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Evolving genpd's `->sync_state()` support

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For DT based platforms `fw_devlink` allows us to track supplier/consumer dependencies, which helps to avoid having drivers returning `-EPROBE_DEFER`, while they probe their devices. Moreover, `fw_devlink` provides the so called `->sync_state()` support, allowing a driver for a supplier device to receive a notification through its `->sync_state()` callback, when all its consumer devices have been probed successfully.

The `->sync_state()` support has recently been added to the generic PM domain (aka `genpd`) and it's available since `v6.17-rc1`. However, several problems have been reported since its introduction, some still remains to be addressed by more general improvements to `fw_devlink`.

In parallel we are also working on adding `->sync_state()` support to other subsystems, such as the common clock framework, for example. Hence it's becoming increasingly important to address these generic problems with `fw_devlink`, to avoid similar issues we now have with `genpd`.

Let's discuss these problems in more detail and try to find solutions for how to fix them.

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