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FROM: Peter Johansson

TO: IEEE P1394a Working Group

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RE: Redefinition of *pwr* in self-ID packet

Subsequent to the adoption of 97-032r3 (whose provisions are reflected in P1394a Draft 1.1), some questions have been raised about the differences between power class four and five.

I suggest that there are no important differences and that we should revise P1394a as shown in the excerpt from Table 7-2 below:

Table 7-2 —Self-ID packet fields (Continued)

Field	Derived from	Comment
pwr	POWER_CLASS	Power consumption and source characteristics:
		000_2 Node does not need power and does not repeat power
		001_2 Node is self-powered and provides a minimum of 15 W to the bus
		010_2 Node is self-powered and provides a minimum of 30 W to the bus
		011_2 Node is self-powered and provides a minimum of 45 W to the bus
		100_2 Node may be powered from the bus and is using up to 3 W <u>No additional power is needed to enable the link.</u>[a]
		101_2 <u>Reserved for future standardization</u> <s>Node is powered from the bus and is using up to 3 W. No additional power is needed to enable the link.</s>[a]
		110_2 Node is powered from the bus and is using up to 3 W. An additional 3 W is needed to enable the link.[a]
		111_2 Node is powered from the bus and is using up to 3 W. An additional 6 W is needed to enable the link.[a]

[a] The link is enabled by the link-on PHY packet described in clause 7.3.2; this packet may also enable application layers.