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Inquiry Regarding the Design of NO_RETRY_FAILURE in Data Network Connection

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Thu, Sep 5, 2024 at 11:11 PM

Hi, Hongyi.

Thanks for the valuable opinion.

Yeah, that's true, setting the `NO_RETRY_FAILURE` at the code change is my bad. My colleague Ling noticed that the reason is not suitable for the code change and fixed it.

The NO_RETRY_FAILURE will not be set for the case at the upcoming release.

Thanks.
Sewook.

On Thu, Sep 5, 2024 at 7:17 PM hongyi wang <hywangthu@gmail.com> wrote:

Hello,

I am currently reviewing the Android code for cellular network connection and have some questions regarding the rationale behind the design of `NO_RETRY_FAILURE`.

From my understanding, triggering `NO_RETRY_FAILURE` implies that the data profile will not be used for establishing a cellular network connection again, even if a new network request requires its configuration. This would mean that, unless another APN meets the requirements, the user might be unable to use cellular data anymore (until conditional retry).

It seems to me that only extremely severe failures should be handled this way. I find it difficult to understand why the events triggering `NO_RETRY_FAILURE` in the current `DataNetwork` code are considered such critical errors. For example, in this commit: https://cs.android.com/android/_/android/platform/frameworks/opt/telephony/+13c3e85bea6ced24ab8fd29bb3abd3cd1ea050e6, why is `NO_RETRY_FAILURE` triggered when there is no network request? What if another network request needs this APN/data profile later?

I would greatly appreciate it if you could provide some insights into this design decision.

Thank you for your time and assistance.

Best regards,
Hongyi