# **DLL Constants v101**

## Info (not part of baseline)

Three constants are listed in 145.5.3.2:

- PD\_DLLMAX\_VALUE
- PD\_INITIAL\_VALUE
- PSE\_INITIAL\_VALUE

They are however not constants: their value can only be determined after the PSE or PD has completed classification, and, moreover, the value changes when a new classification cycle occurs. I was initially unsure how best to fix this, but a lightweight solution is possible.

A second problem is regarding the use of PD\_DLLMAX\_VALUE. This value is used to limit what the maximum value of PDRequestedPowerValue can be. Currently PD\_DLLMAX\_VALUE is tied to pd\_max\_power, which means a PD can never ask for more power than what it initially got via Physical Layer classification. The desired behavior is that it is restricted to its requested Class. This in turn makes PD\_DLLMAX\_VALUE a true constant.

## 145.5.3.2 Single-signature constants

#### Change the description of PD\_DLLMAX\_VALUE as follows:

This value is derived from pd\_max\_power variable (145.3.3.4) pd\_req\_class (145.3.3.3) described as follows:

PD_DLLMAX_VALUE
<del>130</del>
39
65
130
255
400
600
620
999

# Change the description of PD\_INITIAL\_VALUE as follows:

This The value of this variable is valid after classification and is derived as follows from the pd\_max\_power (145.3.3.4) variable used in the PD state diagrams; defined in Figure 145–26 as follows:

## Change the description of PSE\_INITIAL\_VALUE as follows:

This The value of this variable is valid after classification and is derived from the pd\_allocated\_pwr variable, as defined in 145.2.5.4, which is used in the PSE state diagrams in 145.2.5.7 as follows:

Move the text in 145.5.3.2 (Constants) and the variables (except PD\_DLLMAX\_VALUE) to 145.5.3.3 (Variables).

Also apply fixes in the document to dual-signature as appropriate.