Vulnerability in Youni SMS for Android

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Abstract

We found that Youni SMS 2.1.0c and 2.1.0d have a vulnerability that allows a crafted application to read and modify user's sensitive information without permission, including user's messages in Youni SMS, user's attachments in Youni SMS, user's blacklists and preference.

1 Application Information

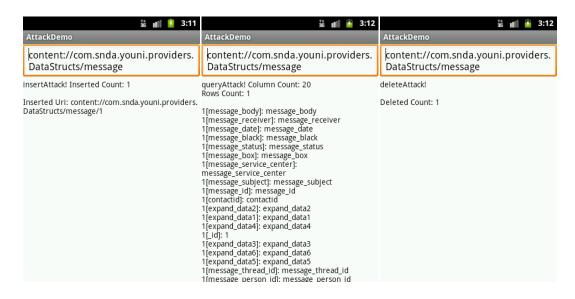
Please see the following link in our AppSec website: http://www4.comp.polyu.edu.hk/~appsec/bugs/CVE-2012-1474-vulnerability-in-YouniSMS.html

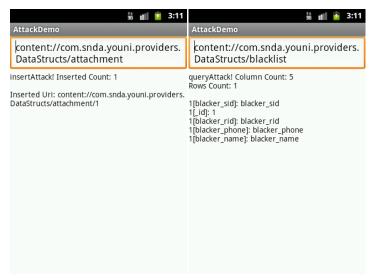
2 Description

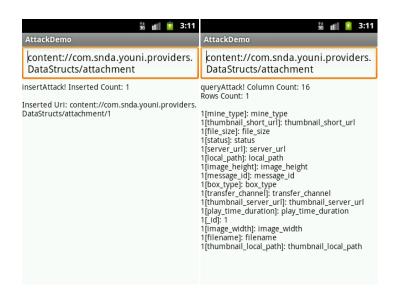
Please see the exposed content providers in the AndroidManifest.xml file, which are not properly protected, as shown in follows:

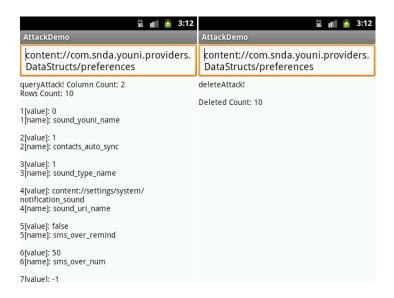
3 Impact

Please see the following snapshots generated by our arrack demo:









4 Solution

Our advice is to set the permission of these application's content providers properly, or avoid exporting these content providers in the AndroidManifest.xml file. Currently, a user could disable the application temporarily and wait for an official update.

5 Technical Description

Please see the following exposed content providers and tables:

Content Provider Authority	Table Name
com.snda.youni.providers.DataStructs	attachment
com.snda.youni.providers.DataStructs	blacklist
com.snda.youni.providers.DataStructs	preferences
com.snda.youni.providers.DataStructs	message