usage
Review OWASP: M9: Reverse Engineering
Review OWASP: M8: Code Tampering
Review GDPR: Article 32: Security of Processing
Review GDPR: Article 5: Principles Relating to Processing of Personal Data
Review GDPR: Article 25: Data Protection by Design and by Default

Test Performed
We determine if the application supports operating system versions that have known vulnerabilities. This is determined by examining the application manifest for the minimum supported operating system version.

Does not access risk files over the network `dynamic` `CVSS Score: 6.3` `CWE-829`

PASSED

Threat Details

Accessing compressed files, executable files, and other code related file types may introduce different functionality to an application than the functionality that was approved by the application marketplace. Additionally, if the developer does not correctly validate the signature of the accessed file an attacker may alter its contents.

Test Performed

We monitor the network communications during dynamic analysis for file types that may be considered risky. These include compressed files, executable files, and other code related file types.

Regulations

`Review` OWASP: M10: Extraneous Functionality
`Review` OWASP: M8: Code Tampering

Proper Keychain Protection `dynamic` `CVSS Score: 4.4` `CWE-311`

PASSED

Threat Details

Insufficient Keychain protection may allow attackers gain easier access to data stored in the Keychain.

Test Performed

We monitor for Keychain operations during dynamic analysis and check the kSecAttrAccessible attribute for secure values.

Regulations

`Review` OWASP: M2: Insecure Data Storage
`Review` GDPR: Article 32: Security of Processing
`Review` GDPR: Article 5: Principles Relating to Processing of Personal Data

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Data at rest encryption `hybrid` `CVSS Score: 4.0` `CWE-311`

PASSED

Threat Details

If any sensitive data is handled by the application it is good practice to encrypt this data when stored locally. If the encryption operations are not seen it may be easier for attackers to exploit the information handled by this app.

Test Performed

We check to identify the presence of any encryption being performed on data stored on the file system throughout the application's Dynamic Analysis.

Regulations

`Review` OWASP: M2: Insecure Data Storage
`Review` OWASP: M5: Insufficient Cryptography
`Review` OWASP: M7: Client Code Quality
`Review` NIAP: FDP_DAR_EXT.1.1
`Review` GDPR: Article 32: Security of Processing
`Review` GDPR: Article 5: Principles Relating to Processing of Personal Data

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Uses iOS provided encryption `hybrid` `CVSS Score: 4.0` `CWE-798`

PASSED

Threat Details

If any sensitive data is handled by the application it is good practice to encrypt this data when stored locally. If the encryption operations are not seen it may be easier for attackers to exploit the information handled by this app.

Regulations

Review OWASP: M2: Insecure Data Storage
Review OWASP: M5: Insufficient Cryptography
Review OWASP: M7: Client Code Quality
Review NIAP: FDP_DAR_EXT.1.1
Review GDPR: Article 32: Security of Processing
Review GDPR: Article 5: Principles Relating to Processing of Personal Data

Test Performed

We check to see if the application utilizes the platform provided functionality when performing encryption operations.

✓ **Does not access camera** `static` CVSS Score: 2.3

PASSED

Threat Details

Access to the camera on a device allows an application to take pictures, record video, and view a live output of the camera view. Applications should be reviewed carefully to determine if they need access to these features to support their core functionality. Application developer and country of origin should also be taken into account when reviewing if the application should be run with this access.

Regulations

Review NIAP: FDP_DEC_EXT.1.1
Review GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
Review GDPR: Article 6: Lawfulness of Processing

Test Performed

We identify if the framework for accessing the camera of the device is used by the application.

✓ **No access to contacts/address book** `static` CVSS Score: 2.3

PASSED

Threat Details

Access to the user's contacts data should be considered very dangerous. The application has no restrictions for the type of contacts it can view data for and could gather contact details, locations, and more based off this access.

Regulations

Review NIAP: FDP_DEC_EXT.1.2
Review GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
Review GDPR: Article 6: Lawfulness of Processing

Test Performed

We identify if the application uses the framework to access the contacts/addresses on the device.

✓ **Exploitable** **Does not expose low risk sensitive information** `dynamic` CVSS Score: 4.3 CWE-200

PASSED

Threat Details

Sensitive information should be carefully reviewed to ensure it is only shared when absolutely necessary. Quokka highlights ALL sensitive information sent, including those to Apple, & the app developer to ensure the user is aware of all connections. Sharing of device metadata and unique user IDs (advertising IDs, generic user identifiers, etc) can be used in conjunction with other collected data to track users and identify them based off what seems to be innocuous information.

Regulations

Review OWASP: M7: Client Code Quality
Review NIAP: FPR_ANO_EXT.1.1
Review GDPR: Article 44 - General Principle for Transfers to Third Countries or International Organizations

Test Performed

We scan all network traffic generated during Dynamic Analysis for any sensitive information. This includes both plain text HTTP and encrypted HTTPS.

✓ PASSED

Exploitable **App checks for trusted environment** `dynamic` **CVSS Score: 5.0** **CWE-284**

Threat Details
Applications that do not check for a trusted operating environment may be vulnerable to reverse engineering and exploitation.

Regulations
Review OWASP: M9: Reverse Engineering

Test Performed
We monitor for health checks on the operating environment of the application. This includes checks for rooted and jailbroken devices among others.

✓ PASSED

Exploitable **No unencrypted network connections made** `dynamic` **CVSS Score: 6.3** **CWE-5**

Threat Details
If any sensitive data is exchanged over the network through the application it is essential to use encrypted network communications. If the application does not use encrypted connections the app should not have access to any sensitive functionality or data.

Regulations
Review OWASP: M3: Insecure Communication
Review OWASP: M7: Client Code Quality
Review NIAP: FTP_DIT_EXT.1.1
Review GDPR: Article 32: Security of Processing
Review GDPR: Article 5: Principles Relating to Processing of Personal Data
Review GDPR: Article 25: Data Protection by Design and by Default

Test Performed
We check for the use of SSL/TLS encryption during web communications made by the application.

✓ PASSED

Exploitable **SSL pinning detected** `dynamic` **CVSS Score: 6.6** **CWE-295**

Threat Details
SSL pinning is an essential technique to help prevent man-in-the-middle attacks on backend connections. If it is not utilized it is possible for attackers to intercept, monitor, and change communications between the application and backend.

Regulations
Review OWASP: M3: Insecure Communication

Test Performed
We attempt to perform a man-in-the-middle attack on the backend connections and monitor for use of pinned SSL certificates.

✓ PASSED

Memory Protections Enabled `static` **CVSS Score: 5.2** **CWE-693**

Threat Details
Disabling built in memory protection can expose the application to crashes or memory exploits.

Regulations
Review OWASP: M1: Improper Platform Usage

Test Performed
We check for compile time protections for application memory including ASLR, ARC, and stack smashing protections.

RASP detected   hybrid   CVSS Score: 3.9   CWE-919

PASSED

Threat Details
RASP libraries help to secure apps against reverse engineering and other exploits on end user devices. Without RASP the app may be more vulnerable to these types of attacks.

Test Performed
We check for signatures of known RASP libraries.

Regulations
Review   OWASP: M3: Insecure Communication

Does not get information about the user   static   CVSS Score: null

PASSED

Threat Details

Test Performed

Regulations
Review   NIAP: FDP_DEC_EXT.1.2
Review   GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
Review   GDPR: Article 6: Lawfulness of Processing

No cloud storage integration   dynamic   CVSS Score: 3.5

PASSED

Threat Details
Integration with cloud storage services enables storage of user files on the cloud. The type of data accessed by the app should be considered when assessing the risk of this capability. If there is sensitive data access cloud storage with third parties could be dangerous.

Test Performed
We scan through all network traffic generated by the application during Dynamic Analysis for the presence of cloud storage traffic being transmitted.

Regulations
Review   NIAP: FPR_ANO_EXT.1.1
Review   GDPR: Article 44 - General Principle for Transfers to Third Countries or International Organizations
Review   GDPR: Article 17: Right to be Forgotten

Does not access calendar   static   CVSS Score: 2.3

PASSED

Threat Details
Access to the user's calendar data should be considered very dangerous. The application has no restrictions for the type of events it can view data for and could gather contact details, locations, and more based off this access.

Test Performed
We determine if the application requires the framework to read and or write to the device's calendar.

Regulations
Review   NIAP: FDP_DEC_EXT.1.2
Review   GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
Review   GDPR: Article 6: Lawfulness of Processing

✓ Does not access Bluetooth `static` `CVSS Score: 2.3`

PASSED

Threat Details

ⓘ Access to all nearby bluetooth devices is granted with this permission. The application can search for nearby devices and initiate connection.

Regulations

`Review` NIAP: FDP_DEC_EXT.1.1
`Review` GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
`Review` GDPR: Article 6: Lawfulness of Processing

Test Performed

🧪 We determine if the application requires the framework for accessing the Bluetooth functionality of the device.

✓ Does not access location `static` `CVSS Score: 2.3`

PASSED

Threat Details

ⓘ Access to the location of the user will give the application exact details of where the device is located. The app has the choice of getting the most accurate measurements possible (0-3m) or updates when the user changes location based on 10m, 100m, 1km, or 3km deltas. Additionally the framework will allow estimates for general location information, e.g. Home, Work, Gym and estimates of the floor of a building the user is in.

Regulations

`Review` NIAP: FDP_DEC_EXT.1.1
`Review` GDPR: Article 13: Information to be Provided Where Personal Data are Collected from the Data Subject
`Review` GDPR: Article 6: Lawfulness of Processing

Test Performed

🧪 We determine if the application requires permission to access the device's physical location.

✓ No HTTP URLs found in application `static` `CVSS Score: 3.1` `CWE-5`

PASSED

Threat Details

ⓘ If any sensitive data is exchanged over the network through the application it is essential to use encrypted network communications. If the application does not use encrypted connections the app should not have access to any sensitive functionality or data.

Regulations

`Review` OWASP: M3: Insecure Communication
`Review` OWASP: M7: Client Code Quality
`Review` NIAP: FTP_DIT_EXT.1.1
`Review` GDPR: Article 32: Security of Processing
`Review` GDPR: Article 5: Principles Relating to Processing of Personal Data
`Review` GDPR: Article 25: Data Protection by Design and by Default

Test Performed

🧪 We scan the application during Static Analysis to find URLs that specify the insecure HTTP protocol (e.g. http://www.example.com)

✓ PASS

FPT_TUD_EXT.1.4 **No executable files were changed during runtime.**

Testing Criteria
The application shall not download, modify, replace or update its own binary code.

Evaluation Activity
The evaluator shall verify that the application's executable files are not changed by the application. The evaluator shall install the application and then locate all of its executable files. The evaluator shall then, for each file, save off either a hash of the file or a copy of the file itself. The evaluator shall then run the application and exercise all features of the application as described in the TSS. The evaluator shall then compare each executable file with the either the saved hash or the saved copy of the files. The evaluator shall verify that these are identical.

We calculate and compare SHA-256 hashes for all executable files before and after analysis
Displaying first 10 results

Executable	Changes Detected
vpn.app/Frameworks/ZendeskCoreSDK.framework/ZendeskCoreSDK	
vpn.app/Frameworks/ZendeskProviderSDK.framework/ZendeskProviderSDK	
vpn.app/Frameworks/libswiftSwiftOnoneSupport.dylib	
vpn.app/Frameworks/libswiftCoreData.dylib	
vpn.app/vpn	
vpn.app/Frameworks/libswiftAVFoundation.dylib	
vpn.app/Frameworks/libswiftCoreLocation.dylib	
vpn.app/Frameworks/libswiftQuartzCore.dylib	
vpn.app/Frameworks/libswiftObjectiveC.dylib	
vpn.app/Frameworks/libswiftUIKit.dylib	

✓ PASS

FPT_AEX_EXT.1.3 **Application ran successfully on a device with the latest version of iOS.**

Testing Criteria
The application shall be compatible with security features provided by the platform vendor.

Evaluation Activity
The evaluator shall ensure that the application can successfully run on the latest version of iOS.

We check if the application installs and runs succesfully on a device with the newest version of iOS. If it does we display a success message, if it does not we display a failure message.

Result:
Binary is a valid IPA, installed and ran successfully.

REVIEW

FCS_CKM.2 **If any ciphers that the app will use for SSL/TLS connections and are selected through the native iOS method SSLSetEnabledCiphers we display below.**

Testing Criteria
The application shall [**selection**: *invoke platform-provided functionality* , *implement functionality*] to perform cryptographic key establishment in accordance with a specified cryptographic key establishment method:

[**RSA-based key establishment schemes**] that meets the following: [**NIST Special Publication 800-56B, "Recommendation for Pair-Wise Key Establishment Schemes Using Integer Factorization Cryptography"**]

and [**selection**:

> [**Elliptic curve-based key establishment schemes**] *that meets the following:* [**NIST Special Publication 800-56A, "Recommendation for Pair-Wise Key Establishment Schemes Using Discrete Logarithm Cryptography"**] ,

> [**Finite field-based key establishment schemes**] *that meets the following:* [**NIST Special Publication 800-56A, "Recommendation for Pair-Wise Key Establishment Schemes Using Discrete Logarithm Cryptography"**] ,

> *No other schemes*

].

Evaluation Activity
The evaluator shall ensure that the supported key establishment schemes correspond to the key generation schemes identified in FCS_CKM.1.1

PASS

FPT_AEX_EXT.1.4 **The requirement is automatically met for iOS.**

Testing Criteria
The application shall not write user-modifiable files to directories that contain executable files unless explicitly directed by the user to do so.

Evaluation Activity
For iOS:*The evaluator shall consider the requirement met because the platform forces applications to write all data within the application working directory (sandbox).*

REVIEW

FDP_NET_EXT.1.1 **We show if the application accesses the Internet. If there was network traffic during the application runtime the data is available in an HTML browser and via a HAR download.**

Testing Criteria
The application shall restrict network communication to [**selection**:

> *no network communication,*

> *user-initiated communication for* [**assignment**: *list of functions for which the user can initiate network communication*] ,

> *respond to* [**assignment**: *list of remotely initiated communication*] ,

> [**assignment**: *list of application-initiated network communication*]

].

Evaluation Activity

The evaluator shall perform the following tests:

- **Test 1:** *The evaluator shall run the application. While the application is running, the evaluator shall sniff network traffic ignoring all non-application associated traffic and verify that any network communications witnessed are documented in the TSS or are user-initiated.*
- **Test 2:** *The evaluator shall run the application. After the application initializes, the evaluator shall run network port scans to verify that any ports opened by the application have been captured in the ST for the third selection and its assignment. This includes connection-based protocols (e.g. TCP, DCCP) as well as connectionless protocols (e.g. UDP).*

We show if the application accesses the Internet. If there was network traffic during the application runtime the data is available in an HTML browser and via a HAR download.

Internet:

true

FPR_ANO_EXT.1.1 **App transmits what may be considered PII.**

FAIL

Testing Criteria

The application shall [**selection**:

   not transmit PII over a network,

   require user approval before executing[**assignment**: list of functions that transmit PII over a network]

].

Evaluation Activity

The evaluator shall inspect the TSS documentation to identify functionality in the application where PII can be transmitted, and perform the following tests.

- **Test 1:** *The evaluator shall run the application and exercise the functionality responsibly for transmitting PII and verify that user approval is required before transmission of the PII.*

This content could potentially be considered personally identifiable information. The evaluator should run the app to see if it asks for consent to transmit this information.

PII:

context	type	value
https://graph.facebook.com/v2.10/828149437372042/activities?advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=MOBILE_APP_INSTALL&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2

context	type	value
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=CUSTOM_APP_EVENTS&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=MOBILE_APP_INSTALL&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=CUSTOM_APP_EVENTS&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=CUSTOM_APP_EVENTS&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2

FCS_CKM_EXT.1 **If any public/private keys were generated using the native iOS method SecKeyGeneratePair we display below. (As of iOS 9 the keys are generated only through the RSA scheme).**

REVIEW

Testing Criteria

The application shall [**selection**:

  generate no asymmetric cryptographic keys,

  invoke platform-provided functionality for asymmetric key generation,

  implement asymmetric key generation

].

Evaluation Activity

*The evaluator shall inspect the application and its developer documentation to determine if the application needs asymmetric key generation services. If not, the evaluator shall verify the **generate no asymmetric cryptographic keys** selection is present in the ST. Otherwise, the evaluation activities shall be performed as stated in the selection-based requirements.*

We detect all public/private keys that are generated using the native iOS method SecKeyGeneratePair.

Calls:

public_key_modulus	openssl_info	public_key_exponent	private_key_base64	public_key_base64	public_key_size_bits	private_key_size_bits
ALqhljeHbBC9Vx Jvh3sZzNM0/7s Zsf717HufDVz70 EFioPnhM9JqA0 NFIu/bP5MdE...	Private-Key: (2048 bit) modulus: 00:ba:a1:96:37: 87:6c:10:bd:5...	65537	MIIEogIBAAKCA QEAuqGWN4ds EL1XEm+HexnM 0zT/uxmx/vXse5 8NXPvQQWKg...	MIIBCgKCAQEAu qGWN4dsEL1XE m+HexnM0zT/u xmx/vXse58NXP vQQWKg+eEz0...	2048	2048

🔍 REVIEW   ⬆

FCS_HTTPS_EXT.1.1 **Network traffic is provided for review.**

Testing Criteria

The application shall implement the HTTPS protocol that complies with RFC 2818.

Evaluation Activity

The evaluator shall attempt to establish an HTTPS connection with a webserver, observe the traffic with a packet analyzer, and verify that the connection succeeds and that the traffic is identified as TLS or HTTPS.

We provide the raw network traffic for the analyst to review.

Insecure URLs:

http://captive.apple.com/hotspot-detect.html

http://ipinfo.io/json

http://www.mobilejump.mobi/tizi_ads/freetizi1.json

http://ios.mobilejump.mobi/tizi3.php

🔍 REVIEW   ⬆

FCS_CKM.1.1 **If cryptographic operations were used, all executed during runtime are shown below. The algorithm used, type of operation, key, IV, and data are displayed for reference.**

Testing Criteria

The application shall generate symmetric cryptographic keys using a Random Bit Generator as specified in FCS_RBG_EXT.1 and specified cryptographic key sizes [**selection**:

128 bit,

256 bit].

Evaluation Activity

TSS

The evaluator shall review the TSS to determine that it describes how the functionality described by FCS_RBG_EXT.1 is invoked.

If the application is relying on random bit generation from the host platform, the evaluator shall verify the TSS includes the name/manufacturer of the external RBG and describes the function call and parameters used when calling the external DRBG function. If different external RBGs are used for different platforms, the evaluator shall verify the TSS identifies each RBG for each platform. Also, the evaluator shall verify the TSS includes a short description of the vendor's assumption for the amount of entropy seeding the external DRBG. The evaluator uses the description of the RBG functionality in FCS_RBG_EXT or documentation available for the operational environment to determine that the key size being requested is identical to the key size and mode to be used for the encryption/decryption of the user data.

All cryptographic operations executed during runtime are shown below. The algorithm used, type of operation, key, IV, and data are displayed for reference.

Data:

Displaying first 10 results

Algorithm	DataFormat	Operation	count	IV	Key	dataOut	Data	Method	dataIn
AES-128	text	Encrypt	1	CgELBQQP BwkXAwEG CAwNWw= =	ZDVhZmlz NGVlNDNi ZmE1ZA==	UPUfSU7XO MUI74P2xy eVnQ==	umeng+	CCCrypt	umeng+
DES	text	Decrypt	1	ODc0OTM4 NzE=	ODYxMDEx MDA=	{"servers": [{"country": "US","count ry_name":" US-...	{"servers": [{"country": "US","count ry_name":" US-...	CCCrypt	OEtR7XW0 mk44jlaeUJ ik51Rb8fvK Na9+s0iBiC 8oNa5es...
DES	text	Encrypt	2	ODc0OTM4 NzE=	ODYxMDEx MDA=	mwIoV8tYl cb8G4+Q1 6g0+hSTmS 4Fle/wNCT 7i3pmB2...	m=init&lan g=en- US&region= US&pk=mo bi.mobile...	CCCrypt	m=init&lan g=en- US&region= US&pk=mo bi.mobile...
DES	text	Decrypt	1	ODc0OTM4 NzE=	ODYxMDEx MDA=	{"servers": [{"country": "US","count ry_name":" US-...	{"servers": [{"country": "US","count ry_name":" US-...	CCCrypt	OEtR7XW0 mk44jlaeUJ ik51Rb8fvK Na9+s0iBiC 8oNa5es...
DES	text	Encrypt	1	ODc0OTM4 NzE=	ODYxMDEx MDA=	OEtR7XW0 mk7AA92Fo W696wJoBc 6IKCk41g6y hgLWwPS...	{"servers": [{"passwor d":"treeup", "country":" US","host"...	CCCrypt	{"servers": [{"passwor d":"treeup", "country":" US","host"...
AES-128	text	Encrypt	1	CgELBQQP BwkXAwEG CAwNWw= =	ZDVhZmlz NGVlNDNi ZmE1ZA==	CiAoU1VD/ GpL/23RNl V6wbIphKv OpLE8F/b1 viz5jIIYdh...	[{"duration ":493854,"p age_name": "ViewContr oller"}]	CCCrypt	[{"duration ":493854,"p age_name": "ViewContr oller"}]
AES-128	text	Decrypt	1	CgELBQQP BwkXAwEG CAwNWw= =	ZDVhZmlz NGVlNDNi ZmE1ZA==	[{"duration ":493854,"p age_name": "ViewContr oller"}]	[{"duration ":493854,"p age_name": "ViewContr oller"}]	CCCrypt	CiAoU1VD/ GpL/23RNl V6wbIphKv OpLE8F/b1 viz5jIIYdh...

Algorithm	DataFormat	Operation	count	IV	Key	dataOut	Data	Method	dataIn
DES	text	Decrypt	1	ODc0OTM4NzE=	ODYxMDExMDA=	client dev tun #connection# connect-...	client dev tun #connection# connect-...	CCCrypt	P+SF8zJXEXGrTrJcPie4Eoj0mkhXDDCtLEulA0ui85L8Gn5...
DES	text	Decrypt	1	ODc0OTM4NzE=	ODYxMDExMDA=	<connection> remote #host# #port# #protocol...	<connection> remote #host# #port# #protocol...	CCCrypt	1SC6X32o+YNRyI4C6hXLII2Mky2rlK6sUW5UId3K0ZT/U+...
AES-128	text	Encrypt	1	CgELBQQPBwkXAwEGCAwNWw==	ZDVhZmlzNGVlNDZiZmE1ZA==	ctQI+MPVv0F7FG7F9kkh6yIU2ClqVenA6ZtqllhOK9EOx...	[{"duration":4880,"page_name":"YFClostADViewContro...	[{"duration":4880,"page_name":"YFClostADViewContro...	CCCrypt	

🔍

REVIEW

FMT_MEC_EXT.1.1 **App stores/retrieves preferences using the NSUserDefaults class. The evaluator needs to identify if all of the app's settings are included.**

⬆

Testing Criteria

The application shall invoke the mechanisms recommended by the platform vendor for storing and setting configuration options

Evaluation Activity

The evaluator shall review the TSS to identify the application's configuration options (e.g. settings) and determine whether these are stored and set using the mechanisms supported by the platform. At a minimum the TSS shall list settings related to any SFRs and any settings that are mandated in the operational guidance in response to an SFR. The method of doing so varies per platform.

For iOS:*The evaluator shall verify that the app uses the* `user defaults system or key-value store` *for storing all settings.*

We report all values stored or retrieved through the NSUserDefaults and all generated PLIST files.
Displaying first 10 results

Name	Operation	Value
/google/firebase/debug_mode	get	
hasAccessibilityBeenMigrated	get	
UIPreferredContentSizeCategoryName	get	
NSTighteningFactorForTruncation	get	0
NSForceRightToLeftWritingDirection	get	
UIViewLayoutFeedbackLoopDebuggingThreshold	get	0
NSLayoutManagerForcesShowPackedGlyphs	get	
NSPreTigerAttributedStringHash	get	

Name	Operation	Value
/google/measurement/hashed_idfa	get	
/google/measurement/app_instance_id	get	

🔍 **REVIEW** FDP_DEC_EXT.1.2 **Permissions requested to access system-wide resources are displayed.** ⬆

Testing Criteria

The application shall restrict its access to [**selection**:

 no sensitive information repositories,

 address book,

 calendar,

 call lists,

 system logs,

 [**assignment**: *list of additional sensitive information repositories*]

].

Evaluation Activity

The evaluator shall verify that either the application software or its documentation provides a list of the sensitive information repositories it accesses.

The permissions requested by the application during runtime that are associated with information repositories are displayed below.

can_access_shared_libraries
can_interact_email_client
can_interact_sms_mms

🔍 **REVIEW** FDP_DEC_EXT.1.1 **Permissions requested to access hardware resources are displayed.** ⬆

Testing Criteria

The application shall restrict its access to [**selection**:

    no hardware resources,

    network connectivity,

    camera,

    microphone,

    location services,

    NFC,

    USB,

    Bluetooth,

    [**assignment**: *list of additional hardware resources*]

].

Evaluation Activity

The evaluator shall verify that either the application or the documentation provides a list of the hardware resources it accesses.

The permissions requested by the application during runtime that are associated with hardware resources are displayed below.

can_access_microphone
can_interact_sms_mms
can_access_internet
can_read_files
can_modify_files

⚠️ **FAIL**

FCS_RBG_EXT.1.1   **Detected uses of C functions rand / random / arc4random which do not meet the testing criteria.**

Testing Criteria

The application shall [**selection**:

    use no DRBG functionality,

    invoke platform-provided DRBG functionality,

    implement DRBG functionality

] for its cryptographic operations.

Evaluation Activity

For iOS: *The evaluator shall verify that the application invokes SecRandomCopyBytes or uses /dev/random directly to acquire random.*

The following table lists all methods that were called for random number generation.

Methods:

rand
arc4random
SecRandomCopyBytes

✅   **Application was correctly packaged in the IPA format.**

    ~~FPT_TUD_EXT.1.2~~

FPT_TUD_EXT.1.2

PASS

Testing Criteria

The application shall be distributed using the format of the platform-supported package manager.

Evaluation Activity

The evaluator shall ensure that the application is packaged in the IPA format.

We check if the application installs and runs succesfully on a device with the newest version of iOS. If it does we display a success message, if it does not we display a failure message.

Result:

Binary is a valid IPA, installed and ran successfully.

FPT_TUD_EXT.1.3 **If files were stored/read, any files accessed are provided for review.**

REVIEW

Testing Criteria

The application shall be packaged such that its removal results in the deletion of all traces of the application, with the exception of configuration settings, output files, and audit/log events.

Evaluation Activity

The evaluator shall record the path of every file on the entire filesystem prior to installation of the application, and then install and run the application. Afterwards, the evaluator shall then uninstall the application, and compare the resulting filesystem to the initial record to verify that no files, other than configuration, output, and audit/log files, have been added to the filesystem.

We list all files accessed in Read/Write mode for the analyst to review

Mode	Filepath
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302155825_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn 2)/FIREBASE_UNIQUE_INSTALL
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302214655_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302140397_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/255574bbdbbe08c.gcache
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302225011_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302251304_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302282037_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302279456_envelope.log

Mode	Filepath
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302216716_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/userInfo.a
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/com-facebook-sdk-PersistedAnonymousID.json
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302142727_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/CLSUserDefaults.plist
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/servers.vpn
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/com-facebook-sdk-AppEventsTimeSpent.json
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302207503_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302161168_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302146620_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/exchangeIdentity.json
Read/Write	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/v3/active/0432b3ae3b324d49a8bba80146dd6d6d/sdk.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302253548_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551301646616_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/crash_metadata
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302227906_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302142171_envelope.log

Mode	Filepath
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/agmanifest.plist
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn 2)/userInfo.a
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302215229_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/com.google.iid-keypair.plist
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302254590_envelope.log
Read/Write	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Application Support/vpn/vpn.sqlite
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302208795_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/exid.dat
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302255624_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302217735_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302162486_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302147565_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302154916_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302205662_envelope.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/g-checkin.plist
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302225955_envelope.log

FPT_AEX_EXT.1.2 **Function mprotect is never invoked with the PROT_EXEC permission.**

PASS

Testing Criteria

The application shall [**selection**:

> not allocate any memory region with both write and execute permissions
> ,
>
> allocate memory regions with write and execute permissions for only
> [**assignment**: *list of functions performing just-in-time compilation*]

].

Evaluation Activity

The evaluator shall perform static analysis on the application to verify that mprotect is never invoked with the PROT_EXEC permission.

⚠

FAIL

`FMT_SMF.1.1` **App transmits what may be considered PII.**

Testing Criteria

The TSF shall be capable of performing the following management functions[**selection**:

> no management functions,
>
> enable/disable the transmission of any information describing the system's hardware, software, or configuration,
>
> enable/disable the transmission of any PII,
>
> enable/disable transmission of any application state (e.g. crashdump) information,
>
> enable/disable network backup functionality to [**assignment**: *list of enterprise or commercial cloud backup systems*] ,
>
> [**assignment**: *list of other management functions to be provided by the TSF*]

].

Evaluation Activity

The evaluator shall verify that every management function mandated by the PP is described in the operational guidance and that the description contains the information required to perform the management duties associated with the management function. The evaluator shall test the application's ability to provide the management functions by configuring the application and testing each option selected from above. The evaluator is expected to test these functions in all the ways in which the ST and guidance documentation state the configuration can be managed.

We display content that could potentially be considered personally identifiable information as well as the cloud storage services that were detected. The evaluator should run the app to see if the user is able to disable the transmission of this information and the usage of the listed storage services.

PII:

context	type	value
https://graph.facebook.com/v2.10/828149437372042/activities?advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=MOBILE_APP_INSTALL&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2

context	type	value
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=CUSTOM_APP_EVENTS&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=MOBILE_APP_INSTALL&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=CUSTOM_APP_EVENTS&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2
https://graph.facebook.com/v2.10/828149437372042/activities? advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2&advertiser_tracking_enabled=1&anon_id=XZDE5F2CE0-6BBD-4C60-A62F-2CFD79F7E001&application_tracking_enabled=1&event=CUSTOM_APP_EVENTS&extinfo=%5B%22i2%22%2C%22mobi.mobilejump.freevpn%22%2C%22190217%22%2C%221.4.4%22%2C%2211.1%22%2C%22iPhone10%2C1%22%2C%22en_US%22%2C%22EST%22%2C%22T-Mobile%22%2C375%2C667%2C%222.00%22%2C6%2C60%2C50%2C%22America%5C%2FNew_York%22%5D&format=json&include_headers=false&sdk=ios&url_schemes=%5B%22fb828149437372042%22%5D	Advertising_Identifier	advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BABF2

FPT_LIB_EXT.1.1 **Any Libraries and frameworks that were packaged with the application or dynamically loaded are displayed.**

REVIEW

Testing Criteria

The application shall be packaged with only [**assignment:** *list of third-party libraries*].

Evaluation Activity

The evaluator shall install the application and survey its installation directory for dynamic libraries. The evaluator shall verify that libraries found to be packaged with or employed by the application are limited to those in the assignment.

Libraries loaded dynamically during runtime are shown below. System libraries and frameworks that are used are displayed as well.
Displaying first 5 results for each table

Libraries		
Dynamic Libraries	**System Frameworks**	**System Libraries**

ZendeskSDK.framework:
    version: "compatibility version 0.0.0, current version 0.0.0"
    path: "Frameworks/ZendeskSDK.framework/ZendeskSDK"
	StoreKit.framework:
	    description: "Contains interfaces for handling the financial transactions associated with in-app purchases."
	    version: "compatibility version 1.0.0, current version 1.0.0"
	    requires_permission: 0
	    path: "/System/Library/Frameworks/StoreKit.framework/StoreKit"
	    framework: "StoreKit.framework"
		/usr/lib/libxml2.2.dylib:
		    version: "compatibility version 10.0.0, current version 10.9.0"
		    path: "/usr/lib/libxml2.2.dylib"

ZendeskCoreSDK.framework:
    version: "compatibility version 1.0.0, current version 1.0.0"
    path: "Frameworks/ZendeskCoreSDK.framework/ZendeskCoreSDK"
	CoreTelephony.framework:
	    description: "Contains routines for accessing telephony-related information and provides interfaces for interacting with phone-based information on devices that have a cellular radio. Apps can use this framework to get information about a user's cellular service provider. Apps interested in cellular call events (such as VoIP apps) can also be notified when those events occur."
	    version: "compatibility version 1.0.0, current version 0.0.0"
	    requires_permission: 0
	    path: "/System/Library/Frameworks/CoreTelephony.framework/CoreTelephony"
	    framework: "CoreTelephony.framework"
		/usr/lib/libSystem.B.dylib:
		    version: "compatibility version 1.0.0, current version 1252.200.5"
		    path: "/usr/lib/libSystem.B.dylib"

ZendeskProviderSDK.framework:
    version: "compatibility version 0.0.0, current version 0.0.0"
    path: "Frameworks/ZendeskProviderSDK.framework/ZendeskProviderSDK"
	JavaScriptCore.framework:
	    description: "Contains Objective-C wrappers for evaluating JavaScript code and parsing JSON."
	    version: "compatibility version 1.0.0, current version 606.2.104"
	    requires_permission: 0
	    path: "/System/Library/Frameworks/JavaScriptCore.framework/JavaScriptCore"
	    framework: "JavaScriptCore.framework"
		/usr/lib/libobjc.A.dylib:
		    version: "compatibility version 1.0.0, current version 228.0.0"
		    path: "/usr/lib/libobjc.A.dylib"

Libraries

Dynamic Libraries	System Frameworks	System Libraries

	CoreMedia.framework:
	  description: "Contains low-level routines for manipulating audio and video."
	  version: "compatibility version 1.0.0, current version 1.0.0"
	  requires_permission: 0
	  path: "/System/Library/Frameworks/CoreMedia.framework/CoreMedia"
	  framework: "CoreMedia.framework"
		/usr/lib/libsqlite3.dylib:
		  version: "compatibility version 9.0.0, current version 274.20.0"
		  path: "/usr/lib/libsqlite3.dylib"

	SystemConfiguration.framework:
	  description: "Contains interfaces for determining the network configuration of a device."
	  version: "compatibility version 1.0.0, current version 963.200.27"
	  requires_permission: 0
	  path: "/System/Library/Frameworks/SystemConfiguration.framework/SystemConfiguration"
	  framework: "SystemConfiguration.framework"
		/usr/lib/libc++.1.dylib:
		  version: "compatibility version 1.0.0, current version 400.9.4"
		  path: "/usr/lib/libc++.1.dylib"

Dyn-libraries

__EXECUTABLE__	__SYSTEM__
loaded_by: "vpn" **method_used**: "UnityGetGLViewController" **path**: "/var/containers/Bundle/Application/53F372EC-859E-4102-93BB-C8C0F85C756B/vpn.app" **loaded_using**: "NSBundle:initWithPath"	**loaded_by**: "???" **method_used**: "0x0" **path**: "/Library/TweakInject/SSLKillSwitch2.dylib" **loaded_using**: "C:dlopen"
loaded_by: "vpn" **method_used**: "vpn" **path**: "/private/var/containers/Bundle/Application/53F372EC-859E-4102-93BB-C8C0F85C756B/vpn.app/Frameworks/ZendeskCoreSDK.framework" **loaded_using**: "NSBundle:initWithPath"	**loaded_by**: "libdispatch.dylib" **method_used**: "<redacted>" **path**: "/System/Library/Frameworks/QuartzCore.framework/QuartzCore" **loaded_using**: "C:dlopen"
loaded_by: "vpn" **method_used**: "vpn" **path**: "/private/var/containers/Bundle/Application/53F372EC-859E-4102-93BB-C8C0F85C756B/vpn.app/Frameworks/ZendeskProviderSDK.framework" **loaded_using**: "NSBundle:initWithPath"	**loaded_by**: "libdispatch.dylib" **method_used**: "<redacted>" **path**: "/System/Library/PrivateFrameworks/ColorSync.framework/ColorSync" **loaded_using**: "C:dlopen"
loaded_by: "vpn" **method_used**: "vpn" **path**: "/private/var/containers/Bundle/Application/53F372EC-859E-4102-93BB-C8C0F85C756B/vpn.app/Frameworks/ZendeskSDK.framework" **loaded_using**: "NSBundle:initWithPath"	**loaded_by**: "vImage" **method_used**: "<redacted>" **path**: "/System/Library/Frameworks/Accelerate.framework/Frameworks/vImage.framework/Libraries/libCGInterfaces.dylib" **loaded_using**: "C:dlopen"

Dyn-libraries

__EXECUTABLE__	__SYSTEM__

loaded_by: "vpn"
method_used: "vpn"
path: "/Library/Frameworks/CydiaSubstrate.framework"
loaded_using: "NSBundle:initWithPath"

loaded_by: "UIKit"
method_used: "<redacted>"
path: "/System/Library/Frameworks/UIKit.framework"
loaded_using: "NSBundle:initWithPath"

⚠️ ↑

FCS_COP.1(1) **Application uses unsupported encryption algorithms (DES, 3DES, CAST or RC4) and/or key sizes less than 256 bits and/or ECB mode of operations.**

FAIL

Testing Criteria
The application shall perform encryption/decryption in accordance with a specified cryptographic algorithm

- AES-CBC (as defined in NIST SP 800-38A) mode;

and [**selection**:
  AES-GCM (as defined in NIST SP 800-38D),

  no other modes

] and cryptographic key sizes 256-bit and [**selection**: *128-bit*, *no other key sizes*].

Evaluation Activity
The evaluator checks the AGD documents to determine that any configuration that is required to be done to configure the functionality for the required modes and key sizes is present. The evaluator shall perform a number of the tests for each algorithm implemented by the TSF.

We report the algorithm used for encryption and the key size for all operations that are using the iOS encyption libraries.
Encryption Ops:

algorithm	key_size_bits	iv_size_bits
AES	128	128
DES	64	64

⚠️ ↑

FMT_CFG_EXT.1.1 **Hard-coded credentials and/or cryptographic keys were detected.**

FAIL

Testing Criteria
The application shall provide only enough functionality to set new credentials when configured with default credentials or no credentials.

Evaluation Activity

The evaluator shall check the TSS to determine if the application requires any type of credentials and if the application installs with default credentials. If the application uses any default credentials the evaluator shall run the following tests.

- *Test 1: The evaluator shall install and run the application without generating or loading new credentials and verify that only the minimal application functionality required to set new credentials is available.*
- *Test 2: The evaluator shall attempt to clear all credentials and verify that only the minimal application functionality required to set new credentials is available.*

- *Test 3: The evaluator shall run the application, establish new credentials and verify that the original default credentials no longer provide access to the application.*

All cryptographic operations are monitored during runtime, any that used hard-coded encryption keys are displayed below. The algorithm, type of operation, key, hard-coded key, and data are included for reference.

Data:

Algorithm	DataFormat	dataIn	IV
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hardcoded_key	count	Method	hardcoded_key_found
"86101100"	1	"CCCrypt"	true

FPT_TUD_EXT.1.5 **Application versions are displayed.**

REVIEW

Testing Criteria

The application shall [**selection**, at least one of: *provide the ability, leverage the platform*] to query the current version of the application software.

Evaluation Activity

The evaluator shall query the application for the current version of the software according to the operational user guidance (AGD_OPE.1) and shall verify that the current version matches that of the documented and installed version.

The version string found in the application and the version on the App Store are displayed below. The evaluator should confirm that they match the version listed in the documentation.

Long:
190217
Short:
1.44

⚠️

FAIL

FTP_DIT_EXT.1.1   **Application has iOS's Application Transport Security feature disabled. The corresponding entry from the application's Info.plist file is displayed.**

↑

Testing Criteria

The application shall [**selection**:

  not transmit any data,

  not transmit any sensitive data,

  *encrypt all transmitted sensitive data with [***selection**, at least one of: HTTPS, TLS, DTLS, SSH as conforming to the Extended Package for Secure Shell*] ,*

  *encrypt all transmitted data with [***selection**, at least one of: HTTPS, TLS, DTLS, SSH]*

] between itself and another trusted IT product.

Evaluation Activity

If "encrypt all transmitted data" is selected, the evaluator shall ensure that the application's Info.plist file does not contain the NSAllowsArbitraryLoads or NSExceptionAllowsInsecureHTTPLoads keys, as these keys disable iOS's Application Transport Security feature.

We check if the application has iOS's Application Transport Security feature disabled and display the corresponding entry from the application's Info.plist file.

NSAppTransportSecurityDisabled
true

NSAppTransportSecurity
NSAllowsArbitraryLoads
true
—— NSExceptionDomains

NSAppTransportSecurity_xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<plist version="1.0">
  <dict>
    <key>NSAllowsArbitraryLoads</key>
    <true/>
  </dict>
</plist>
```

✓ **PASS**

FPT_TUD_EXT.1.6   **Application is digitally signed by Apple (it is distributed through the iTunes App Store).**

Testing Criteria

The application installation package and its updates shall be digitally signed such that its platform can cryptographically verify them prior to installation.

Evaluation Activity

The evaluator shall verify that the TSS identifies how the application installation package and updates to it are signed by an authorized source. The definition of an authorized source must be contained in the TSS. The evaluator shall also ensure that the TSS (or the operational guidance) describes how candidate updates are obtained.

This requirement is automatically met for all apps distributed by the App Store (these are code signed by Apple). For in house developed apps we report all the code signature details.

Code Signature:
App Name:
VPN
Compiler:
com.apple.compilers.llvm.clang.1_0
Minimum OS Version:
9.0
Platform:
iphoneos
Platform Version:
12.1

⚠ **FAIL**

FCS_COP.1(2)   **Application uses unsupported hashing algorithms (MD2, MD4, MD5, SHA-224) and/or message digest sizes that are not 160 / 256 / 384 / 512 bits.**

Testing Criteria

The application shall perform cryptographic hashing services in accordance with a specified cryptographic algorithm [**selection**:

     SHA-1,

     SHA-256,

     SHA-384,

     SHA-512,

     no other algorithms

] and message digest sizes [**selection**:

     160,

     256,

     384,

     512,

     no other message digest sizes

] bits that meet the following: FIPS Pub 180-4.

Evaluation Activity

The evaluator shall check that the association of the hash function with other application cryptographic functions (for example, the digital signature verification function) is documented in the TSS.

We report the algorithm used for hashing, the data that will be hashed as well as message digest size for all operations that are using the iOS hashing libraries.
Hash Ops:

message_digest_size_bits	algorithm
160	SHA-1
128	MD5

✓ **PASS**

FPT_AEX_EXT.1.1 **The application does not request to map memory at an explicit address.**

Testing Criteria

The application shall not request to map memory at an explicit address except for [**assignment**: list of explicit exceptions] .

Evaluation Activity

The evaluator shall perform a static analysis to search for any mmap calls (or API calls that call mmap), and ensure that no arguments are provided that request a mapping at a fixed address.

The following table lists all calls to the mmap function along with the memory addresses that were requested.

Calls:

protection_flags	address
PROT_READ	0x0
PROT_READ, PROT_WRITE	0x0

🔍 **REVIEW**

FCS_COP.1(3) **iOS only supports signing using the RSA scheme through the SecKeyRawSign method, if it is used we detect and present all private keys.**

Testing Criteria

The application shall perform cryptographic signature services (generation and verification) in accordance with a specified cryptographic algorithm [**selection**:

> **RSA schemes** *using cryptographic key sizes of 2048-bit or greater that meet the following: FIPS PUB 186-4, "Digital Signature Standard (DSS)", Section 4 ,*

> **ECDSA schemes** *using "NIST curves" P-256, P-384 and [**selection**: P-521, no other curves] that meet the following: FIPS PUB 186-4, "Digital Signature Standard (DSS)", Section 5*

]

Evaluation Activity

The evaluator shall perform a series of ECDSA Algorithm tests and RSA Signature Algorithm Tests

Application Information

Application name	Package name
VPN - Super Unlimited Proxy	mobi.mobilejump.freevpn
Application version	**MD5 hash**
190217	3098e0f707c0861669c11967d922d2bd
SHA256 hash	
2ed30fb9c14ddae296402bc592081cfead0460abe0548770bc953744bdb4ae75	

Permissions Requested

Permission	Info	Description
Photos	reason for the app to access the user's photo library	Need your approval to access photo library!
Camera	reason for the app to access the device's camera	Need your approval to access the camera!

Keychain Operations

Method	Item Class	Query/Updated Items
SecItemDelete		**service_name**: "instanceid.test" **account**: "temp"
SecItemDelete		**service_name**: "instanceid.test" **account**: "temp"
SecItemDelete		**service_name**: "com.google.iid.checkin" **account**: "mobi.mobilejump.freevpn"
SecItemDelete		**service_name**: null **account**: "mobi.mobilejump.freevpn"
SecItemDelete		**service_name**: "com.google.iid.checkin" **account**: "mobi.mobilejump.freevpn"
SecItemDelete		**service_name**: null **account**: "mobi.mobilejump.freevpn"
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AV Scan Results

⊘ Clean

Sensitive Data Exposure ⬆

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Hard Coded Credentials ⬆

> [Crypto Key]
> 86101100
>
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> **Operation:** Decrypt
> **Data In:**
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nbdFVbG0GayBXN57wgBh2KR8UO+EqL36AT2wGJT7cPvyEYTjsOQ5gd/jHFubuisr9oSFgw9Jcag1
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AlLmv1EVSmjQCRB9sRvnB9lU94X1CYIdbKafj3GKCp8qU76ZCnM/ig==

App Transport Security ↑

⊗ NSAppTransportSecurity Disabled

```
<?xml version="1.0" encoding="UTF-8"?>
<plist version="1.0">
 <dict>
   <key>NSAllowsArbitraryLoads</key>
   <true/>
 </dict>
</plist>
```

Network Traffic

GET http://captive.apple.com/hotspot-detect.html

17.253.21.202   Cipher: None   TLS Version: None

GET https://settings.crashlytics.com/spi/v2/platforms/ios/apps/mobi.mobilejump.freevpn/settings?build_version=190217&...

54.235.142.122   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.243.84.221   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://device-provisioning.googleapis.com/checkin

172.217.15.106   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://graph.facebook.com/v2.10

157.240.18.15   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET http://ipinfo.io/json

216.239.38.21   Cipher: None   TLS Version: None

GET https://raw.githubusercontent.com/supermobiteam2/Tizi/master/Images/tizi3.png

151.101.248.133   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://graph.facebook.com/v2.10/828149437372042/activities?advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BAB...

157.240.18.15   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET http://www.mobilejump.mobi/tizi_ads/freetizi1.json

104.27.157.116   Cipher: None   TLS Version: None

POST https://e.crashlytics.com/spi/v2/events

54.243.84.221   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://graph.facebook.com/v2.10/828149437372042/activities?advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BAB...

157.240.18.15   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://graph.facebook.com/v2.10/828149437372042/activities?advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BAB...

157.240.18.15   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://iid.googleapis.com/iid/register

172.217.15.106   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/sdk/native/sdk-core-v40.html

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/sdk-core-v40-loader.js

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/sdk-core-v40-impl.js?n=true&lv=sdk_2019…

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/sdk-core-v40-loader.appcache

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/clearcutlog.js

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/gma?native_version=3&request_id=4&u_sso=p&ios_base_sdk=12.1&os_versi…

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/gma?native_version=3&request_id=3&u_sso=p&ios_base_sdk=12.1&os_versi…

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/gma?native_version=3&request_id=2&u_sso=p&ios_base_sdk=12.1&os_versi…

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/native_ads.html

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/native_ads.html

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://googleads.g.doubleclick.net/mads/static/mad/sdk/native/production/native_ads.html

172.217.15.66   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://tpc.googlesyndication.com/pagead/images/adchoices/iconx2.png

172.217.8.1   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://lh3.googleusercontent.com/myMlR8tJx_xW8o2-wNY5XT637QWtvYfKtlWn4-oyv0_mmiDMkGCQZHCWBaZmJ9f1Pu…

172.217.7.225   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://lh6.googleusercontent.com/proxy/nj5QQyeaaeMl0KGhi5iFZNQYhOw2Y2mwLuXWR52ww5HwO9IZG7DAFWB3H0…

172.217.7.225   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://tpc.googlesyndication.com/pagead/images/adchoices/iconx2.png

172.217.8.1   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

GET https://tpc.googlesyndication.com/pagead/images/adchoices/iconx2.png

172.217.8.1 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

GET https://lh3.googleusercontent.com/myMlR8tJx_xW8o2-wNY5XT637QWtvYfKtlWn4-oyv0_mmiDMkGCQZHCWBaZmJ9f1Pu...

172.217.7.225 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

GET https://lh6.googleusercontent.com/proxy/nj5QQyeaaeMI0KGhi5iFZNQYhOw2Y2mwLuXWR52ww5HwO9lZG7DAFWB3H0...

172.217.7.225 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

GET https://lh6.googleusercontent.com/proxy/nj5QQyeaaeMI0KGhi5iFZNQYhOw2Y2mwLuXWR52ww5HwO9lZG7DAFWB3H0...

172.217.7.225 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

GET https://lh3.googleusercontent.com/myMlR8tJx_xW8o2-wNY5XT637QWtvYfKtlWn4-oyv0_mmiDMkGCQZHCWBaZmJ9f1Pu...

172.217.7.225 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://graph.facebook.com/v2.10/828149437372042/activities?advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BAB...

157.240.18.15 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST http://ios.mobilejump.mobi/tizi3.php

104.27.156.116 | Cipher: None | TLS Version: None

GET https://app-measurement.com/config/app/1:216926094137:ios:84754a1a11301e00?platform=ios&app_instance_id=51...

172.217.164.142 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118 | Cipher: ECDHE-RSA-AES128-GCM-SHA256 | TLS Version: TLSv1.2

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203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

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203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

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203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

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54.225.132.118   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.132.118   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.132.118   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.132.118   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.132.118   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

`POST` https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: `ECDHE-RSA-AES128-GCM-SHA256`   TLS Version: `TLSv1.2`

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: `ECDHE-RSA-AES128-GCM-SHA256`   TLS Version: `TLSv1.2`

`POST` https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: `ECDHE-RSA-AES128-GCM-SHA256`   TLS Version: `TLSv1.2`

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: `ECDHE-RSA-AES128-GCM-SHA256`   TLS Version: `TLSv1.2`

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`POST` https://alogs.umeng.com/app_logs

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`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: `ECDHE-RSA-AES128-GCM-SHA256`   TLS Version: `TLSv1.2`

`POST` https://e.crashlytics.com/spi/v2/events

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`POST` https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: `ECDHE-RSA-AES128-GCM-SHA256`   TLS Version: `TLSv1.2`

`POST` https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: `ECDHE-RSA-AES128-GCM-SHA256`   TLS Version: `TLSv1.2`

`POST` https://e.crashlytics.com/spi/v2/events

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`POST` https://alogs.umeng.com/app_logs

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`POST` https://e.crashlytics.com/spi/v2/events

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POST https://alogs.umeng.com/app_logs

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54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

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54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

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54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://alogs.umeng.com/app_logs

203.119.214.125   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://e.crashlytics.com/spi/v2/events

54.225.188.166   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://graph.facebook.com/v2.10/828149437372042/activities?advertiser_id=C39F3837-76E9-493F-88CD-BFAEAD2BAB...

157.240.18.15   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://play.googleapis.com/log

172.217.15.106   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://app-measurement.com/a

172.217.164.142   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://app-measurement.com/a

172.217.164.142   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://app-measurement.com/a

172.217.164.142   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

POST https://app-measurement.com/a

172.217.164.142   Cipher: ECDHE-RSA-AES128-GCM-SHA256   TLS Version: TLSv1.2

File Access ⬆

`Read Only` /private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/StoreKit/receipt

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/.umeng/exchangeIdentity.json

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/8B7CDE5D-EA89-4C6A-B986-DA118C06EFFD.gz

`Read/Write` /private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302155825_envelope.log

`Read Only` /var/mobile/Library/Caches/com.apple.UIStatusBar/15B93/images/9134919566346346917759662699501981172O

`Read/Write` /private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn 2)/FIREBASE_UNIQUE_INSTALL

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/ABDDAEC9-9077-4FE2-89E0-23A098127ED2.log

`Read/Write` /private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302214655_envelope.log

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/.umeng/1551302155825_envelope.log

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/B83E5530-236A-4154-B191-B964363CE2B3.gz

`Read Only` /var/mobile/Library/Caches/com.apple.UIStatusBar/15B93/images/172013073450246127116296680646889052225

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/A4F1A1E2-5B6A-4D00-9D3C-5536F2773D68.log

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/ABD36ABC-FD20-46C3-90FA-426BE50BC959.multipartmime

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/79D8FF71-E384-42D7-A7BF-816121A56B0A.gz

`Read/Write` /private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/1551302140397_envelope.log

`Read Only` /var/mobile/Library/Caches/com.apple.UIStatusBar/15B93/images/172013073450246116831383303455876515799 3

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/ABDDAEC9-9077-4FE2-89E0-23A098127ED2.gz

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/.umeng/1551301646616_envelope.log

`Read Only` /var/mobile/Library/Caches/com.apple.UIStatusBar/15B93/images/913491956634634691716465408848729875 57

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/ADB22080-51CE-42BD-BB6E-AA33F376CA31.gz

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/81EEF1A4-E57E-48F7-AEC9-FE5B7B77E8CC.multipartmime

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/01BAAADC-5036-4DC0-9EA4-3FA149DCFCC9.log

`Read Only` /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/19F2F96F-9150-42E5-B8B6-4FC2B2FE13E4.gz

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/30C6A554-9332-4607-974E-62E4ABB37FD8.log

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/29B46892-9169-4739-B8BA-BB6E40DA6346.multipartmime

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/com-facebook-sdk-PersistedAnonymousID.json

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/.umeng/1551302253548_envelope.log

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/9ABCAF26-45DC-4D32-87E3-EBD2B0C942A7.log

Read Only /var/mobile/Library/Caches/com.apple.UIStatusBar/15B93/images/9134919566346346917932610954746101078

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/.umeng/1551302225011_envelope.log

Read Only /private/var/mobile/Library/Preferences/com.nablac0d3.SSLKillSwitchSettings.plist

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/FB5EC25E-0CEF-4C51-BC5A-082BAF5DDCF3.log

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Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/97DCAA53-A525-4F38-8870-072E28D55559.log

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Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/28E88743-3A83-4BB7-B0DF-FA553A977BC6.multipartmime

Read Only /private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/mobi.mobilejump.freevpn/fsCachedData/F7990030-86EA-45CE-8663-257A572231B7

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/F973976E-72E0-4555-8CA8-A32E8AAEE49D.gz

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Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/B3C679C3-F411-482A-9004-4D51E44D2D5D.multipartmime

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/F31864F0-9AC9-4A15-8190-DB1EDE0DE3CA.multipartmime

Read Only /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/BB165B41-3DE4-413B-AD58-27A27208C9D7.gz

Read Only	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/41BEA144-6607-4707-A386-C5D08BA9569B.gz
Read Only	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/E593707E-0A9B-4604-9B3D-89B37C1715D0.log
Read/Write	/private/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/tmp/(A Document Being Saved By vpn)/255574bbdbbe08c.gcache
Read Only	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/CB84B68A-5E08-4283-9CD5-5E2243188269.multipartmime
Read Only	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/79BF280B-EC85-416D-913E-40DB5440B55D.multipartmime
Read Only	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/35E67ABC-D5F2-4F90-B782-472692F9E5A5.multipartmime
Read Only	/var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/6B3D66D6-8E9C-44C9-AFB3-7E0B84CB4493.gz
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| Read Only | /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Application Support/com.crashlytics/CLSUserDefaults.plist |

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| Read Only | /var/mobile/Containers/Data/Application/9DE96728-2F9C-4FD2-82DB-A05FECD3C0C5/Library/Caches/com.crashlytics.data/mobi.mobilejump.freevpn/analytics/v2/events/F21E4CC5-F5C2-4C5C-A55E-9D12A9291BF4.gz |

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Appendix

Standard	Description	Details
Threat Score	The threat score is based on the types of issues that were found during analysis.	The threat score is a combination of the number of issues found and their risk level. If you have customized your threat score profile, those changes will be reflected in the threat score. Low Risk: below 35 Medium Risk: Between 35 and 75 High Risk: Above 75
OWASP	Represents a broad consensus about the most critical security risks to applications	We analyze the app and provide score based on Top 10 OWASP Mobile Risks
NIAP	A U.S. Government initiative established to promote the use of evaluated information systems products and champion the development and use of national and international standards for information technology security	We analyzed the app and provide score based on NIAP Protection Profile for Application Software
GDPR	A regulation in EU law on data protection and privacy in the European Union (EU) and the European Economic Area (EEA)	We analyzed the app and provide score based on GDPR Articles