IEC TC57 WG16 MAINTENANCE REQUEST

Maintenance notice:

This template needs to be completed and sent to: WG16Part301@iectc57.org

1   Rules

All participants in the IEC TC 57 WG16 may issue a Maintenance Request concerning IEC TC 57 WG16 documents, UML models or code components. This document defines the form that is to be used to submit such a request.

General guidelines for the Maintenance Request submission:

- The form is to be completed with all the necessary information.
- All associated documents required for the understanding of the Maintenance Request are to be provided.
- It is highly recommended to provide a presentation describing the use cases and why a change to an existing standard is necessary. Each use case must relate to an ongoing or upcoming project (American, European or National project). Valuable contextual information must be provided such as European regulations or directives, project specifications, and so on.
- If needed the requester can be invited to present their Maintenance Request to IEC TC57 WG16. Failing that an IEC TC57 WG16 member should champion the Maintenance Request so that any questions raised may be immediately resolved.

The IEC TC57 WG16 Convener will inform the submitter when the Maintenance Request is to be reviewed by the WG 16.

The Maintenance Request shall be provided to IEC TC57 WG16 Members and Corresponding Members at least one week prior to its presentation for approval.

The Maintenance Request will be debated within IEC TC57 WG 16 and its Members shall state:

- If the Maintenance Request is to be rejected and the reason of rejection.
- If the Maintenance Request is accepted.
- If the Maintenance Request is accepted with changes.

All decisions shall be obtained through consensus[1].

In all cases, the requester shall be informed of the IEC TC57 WG 16 decision.

Accepted Maintenance Requests, before being implemented in the existing standards, shall be updated in a common excel sheet.

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[1] ISO definition of Consensus: "general agreement, characterized by the absence of sustained opposition to substantial issues by any important part of the concerned interests and by a process that involves seeking to take into account the views of all parties concerned and to reconcile any conflicting arguments".
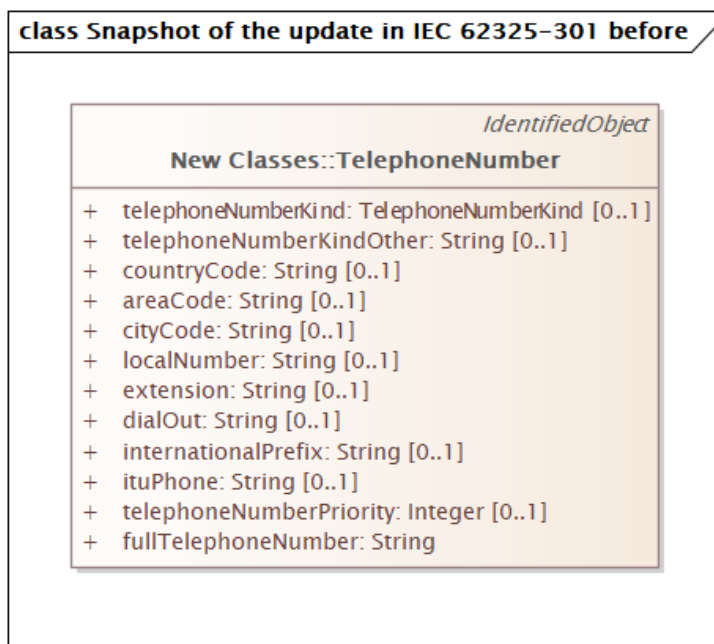
2   General Information

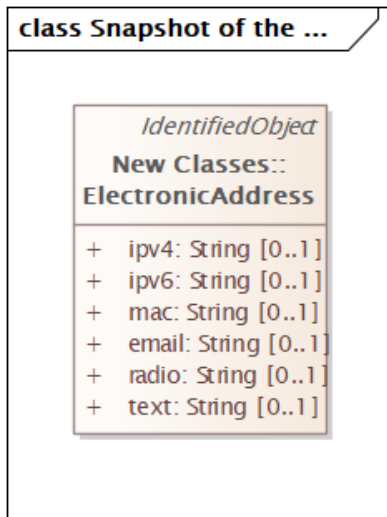|	
Date of submission:	8/01/2025
Submitter Name:	Jon-Egil Nordvik
Organisation:	Statnett on behalf of the Nordic TSOs (Energinet, Fingrid, Statnett and Svenska kraftnät)
E-mail:	jon-egil.nordvik@statnett.no
Maintenance Request ID	NMEG 2024/223
Maintenance Request Version	1.0
Maintenance Request title	Add a new CommunicationDetail class to cim/Market and ESMP.

3   Description of the issue (Business requirements, use cases…)

When exchanging master data, such as master data for an Accounting Point, there are often a need to include one or mere communication means, such as telephone or e-mail, and the related communication address (number). In CIM today we can find the communication means as attributes in various CIM classes, such as:

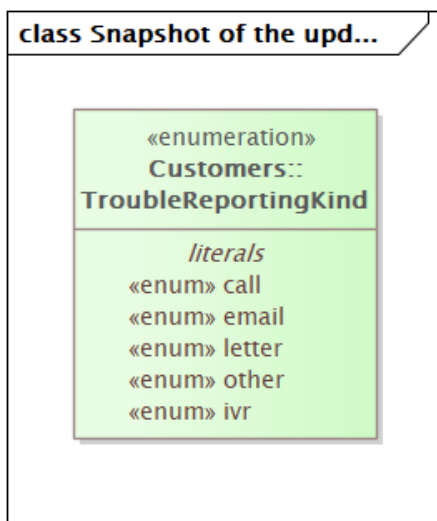Model.CIM.Enterprise.Common.New Classes.TelephoneNumber:

Model.CIM.Enterprise.Common.New Classes.ElectronicAddress:

```
class Snapshot of the ...

        IdentifiedObject
        New Classes::
        ElectronicAddress

    +   ipv4: String [0..1]
    +   ipv6: String [0..1]
    +   mac: String [0..1]
    +   email: String [0..1]
    +   radio: String [0..1]
    +   text: String [0..1]
```

However, the number of available types of communication means will increases over time, see for instance UN/CEFACT 3155 Communication means type code, which currently have identified 47 possible types of communication means.

See also the enumeration *Model.CIM.Enterprise.Customers.TroubleReportingKind*:

```
class Snapshot of the upd...

        «enumeration»
        Customers::
        TroubleReportingKind

            literals
        «enum» call
        «enum» email
        «enum» letter
        «enum» other
        «enum» ivr
```

Hence, we suggest adding a general CommunicationDetail class having a type-attribute of type CommunicationMeansTypeList (enumeration) and a completeNumber attribute. This will be in line with the corresponding UN/CEFACT Core Component ACC "Communication", see UN/CEFACT Core Components Library (UN/CCL)

Further we suggest adding a set of often used enumeration literals, i.e. cellular phone, telephone, e-mail and telefax, using UN/CEFACT codes.

4 Possible impacts on profiles (ESMP or profiles based on ESMP)

This MR has impact on the Profiles IEC62325/EuropeanStyleMarketProfile/IEC62325-351 Ed.3 package.

5   Description of the update

5.1   This request applies an update of CIM Market-301 (If yes, please fill the points below)

5.1.1   Description of the change/update

1) Add the new CommunicationDetail class with the two attributes type and completeNumber. We suggest adding the new class in the CIM/Market/MarketCommon package.

2) Add an association from CIM/Market/MarketCommon/MarketParticipant to the new class CIM/Market/MarketCommon/CommunicationDetail. We suggest a [0..*] cardinality at both association ends, i.e. one MarketParticipant can have several means-of-communication and one means-of-communication can be used by more than one MarketParticipant.

5.1.2   Reference to XMI (Optional)

None.

5.1.3   Snapshot of the update in CIM Market-301 before

None.

Figure 1 Snapshot of the update in CIM Market-301 before

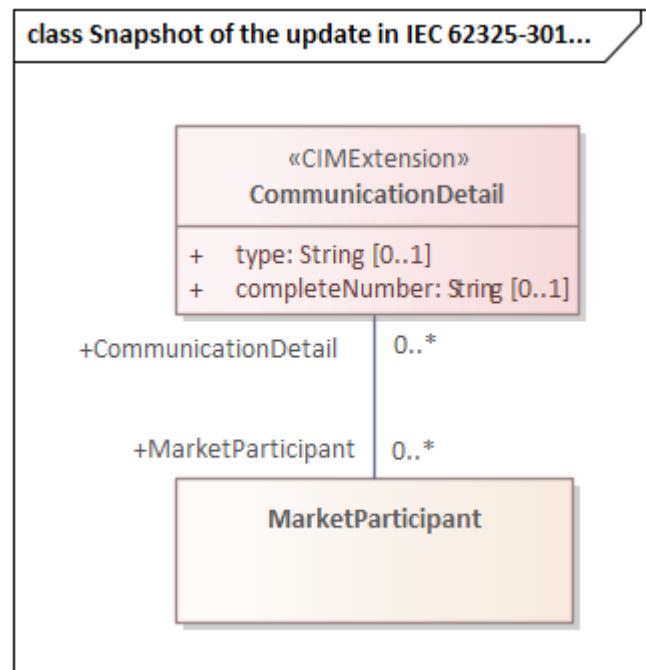### 5.1.4   Snapshot of the update in CIM Market-301 after

Figure 2 Snapshot of the update in CIM Market-301 after

5.1.5   Class and attributes descriptions

Class/attribute	Definition
CommunicationDetail	Details of a communication means, such as telephone or email.
type	A code specifying the channel or manner in which a communication can be made, such as telephone or email.

completeNumber	A text string of characters that make up the complete number for this communication.

5.2 Description of update of IEC CIM Market-351 (If yes, please fill the points below)

5.2.1 Description of the change/update

1) Add the new CommunicationDetail class with the two attributes type and completeNumber to the ESMPClasses package.

2) Add an aggregation with cardinality [0..*] from ESMPClasses/MarketParticipant to the new class ESMPClasses/CommunicationDetail, i.e. one MarketParticipant can have several means-of-communication.

3) Add the ESMPEnumeration CommunicationMeansTypeList with the following enumeration literals:

Code	Description	Comment
EM	Electronic mail	
FX	Telefax	
TE	Telephone	
AJ	Alternate telephone	
AL	Cellular phone	
AO	Uniform Resource Location (URL)	

5.2.2 Reference to XMI (Optional)

None.

5.2.3 Snapshot of the update in CIM Market-351 before

None

Figure 3 Snapshot of the update in CIM Market-351 before

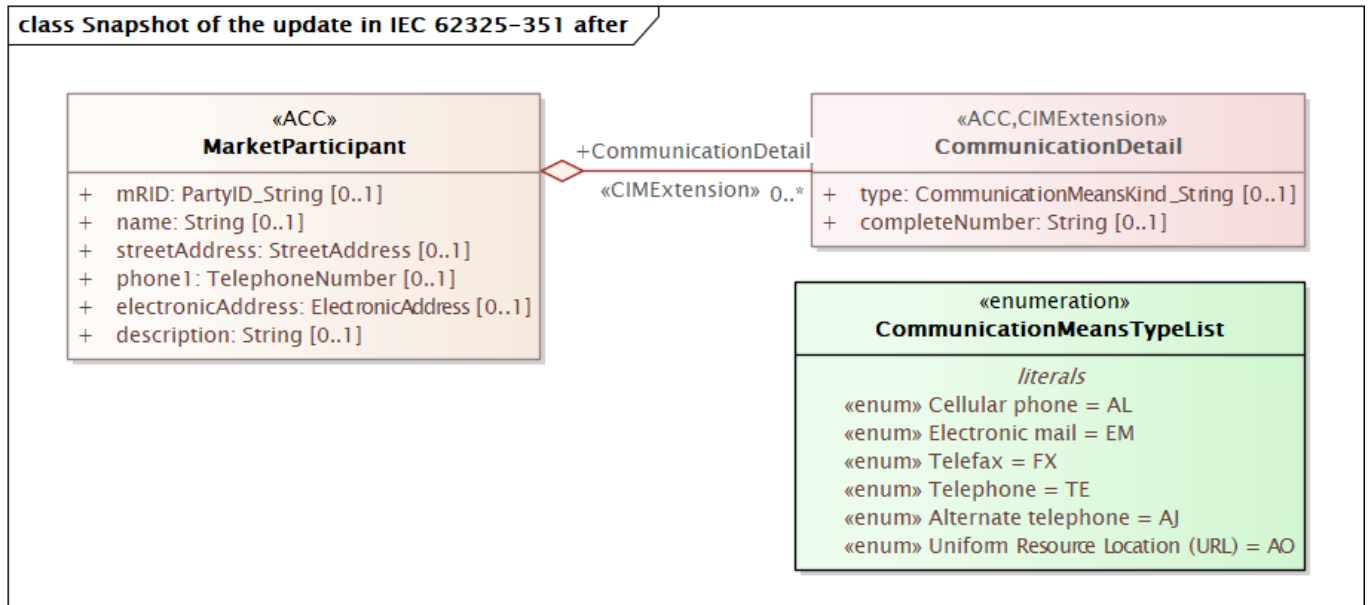### 5.2.4 Snapshot of the update in CIM Market-351 after

Figure 4 Snapshot of the update in CIM Market-351 after

5.2.5 Class and attributes descriptions

We suggest using the same definitions of the CommunicationDetail and the related attributes in both the CIM/Market package and in the ESMP package:

Class/attribute	Definition
CommunicationDetail	Details of a communication means, such as telephone or email.
type	A code specifying the channel or manner in which a communication can be made, such as telephone or email.
completeNumber	A text string of characters that make up the complete number for this communication.
«enumeration» CommunicationMeansTypeList	The identification of the type of channel or way a communication can be made, such as telephone or email.

6 Final agreement

Agreed in ESMP SG on January 14th 2024 and in ENTSO-E CIM WG on January 23rd 2025.