



ANDROID STATIC ANALYSIS REPORT



Small Apps Manager (3.4.A.0.0)

File Name:	s/com.sony.smallapp.managerservice_3.4.A.0.0-6815744_minAPI24(nodpi)_apkmirror.com.apk
Package Name:	com.sony.smallapp.managerservice
Average CVSS Score:	5.7
App Security Score:	75/100 (LOW RISK)
Trackers Detection:	1/320



FILE INFORMATION

File Name: s/com.sony.smallapp.managerservice_3.4.A.0.0-6815744_minAPI24(nodpi)_apkmirror.com.apk
Size: 0.29MB
MD5: dd286fe7ddac3040e9f7e2b965ebe7e2
SHA1: 1474a6bb34d57040736c6be0a336d6ae550e3cd7
SHA256: fa7bc4623c870511ae6cf3dbce4be51ecd33a9a4b74e6e35c9626c48cc869422



APP INFORMATION

App Name: Small Apps Manager
Package Name: com.sony.smallapp.managerservice
Main Activity:
Target SDK: 24
Min SDK: 24
Max SDK:
Android Version Name: 3.4.A.0.0
Android Version Code: 6815744



APP COMPONENTS

Activities: 0
Services: 3
Receivers: 0
Providers: 0
Exported Activities: 0
Exported Services: 1
Exported Receivers: 0
Exported Providers: 0



CERTIFICATE INFORMATION

APK is signed
v1 signature: True
v2 signature: True
v3 signature: False
Found 1 unique certificates
Subject: C=SE, O=Sony Ericsson Mobile Communications AB, CN=Sony_Ericsson_E_Platform_Signing_Live_864f
Signature Algorithm: rsassa_pkcs1v15
Valid From: 2000-01-01 14:10:18+00:00
Valid To: 2035-01-01 14:10:18+00:00
Issuer: C=SE, O=Sony Ericsson Mobile Communications AB, CN=Sony_Ericsson_E_CA_Live_864f
Serial Number: 0x3
Hash Algorithm: sha1
md5: 9e5b0111e0408bb405c819ea0784b69d
sha1: 80d0156e14efa9b2be949acc1791720cc58cb6e3
sha256: 6339375ac295cb0cd22811b97accd40104bd4a0185d4dd2289b81860c15d623c
sha512:

0b465d828ecf42f1a6cec997fb953dad6b6fdb36193942d4a3297053ed42a4e27fa3d1128963a5083a3ac34312991a4d9e8772a02253d9ba4d46b3b28d750df6

PublicKey Algorithm: rsa
Bit Size: 2048
Fingerprint: 78e421a9a208b628c5e7383023f140a3c74417dde0a6b06eb249af4f01af7d24

Certificate Status: Bad
Description: The app is signed with SHA1withRSA. SHA1 hash algorithm is known to have collision issues.

≡ APPLICATION PERMISSIONS

PERMISSION	STATUS	INFO	DESCRIPTION
com.sony.smallapp.permission.POLICY_CONTROL	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.sony.smallapp.permission.SMALLAPPMANAGER_CONTROL	dangerous	Unknown permission from android reference	Unknown permission from android reference
com.sony.smallapp.permission.CONTROL_SMALLAPP	dangerous	Unknown permission from android reference	Unknown permission from android reference
android.permission.ACCESS_NETWORK_STATE	normal	view network status	Allows an application to view the status of all networks.
android.permission.INTERNET	dangerous	full Internet access	Allows an application to create network sockets.
android.permission.VIBRATE	normal	control vibrator	Allows the application to control the vibrator.
android.permission.EXPAND_STATUS_BAR	normal	expand/collapse status bar	Allows application to expand or collapse the status bar.
com.sony.smallapp.permission.SMALLAPP	dangerous	Unknown permission from android reference	Unknown permission from android reference

🌀 APKID ANALYSIS

FILE	DETAILS	
classes.dex	FINDINGS	DETAILS
	Compiler	dx (possible dexmerge)
	Manipulator Found	dexmerge

🔍 MANIFEST ANALYSIS

ISSUE	SEVERITY	DESCRIPTION
Service (com.sony.smallapp.managerservice.SmallAppManagerService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.sony.smallapp.permission.SMALLAPPMANAGER_CONTROL protectionLevel: signatureOrSystem [android:exported=true]	info	A Service is found to be exported, but is protected by a permission. However, the protection level of the permission is set to signatureOrSystem. It is recommended that signature level is used instead. Signature level should suffice for most purposes, and does not depend on where the applications are installed on the device.
Service (com.sony.smallapp.managerservice.SmallAppManagerInterfaceService) is not Protected. [android:exported=true]	high	A Service is found to be shared with other apps on the device therefore leaving it accessible to any other application on the device.
Service (com.sony.smallapp.managerservice.PolicyManagerService) is Protected by a permission, but the protection level of the permission should be checked. Permission: com.sony.smallapp.permission.POLICY_CONTROL protectionLevel: signatureOrSystem [android:exported=true]	info	A Service is found to be exported, but is protected by a permission. However, the protection level of the permission is set to signatureOrSystem. It is recommended that signature level is used instead. Signature level should suffice for most purposes, and does not depend on where the applications are installed on the device.

</> CODE ANALYSIS

ISSUE	SEVERITY	STANDARDS	FILES
This App uses Java Hash Code. It's a weak hash function and should never be used in Secure Crypto Implementation.	warning	CVSS V2: 2.3 (low) CWE: CWE-327 - Use of a Broken or Risky Cryptographic Algorithm OWASP MASVS: MSTG-CRYPTO-4	com/sony/smallapp/managerservice/SmallAppManagerService.java
The App logs information. Sensitive information should never be logged.	info	CVSS V2: 7.5 (high) CWE: CWE-532 - Insertion of Sensitive Information into Log File OWASP MASVS: MSTG-STORAGE-3	com/sony/smallapp/managerservice/Utils.java com/sonymobile/gahelper/GaHelperExceptionParser.java com/sonymobile/gahelper/GaHelperSubscriber.java com/sonymobile/gahelper/GaHelperLog.java com/sonymobile/gahelper/GaHelper.java
Files may contain hardcoded sensitive informations like usernames, passwords, keys etc.	high	CVSS V2: 7.4 (high) CWE: CWE-312 - Cleartext Storage of Sensitive Information OWASP Top 10: M9: Reverse Engineering OWASP MASVS: MSTG-STORAGE-14	com/sony/smallapp/managerservice/ConfirmLaunchController.java

TRACKERS

TRACKER	URL
Google Analytics	https://reports.exodus-privacy.eu.org/trackers/48

App Security Score Calculation

Every app is given an ideal score of 100 to begin with.

For every findings with severity **high** we reduce 15 from the score.

For every findings with severity **warning** we reduce 10 from the score.

For every findings with severity **good** we add 5 to the score.

If the calculated score is greater than 100, then the app security score is considered as 100.

And if the calculated score is less than 0, then the app security score is considered as 10.

Risk Calculation

APP SECURITY SCORE	RISK
0 - 15	CRITICAL
16 - 40	HIGH
41 - 70	MEDIUM
71 - 100	LOW

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Mobile Security Framework (MobSF) is an automated, all-in-one mobile application (Android/iOS/Windows) pen-testing, malware analysis and security assessment framework capable of performing static and dynamic analysis.

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