

# Edig@s 6.1 XML guideline to Schematron mapping

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## 1 Introduction

This document describes the Edig@s 6.1 document validation service for valid on 11\_2025.

## 2 Edigas coverage

This version of the validation service covers the NOMINT, NOMRES, DELORD, DELRES, INVENT and LIMITS documents of Edig@s 6.1.

- NOMINT, NOMRES, DELORD, DELRES are relatively mature and have been tested by an Edig@s expert.
- INVENT and LIMITS are only provisionally provided, as they have not been validated by the expert and as there was less documentation.

### 2.1 Edigas version

There are several versions of Edig@s in use. The service covers the most recent version of Edig@s, which is version 6.1.

### 2.2 Service Areas

Edig@s 6.1 is organized in seven services, commonly called process areas which are given a process area code, e.g. A16:

1. A14 Edigas 6.1 Capacity Allocation
2. A15 Edigas 6.1 Gas Trading
3. A16 Edigas 6.1 Nomination & Matching
4. A17 Edigas 6.1 Balancing & Settlement
5. A18 Edigas 6.1 Remit & Transparency
6. A19 Edigas 6.1 General Process
7. A20 Edigas 6.1 System Operation

The service will initially cover process area A16 Edigas 6.1 Nomination & Matching and part of A20 Edigas 6.1 System Operation.

### 2.3 XML schema validation

For each document, the validation service providers two types of validation. EASEE-gas provides XML schemas for all Edig@s documents. For each document there is a main document and an imported library. The XML schemas provide basic structure and content data validation and are useful for code generation.

All XML schemas (XSD) are based on the following release content:

Edig@s complete package of 30-07-2025. Available from:

[https://edigas.org/files/downloads/9\\_9\\_Edigas\\_6.1\\_full\\_2025-07-30.zip](https://edigas.org/files/downloads/9_9_Edigas_6.1_full_2025-07-30.zip)

## 2.4 Schematron validation

XML schemas do not capture all the constraints on Edig@s documents. To complement the schemas, Edig@s provides extensive additional documentation.

For example, the NOMINT XML schema supports four variants of this document. The Edig@s documentation uses tables like the following to further document these variants and structural and content rules for each of them. For example, the fourth row “documentCode” can have four values 01G, 02G, 03G or 04G for four variants Connection Point, VTP OTC, VTP exchange or Non matching nomination.

For convenience, the validation service using an identification convention for validation rules that reflects the row by number (e.g. 9) and columns or other horizontal subdivisions by letter (A, B, C D). Rules can express that dependencies such as the one from row 9, column A on row 4, column A, that “If the document code is 01G (Nomination) the issuer must be a ZSH (Balance responsible party)”.

| Nomination document                             | Connection Point                                                                        | VTP OTC                                                    | VTP exchange                                               | Non matching nomination          |
|-------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------------------------------|
| identification                                  | Mandatory.                                                                              |                                                            |                                                            |                                  |
| version                                         | Mandatory.                                                                              |                                                            |                                                            |                                  |
| documentCode                                    | 01G = Nomination.                                                                       | 02G = VTP OTC nomination.                                  | 03G = VTP exchange nomination.                             | 04G = Non matching nomination.   |
| creationDateTime                                | Mandatory.                                                                              |                                                            |                                                            |                                  |
| validityPeriod                                  | Mandatory.                                                                              |                                                            |                                                            |                                  |
| applicationContext                              | May be used. Deprecated attribute which will be removed in the next version of Edig@s.  |                                                            |                                                            |                                  |
| issuer_MarketParticipant.identification         | Mandatory; codingScheme = 305 (EIC Party X code).                                       |                                                            |                                                            |                                  |
| issuer_MarketParticipant.marketRole.roleCode    | ZSH = Balance Responsible Party.                                                        | ZSH = Balance Responsible Party.                           | ZUM = Clearing Responsible                                 | ZSH = Balance Responsible Party. |
| recipient_MarketParticipant.identification      | Mandatory; codingScheme = 305 (EIC Party X code).                                       |                                                            |                                                            |                                  |
| recipient_MarketParticipant.marketRole.roleCode | ZSO = System Operator.                                                                  | ZUK = Area Coordinator.                                    | ZUK = Area Coordinator.                                    | ZSO = System Operator.           |
| Internal_Account.internalAccount                | Mandatory; codingScheme = 305 (EIC Account Y code) or ZSO.                              |                                                            |                                                            |                                  |
| Internal_Account.internalAccountTso             | Used if the account identification is ambiguous; codingScheme = 305 (EIC Party X code). |                                                            |                                                            |                                  |
| connectionPoint.identification                  | Mandatory; codingScheme = 305 (EIC Measurement Point Z or Y code) or ZSO.               |                                                            |                                                            |                                  |
| ConnectionPoint.measureUnit.unitOfMeasureCode   | KW1 = Kilowatt-hour per hour (kWh/h).<br>KW2 = Kilowatt-hour per day (kWh/d).           |                                                            |                                                            |                                  |
| NominationType.nominationCode                   | A01 = Single sided.<br>A02 = Double sided.                                              | A02 = Double sided.                                        | Not used.                                                  | Not used.                        |
| External_Account.externalAccount                | Mandatory codingScheme = 305 (EIC Account Ycode) or ZSO.                                | Mandatory; codingScheme = 305 (EIC Account Y code) or ZSO. | Mandatory; codingScheme = 305 (EIC Account Y code) or ZSO. | Not used.                        |

Schematron (an ISO standard) is very well suited for expressing these constraints. Rules define a set of assertions that apply in a particular context and can make assertions that need to be true for the document. Assertions can use XPath expressions to locate content anywhere in the document and use

it for comparison. When an assertion fails, the validation report includes a user-definable message that is much more readable than Edig@S XML schema error messages.

## 2.5 XSLT for run-time validation

For run-time use in applications, a Schematron rule set can be compiled automatically to XSLT stylesheet. The stylesheet, when applied to an XML file, generates a validation report. The validation service uses these compiled stylesheets.

## 3 A16 Edigas 6.1 Nomination & Matching

### 3.1 Overview

Process area code A16 relates to the document types in Edig@s 6.1 for the Nomination & Matching processes. The following four documents are covered:

- NOMINT Nomination Document
- NOMRES Nomination Responsedocument
- DELORD Deliveryorder Document
- DELRES Deliveryresponse Document

The following subsections provide an overview of implemented rules for these four documents.

### 3.2 NOMINT Nomination Document

| Rule ID | Constraints                                                                                            |
|---------|--------------------------------------------------------------------------------------------------------|
| 001A    | Root element must be Nomination_Document                                                               |
| 001B    | Root element namespace must be urn:easee-gas.eu:edigas:BrpNominationAndMatching:NominationDocument:6:1 |
| 003     | The version sub-element is mandatory on NOMINT                                                         |
| 004     | The document code of a nomination must be one of 01G, 02G, 03G or 04G                                  |
| 008A    | The coding scheme for issuer market participant must be 305                                            |
| 008B    | The code for issuer market participant must be an EIC Party X code                                     |
| 009A    | If the document code is 01G (Nomination) the issuer must be a ZSH (Balance responsible party)          |
| 009B    | If the document code is 02G (VTP OTC Nomination) the issuer must be a ZSH (Balance responsible party)  |

| Rule ID | Constraints                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 009C    | If the document code is 03G (VTP exchange nomination) the issuer must be a ZUM (Clearing Responsible)                                            |
| 009D    | If the document code is 04G (Non matching nomination) the issuer must be a ZSH (Balance responsible party)                                       |
| 010A    | The coding scheme for recipient market participant must be 305                                                                                   |
| 010B    | The code for recipient market participant must be an EIC Party X code                                                                            |
| 011A    | If the document code is 01G (Nomination) the recipient must be a ZSO (System Operator)                                                           |
| 011B    | If the document code is 02G (VTP OTC Nomination) the recipient must be a ZUK (Area Coordinator)                                                  |
| 011C    | If the document code is 03G (VTP exchange nomination) the recipient must be a ZUK (Area Coordinator)                                             |
| 011D    | If the document code is 04G (Non matching nomination) the recipient must be a ZSO (System Operator)                                              |
| 012A    | The coding scheme for internal account must be 305 or ZSO                                                                                        |
| 012B    | If the code scheme for internal account is 305, the code must be an EIC Account Y code                                                           |
| 013A    | The coding scheme for internal account TSO must be 305                                                                                           |
| 013B    | The code for internal account TSO must be an EIC Party X code                                                                                    |
| 014A    | The coding scheme for Connection Point identification must be 305 or ZSO                                                                         |
| 014B    | If coding scheme for Connection Point identification is 305 the code must be EIC Measurement Point Z or Y code                                   |
| 015     | The coding scheme for units of measure for connection points must be KW1 (Kilowatt-hour per hour (kWh/h)) or KW2 (Kilowatt-hour per day (kWh/d)) |
| 016A    | If the document code is 01G, the nomination type code must A01 (Single sided) or A02 (Double sided)                                              |
| 016B    | If the document code is 02G, the nomination type code must A02 (Double sided)                                                                    |
| 016C    | If the document code is 03G, the nomination type code must not be used                                                                           |
| 016D    | If the document code is 04G, the nomination type code must not be used                                                                           |

| Rule ID | Constraints                                                                                              |
|---------|----------------------------------------------------------------------------------------------------------|
| 017A    | If the document type code is 04G (Non matching nomination), the External_Account is not used             |
| 017B    | The coding scheme for external account must be 305 or ZSO                                                |
| 017C    | If the coding scheme for external account is 305, the code must be an EIC Account Y code                 |
| 018A    | If the document type code is 04G (Non matching nomination) the external account TSO is not used          |
| 018B    | The coding scheme for external account TSO must be 305                                                   |
| 018C    | The code for external account TSO must be an EIC Party X code                                            |
| 020     | In a Period in a ConnectionPoint, the gas direction code must of Z02 or Z03                              |
| 022A    | In a Period in a ConnectionPoint, priority status code may only be used if the document type code is 01G |

### 3.3 NOMRES Nomination Response Document

| Rule ID | Constraints                                                                                                                                                    |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 001A    | Root element must be NominationResponse_Document                                                                                                               |
| 001B    | Root element namespace must be urn:easee-gas.eu:edigas:BrpNominationAndMatching:NominationResponseDocument:6:1                                                 |
| 003     | The subelement version is mandatory on NOMRES                                                                                                                  |
| 005A    | The document code of a nomination response must be one of 08G or AND                                                                                           |
| 005B    | If the nomination document code is 01G, the document code of a nomination response must be AND or 08G                                                          |
| 005C    | If the nomination document code is one of 02G, 03G or 04G, the document code of a nomination response must be 08G                                              |
| 007A    | The coding scheme for issuer market participant must be 305                                                                                                    |
| 007B    | The code for issuer market participant must be an EIC Party X code                                                                                             |
| 008A    | If the document code is 08G (Confirmation notice) and the nomination document code is 01G (Nomination), the issuer role code of the NOMRES must be ZSO (System |

| Rule ID | Constraints                                                                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Operator)                                                                                                                                                                                           |
| 008B    | If the document code is AND (Interruption notice), the issuer role code of the NOMRES must be ZSO (System Operator)                                                                                 |
| 008C    | If the document code is 08G (Confirmation notice) and the nomination document code is 02G (VTP OTC nomination), the issuer role code of the NOMRES must be ZUK (Area Coordinator)                   |
| 008D    | If the document code is 08G (Confirmation notice) and the nomination document code is 03G (VTP exchange nomination), the issuer role code of the NOMRES must be ZUK (Area Coordinator)              |
| 008E    | If the document code is 08G (Confirmation notice) and the nomination document code is 04G (Non matching nomination) the issuer role code of the NOMRES must be ZSO (System Operator)                |
| 009A    | The coding scheme for recipient market participant must be 305                                                                                                                                      |
| 009B    | The code for recipient market participant must be an EIC Party X code                                                                                                                               |
| 010A    | If the document code is AND (Interruption notice) the recipient role code of the NOMRES must be ZSH (Balance Responsible Party)                                                                     |
| 010B    | If the document code is 08G (Confirmation notice) and the nomination document code is 01G (Nomination), the recipient role code of the NOMRES must be ZSH (Balance Responsible Party)               |
| 010C    | If the document code is 08G (Confirmation notice) and the nomination document code is 02G (VTP OTC nomination), the recipient role code of the NOMRES must be ZSH (Balancing Responsible Party)     |
| 010D    | If the document code is 08G (Confirmation notice) and the nomination document code is 03G (VTP exchange nomination), the recipient role code of the NOMRES must be ZUM (Clearing Responsible Party) |
| 010E    | If the document code is 08G (Confirmation notice) and the nomination document code is 04G (Non matching nomination), the recipient role code of the NOMRES must be ZSH (Balance Responsible Party)  |
| 013     | If the nomination_Document.identification has the text "MISSING" the version shall always have the value 1                                                                                          |

| Rule ID | Constraints                                                                                                                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 014A    | The nomination document code must be one of 01G (Nomination), 02G (VTP OTC nomination), 03G (VTP exchange nomination) or 04G (Non matching nomination)                                                                                |
| 014B    | If the document code is AND (Interruption notice) the nomination document code must be 01G (Nomination)                                                                                                                               |
| 015A    | Nomination document single sided BRP source market participant can only be specified when the document code is AND (Interruption notice) or when it is 08G (Confirmation notice) and the nomination document code is 01G (Nomination) |
| 015C    | The code for nomination document single sided BRP source market participant must be an EIC Party X code                                                                                                                               |
| 015D    | Nomination_document.singleSidedBrpSource_MarketParticipant.identification may only be specified when Nomination Type code is A01 (Single-sided)                                                                                       |
| 016A    | The coding scheme for internal account must be 305 or ZSO                                                                                                                                                                             |
| 016B    | If the code scheme for internal account is 305, the code must be an EIC Account Y code                                                                                                                                                |
| 017A    | The coding scheme for internal account TSO must be 305                                                                                                                                                                                |
| 017B    | The code for internal account TSO must be an EIC Party X code                                                                                                                                                                         |
| 018A    | The coding scheme for Connection Point identification must be 305 or ZSO                                                                                                                                                              |
| 018B    | If the coding scheme for Connection Point identification is 305, the code must be an EIC Measurement Point Z or Y code                                                                                                                |
| 019     | The coding scheme for units of measure for connection points must be KW1 (Kilowatt-hour per hour (kWh/h)) or KW2 (Kilowatt-hour per day (kWh/d))                                                                                      |
| 020A    | If the document code is AND (Interruption Notice), NominationType is mandatory                                                                                                                                                        |
| 020B    | If the document code is 08G (Confirmation Notice) and the nomination document code is 01G (Nomination), NominationType is mandatory                                                                                                   |
| 020C    | If the document code is 08G (Confirmation Notice) and the nomination document code is 02G (VTP OPTC Nomination), NominationType is mandatory                                                                                          |
| 020D    | If the document code is 08G (Confirmation Notice) and the nomination document code is 03G (VTP exchange Nomination), NominationType must not be used                                                                                  |
| 020E    | If the document code is 08G (Confirmation Notice) and the nomination document code is 04G (Non matching nomination), NominationType must not be used                                                                                  |

| Rule ID | Constraints                                                                                                                                                                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 020F    | If the document code is AND (Interruption Notice), the nomination type code must A01 (Single sided) or A02 (Double sided)                                                                                                                                   |
| 020G    | If the document code is 08G (Confirmation Notice) and the nomination document code is 01G (Nomination), the nomination type code must A01 (Single sided) or A02 (Double sided)                                                                              |
| 020H    | If the document code is 08G and the nomination document 02G, the nomination type code must A02 (Double sided)                                                                                                                                               |
| 021A    | If the nomination document code is 01G, External_Account is required                                                                                                                                                                                        |
| 021B    | If the nomination document code is 02G, External_Account is required                                                                                                                                                                                        |
| 021C    | If the nomination document code is 03G, External_Account is required                                                                                                                                                                                        |
| 021D    | If the nomination document code is 04G, External_Account must not be used                                                                                                                                                                                   |
| 021E    | The coding scheme for external account must be 305 or ZSO                                                                                                                                                                                                   |
| 021F    | If the coding scheme for external account is 305, the code must be an EIC Account Y code                                                                                                                                                                    |
| 022A    | If the document type code is 04G (Non matching nomination) the external account TSO is not used                                                                                                                                                             |
| 022B    | The coding scheme for external account TSO must be 305                                                                                                                                                                                                      |
| 022C    | The code for external account TSO must be an EIC Party X code                                                                                                                                                                                               |
| 023A    | If document code is 08G (Confirmation notice) and the nomination document type code is 01G (Nomination), four timeseries are required: 14G (Processed by SO), 15G (Processed by adjacent System Operator), 16G (Confirmed) and 18G (Counterpart nomination) |
| 023B    | If the document code is AND (Interruption notice), one and only one timeseries is required: 14G (Processed by SO)                                                                                                                                           |
| 023C    | If the document code is 08G (Confirmation notice) and the nomination document type code is 02G (VTP OTC nomination), two timeseries are required: 16G (Confirmed) and 18G (Counterpart nomination)                                                          |
| 023D    | If the document code is 08G (Confirmation notice) and the nomination document type code is 03G (VTP exchange nomination), one and only one timeseries is required: 16G                                                                                      |

| Rule ID | Constraints                                                                                                                                                                        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | (Confirmed)                                                                                                                                                                        |
| 023E    | If the document code is 08G (Confirmation notice) and the nomination document type code is 04G (Non matching nomination), one and only one timeseries is required: 16G (Confirmed) |
| 025     | In a Period in a ConnectionPoint, the gas direction code must of Z02 or Z03                                                                                                        |
| 027     | In statusCode in Status in Period, use values from code list                                                                                                                       |
| 029     | Decomposition quantity can only be specified if the nomination document code is 01G (Connection point nomination)                                                                  |
| 030     | Quantity code must be one of ZXD (Firm), ZXE (Makeup), ZXF (Interruptible) or ZXG (Conditional)                                                                                    |
| MG-001  | With hourly nominations (KW1), for interval ... found one entry period with volume ... and an exit period with volume ... use net value instead                                    |

### 3.4 DELORD Delivery Order Document

| Rule ID | Constraints                                                                                                                   |
|---------|-------------------------------------------------------------------------------------------------------------------------------|
| 001     | Root element must be DeliveryOrder_Document                                                                                   |
| 002     | Root element namespace must be urn:easee-gas.eu:edigas:SoNominationAndMatching:DeliveryOrderDocument:6:1                      |
| 003A    | The subelement version is mandatory on DELORD                                                                                 |
| 003B    | In a DELORD of type ANC, the version must be 1                                                                                |
| 004     | The document code of a delivery order must be 26G or ANC                                                                      |
| 006A    | In a DELORD of type ANC, if in European Summer Time, the validity period must start at 04:00 hours (beginning of gas day)     |
| 006B    | In a DELORD of type ANC, if not in European Summer Time, the validity period must start at 05:00 hours (beginning of gas day) |

| Rule ID    | Constraints                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------------------|
| 006C       | In a DELORD of type ANC, the validity period must start at 04:00 or 05:00 hours depending on day of the year                  |
| 006D       | In a DELORD of type ANC, if in European Summer Time, the validity period end must be at 04:00 hours (start of gas day)        |
| 006E       | In a DELORD of type ANC, if not in European Summer Time the validity period end must start 05:00 hours (beginning of gas day) |
| 006F       | In a DELORD of type ANC, the validity period must end at 04:00 or 05:00 hours depending on day of the year                    |
| 006G       | In a DELORD of type ANC, the validity period must be 1 day                                                                    |
| 008A       | The coding scheme for issuer market participant must be 305                                                                   |
| 008B       | The code for issuer market participant must be an EIC Party X code                                                            |
| 009        | The issuer must be a ZSO (System Operator)                                                                                    |
| 010A       | The coding scheme for recipient market participant must be 305                                                                |
| 010B       | The code for recipient market participant must be an EIC Party X code                                                         |
| 011        | The recipient must be a ZSO (System Operator)                                                                                 |
| 012A       | If the document code is 26G, singleSidedSource_Document.identification is not used                                            |
| 013A       | If the document code is 26G, singleSidedSource_Document.version element is not used                                           |
| 014A       | If the document code is 26G, singleSidedSource_Document.documentCode is not used                                              |
| 015A       | If the document code is 26G, singleSidedSource_Document.brpOriginator_MarketParticipant.identification is not used            |
| 012B       | If the document code is ANC, singleSidedSource_Document.identification is mandatory                                           |
| 013B       | If the document code is ANC, singleSidedSource_Document.version element is mandatory                                          |
| 014B       | If the document code is ANC, singleSidedSource_Document.documentCode is mandatory                                             |
| 014C-MG-01 | If the document code is ANC, singleSidedSource_Document.documentCode has to be 01G (Nomination)                               |

| Rule ID | Constraints                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 015B    | If the document code is ANC, singleSidedSource_Document.brpOriginator_MarketParticipant.identification is mandatory                              |
| 015C    | The identification coding scheme for brpOriginator_MarketParticipant must be 305                                                                 |
| 015D    | The identification coding for brpOriginator_MarketParticipant must be an EIC Party X code                                                        |
| MG-02   | If the document code is ANC, there must not be more than one Internal_Account                                                                    |
| 016A    | The coding scheme for Connection Point identification must be 305 or ZSO                                                                         |
| 016B    | If the coding scheme for Connection Point identification is 305, the code must be an EIC Measurement Point Z or Y code                           |
| 017     | The coding scheme for units of measure for connection points must be KW1 (Kilowatt-hour per hour (kWh/h)) or KW2 (Kilowatt-hour per day (kWh/d)) |
| 018A    | The coding scheme for internal account must be 305 or ZSO                                                                                        |
| 018B    | If the code scheme for internal account is 305, the code must be an EIC Account Y code                                                           |
| 019A    | The coding scheme for internal account TSO must be 305                                                                                           |
| 019B    | The code for internal account TSO must be an EIC Party X code                                                                                    |
| 020A    | The coding scheme for external account must be 305 or ZSO                                                                                        |
| 020B    | If the coding scheme for external account is 305, the code must be an EIC Account Y code                                                         |
| 021A    | The coding scheme for external account TSO must be 305                                                                                           |
| 021B    | The code for external account TSO must be an EIC Party X code                                                                                    |
| 022A    | In a DELORD there must be one or two time series                                                                                                 |
| 022B    | In a DELORD of type callup notice (26G), there must be two time series                                                                           |
| 022C    | In a DELORD of type callup notice (26G), there must be one 12G time series: Accepted by System Operator                                          |
| 022D    | In a DELORD of type callup notice (26G), there must be one 14G time series: Processed by System Operator                                         |

| Rule ID | Constraints                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 022E    | In a DELORD of type single-side nomination (ANC), there must be one time series                                                                                                |
| 022F    | In a DELORD of type single-side nomination (ANC), there must be one 12G time series:<br>Accepted by System Operator                                                            |
| 022G    | The business code of a time series must be 12G or 14G                                                                                                                          |
| 022H    | In a DELORD of type callup notice (26G), time stamp date time is not used                                                                                                      |
| 023     | In a Period, the gas direction code must of Z02 or Z03                                                                                                                         |
| MG-03   | With hourly nominations (KW1), for interval \$interval, found one entry period with volume ... and an exit period with volume ..., use net value instead                       |
| MG-04   | There is no Period that starts with the validity start ..                                                                                                                      |
| MG-05   | There is no Period that ends with the validity end time ..                                                                                                                     |
| MG-06   | If a period has a start date-time .. that is different from the validity start date-time .., then if the value is in the validity interval .. there must be a preceding Period |
| MG-07   | If a Period has an end date-time .. that is different from the validity end date-time .., then if the value is in the validity interval .. there must be a following Period    |
| MG-08   | For a direction \$gd and start date-time \$start_period, there can only be one Period                                                                                          |
| MG-09   | A Period cannot have a start .. that is the same as the validity end time ..                                                                                                   |

### 3.5 DELRES Delivery Response Document

| Rule ID | Constraints                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------------------|
| 001A    | Root element must be DeliveryResponse_Document                                                              |
| 001B    | Root element namespace must be urn:easee-gas.eu:edigas:SoNominationAndMatching:DeliveryResponseDocument:6:1 |
| 002     | The subelement identification is mandatory on DELRES                                                        |
| 003     | The subelement version is mandatory on DELRES                                                               |
| 004     | The document code of a delivery response must be 27G                                                        |
| 008A    | The coding scheme for issuer market participant must be 305                                                 |
| 008B    | The code for issuer market participant must be an EIC Party X code                                          |

| Rule ID | Constraints                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 009     | The issuer must be a ZSO (System Operator)                                                                                                       |
| 010A    | The coding scheme for recipient market participant must be 305                                                                                   |
| 010B    | The code for recipient market participant must be an EIC Party X code                                                                            |
| 011     | The recipient must be a ZSO (System Operator)                                                                                                    |
| 012A    | The delivery order document identification must be provided                                                                                      |
| 012B    | The delivery order document version must be provided                                                                                             |
| 012C    | If the delivery order document identification is the value 'MISSING', the document version must be 1                                             |
| 014A    | The coding scheme for Connection Point identification must be 305 or ZSO                                                                         |
| 014B    | If the coding scheme for Connection Point identification is 305, the code must be an EIC Measurement Point Z or Y code                           |
| 015     | The coding scheme for units of measure for connection points must be KW1 (Kilowatt-hour per hour (kWh/h)) or KW2 (Kilowatt-hour per day (kWh/d)) |
| 016A    | The coding scheme for internal account must be 305 or ZSO                                                                                        |
| 016B    | If the code scheme for internal account is 305, the code must be an EIC Account Y code                                                           |
| 017A    | The coding scheme for internal account TSO must be 305                                                                                           |
| 017B    | The code for internal account TSO must be an EIC Party X code                                                                                    |
| 018A    | The coding scheme for external account must be 305 or ZSO                                                                                        |
| 018B    | If the coding scheme for external account is 305, the code must be an EIC Account Y code                                                         |
| 019A    | The coding scheme for external account TSO must be 305                                                                                           |
| 019B    | The code for external account TSO must be an EIC Party X code                                                                                    |
| 020A    | In a DELRES there must be three time series                                                                                                      |
| 020B    | In a DELRES there must be one 12G time series: Accepted by System Operator                                                                       |
| 020C    | In a DELRES there must be one 14G time series: Processed by System Operator                                                                      |
| 020D    | In a DELRES there must be one 16G time series: Confirmed                                                                                         |

| Rule ID | Constraints                                                                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 020E    | The business code of a time series must be 12G, 14G or 16G                                                                                                                     |
| 023     | In a Period, the gas direction code must of Z02 or Z03                                                                                                                         |
| 025     | In a Period in a ConnectionPoint, priority status code must be one of 06G 07G 08G 09G 10G 35G 36G 56G                                                                          |
| MG-03   | With hourly nominations (KW1), for interval .., found one entry period with volume .. and an exit period with volume .. use net value instead                                  |
| MG-04   | There is no Period that starts with the validity start date-time ..                                                                                                            |
| MG-05   | There is no Period that ends with the validity end date-time ..                                                                                                                |
| MG-06   | If a period has a start date-time .. that is different from the validity start date-time .., then if the value is in the validity interval .. there must be a preceding Period |
| MG-07   | If a Period has an end date-time .. that is different from the validity end date-time .., then if the value is in the validity interval .. there must be a following Period    |
| MG-08   | For a direction .. and start date-time .. , there can only be one Period                                                                                                       |
| MG-09   | A Period cannot have a start date-time .. that is the same as the validity end date-time ..                                                                                    |

## 4 A20 Edigas 6.1 System Operation

### 4.1 Overview

Process area code A16 relates to the document types in Edig@s 6.1 for the Nomination & Matching processes. The following two documents are covered:

- INVENT

- LIMITS

The following subsections provide an overview of implemented rules for these two documents.

## 4.2 INVENT Inventory Position Document

| Rule ID | Constraints                                                                           |
|---------|---------------------------------------------------------------------------------------|
| 02      | The identification element is mandatory                                               |
| 03      | The version element is mandatory                                                      |
| 04A     | The documentCode element is mandatory                                                 |
| 04B     | The documentCode element must have the value ALV                                      |
| 05      | The creationDateTime element is mandatory                                             |
| 06      | The validityPeriod element is mandatory                                               |
| 07A     | The coding scheme for issuer market participant must be 305                           |
| 07B     | The code for issuer market participant must be an EIC Party X code                    |
| 08      | For market roles, use values from code list                                           |
| 09A     | The coding scheme for recipient market participant must be 305                        |
| 09B     | The code for recipient market participant must be an EIC Party X code                 |
| 10      | Recipient market role code must be ZSH                                                |
| 11A     | The coding scheme for Connection Point identification must be 305 or ZSO              |
| 11B     | If the coding scheme for Connection Point identification is 305                       |
| 12A     | The coding scheme for internalAccount must be 305 or ZSO                              |
| 12B     | If the code scheme for internalAccount is 305, the code must be an EIC Account Y code |
| 13      | For business codes, use values from code list                                         |
| 14      | In time series, use KWH as unit of measure code                                       |
| 17A     | When the time series business code is ZXK, use XPD or ZPE as account direction code   |
| 17B     | When the time series business code is Z47, use ZPE as account direction code          |
| 17C     | When the time series business code is Z48, use ZPD as account direction code          |
| 17D     | When the time series business code is Z49, use ZPD or ZPE as account direction codes  |

| Rule ID | Constraints                                   |
|---------|-----------------------------------------------|
| 18      | For business codes, use values from code list |

### 4.3 LIMITS Limits Document

| Rule ID | Constraints                                                                           |
|---------|---------------------------------------------------------------------------------------|
| 02      | The identification element is mandatory                                               |
| 03      | The version element is mandatory                                                      |
| 04A     | The documentCode element is mandatory                                                 |
| 04B     | The value of documentCode must be ALU                                                 |
| 05      | The creationDateTime element is mandatory                                             |
| 06      | The validityPeriod element is mandatory                                               |
| 08A     | The coding scheme for issuer market participant must be 305                           |
| 08B     | The code for issuer market participant must be an EIC Party X code                    |
| 09      | The marketRole.roleCode of an issuer_MarketParticipant must be one of ZSO, ZUO or ZUS |
| 10A     | The coding scheme for recipient market participant must be 305                        |
| 10B     | The code for recipient market participant must be an EIC Party X code                 |
| 11      | The marketRole.roleCode of a recipient_MarketParticipant must be ZSH                  |
| 12      | The unitOfMeasureCode must be one of KW1, KW2 or KWH                                  |
| 14A     | The coding scheme for Account must be 305                                             |
| 14B     | If the code scheme for Account is 305 and the code must be an EIC Account X code      |
| 21A     | A Limits Document must have two timeseries for an Account                             |
| 21B     | There must be one timeseries for business code Z44 (Upper Limit)                      |
| 21C     | There must be one timeseries for business code Z45 (Lower Limit)                      |
| 22      | Availability code must be Z05 or Z06                                                  |

| Rule ID | Constraints                                            |
|---------|--------------------------------------------------------|
| 24      | In quantityCode in Quantity, use values from code list |
| 25      | For account direction, use values from code list       |
| 26      | For status, use values from code list,                 |