# Harmonised Nordic Retail Market - Message format, content and interface

# Questions for national reference groups

# Assumptions – Metering Points

✓ An installation with both production and consumption will have two Metering Points (if there are different Balance Suppliers for production and consumption?)

✓ In general  (definition from the ebIX®, EFET and ENTSO-E Harmonised Role Model):

A Metering Point is an entity under balance responsibility where balance supplier change can take place and for which commercial business processes are defined

# Assumptions – Acknowledgements [1]

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✓ Use NBS principles for acknowledgement of receipt (technical acknowledgements on syntax level)

   ✓ For synchronous WS:

      ✓ If error: Always sending SOAP ack

      ✓ If OK: no SOAP ack

   ✓ For asynchronous communication (MADES, SMTP….)

      ✓ If error:

         ✓ Always sending negative acknowledgement of receipt

         ✓ Only one error code, "999", and specify the error so that the recipient of the acknowledgement can understand the error

      ✓ If OK: Never sending positive acknowledgement of receipt

# Assumptions – Acknowledgements [2]

✓ If errors occur on a business level, in a one-way notification pattern:

   ✓ the business process will specify if an acknowledgement of processing shall be used

✓ If two-way pattern, such as a request and response processes:

   ✓ a negative or positive business document shall be used

# Addresses [1]



- ✓ Review of address structure, see class diagram later in the presentation
  - ✓ Do we need a "Free Form" element, e.g. for a textual description of the MPs physical location?
  - ✓ Do we need to send both *Metering point address* and *Customer address* if the address is the same?

# Addresses [2]

- ✓ Should it be separate fields for c/o-address and Attention
- ✓ Should we split company name and private person name into two elements and split private person name into:
    - ✓ Given Name
    - ✓ Middle Name
    - ✓ Family Name
- ✓ Do we need more address types than:
    - ✓ MP address
    - ✓ Customer Address
    - ✓ Invoicing Address

# Assumptions – Name/Address [1]
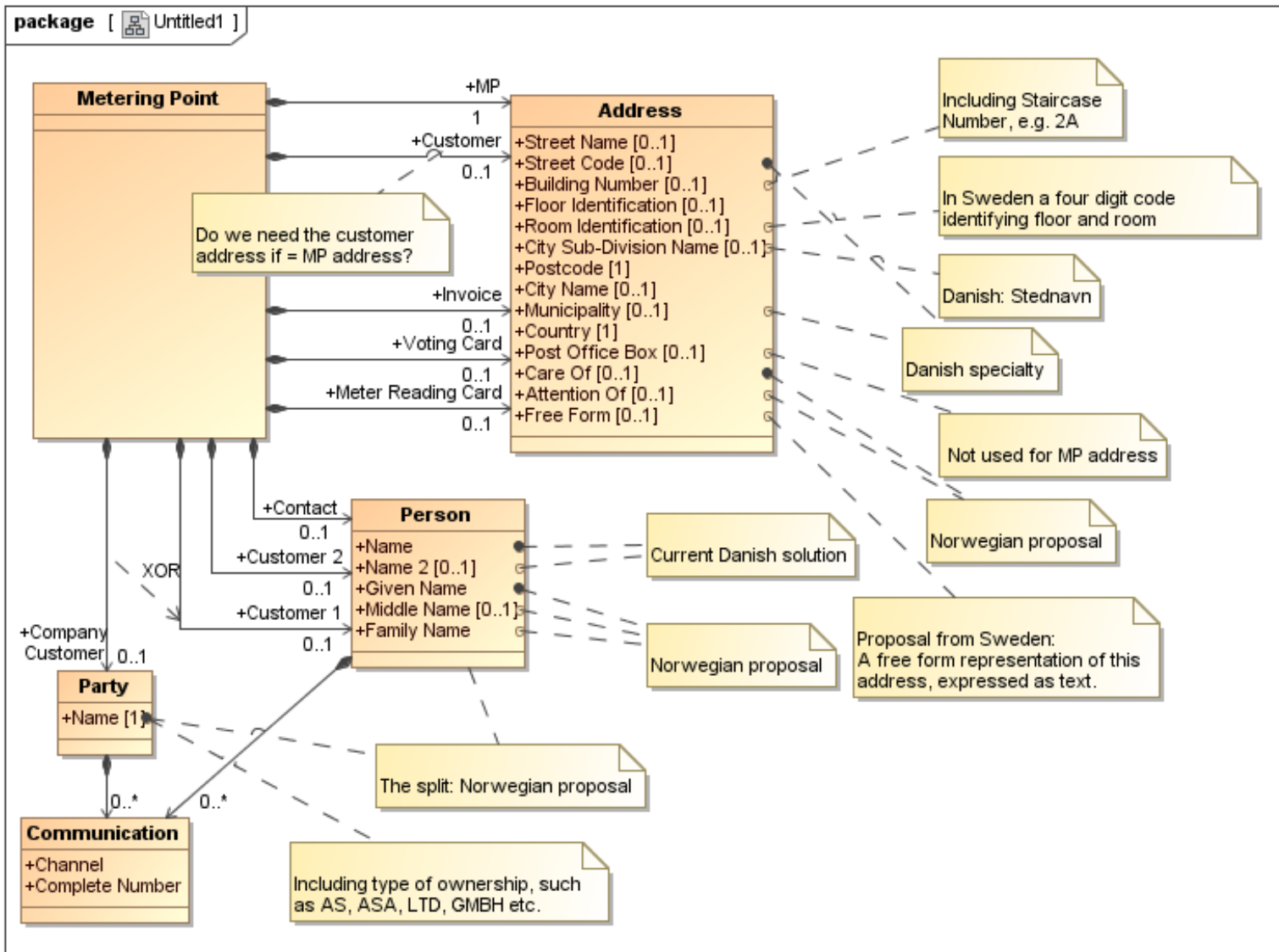
# Moving process [1]

✓ Review of the Moving report

✓ Review comments to UseCase 8

  ✓ The proposed rule in the NordREG Moving-report is opposite to the similar rule in ebIX®, see the slide:

      "Questions to NordREG and national groups (3)"

✓ Finalise UseCase 9-18

✓ Useful links:

  ✓ NordREG Moving-report:

      https://www.nordicenergyregulators.org/upload/new/Harmonised%20moving%20model%20Public%20consultation.pdf

  ✓ ebIX® BRSs (latest draft documents):

      https://www.dropbox.com/sh/nisim0eskzaf96t/ubI_Von4Ex

# Moving process [2]
## UseCases in Moving-report appendix II vs. ebIX® UseCases

| UseCases (industry suggestion) | ebIX® UseCase | Comment |
|---|---|---|
| **UC1: New customer only reports move in**<br><br>**(in this UC there is no Customer linked to the MP when the Move In is received)** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read<br><br>Excluding the UseCase:<br>• Notify Customer Move In | In Denmark there will be a Supplier of last resort connected to the MP if the Old Customer has been moved out before the Request Move In has been received. I.e. The Supplier of last resort must be notified of the Move In. |
| **UC2: New customer reports move in, current customer has not reported move out** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read | |
| **UC3: New customer reports move in, metering site is disconnected** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read | |

# Moving process [3]
## UseCases in Moving-report appendix II vs. ebIX® UseCases

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| UseCases (industry suggestion) | ebIX® UseCase | Comment |
|---|---|---|
| **UC4: Move in on empty site, not reported to anyone** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read | Time limits for move in date back in time must be decided nationally or by NordREG |
| **UC5: Customer reports move in, ongoing new connection** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read | Time limits for move in date back in time must be decided nationally or by NordREG |
| **UC6: Retroactive move** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read | Time limits for move in date back in time must be decided nationally or by NordREG |
| **UC7: Current customer only reports move out** | Standard ebIX® Customer Move Out UseCase, including the UseCases:<br>• Request Customer Move Out<br>• Notify Customer Move Out [1]<br>• Determine Meter Read | [1] Only used for notifying the Grid Access Provider if the Metering point Administrator is a Datahub (i.e. currently only valid for Denmark) |

# Moving process [4]
## UseCases in Moving-report appendix II vs. ebIX® UseCases

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| UseCases (industry suggestion) | ebIX® UseCase | Comment |
|---|---|---|
| **UC8: New customer reports move in, current customer has reported different move out date**<br><br>**a) move out date later than the move in date** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read<br><br>ebIX® Customer Move Out UseCase, which is rejected | The ebIX® BRS proposes the opposite process than the NordREG moving report, i.e.:<br>    The Customer Move Out process is stopped and the Customer Move In process takes over the remaining actions from the Customer Move Out process, including move out for the requested move in date<br>The Danish rules is according to the proposal from the NordREG moving report. |
| **a) move out date earlier than the move in date** | Standard ebIX® Customer Move In UseCase, including the UseCases:<br>• Request Customer Move In<br>• Notify Customer Move In<br>• Notify Metering Point Characteristics<br>• Determine Meter Read<br><br>Standard ebIX® Customer Move Out UseCase, including the UseCases:<br>• Request Customer Move Out<br>• Notify Customer Move Out<br>• Determine Meter Read | |

# Moving process [5]
## UseCases in Moving-report appendix II vs. ebIX® UseCases

| UseCases (industry suggestion) | ebIX® UseCase | Comment |
|---|---|---|
| UC9: Current customer reports move out, new customer has noted a different move in date | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC10: Cancelled move | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC11: Move in to an incorrect metering point | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC12: Customer contacts several suppliers in case of move in | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC13: Move in when customer reports contract party change due to e.g. divorce, death etc | | *Homework:*<br>• To be discussed and filled in national reference groups |

# Moving process [6]
## UseCases in Moving-report appendix II vs. ebIX® UseCases

| UseCases (industry suggestion) | ebIX® UseCase | Comment |
|---|---|---|
| UC14: Customer reports that existing connection contract is to be transferred to a new owner | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC15: Move in when customer has lost his creditworthiness | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC16: Move out/in when customer has fixed contract | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC17: Change move out date | | *Homework:*<br>• To be discussed and filled in national reference groups |
| UC18: Change future move in date | | *Homework:*<br>• To be discussed and filled in national reference groups |

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# Upfront Request for Metering Point Characteristics [1]

✓ Review of the ebIX® BRS for:

Upfront Request for Metering Point Characteristics, see

https://www.dropbox.com/sh/nisim0eskzaf96t/ubI_Von4Ex

✓ Propose rules for what to fill in in a Request for MP Characteristics (see ebIX® proposal on next slide), e.g.

   ✓ Which fields *can* be filled in

   ✓ How many of these *must* be filled in

✓ Propose which data elements to return in the response

*From the ebIX® BRS for Upfront Request for MP Characteristics:*

The Response Upfront Request for Metering Point Characteristics class diagram must be specified on national basis. The set of attributes can be a subset, or the complete set, of Metering Point Characteristics specified in the Business Requirements Specification for Notify Metering Point Characteristics

# Upfront Request for Metering Point Characteristics [2]
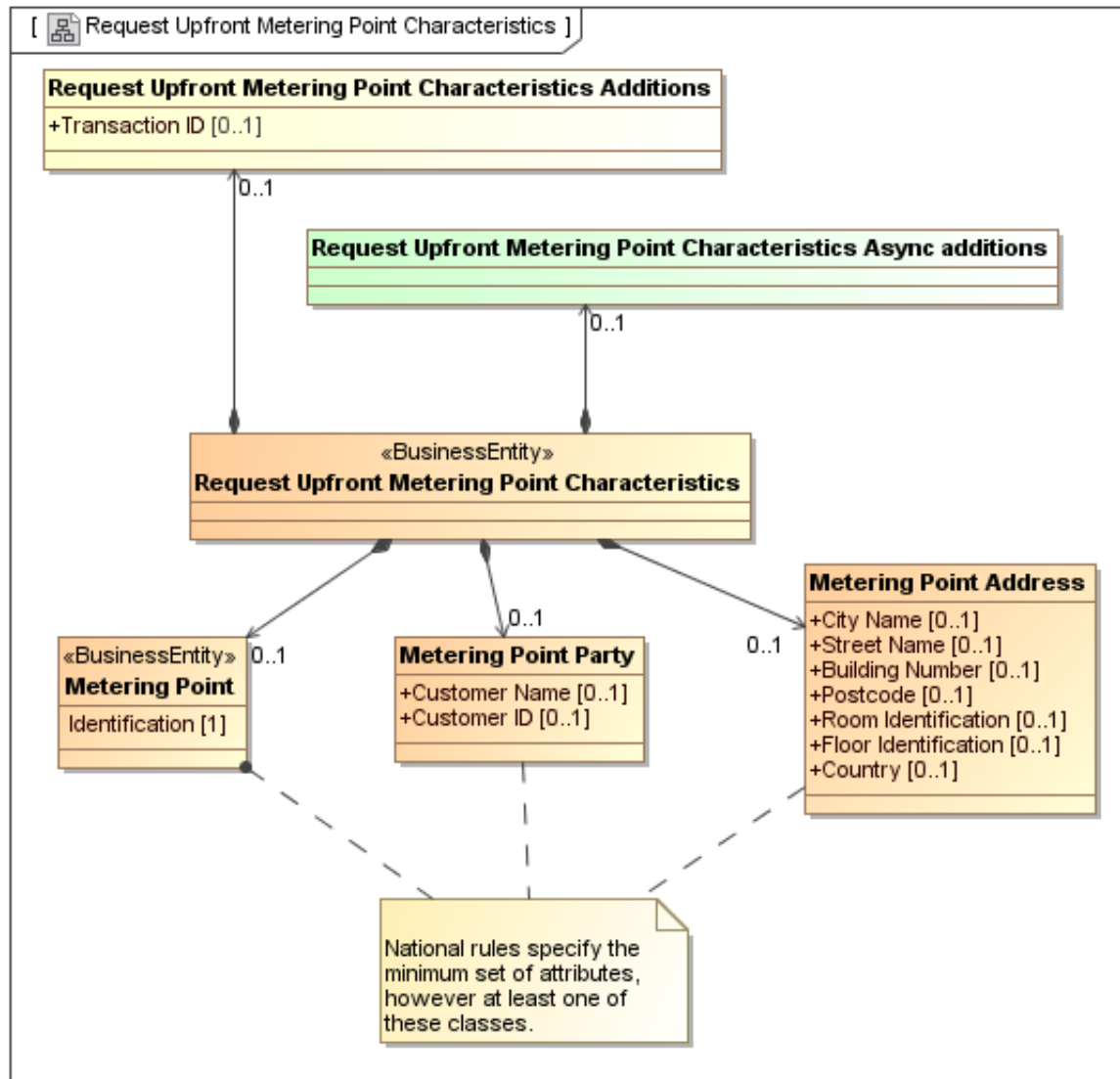
# BRS for a Harmonised Nordic Retail Market
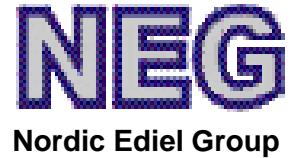
- ✓ Fill in missing national usage of data elements
- ✓ Propose simplifications to the current set of data elements used

# Questions to NordREG and national groups [1]

If there is a MP without a Customer connected, e.g. because the Old Customer has moved out before a Request Move In is received, there are two different ways of handling this:

- ✓ In Denmark there will be a Supplier of last resort responsible for the consumption in the MP
- ✓ In Finland, Norway and Sweden the DSO will be responsible for the consumption in the MP (i.e. add it to the grid loss)

Appendix 2 in the Moving report suggest that the responsible role for the consumption should be the DSO

## How should this be handled in a Harmonised Nordic Retail Market?

# Questions to NordREG and national groups [2]

In the Moving report, UC2, it is stated: "There can only be one (the correct) customer connected to each metering point". However, in Denmark there can be two customers (e.g. man and wife) and in Finland there can be an unlimited number of Customers to a MP

**Should the HNR project assume that there only can be one Customer at a MP at a given point in time?**

# Questions to NordREG and national groups [3]

*In the Moving report, UC8, it is stated:*

> "5. a) If the NPI/DSO finds that it has already received a move out for the same metering point with a move out date which is later than the move in date required the NPI/DSO rejects the request with a negative acknowledgement message telling the reason. The use case stops here with a negative result. Go back to point 3."

*This is opposite to what ebIX® is proposing, i.e.:*

> The Customer Move Out process is stopped and the Customer Move In process takes over the remaining actions from the Customer Move Out process, including move out for the requested move in date

The main argument for the ebIX® proposal is that the Move In request comes later than the Move out request and is probably more up-to-date.

**The rule in the NordREG Moving-report should be reviewed!**

# Project plan

| Activity | Month | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | June | July | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mars | April |
| | | | | | | | | | | | |
| Project group meeting | ♦ | | ♦ | | | ♦ | ♦ | ♦ | | ♦ | |
| National Reference group meeting | | | | ♦ | ♦ | | | ♦ | ♦ | | |
| Documentation | | | | | | | | | | | |
| Business Information Model (BPM) | | | | | | | | | | | |
| Change of supplier | | | | | | | | | | | |
| Exchange of master data | | | | | | | | | | | |
| Customer move | | | | | | | | | | | |
| End of supply and/or grid connection | | | | | | | | | | | |
| Special processes | | | | | | | | | | | |
| Exchange of metered data | | | | | | | | | | | |
| Detailed description of the documents | | | | | | | | | | | |
| Proposal forcommunication means and format | | | | | | | | | | | |