



# 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