Tech Lab

[Tips & Guides] [MIUI with Tom #8] FIX battery Drain in MIUI - after OTA or after reset to factory settings!

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Hello MIUI Fans!
Probably each of you was faced with high battery consumption in the first 3-4 days after updating or flashing the device, the system tries to do the first in the list of consumption and has 30-40% of use! This guide will help to remove this problem.
It should be after flashing or installing updates on older versions of Android starting from 9 and below...
You have encountered such a system dialog as **"Optimizing app so from so"**

In Android 7.0, did they hide this from the user's eyes or delete it? Does this mean that the optimization has been removed? No, this is not such. This option was not lost, but simply postponed, and the postponement of this task causes the battery to run out. Do you think that optimization is happening in the background? The answer is: not correct. **It only starts under special conditions. Lack of this optimization will drain the battery.** Optimization is not performed because we do not know how to fulfill the conditions necessary for its launch. The consequence of this is the accelerated discharge of the phone.

You can often watch how the Android system consumes energy more than other applications. This is the result of not allowing the system to optimize.
If in Android 6 and earlier optimization was forced, then starting with Android 7 and higher. A new option was added to stop this step and optimize applications on the fly **LIFT. Just-in-Time** while using applications.
At the same time, the initial optimization has not been deleted and only starts if the following conditions are met:
- the phone is connected to the charger,
- fully charged,
- turned on (the phone but not the screen),
- is not used,
- inactive (like after at least 30 minutes)

If these conditions are met, optimization begins.

Why do we need this optimization?

Because application developers cannot do this for each set of hardware and each device is already. It complies applications into the most efficient code for its processor. So just use your device and let it take care of the cache itself or help your device make full optimization with simpl command.
Quick tuto

> People who dirty flash a lot. You might randomly experience longer app launch times after flashing a ROM and the only apparent way to fix it was to do a clean flash. I experienced this a few times and decided to investigate and saw that it had something to do with how dexOpt works after you dirty flash (it refuses to optimise properly).
>
> You can manually run dexOpt on everything after it boosted into the system, and after it has finished the process (could take super long depending on how many apps you have), everything went back to its speedy state.
>
> (And it seems improve life drain (big battery usage by system), because we're forcing doing task that only can run if some condition only, but also sometimes can unexpectedly happens while phone was idle, it's causing huge idle drain usage)

Be that as it may, you have the option to force the optimization to run.

For users with root:
open a terminal emulator and execute (along with quotation marks, as this is part of the command)

> su -c "cmd package bg-dexopt job"

or

> su
>
> "cmd package bg-dexopt job"

next

> "cmd package bg-dexopt job"

If you don't have root, use ADB. Connect the phone to the device, make sure it is available (enable USB debugging and USB debugging secure settings). Open CMD ADB platform-tools
platform-tools.zip (2.07 MB) download link **and write command one by one**

> adb devices

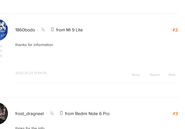
Run the following command

> adb shell cmd package bg-dexopt job

or

> adb shell "cmd package bg-dexopt job"

If you have 10 android you will see Success, if from 7 to 9 a new line for entering the command will simply appear!



The process can take from 20 minutes to 3 hours (on my **Mi 9t this operation take 40 minutes**). **Disconnecting the device during optimization will interrupt the process, but and not harm the device. It is absolutely safe.**
Users without root may find the error message:

> "user 2000 not current process has Android.permission.Update_Device_Stats"

It's not worth worrying, you can ignore it and run the command again.

Thanks to all
Also Many Thanks to Admin!

Video explanation for RUSSIAN user:

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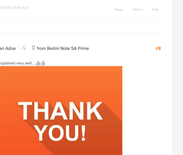

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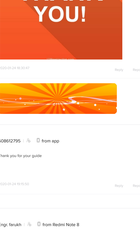

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Next 3
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