**Nomination Guide**

**for EDIG@S XML 5.1**

GAS STORAGE DENMARK

|  |  |  |  |  |  |
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Contents

[1. Introduction 3](#_Toc20321454)

[1.1 Fall back 3](#_Toc20321455)

[2. Abbreviations 3](#_Toc20321456)

[3. Processes and deadlines 4](#_Toc20321457)

[3.1 Daily nomination and allocation process 4](#_Toc20321458)

[4. Description of EDIGAS document 5](#_Toc20321459)

[4.1 Start 5](#_Toc20321460)

[4.2 Identification 5](#_Toc20321461)

[4.3 Version 5](#_Toc20321462)

[4.4 Type 5](#_Toc20321463)

[4.5 Date format and time intervals 6](#_Toc20321464)

[4.6 CreationDateTime 6](#_Toc20321465)

[4.7 Contract reference 6](#_Toc20321466)

[4.8 Validity period 6](#_Toc20321467)

[4.9 Market participants 7](#_Toc20321468)

[4.9.1 Market participant identification 7](#_Toc20321469)

[4.9.2 Market participant role 7](#_Toc20321470)

[4.10 Connection Point 7](#_Toc20321471)

[4.11 Measure Unit Code 7](#_Toc20321472)

[4.12 Nomination type 8](#_Toc20321473)

[4.13 Internal Account 8](#_Toc20321474)

[4.14 External Account 8](#_Toc20321475)

[4.15 Time interval 8](#_Toc20321476)

[4.16 Direction 8](#_Toc20321477)

[4.17 Quantity 8](#_Toc20321478)

[5. Documents from Storage Customer to GSD 9](#_Toc20321479)

[5.1 NOMINT example 9](#_Toc20321480)

[6. Documents from GSD to the Storage Customer 10](#_Toc20321481)

[6.1 NOMRES: Nomination response 10](#_Toc20321482)

[6.1.1 NOMRES 08G example 10](#_Toc20321483)

[6.2 Daily allocation documents 11](#_Toc20321484)

[6.2.1 MARSIT 96G(95G) example 11](#_Toc20321485)

[6.3 Storage account position 11](#_Toc20321486)

[6.3.1 MARSIT 94G example 12](#_Toc20321487)

[6.4 Acknowledgement from GSD 12](#_Toc20321488)

[6.4.1 ACKNOW 294 examples 12](#_Toc20321489)

[7. XML 5.1 document check 13](#_Toc20321490)

[8. References 13](#_Toc20321491)

# **Introduction**

This nomination guide describes in detail the content of Edig@s XML 5.1 messages between Storage Customers and Gas Storage Denmark (GSD).

The following Edigas XML 5.1 documents are used:

NOMINT NOMination INTention (detailed description)

NOMRES NOMomination RESponse

MARSIT MARket SITuation

ACKNOW ACKNOWledge

In generally, Storage Customers may exchange operational messages with GSD by one of following two methods:

1. Edig@s messages in XML 5.1 format (or XML 4 format[[1]](#footnote-1)) by using the AS2 or AS4 protocol for transfer and security; and/or
2. GSD’s Online System.

For exchanging Edig@s XML 5.1 messages GSD uses the AS2 or AS4 protocol.

Using a combination of Edig@s XML 4.0 and Edig@s XML 5.1 is not possible.

In case of introduction of a new version of Edig@s or new type of messages, GSD shall inform the Storage Customers in due time prior to the go-live date.

All message examples shown are non-binding. For reference when coding, see the Message Implementation Guides valid at any time and published on www.edigas.org.

## **Fall back**

If the storage customer is not able to send any Edig@s NOMINT messages, the only other option is to use GSD’s Online System https://gasstorage.dk/Customer.

# **Abbreviations**

The following abbreviations have been used.

|  |  |
| --- | --- |
| LT000XXX | Internal storage customer number with Gas Storage Denmark A/S |
| DS000XXX | Code of Danish balance responsible party issued by Energinet Gas TSO A/S |
| EIC | Energy Identification Code given by ENTSO-G or LIO (Local Issuing Office) |
| UTC | Universal Time Coordinated. Used for all day and time fields. |

# **Processes and deadlines**

## **Daily nomination and allocation process**

Figure 1 below is a graphic overview of the daily nomination and allocation processes, followed by a description of each message type:



Figure 1 - ACKNOW not shown in the Figure 1

|  |  |
| --- | --- |
| Message type | Description |
| NOMINT 01G | An initial nomination in respect of a gas day must be received before 14.00 on the previous gas day. After this deadline, the Storage Customer may send a re-nomination NOMINT 01G every hour with a lead time of 2 hours (according to EASEE gas CBP 2009-03-03). The Storage Customer may send a re-nomination without initial nomination. |
| NOMRES 08G | After receiving NOMINT from the Storage Customer and after the nomination has been matched with Energinet TSO, GSD sends NOMRES 08G to the Storage Customer. A new NOMRES 08G will be sent every time there has been a change in the matched result. |
| MARSIT 96G/95G | GSD sends a MARSIT message to the Storage Customer containing the hourly allocations for the gas day. The message will be sent before 08.00 on the day after each ended gas day.  |
| MARSIT 94G | After the MARSIT 96G/95G, GSD sends a MARSIT 94G to notify the Storage Customer of his end-of-day storage position.  |
| ACKNOW 294 | Within 10 minutes after receival, GSD sends an ACKNOW message in response to any received message.Correspondingly, GSD expects to receive an ACKNOW message within 10 minutes after any sent message. |

A daily nomination is required. If no nomination is submitted before 14:00 the gasday before, a nomination is created according to the setup of the Storage Customer:

* Zero creation. All quantities are set to 0 (default).
* Copy from the last NOMINT received.

# **Description of EDIGAS document**

The following describes the various tags used in the EDIGAS documents. As most fields are reused in various documents the description is generic. The examples are from a NOMINT when nothing else is stated.

## **Start**

The two lines below are the mandatory start of a nomination document.

<?xml version="1.0" encoding="UTF-8"?>

<Nomination\_Document release="3" xmlns="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

## **Identification**

The nomination document identification must be unique.

<identification>NOMINT</identification>

## **Version**

First document starts with version ‘1’. Version number in subsequent messages must be incrementally increased.

<version>1</version>

Versions that have been already received will be rejected.

## **Type**

Nomination type must always be 01G

<type>01G</type>

## **Date format and time intervals**

UTC date time format is used for all date and time fields. General xml format must be used.

The time interval of a nomination period requires at least one full gas day. More than one full gas day is allowed as long as the message represents multiples of gas days.

Examples:

|  |  |  |
| --- | --- | --- |
| Gas day | UTC | Time of year |
| 06.00 – 06.00 | 05.00 – 05.00 | During standard time (“winter time”)(24-hour gas day) |
| 06.00 – 06.00 | 05.00 – 04.00 | During change from official standard time to daylight saving time(23-hour gas day) |
| 06.00 – 06.00 | 04.00 – 04.00 | During daylight saving time (24-hour gas day) |
| 06.00 – 06.00 | 04.00 – 05.00 | During change from official daylight-saving time to winter standard time(25-hour gas day) |

## **CreationDateTime**

CreationDateTime is to be filled out as follows:

<creationDateTime>2017-05-18T06:26:01Z</creationDateTime>

## **Contract reference**

Contract reference must be the Storage Customer’s customer code supplied by GSD.

<contractReference>LT000XXX</contractReference>

## **Validity period**

Validity period must contain the same time interval as the sum of the time intervals (from the first hour to and the last hour).

<validityPeriod>2017-05-19T04:00Z/2017-05-20T04:00Z</validityPeriod>

## **Market participants**

### Market participant identification

GSD uses the EIC code as the only identification of a Storage Customer:

|  |  |  |
| --- | --- | --- |
| Party | Edig@s Party identifier code  | Coding scheme |
| Gas Storage Denmark A/S | 21X000000001104T | 305 |
| Storage Customer | EIC | 305 |

A Storage Customer must nominate using his EIC-code. An EIC-code can be acquired by application to the Danish LIO office at eic-administration@energinet.dk

<issuer\_MarketParticipant.identification codingScheme="305">00X0000000000000</issuer\_MarketParticipant.identification>

<recipient\_MarketParticipant.identification codingScheme="305">21X000000001104T</recipient\_MarketParticipant.identification>

### Market participant role

Issuer\_Market Participant Role is the role of the sender. It is either GSD or Storage Customer.

Storage Customer: <issuer\_MarketParticipant.marketRole.code>ZSH</issuer\_MarketParticipant.marketRole.code>

GSD: <recipient\_MarketParticipant.marketRole.code>ZSO</recipient\_MarketParticipant.marketRole.code>

## **Connection Point**

GSD only allows coding scheme 305 for identifying the connection point. The available connection point is:

|  |  |  |
| --- | --- | --- |
| Location | Connection point EIC  | Coding scheme |
| Gas Storage Denmark A/S Virtual storage point | 45W000000000112V  | 305 |

<identification codingScheme="305">45W000000000112V</identification>

## **Measure Unit Code**

The only measuring unit allowed is KW1 (kWh/h) for all documents except MARSIT 94G which uses KWH

<measureUnit.code>KW1</measureUnit.code>

## **Nomination type**

The nomination type Storage Customers nomination to GSD is set to A02:

<type>A02</type>

## **Internal Account**

The internalAccount is set to the Storage Customer identification.

<internalAccount codingScheme="ZSO">LT000XXX</internalAccount>

## **External Account**

The external account identification must be the Shipper Code of Storage Customers Balance Responsible Party in the Transmission system:

<externalAccount codingScheme="ZSO">DS000YYY</externalAccount>

## **Time interval**

Please see chapter 4.5 for identifying days and hours.

It is acceptable to send a nomination for one-hour-interval or any other period if all hours in the period are included in the message time interval (e.g. up to 23, 24 or 25 periods in 1-hour intervals). There must be no overlapping hours. The recommendation is always to send for one complete gas day and not for a multiplum of gas days.

Nomination for one gas day:

<TimeInterval>2017-10-09T04:00Z/2017-10-10T04:00Z</TimeInterval>

## **Direction**

The Storage Customer must send a nomination direction as seen from GSD’s point of view:

The direction is given by the codes:

 Z02: injection into GSD

 Z03: withdrawal from GSD

If the nomination value is 0 (Zero), the direction code can be either Z02 or Z03

<direction.code>Z02</direction.code>

## **Quantity**

Quantity is the injection or withdrawal of gas. Values must be either positive or zero. Negative values are not allowed.

<quantity.amount>1000</quantity.amount>

# **Documents from Storage Customer to GSD**

## NOMINT Example – compressed 24 hour nomination

Nomination\_Document release="3" xmlns="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1">

<identification>NOMINTXXXXX</identification>

<version>1</version>

<type>01G</type>

<creationDateTime>2018-05-03T05:22:00Z</creationDateTime>

<validityPeriod>2018-05-04T04:00Z/2018-05-05T04:00Z</validityPeriod>

<contractReference>LT000XXX</contractReference>

<issuer\_MarketParticipant.identification codingScheme="305">00X0000000000000</issuer\_MarketParticipant.identification>

<issuer\_MarketParticipant.marketRole.code>ZSH</issuer\_MarketParticipant.marketRole.code>

<recipient\_MarketParticipant.identification codingScheme="305">21X000000001104T</recipient\_MarketParticipant.identification>

<recipient\_MarketParticipant.marketRole.code>ZSO</recipient\_MarketParticipant.marketRole.code>

<ConnectionPoint>

<identification codingScheme="305">45W000000000112V</identification>

<measureUnit.code>KW1</measureUnit.code>

<NominationType>

<type>A02</type>

<Account>

<internalAccount codingScheme="ZSO">LT000XXX</internalAccount>

<externalAccount codingScheme="ZSO">DS0YYY</externalAccount>

<Period>

<timeInterval>2018-05-04T04:00Z/2018-05-05T04:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>1400</quantity.amount>

</Period>

</Account>

</NominationType>

</ConnectionPoint>

</Nomination\_Document>

## **NOMINT Example full 24 hour nomination**

<?xml version="1.0" encoding="utf-8"?>

<Nomination\_Document release="" xmlns="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:easeegas.eu:edigas:nominationandmatching:nominationdocument:5:1 file://energinet.local/userdata/Users06/hkj/Documents/XML51\_201908/edigasv51upd12/EAP-Schemas/03-NominationAndMatching-schemas/NominationDocument.xsd">

<identification>NOMINTXXXXXX</identification>

<version>2</version>

<type>01G</type>

<creationDateTime>2018-07-03T21:00:00Z</creationDateTime>

<validityPeriod>2019-07-05T04:00Z/2019-07-06T04:00Z</validityPeriod>

<contractReference>LT000XXX</contractReference>

<issuer\_MarketParticipant.identification codingScheme="305">00X0000000000000</issuer\_MarketParticipant.identification>

<issuer\_MarketParticipant.marketRole.code>ZSH</issuer\_MarketParticipant.marketRole.code>

<recipient\_MarketParticipant.identification codingScheme="305">21X000000001104T</recipient\_MarketParticipant.identification>

<recipient\_MarketParticipant.marketRole.code>ZSO</recipient\_MarketParticipant.marketRole.code>

<ConnectionPoint>

<identification codingScheme="305">45W000000000112V</identification>

<measureUnit.code>KW1</measureUnit.code>

<NominationType>

<type>A02</type>

<Account>

<internalAccount codingScheme="ZSO">LT000003</internalAccount>

<externalAccount codingScheme="ZSO">DS000007</externalAccount>

<Period>

<timeInterval>2019-07-05T04:00Z/2019-07-05T05:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

<Period>

<timeInterval>2019-07-05T05:00Z/2019-07-05T06:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

<Period>

<timeInterval>2019-07-05T06:00Z/2019-07-05T07:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

<Period>

<timeInterval>2019-07-05T07:00Z/2019-07-05T08:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

<Period>

<timeInterval>2019-07-05T08:00Z/2019-07-05T09:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

<Period>

<timeInterval>2019-07-05T09:00Z/2019-07-05T10:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

<Period>

<timeInterval>2019-07-05T10:00Z/2019-07-05T11:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

……

……

<Period>

<timeInterval>2019-07-06T02:00Z/2019-07-06T03:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

<Period>

<timeInterval>2019-07-06T03:00Z/2019-07-06T04:00Z</timeInterval>

<direction.code>Z03</direction.code>

<quantity.amount>780190</quantity.amount>

</Period>

</Account>

</NominationType>

</ConnectionPoint>

</Nomination\_Document>

# **Documents from GSD to the Storage Customer**

## **NOMRES: Nomination response**

GSD receives NOMINT messages from Storage Customer and responds by returning a NOMRES message to each received NOMINT. In addition, each time GSD matches Storage Customers nomination with the corresponding nomination received by Energinet TSO, GSD sends a NOMRES to the Storage Customer.

GSD will send a NOMRES message with a reference to the received NOMINT. When no NOMINT can be established as reference to the NOMRES, the reference will be established as “DEFAULT”. This is the case when:

* Storage Customer has used Online for nomination (Web nomination).
* GSD has performed a manual correction(s) of the Storage Customers nomination (e.g. in case of mismatch, IT-malfunction on Storage Customers side or due to a telephone agreement between Storage Customer and GSD)

<nomination\_Document.identification>DEFAULT</nomination\_Document.identification>

<nomination\_Document.version>1</nomination\_Document.version>

### NOMRES 08G example

<?xml version="1.0" encoding="UTF-8"?>

<NominationResponse\_Document release="3" xmlns="urn:easeegas.eu:edigas:nominationandmatching:nominationresponsedocument:5:1">

<identification>NOMRES10700974</identification>

<version>1</version>

<type>08G</type>

<creationDateTime>2019-08-11T12:30:15Z</creationDateTime>

<validityPeriod>2019-08-12T04:00Z/2019-08-13T04:00Z</validityPeriod>

<contractReference>LT000XXX</contractReference>

<issuer\_MarketParticipant.identification codingScheme="305">21X000000001104T</issuer\_MarketParticipant.identification>

<issuer\_MarketParticipant.marketRole.code>ZSO</issuer\_MarketParticipant.marketRole.code>

<recipient\_MarketParticipant.identification codingScheme="305">00X0000000000000</recipient\_MarketParticipant.identification>

<recipient\_MarketParticipant.marketRole.code>ZSH</recipient\_MarketParticipant.marketRole.code>

<nomination\_Document.identification>DEFAULT</nomination\_Document.identification>

<nomination\_Document.version>1</nomination\_Document.version>

<ConnectionPoint>

<identification codingScheme="305">45W000000000112V</identification>

<measureUnit.code>KW1</measureUnit.code>

<NominationType>

<type>A02</type>

<Account>

<internalAccount codingScheme="ZSO">LT000XXX</internalAccount>

<externalAccount codingScheme="ZSO">DS000YYY</externalAccount>

<InformationOrigin\_TimeSeries>

<type>16G</type>

<Period>

<timeInterval>2019-08-12T04:00Z/2019-08-13T04:00Z</timeInterval>

<direction.code>Z02</direction.code>

<quantity.amount>50000</quantity.amount>

</Period>

</InformationOrigin\_TimeSeries>

</Account>

</NominationType>

</ConnectionPoint>

</NominationResponse\_Document>

## **Allocation documents**

Allocations to the Storage Customer is sent in a MARSIT document after the gas day before 08:00 o’clock.

The MARSIT message has document type 95G or 96G:

* 96G The allocations have been confirmed by the TSO
* 95G The allocations are preliminary as they have not been confirmed by the TSO yet. The Storage Customer should though act upon the 95G in the same way as 96G.

### MARSIT 96G/95G example

<MarketSituation\_Document xmlns="urn:easee-gas.eu:edigas:marketsituation:marketsituationdocument:5:1:5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:easee-gas.eu:edigas:marketsituation:marketsituationdocument:5:1:5">

<identification>MARSIT8426251</identification>

<version>1</version>

<type>95G</type>

<creationDateTime>2018-09-28T05:45:29Z</creationDateTime>

<validityPeriod>2018-09-25T04:00Z/2018-09-26T04:00Z</validityPeriod>

<issuer\_MarketParticipant.identification codingScheme="305">21X000000001104T</issuer\_MarketParticipant.identification>

<issuer\_MarketParticipant.marketRole.code>ZSO</issuer\_MarketParticipant.marketRole.code>

<recipient\_MarketParticipant.identification codingScheme="305">00X0000000000000</recipient\_MarketParticipant.identification>

<recipient\_MarketParticipant.marketRole.code>ZSH</recipient\_MarketParticipant.marketRole.code>

<ConnectionPoint>

<identification codingScheme="305">45W000000000112V</identification>

<Account>

<identification codingScheme="ZSO">LT000XXX</identification>

<type>ZOE</type>

<externalAccount codingScheme="ZSO">DS000YYY</externalAccount>

<TimeSeries>

<type>Z01</type>

<measureUnit.code>KW1</measureUnit.code>

<Period>

<timeInterval>2018-09-25T04:00Z/2018-09-26T04:00Z</timeInterval>

<Quantity>

<direction.code>Z02</direction.code>

<amount>11110</amount>

</Quantity>

</Period>

</TimeSeries>

</Account>

</ConnectionPoint>

</MarketSituation\_Document>

## **Storage account position**

The Storage Customer receives a MARSIT 94G the about Storage Customer’s inventory of stored gas ultimo the gasday. The MARSIT has type 94G and is sent before 8.00 o’clock after the gasday.

### MARSIT 94G example

<?xml version="1.0" encoding="UTF-8"?>

<MarketSituation\_Document xmlns="urn:easee-gas.eu:edigas:marketbalancing:marketsituationdocument:5:1:5" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:easee-gas.eu:edigas:marketbalancing:marketsituationdocument:5:1:5 file://energinet.local/userdata/Users06/hkj/Documents/XML51\_201908/edigasv51upd12/EAP-Schemas/10-MarketSituation/urn-easee-gas-eu-edigas-marketbalancing-marketsituationdocument-5-1-5a.xsd">

<identification>MARSIT213244</identification>

<version>1</version>

<type>94G</type>

<creationDateTime>2019-08-11T12:30:15Z</creationDateTime>

<validityPeriod>2019-08-12T04:00Z/2019-08-13T04:00Z</validityPeriod>

<issuer\_MarketParticipant.identification codingScheme="305">21X000000001104T</issuer\_MarketParticipant.identification>

<issuer\_MarketParticipant.marketRole.code>ZSO</issuer\_MarketParticipant.marketRole.code>

<recipient\_MarketParticipant.identification codingScheme="305">00X0000000000000</recipient\_MarketParticipant.identification>

<recipient\_MarketParticipant.marketRole.code>ZSH</recipient\_MarketParticipant.marketRole.code>

<ConnectionPoint>

<identification codingScheme="305">45W000000000112V</identification>

</ConnectionPoint>

<Account>

<identification codingScheme="ZSO">LT000XXX</identification>

<type>ZOE</type>

<TimeSeries>

<type>ZXK</type>

<measureUnit.code>KWH</measureUnit.code>

<Period>

<timeInterval>2019-08-12T04:00Z/2019-08-13T04:00Z</timeInterval>

<status.code>05G</status.code>

<accountDirection.Code>ZPD</accountDirection.Code>

<Quantity>

<direction.code>Z02</direction.code>

<amount>100000</amount>

</Quantity>

</Period>

</TimeSeries>

</Account>

</MarketSituation\_Document>

## **Acknowledgement from GSD**

GSD responds to a received message by returning an acknowledgement (ACKNOW) with the processing status of the received document.

### ACKNOW 294 examples

Example of positive acknowledgement sent from GSD to the Storage Customer:

<identification>ACKNOW20181210A008782431</identification>

<version>1</version>

<type>294</type>

<creationDateTime>2018-12-10T14:44:30Z</creationDateTime>

<issuer\_MarketParticipant.identification codingScheme="305">21X000000001104T</issuer\_MarketParticipant.identification>

<issuer\_MarketParticipant.marketRole.code>ZSO</issuer\_MarketParticipant.marketRole.code>

<recipient\_MarketParticipant.identification codingScheme="305">00X0000000000000</recipient\_MarketParticipant.identification>

<recipient\_MarketParticipant.marketRole.code>ZSH</recipient\_MarketParticipant.marketRole.code>

<receiving\_Document.identification>NOMINT20181209270767</receiving\_Document.identification>

<receiving\_Document.version>1</receiving\_Document.version>

<receiving\_Document.type>01G</receiving\_Document.type>

<receiving\_Document.creationDateTime>2018-12-10T14:40:05Z</receiving\_Document.creationDateTime>

[<Reason>](http://as313.energinet.local:8888/GTMS/GTMSFileShare/GTMS_WORK/GTMSP_FilUd_GTMSACKNOW20181210A008782431.xml)

<code>01G</code>

</Reason>

</Acknowledgement\_Document>

The message is read, checked and understood.

<code>01G</code>

The example below is a negative ACKNOW 294 sent from GSD as a response to a NOMINT:

<?xml version="1.0" encoding="utf-8"?>

<Acknowledgement\_Document release="1" version="Edigas5.1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="urn-easee-gas-eu-edigas-general-acknowledgementdocument-5-1.xsd">

<identification>ACKNOW20180504A000000001</identification>

<version>1</version>

<type>294</type>

<creationDateTime>2018-07-27T11:54:14Z</creationDateTime>

<issuer\_MarketParticipant.identification codingScheme="305">21X000000001104T</issuer\_MarketParticipant.identification>

<issuer\_MarketParticipant.marketRole.code>ZSO</issuer\_MarketParticipant.marketRole.code>

<recipient\_MarketParticipant.identification codingScheme="305">00X0000000000</recipient\_MarketParticipant.identification>

<recipient\_MarketParticipant.marketRole.code>ZSH</recipient\_MarketParticipant.marketRole.code>

<receiving\_Document.identification>NOMINTXXXXX</receiving\_Document.identification>

<receiving\_Document.version>1</receiving\_Document.version>

<receiving\_Document.type>01G</receiving\_Document.type>

<receiving\_Document.creationDateTime>2018-05-03T05:22:00Z</receiving\_Document.creationDateTime>

<Reason>

<code>68G</code>

<text>Validity period must cover one or more complete gas days.</text>

</Reason>

<Reason>

<code>68G</code>

<text>File was received too late</text>

</Reason>

</Acknowledgement\_Document>

# **EDI@as 5.1 communication test**

The test of the communication procedure consists of positive test of all documents described in this guide.

Furthermore, the setup requires a full positive test of connecting via AS2 or AS4.

Contact GSD’s Back Office for scheduling a communication test by mail sent to backoffice@energinet.dk.

# **References**

Edigas.org Message Implementation Guide for XML 5.1.

Link: http://www.edigas.org/download/105/

1. cf. Nomination Guide on https://gasstorage.dk/Contact-and-communication [↑](#footnote-ref-1)