

# Smart Home Standardization

## IEC, CLC and Alliances, Fora & Consortia

### Status and overview

19. November 2015

Josef Baumeister

BSH, CECED, CENELEC

Page 1

Josef Baumeister – Smart Home Standardization – Status | Nov. 2015

How to ensure Interoperability if lot's of different consortia are developing new proprietary solutions?

 Slide shows only an excerpt of important alliances



Page 2

Josef Baumeister – Smart Home Standardization – Status | Nov. 2015

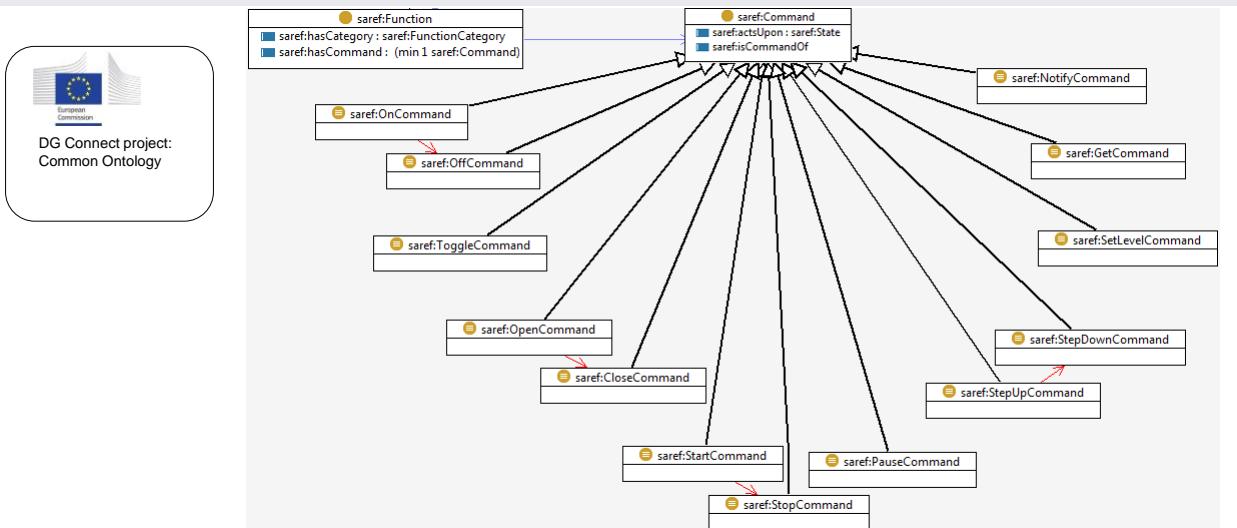
Our Intention - to achieve an overall world-wide connectivity approach!

## First starting point

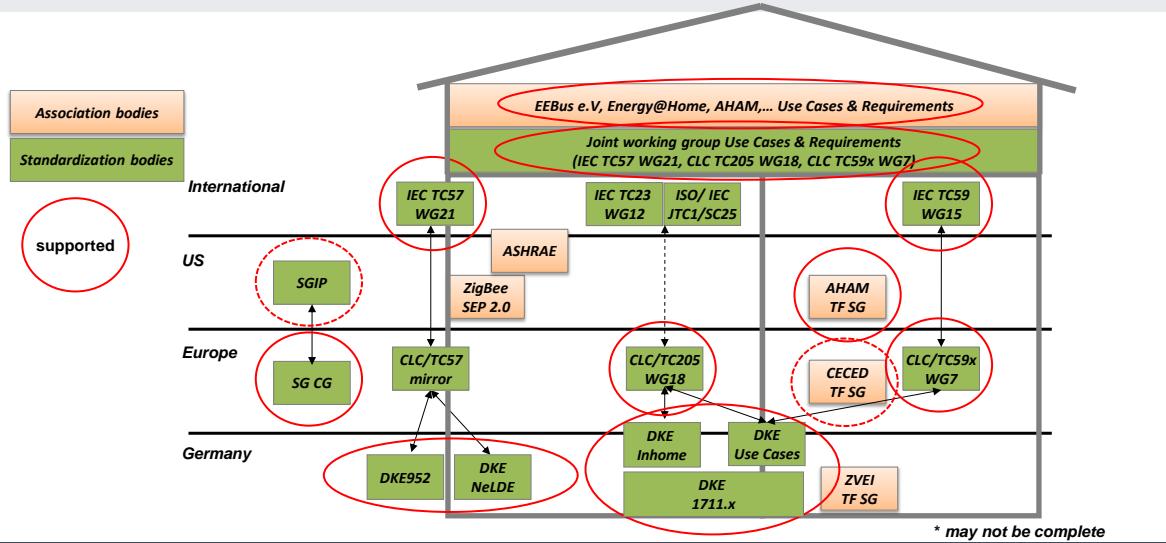
- Alignment of Data Model and Messages
  - Common support of International Standards
  - Project with EEBus & Energy@home started
  - → Energy related messages defined → SAREF
  - Alignment with IEC/CENELEC TC59x (White Goods) running in parallel
  - Alignment with AHAM running in parallel
  - Alignment with HVAC, Electric Vehicles etc. running in parallel



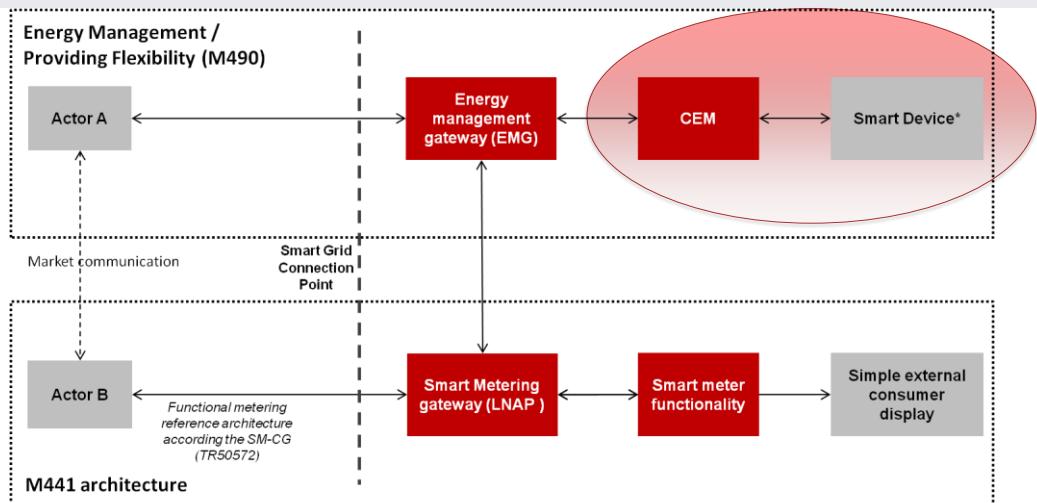
Results a included in SAREF: a DG-Connect driven project, a first step to achieve a common Smart Appliance ontology



.... Common support of Smart Home & Smart Grid standardization  
Excerpt of relevant Standardization bodies

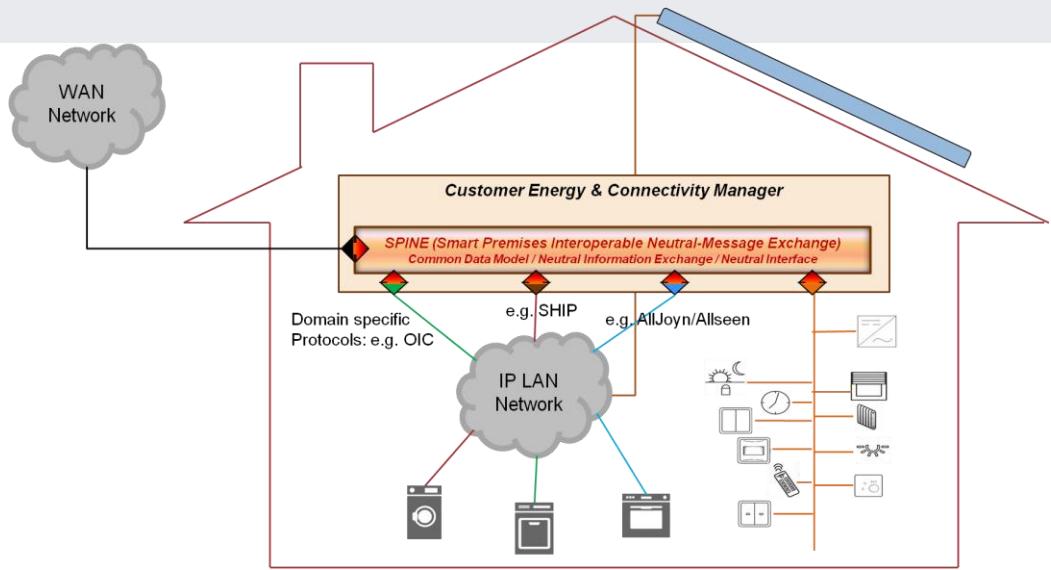


We base our work on the Common Architecture Model, developed by the Smart Grid Coordination Group (European Mandate M490)

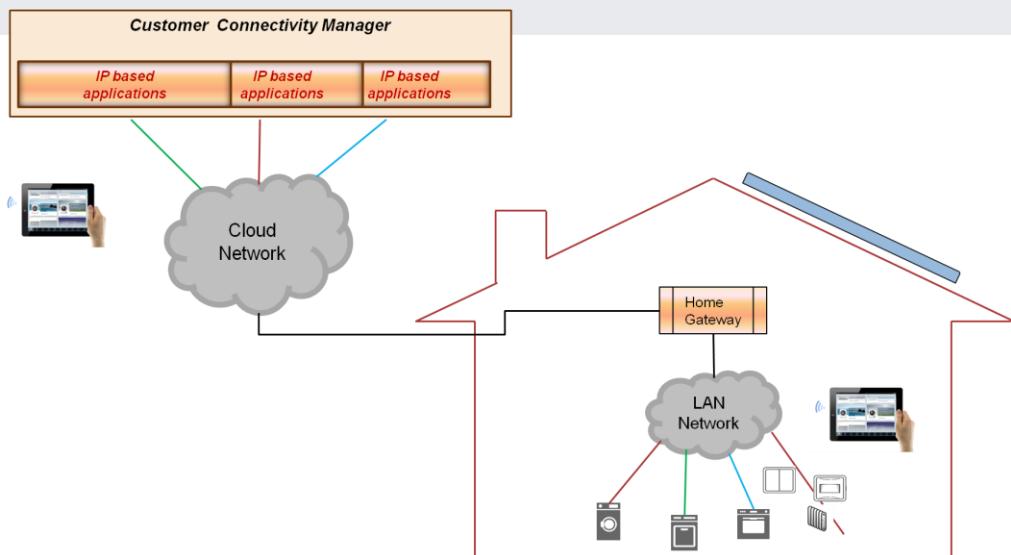


\* e.g. HBES device, smart appliances, storage, generator, domestic charger for EV, complex display

We are defining a set of Smart Premises Interoperable Neutral Messages (SPINE)

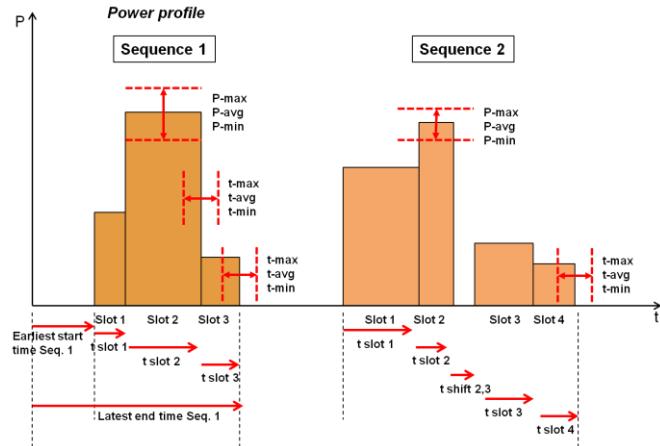


.... home- or cloud based

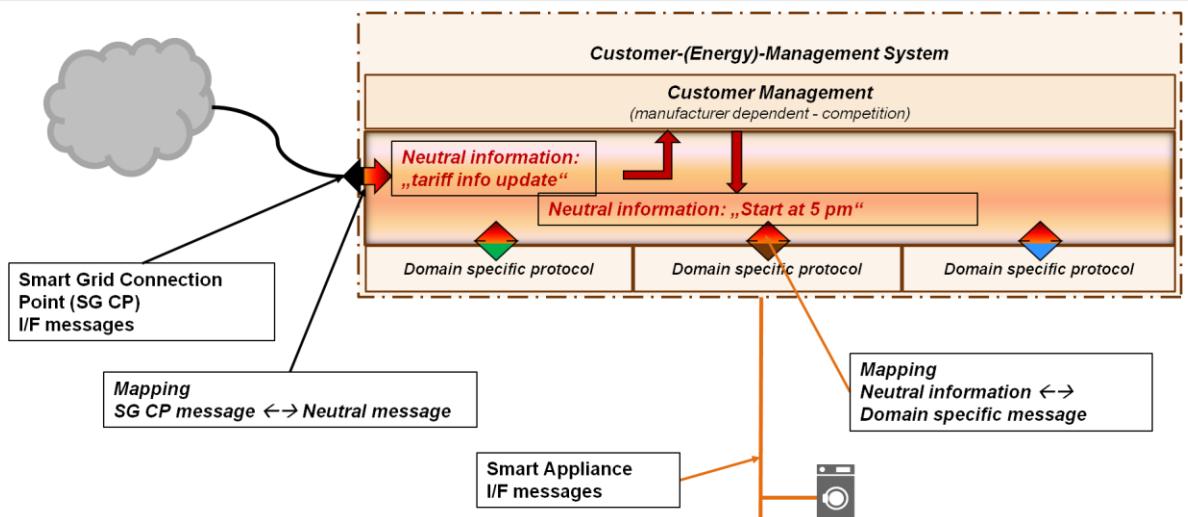


Definitions based on M490 and IEC/CLC Joint Working Group Use Case & Requirements

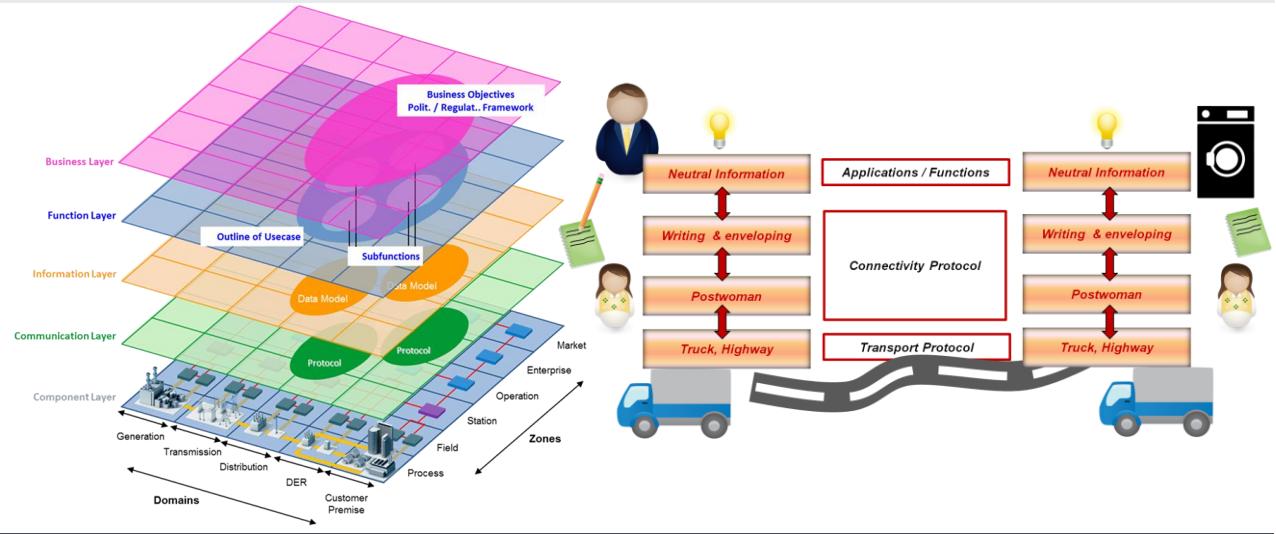
e.g. complex algorithms  
are necessary to ensure optimal  
ressource usage



Neutral Information can be exchanged via mappings to domain specific protocols

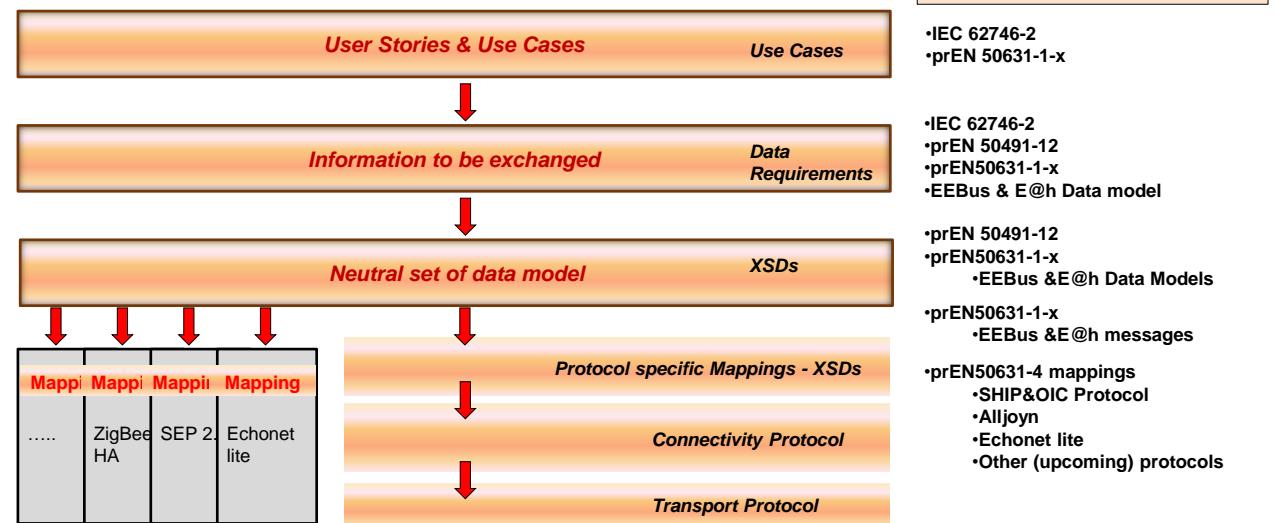


We base our process on the SGAM Model, developed by the Smart Grid Coordination Group (European Mandate M490)



Status: Relevant documents, we have already finished or we are working on

|               |                  |
|---------------|------------------|
| IEC 62746-2   | → IEC TC57 WG21  |
| IEC 62950     | → IEC TC59 WG15  |
| prEN 50491-12 | → CLC TC205 WG18 |
| prEN50631     | → CLC TC59x WG7  |



Josef Baumeister  
BSH Hausgeräte GmbH, Munich

[Josef.baumeister@bshg.com](mailto:Josef.baumeister@bshg.com)  
+49 89 45905067