
The CEM and the home/building: CENELEC TC205

June 2019

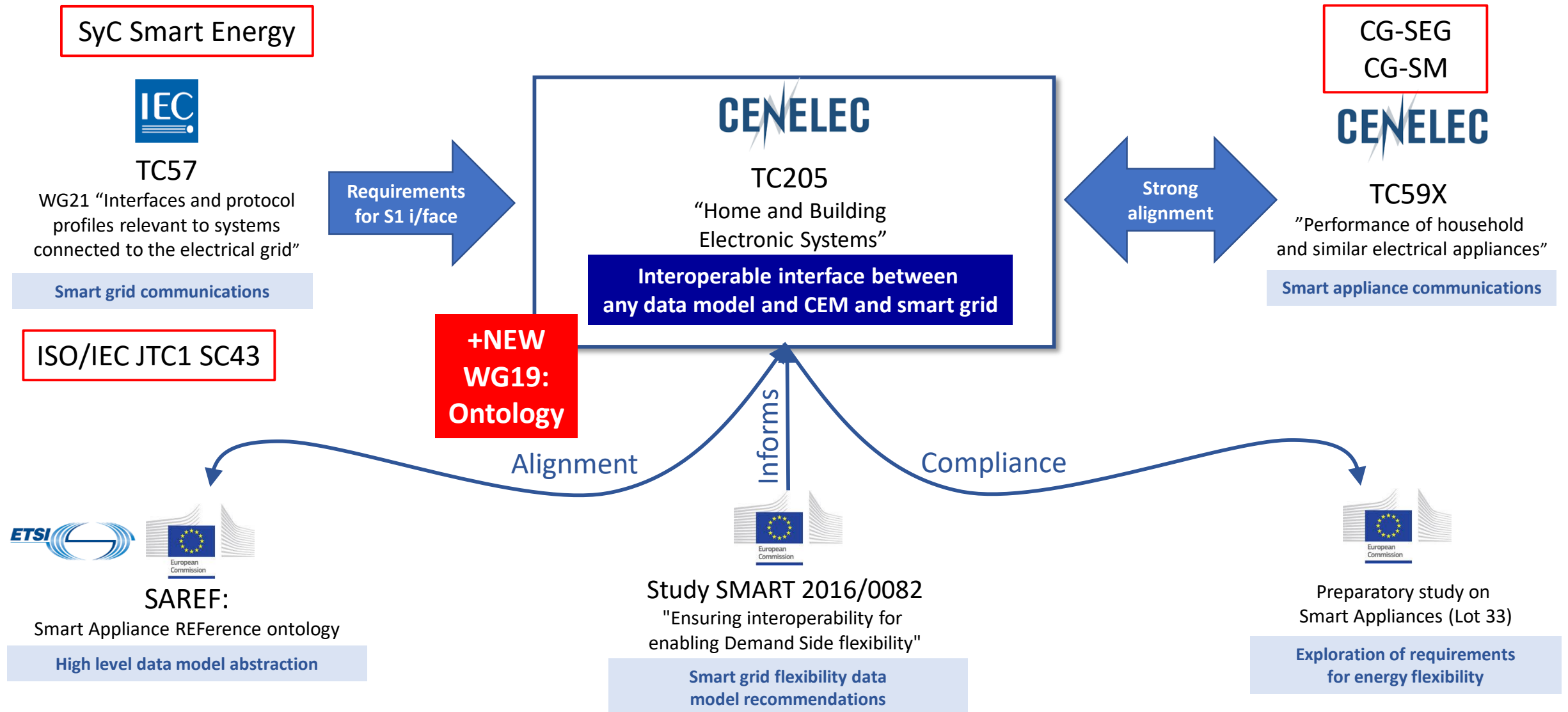
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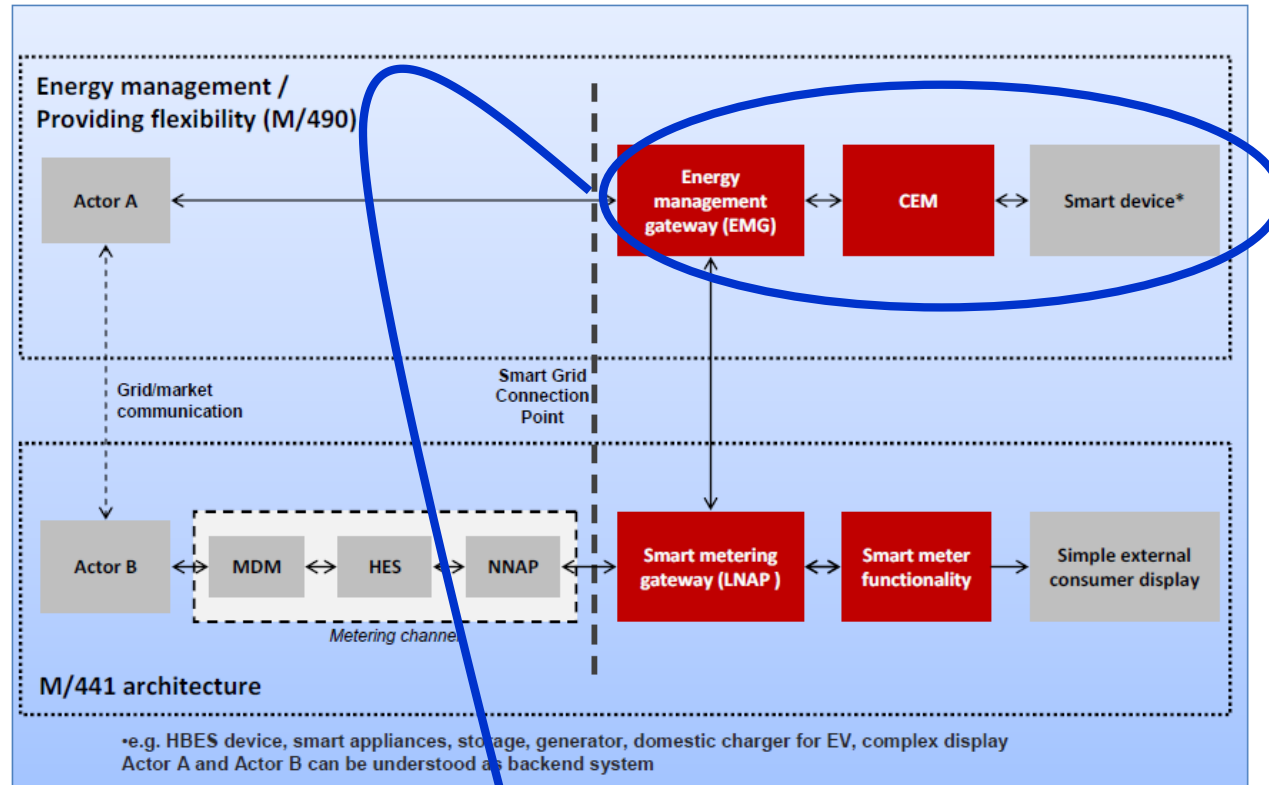
- Context – international and European
- Architecture
- Key points
- Developing your voice
- Next steps

International standards work on DSF interoperability



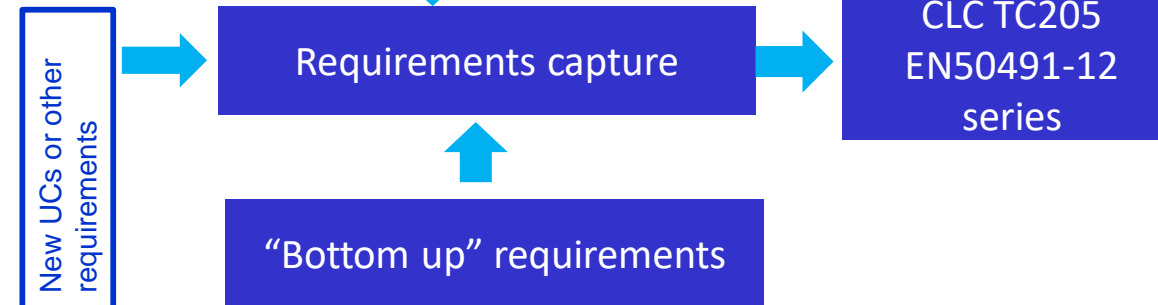
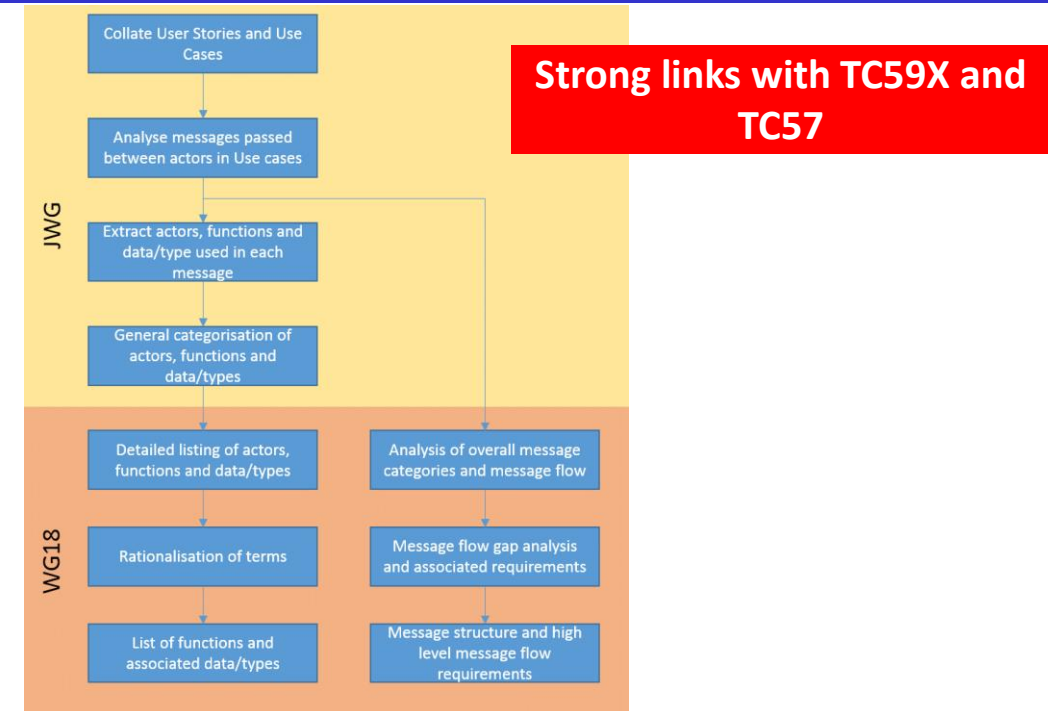
CENELEC TC205 WG18 “Smart Grid”

TC205 WG18 in the wider Smart Grid context

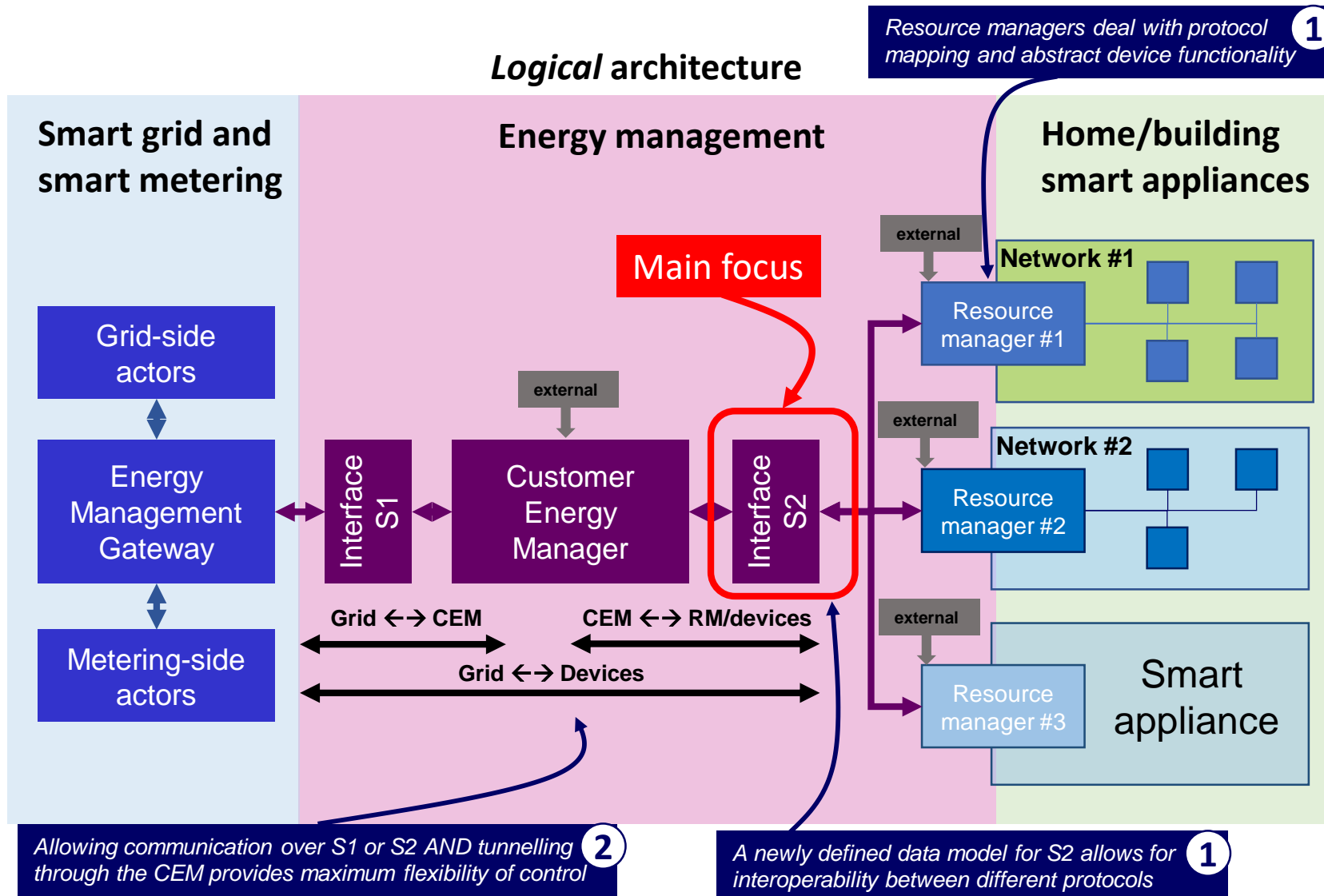


CLC TC205 has been looking at the interface between the smart grid and the “smart” home/building

Capturing requirements



Aims and architecture



- Aim is to define a system that allows the control of smart energy devices in the home/building by a CEM. The CEM acts either on requests from the grid or according to consumer preferences
- Current focus is on defining an interoperable data model on S2

Top level requirements

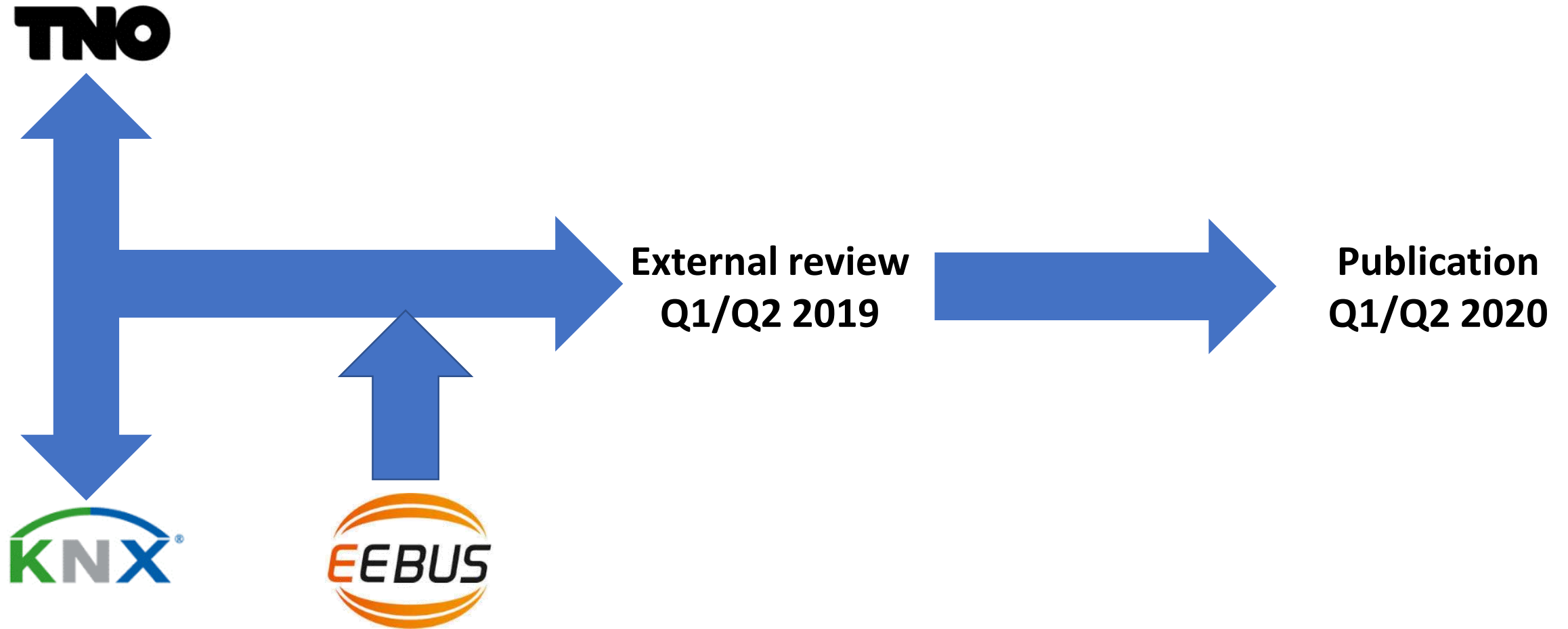
Keep implementation barrier low:

- Low overhead communications
- Interoperable interfaces
- Choice of communications bearer

Do not limit usage scenarios

- No assumption on "intelligence" location
- Interpretation of grid commands
- "Stand alone" energy management
- Direct communication between grid and devices

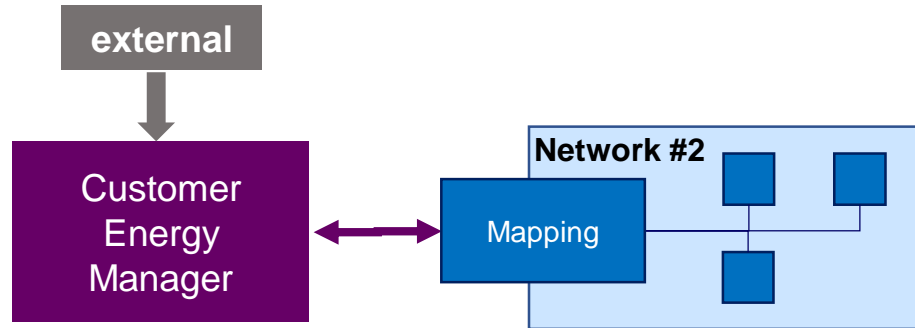
Main input to prEN50491-12-2 til now



prEN50491-12-2 Previous and Current

Intelligence/power has shifted from the CEM to the Resource Manager

Previous



Mapping:

Proxy for **ALL** devices in a network (“translation”)

Determines what is exposed to the CEM

CEM:

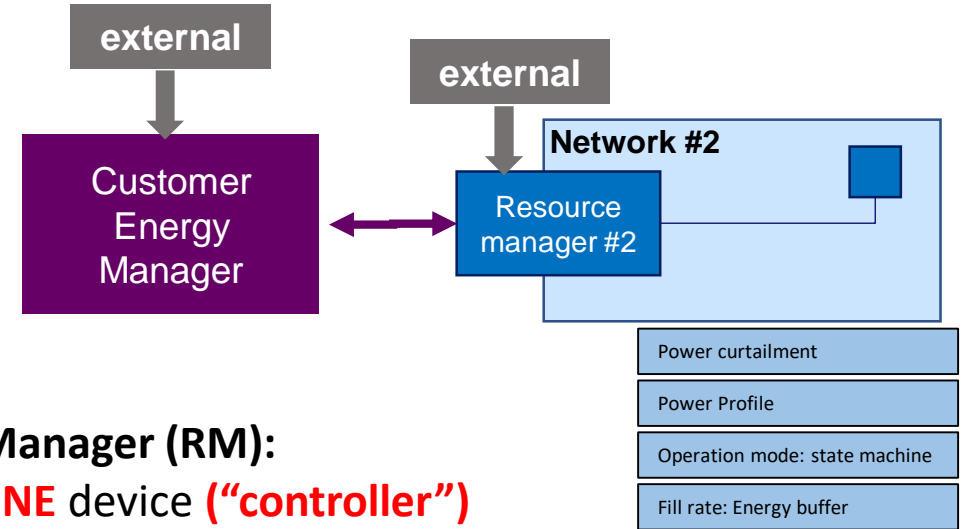
Requests information from Mappings (**types, functions, energy usage profiles etc.**)

Builds up a picture of the whole system

Sends **requests** to Mapping/devices

Able to communicate with e.g. internet for more info

Current



Resource Manager (RM):

Proxy for **ONE** device (“controller”)

Knows energy characteristics of device (dynamic)

Sends “category” and choice of energy profiles to CEM

Internet used for e.g. weather update

CEM:

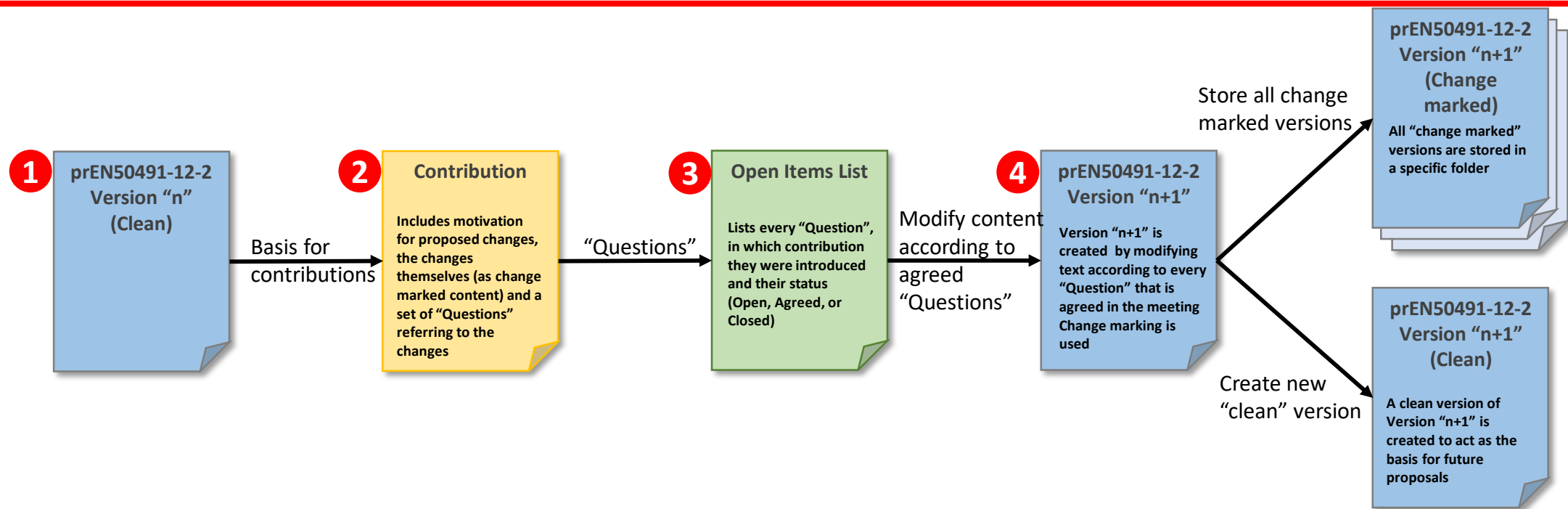
Receives “category” and “profiles” from RM

Builds up a picture of the whole system

Sends its CHOICE of profile to RM

Able to communicate with e.g. internet for more info

Developing your voice – making changes to the draft



1 The current "clean" version of the draft is used as the basis for contributions to the next WG meeting

2 Each proposal for draft revision is made using the Change Proposal template
More than one change may be proposed in a single contribution
WG members may collaborate and submit a contribution jointly (this is to be encouraged)
The Change Proposal includes the proposed changes and one or more "Questions"
Each "Question" relates to each of the proposed changes (usually at a section or sub-section level)

3 The "Questions" are entered into the Open Items List by the Convenor or Editor
Once the "Question" is agreed, then it is dated/marked as such and the associated changes made to the current draft
Once all changes to the current draft are agreed, the resulting "change marked" draft is up-versioned
The Change marked new version is archived on the Collaborative Portal and a clean version uploaded to the "current version" folder

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- Map BEAMA position to prEN50491-12-2
- Identify gaps/clash points
- Produce change request proposals
- Use existing resource in WG18 OR attend and present yourselves
- WG18 F2F meetings in June, September, November...

- A lot is happening at International/EU level
- Still clear opportunity for UK to influence/drive this work
- Work in WG18 is maturing and maps well to UK status
- Clear contribution path exists and experts are on hand
- YOUR thoughts and input are required in ALL this work (please!)

Thank you

Please feel free to contact me if you would like more information or have questions/comments

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