Programmable Communicating Thermostat (PCT) Systems Integration (SI) Interfaces (I/F)

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Reasons for SI I/F Specs

- **One PCT SI I/F for all of CA (US)**
  - Retail purchased at Home Depot, etc.
  - Consumer owned, installed, maintained
- **Common signaling throughout CA (US)**
- **Works with any minimum AMI system**
  - Signals synched with AMI resolution
- **Compatible with legacy technologies**
  - Preserve richness of thermostat options
Why are we here?

- A Straw Man Concept (R&D)
  - Common signaling (broadcast packets)
  - Plug-in HVAC connection (plug & work)
  - Expansion port (evolutionary features)
  - Additional human information (override)

- Title 24 Standards
  - Industry works it out with CEC
Four R&D PCT Interfaces
Proof-of Concept Prototype

- Human-Machine Interface
- HVAC Interface
- Communication Interface
- Expansion Interface
- Thermostat
- I/O Module
- Target System
- System Model
- DR Signal Generator