## Exhibit 256













Use location?
This app wants to change your device settings:

- Use GPS, Wi-Fi, and cell networks for location

8 Use Gcogles location service, sending anonymous location to Google even when no apps are running

Learn more

NO YES

## Old Version

For best results, let your device tum on location, which uses Google's location service v

CANCEL OK

New Version



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- Location toggle was introduced in QS in KitKat
- Location toggle was removed from QS in Nougat release on Pixel devices
- However, OEMs continue to keep Location Toggle in QS


## OEMs are making Location less prominent in QS

| Device | US | Global |
| :--- | :--- | :--- |
| Samsung S8 | AT\&T, Sprint, T-Mobile: 2nd page | 2nd page |
|  | Verizon: 1st page, 3rd row |  |
| LG G6 | T-Mobile: 2nd page |  |
|  | Verizon, AT\&T, Sprint: 1st page, 3rd row | 2nd page |





## Confusing Settings

While our permission model is hierarchical, our settings menus are not
The location settings are in three places: Android/Location, Android/Apps, Chrome

|  |  | ल |  | 487-2:27 |
| :---: | :---: | :---: | :---: | :---: |
| $\leftarrow$ Location mode Q |  | $\leftarrow$ | App permissions | ; |
| High accuracy |  |  | Chrome |  |
| Use GPS, Wi-Fi, and celluar networks to determine location | - | 6 | Camera | 8 |
| Battery saving <br> Use Wh-Fi and cellular networks to determine location | $\bigcirc$ | $\overline{2}$ | contacts | \% |
|  |  | $\bigcirc$ | Location | - |
| Device only Use GPS to deternine your location | $\bigcirc$ | 4 | Microphone | 3 |
|  |  |  | Storage | - |















$\square$


















