Low Power Indoor Devices
(KDB Publication) 987594 & Misc.

Laboratory Division
Office of Engineering and Technology
Dusmantha Tennakoon
KDB publication 987594 has been published since mid December 2020 (draft version since August 2020). Revision published February 2021.

Several devices including modules have been certified to-date.

Proliferation of these modules are expected in host devices.

PAG guidance updated to allow these host products quicker to market.
Things to keep in mind

- Under PAG
  - If you have a composite device with a 6 GHz equipment class it is limited to indoor use even if other equipment classes allow outdoor use. For example, a triband AP supporting 6 GHz is restricted to indoor use even though other bands allow outdoor use. If the manufacturer wants to use 2.4 GHz & 5 GHz outdoors they need to provide details of how the AP knows it is outdoors and prohibits 6 GHz operation. You cannot leave it to the user.
  - Surveillance cameras fixed outdoors are prohibited from using 6 GHz.
  - Requires integrated antennas. Supersedes 15.203
  - If a device can be used with multiple antennas the highest and lowest antennas need to be listed on the grant.
  - If a host integrator wants to use a lower gain antenna of the same type additional CBP testing needs to be performed while the module is installed in the host.
1. LPR devices can be certified under 15.256. As an alternate they can be certified under general provisions, i.e., 15.205 & 15.209 per 15.31(q).
Questions?

THANK YOU