



NEED FOR INTEROPERABILITY

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WHY DO WE NEED INTEROPERABILITY?

Driven by Consumer Electronics, customers expectations on how products must integrate into systems are growing, especially when dealing with energy management




Interoperability for connected appliances refers to their capability to communicate and interact with a third party Energy Manager in order to enable integration of Demand Response functionalities

This is the definition of Interoperability that was agreed within CECED




CECED Smart Grid Task force has identified three mandatory Use Cases in the area of Demand-Response on which to build interoperability




USE CASE NAME:
Smart start to use lower tariff or green energy

Version of Template: 0.55 - short, Sept 2011



USE CASE NAME:
Load shifting to reduce consumption at peak time

Version of Template: 0.55 - short, Sept 2011



USE CASE NAME:
Emergency signal for critical peak – grid black out risk

Version of Template: 0.55 - short, Sept 2011

- EEBUS and Energy@home are two leading associations in the Smart Home environment
- They announced their cooperation to develop a solution for Smart Appliance interoperability at Utility Week in 2014
- The work has been based on SAREF and aimed at creating a neutral language to enable communication with different protocols for implementation of Demand-Response Use Cases
- This new language is now a reality and is called SPINE (Smart Premises Interoperable Neutral-message Exchange)
- It was initially presented at Utility Week 2016 with a limited set of products
- We are now able to show a working demo that includes several products and several ways to connect to a single Energy Manager