INTEROPERABILITY GAPS AS A BARRIER FOR THE MARKET TAKE-UP OF SMART APPLIANCES

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Today:
Power to appliances

Future:
Interoperable appliances

A common data model
Gaps – Main communication architecture

IEC 62746
CIM: IEC 61970, 61968, 62325
IEC 61850
OpenADR IEC/PAS 62746-10-1

Gaps – Protocols architecture

IEC 62746-2: use cases
IEC 62746-3: architecture
prEN 50491-12: application
prEN 50631

Gaps – Appliances

E.g. TC 59 WG

Options to reduce the gaps

Missing interoperability? A problem?
Where? Open standards?

Common data model basis for interoperability? What is needed?

Implementing data model to communication layer? Needs? All and future protocols?

Which support is needed? Policy measures?
Energy labeling? Incentivation?