

Replicant - Issue #1395

Nexus Security Bulletin from September

10/18/2015 07:10 PM - Wolfgang Wiedmeyer

Status:	Closed	Start date:	10/18/2015
Priority:	High	Due date:	
Assignee:	Paul Kocalkowski	% Done:	90%
Category:	Security	Estimated time:	0.00 hour
Target version:	Replicant 4.2	Spent time:	0.00 hour
Resolution:	wontfix	Grant:	
Device:			

Description

Same procedure as in [#1389](#). This time the bulletin from September:

https://groups.google.com/forum/?_escaped_fragment_=msg/android-security-updates/1M7qbSvACjo/Y7jewiW1AwAJ#lmsg/android-security-updates/1M7qbSvACjo/Y7jewiW1AwAJ

CVE-2015-3636: Elevation of Privilege Vulnerability in Kernel

<https://github.com/torvalds/linux/commit/a134f083e79f>

Elevation of Privilege Vulnerability in Binder

CVE-2015-3845

<https://android.googlesource.com/platform/frameworks/native/+e68cbc3e9e66df4231e70efa3e9c41abc12aea20%5E/>

CVE-2015-1528

<https://android.googlesource.com/platform/frameworks/native/+7dcd0ec9c91688cfa3f679804ba6e132f9811254%5E/>

https://github.com/CyanogenMod/android_system_core/commit/d869e89766d80256117c528bbcc0854acbc068f1

CVE-2015-3863: Elevation of Privilege Vulnerability in Keystore

<https://android.googlesource.com/platform/system/security/+bb9f4392c2f1b11be3acdc1737828274ff1ec55b%5E/>

merge conflict resolved

CVE-2015-3849: Elevation of Privilege Vulnerability in Region

<https://android.googlesource.com/platform/frameworks/base/+4cff1f49ff95d990d6c2614da5d5a23d02145885%5E/>

merge conflict: Problem is that readFromMemory() is not available in Replicant's Skia, so I kept the unflatten function in there.

<https://android.googlesource.com/platform/frameworks/base/+1e72dc7a3074cd0b44d89afb39bbf5000ef7cc3%5E/>

merge conflict: Same as above, working around missing readFromMemory()

CVE-2015-3858: Elevation of Privilege vulnerability in SMS enables notification bypass.

It seems that Replicant is not affected by this. android.permission.SEND_SMS_NO_CONFIRMATION was renamed to android.permission.SEND_RESPOND_VIA_MESSAGE in API level 18 so we should be safe.

CVE-2015-3861: Denial of Service Vulnerability in Mediaserver

<https://android.googlesource.com/platform/frameworks/av/+304ef91624e12661e7e35c2c0c235da84a73e9c0%5E/>

merge conflict resolved

History

#1 - 11/18/2015 08:59 PM - My Self

- File *sec-bulletin-september-patches-reviewed.zip* added

- Status changed from *New* to *In Progress*

- % Done changed from *0* to *90*

Thanks a lot for providing that patchset!

I've merged them all to my local repo and successfully compiled/reflashed/tested Replicant 4.2 on my i9100.

I've attached your patchset again, with the suffix *-reviewed*. I've modified the header of your patches inside of this attachment a bit. I added a Signed-off-by: {'From:' contact of the originally patch header}, followed by your Signed-off-by/Tested-by line, finalized with my Tested-by line. Hope that's ok?

Additionally I added one left patch (0009-Externally-reported-Moderate-severity-vulnerability.patch) in that reuploaded patchset.

I've looked through the September patches, provided by Google (<https://groups.google.com/forum/#!topic/android-security-updates/1M7qbSvACjo>) a bit and completed the overview as follows:

CVE-2015-3864: Remote Code Execution Vulnerability in Mediaserver

ANDROID-23034759: <https://android.googlesource.com/platform/frameworks/av/+6fe85f7e15203e48df2cc3e8e1c4bc6ad49dc968>

Affected versions: 5.1 and below

Result: already included in the stagefright patchset: <http://redmine.replicant.us/issues/1287>

CVE-2015-3636: Elevation of Privilege Vulnerability in Kernel

ANDROID-20770158: <https://github.com/torvalds/linux/commit/a134f083e79f>

Affected versions: 5.1 and below

Result: Included in Wolfgang Wiedmeyer's patchset -> 0001-ipv4-Missing-sk_nulls_node_init-in-ping_unhash.patch

CVE-2015-3845: Elevation of Privilege Vulnerability in Binder

ANDROID-17312693: <https://android.googlesource.com/platform/frameworks/native/+e68cbc3e9e66df4231e70efa3e9c41abc12aea20>

Affected versions: 5.1 and below

Result: Included in Wolfgang Wiedmeyer's patchset -> 0002-Disregard-alleged-binder-entities-beyond-parcel-boun.patch

CVE-2015-1528: Elevation of Privilege Vulnerability in Binder

ANDROID-19334482:

<https://android.googlesource.com/platform/frameworks/native/+7dcd0ec9c91688cfa3f679804ba6e132f9811254>

Result: Included in Wolfgang Wiedmeyer's patchset -> 0003-Verify-that-the-native-handle-was-created.patch

<https://android.googlesource.com/platform/system/core/+e8c62fb484151f76ab88b1d5130f38de24ac8c14>

Result: Included in Wolfgang Wiedmeyer's patchset -> 0004-Prevent-integer-overflow-when-allocating-native_hand.patch

Affected versions: 5.1 and below

CVE-2015-3863: Elevation of Privilege Vulnerability in Keystore

ANDROID-22802399: <https://android.googlesource.com/platform/system/security/+bb9f4392c2f1b11be3acdc1737828274ff1ec55b>

Affected versions: 5.1 and below

Result: Included in Wolfgang Wiedmeyer's patchset -> 0005-Fix-unchecked-length-in-Blob-creation.patch

CVE-2015-3849: Elevation of Privilege Vulnerability in Region

ANDROID-20883006:

<https://android.googlesource.com/platform/frameworks/base/+4cff1f49ff95d990d6c2614da5d5a23d02145885>

Result: Included in Wolfgang Wiedmeyer's patchset -> 0006-Check-that-the-parcel-contained-the-expected-amount.patch

<https://android.googlesource.com/platform/frameworks/base/+1e72dc7a3074cd0b44d89afb39bbf5000ef7cc3>

Result: Included in Wolfgang Wiedmeyer's patchset -> 0007-DO-NOT-MERGE-Ensure-that-unparcelling-Region-only-re.patch

Affected versions: 5.1 and below

CVE-2015-3858: Elevation of Privilege vulnerability in SMS enables notification bypass.

ANDROID-22314646: <https://android.googlesource.com/platform/frameworks/opt/telephony/+df31d37d285dde9911b699837c351aed2320b586>

Affected versions: 5.1 and below

Result: the patch wasn't found in the patchset, so I added it as: **0009-Externally-reported-Moderate-severity-vulnerability.patch**

CVE-2015-3860: Elevation of Privilege Vulnerability in Lockscreen

ANDROID-22214934: <https://android.googlesource.com/platform/frameworks/base/+8fba7e6931245a17215e0e740e78b45f6b66d590>

Affected versions: 5.1 and 5.0

Result: codebase checked, not needed on Replicant 4.2.

CVE-2015-3861: Denial of Service Vulnerability in Mediaserver

ANDROID-21296336: <https://android.googlesource.com/platform/frameworks/av/+304ef91624e12661e7e35c2c0c235da84a73e9c0>

Affected versions: 5.1 and below

Result: Included in Wolfgang Wiedmeyer's patchset -> 0008-Guard-against-codecinfo-overflow.patch

#2 - 12/10/2015 12:09 AM - Wolfgang Wiedmeyer

Additionally I added one left patch (0009-Externally-reported-Moderate-severity-vulnerability.patch) in that reuploaded patchset.

CVE-2015-3858: Elevation of Privilege vulnerability in SMS enables notification bypass.

ANDROID-22314646: <https://android.googlesource.com/platform/frameworks/opt/telephony/+/-/df31d37d285dde9911b699837c351aed2320b586>

Affected versions: 5.1 and below

Result: the patch wasn't found in the patchset, so I **added** it as: **0009-Externally-reported-Moderate-severity-vulnerability.patch**

Including that patch is imho not a good idea. I already wrote:

It seems that Replicant is not affected by this. android.permission.SEND_SMS_NO_CONFIRMATION was renamed to >android.permission.SEND_RESPOND_VIA_MESSAGE in API level 18 so we should be safe.

So if this patch is included in the current Replicant 4.2 code, it checks for a permission string that does not exist. This would actually introduce the vulnerability in Replicant.

Please correct me if I'm wrong!

#3 - 12/11/2015 02:52 PM - Denis 'GNUtoo' Carikli

- Device Not device specific added

#4 - 05/30/2016 12:14 PM - My Self

- Device added

- Device deleted (Not device specific)

Wolfgang Wiedmeyer wrote:

Additionally I added one left patch (0009-Externally-reported-Moderate-severity-vulnerability.patch) in that reuploaded patchset.

CVE-2015-3858: Elevation of Privilege vulnerability in SMS enables notification bypass.

ANDROID-22314646:

<https://android.googlesource.com/platform/frameworks/opt/telephony/+/-/df31d37d285dde9911b699837c351aed2320b586>

Affected versions: 5.1 and below

Result: the patch wasn't found in the patchset, so I **added** it as: **0009-Externally-reported-Moderate-severity-vulnerability.patch**

Including that patch is imho not a good idea. I already wrote:

It seems that Replicant is not affected by this. android.permission.SEND_SMS_NO_CONFIRMATION was renamed to >android.permission.SEND_RESPOND_VIA_MESSAGE in API level 18 so we should be safe.

So if this patch is included in the current Replicant 4.2 code, it checks for a permission string that does not exist. This would actually introduce the vulnerability in Replicant.

Please correct me if I'm wrong!

Sorry, my bad. You're absolutely right.

#5 - 04/22/2017 06:21 PM - Wolfgang Wiedmeyer

- Target version set to Replicant 4.2

#6 - 08/16/2019 08:59 PM - Kurtis Hanna

- Status changed from In Progress to Closed

- Resolution set to wontfix

This issue has been closed because Replicant 4.2 is no longer supported or maintained.

Files

sec-bulletin-september-patches.zip	6.67 KB	10/18/2015	Wolfgang Wiedmeyer
------------------------------------	---------	------------	--------------------

