

MX Player Android App Directory Traversal

High

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Synopsis

CVE-2020-5764 - Directory Traversal (RCE)

The MX Transfer protocol is vulnerable to directory traversal in versions below v1.24.5. If a victim enables MX Share as a receiver, an attacker can abuse the sharing protocol by sending a MessageType of "FLIE_LICST" with a "name" field containing directory traversal characters (...). This will result in the file being transferred to the victim's phone, but being saved outside of the intended "/sdcard/MXshare" directory. In our testing, we found we could achieve remote code execution on some Android phones if the attacker sends a ".J..J..J../data/data/com.mxtech.videoplayer.ad/files/oat/arm64/audience_network.odex" file with appropriate payloads in order to gain code execution upon next time the app is started by the victim.

Solution

Update to version MX Player v1.24.5 or higher

Proof of Concept

https://github.com/tenable/poc/blob/master/MXPlayer/

Disclosure Timeline

4/9/2020 - Tenable reaches out to support@mxplayer.in, to ask for security contact.

4/10/2020 - MX Player Support asks for disclosure.

4/12/2020 - Tenable discloses vulnerabilities to MX Player Support.

 $4/13/2020-MX\ Player\ Support\ acknowledges\ disclosure\ report\ and\ says\ development\ and\ security\ teams\ are\ working\ on\ a\ fix.$

4/27/2020 - Tenable follows up, asking for expected release date for fix.

5/15/2020 - Tenable follows up asking for update.

6/22/2020 - Tenable asks for update, reminds disclosure date is coming soon.

7/6/2020 - Tenable discovers patch in MX Player version fix in v1.24.5

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Tenable takes product security very seriously. If you believe you have found a vulnerability in one of our products, we ask that you please work with us to quickly resolve it in order to protect customers. Tenable believes in responding quickly to such reports, maintaining communication with researchers, and providing a solution in short order.

For more details on submitting vulnerability information, please see our Vulnerability Reporting Guidelines page.

If you have questions or corrections about this advisory, please email advisories@tenable.com

Risk Information

CVE ID: CVE-2020-5764

Tenable Advisory ID: TRA-2020-41

Credit: David Wells

CVSSv2 Base / Temporal Score: 7.3
CVSSv2 Vector: AV:A/AC:L/Au:N/C:P/I:P/A:C

Risk Factor: High

Advisory Timeline

07-07-2020 - Initial Release

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