

# Is There Room for Intrinsically Safe PoE?

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# What is Intrinsically Safe

- Voltage and power limited
  - $<30V$
  - $<4W$
- Industrial usage
  - Petrochemical plants
  - Hazardous materials handling
- Medical
  - Patient contact instrumentation
- This is ***NOT*** definitive

# Request to Consider

- PD subclass for extended L1 and L2 top operate at low voltages
  - IS PDs must accept 57V without harm
  - IS PSEs would provide <30V
  - IS PSE would only power IS PDs
  - IS PDs would operate at <30V but may “error state” at higher voltages

# What next

- Formal request from ISO/IEC subcommittee may make a formal request.