



**E-CONTROL**

# **Gas Market Code**

## **Chapter 3**

### **Nominations and schedules**

Gas Market Rules

Version 9 – September 2017

applies from 6.00 hrs on 1 February 2018

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# 1 Introduction

The following description of data exchanges is an excerpt of the **data exchanges of balance responsible parties (BRPs) relevant to balancing and capacity** with the corresponding system roles as defined in Chapter 2 of the gas market code.

Following the introduction of the entry/exit system in the eastern market area (eastern MA), BRPs inject or withdraw gas in each balance group (BG) by means of nominations at transmission level or by means of schedules at distribution level. Transfers of ownership rights between BGs are nominated by the BRPs at the virtual trading point (VTP).<sup>1</sup>

For that purpose, four categories of data exchange are of relevance:

## **Nominations and schedules (section 3):**

The BRP informs the respective system operator of the intended injection into or withdrawal from its system and, in the case of the VTP, of transfers of ownership rights (title transfer service).

## **Confirmations of nominations and schedules (section 4):**

The respective system operators establish for each BG the confirmable injections and withdrawals and the title transfers at the VTP in a validation and matching process, and inform the BRP of the result by means of a nomination/schedule confirmation.

## **Allocation information for market area balancing (section 5):**

The respective system operators send the BRP once daily on D+1 the BG allocations that result from the confirmed (re)nominations and schedule messages.

## **Information on imbalances (section 6):**

Following that, the system operators submit the confirmed nominations and schedule messages and the net allocated VTP transactions<sup>2</sup> to the market area manager (MAM) for clearing. On this basis, the MAM calculates the imbalance in each BG and informs the BRP.

In addition, the BRP receives feedback, where appropriate by means of an **acknowledgement message (section 7)**, from the system operator regarding problems that occurred when the message was processed.

For points without an operational balancing agreement (OBA) (i.e. connections of consumers and biogas facilities as well as cross-border interconnection points at distribution level), it is the clearing and settlement agent (CSA) that determines deviations between the confirmed schedules and the metered or calculated withdrawals and injections. It receives the required information from the distribution system operators (DSOs) (meter readings, SLP consumptions) and from the distribution area manager (DAM) (confirmed schedules); the corresponding information on the financial settlement of imbalance charges in the BGs is submitted to the BRP by the CSA during the 1st and 2nd clearings (see GTC CSA or the corresponding chapters of the market code).

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<sup>1</sup> Data exchange in respect of exchange trades (i.e. placement of orders, executed orders, clearing house nominations etc.) is not part of this chapter of the gas market code.

<sup>2</sup> For each BG, the balance of the OTC transfers of ownership rights nominated by the BRP and confirmed (confirmed trade nominations) and the exchange trades executed by the BRP (single-sided nomination by the clearing house)

In line with section 34(2) *Gas-Marktmmodell-Verordnung* (Gas Market Model Ordinance) 2012 as most recently amended, the contract parties may agree to exchange information through a web-based platform.

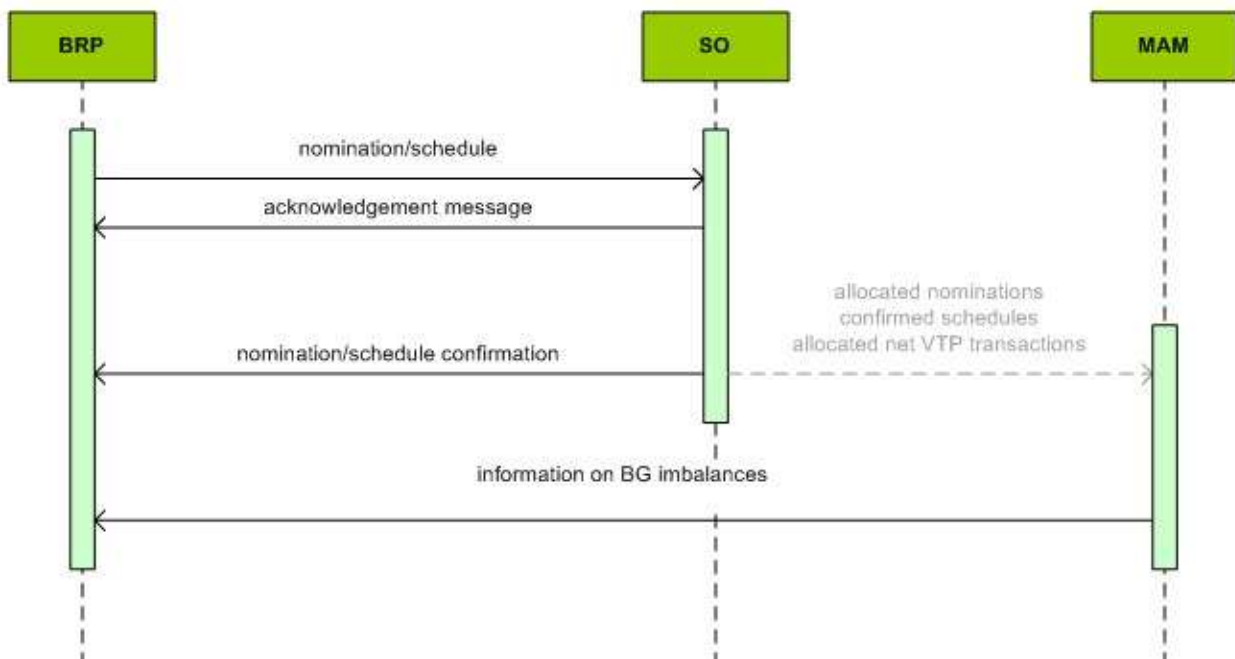
## 2 Basic requirements for the exchange of messages

### 2.1 General procedure for the exchange of messages

All quantities in the described messages must be given in energy units (kWh or kWh/h).

Directions always refer to the viewpoint of the BG.

Note: the description of the data exchange between system operators and MAM is not part of this chapter of the gas market code.



### 2.2 Transmission of data

Data transmission must comply with the times and deadlines defined in chapter 2 of the gas market code.

Pursuant to Article 21 Interoperability Network Code (INT NC),<sup>3</sup> all communication between TSOs or the VTP operator and BRPs must use the Edig@s-XML format and the AS4 transmission protocol from **1 February 2018**. For further messages exchanged, chapter 2 of the gas market code for the eastern market area provides that the following alternative channels may be agreed with the system operators:

SMTP (e-mail)

AS2

SMTP (e-mail), optional for the distribution area

sFTP, optional for the distribution area

<sup>3</sup> Commission Regulation (EU) 2015/703 of 30 April 2015 establishing a network code on interoperability and data exchange rules

The specific requirements for establishing and testing such channels are available in the latest valid connection templates on the websites of the respective system operators.

## 2.3 Use of EIC codes

If in this document or in examples reference is made to EIC codes, such reference always refers to the “long version”. Using the “alias” (“display name”) is not foreseen in the exchange of messages.

Pursuant to the coding scheme, two types of EIC codes are to be distinguished:

x code: identification code of partners/undertakings

y code: identification code of balance groups or balancing sub-accounts

Further information on the structure, issuance and use of EIC codes is available on the website of the MAM (<http://www.gasconnect.at/en/Market-Area-Manager>), on the website of ENTSO-E ([www.eiccodes.eu](http://www.eiccodes.eu)), and on the website of the respective system operator.

## 2.4 Format standard EDIG@S

For EDIG@S messages, EDIG@S version 4.0 is applied; the application specification is based on the corresponding message implementation guidelines (MIG). The documentation is available at <http://www.edigas.org/version-4/>.

The structure of EDIG@S messages must comply with XML syntax. For XML syntax examples, please contact the respective system operator.

For single-sided nominations towards TSOs (i.e. for nominations of bundled capacity pursuant to Article 19(7) Regulation (EU) No 984/2013), EDIG@S version 5.1 is applied, as this is designed to be used for single-sided nominations.

EDIG@S version 5.1 includes an optional interruption notice that is sent to the BRP in case of curtailments.

The documentation is available at <http://www.edigas.org/version-5/>.

## 2.5 Format standard KISS-A

Edig@s-XML through AS4 is the default data format. Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

All KISS-A files must be provided as a Microsoft Excel file type (\*.xls or \*.xlsx); processing is guaranteed up to Microsoft Excel 2010 Version 14.

The aim of the current KISS-A specification is to come as close as possible to the EDIG@S specifications and, at the same time, to keep the efforts necessary to change existing systems to a minimum.

In line with Article 23 Interoperability Network Code (IO NC), E-Control consulted the system users and then approved that the market players may continue to use the format standard KISS-A until 31 January 2018.

### 2.5.1 Requirements for the information sheet

In the “INFO” spreadsheet, the sender must enter general information on the nomination/schedule:

In cell A1, the name of the spreadsheet (“INFO”) is to be entered. The name in cell A1 must start with a capital letter, the other letters can be in upper or lower case.

Cell C1 gives the date of the gas day to which the nomination/schedule applies. Dates must always be given in the following format: two digits each for the day and month, and four digits for the year, separated by points (DD.MM.YYYY; German notation).

The e-mail address of the sending BRP is to be entered in cell C3, the name of the processing person at the BRP in cell C4, the telephone number of the processing person at the BRP in cell C5 (optionally the fax number in cell C6) and the EIC code of the BRP in cell C7.

	A	B	C
1	<b>INFO</b>	<b>Gas Day</b>	27.01.2013
2			
3		<b>E-Mail-Address</b>	<a href="mailto:Musterfirma@bgv.at">Musterfirma@bgv.at</a>
4		<b>Contact</b>	Max Mustermann
5		<b>Phone Number</b>	+43 000 123 456 78
6		<b>Fax Number</b>	+43 000 123 456 79
7		<b>EIC-Code Balance Responsible Party</b>	25X-BGV1-----D

### 2.5.2 Requirements for the data sheet

The following provides general information on the structure of the data sheet of a KISS-A form. The KISS-A application specifications, sections 3 to 5, contain further details.

The columns A and B of a KISS-A data sheet are predetermined areas. The sender must not make any changes to the predetermined text. The columns to the right are **data columns**. Nominations or schedule values must be entered in these columns, in compliance with the requirements of section 2.5.3.

A data column consists of four areas:

The first area, identical with row 1, is the **date area**. The date of the gas day specified in this area must be identical in every data column and must be given in the format DD.MM.YYYY.

Below the date area is the **address area**. The parameters in these eight rows (rows 2 to 9) are used to specify whom a nomination / a schedule / a message is addressed to (see KISS-A application specifications in sections 3 to 5).

Below the address area follows a five-row **comment area** (rows 10 to 14). The sender can make additional entries here. Also identifiers (e.g. status) agreed on with the respective system operator may be entered here.

From row 18, the comment area is followed by the **value area** of the data column. Here, the schedule values for the respective gas day, i.e. the 24 hour values, are entered. For special requirements on clock change days, see section 2.5.5.

Note: the rows containing the daily total just serve for information purposes and are not processed by the recipient of the nomination/schedule.



	A	B	C	D
1	NOMINT	DTM (date)	15.08.2013	15.08.2013
2	STS (priority)			
3	NAD (internal shipper)			
4	LOC (location)			
5	NAD (external shipper)			
6	RFF (reference)			
7	QTY (direction)			
8	Version			
9	NOMRES-Revision			
10	Comments			
11				
12				
13				
14				
15	checksum	kWh	24	24
16				
17	FROM	TO	kWh	kWh
18	06:00	07:00	1	1
19	07:00	08:00	1	1

### 2.5.3 Requirements for filling in the forms

When filling in the data columns of the KISS-A forms, certain requirements must be complied with in order to allow automated data processing. These include:

- a) One form per gas day: the BRP must submit one complete KISS-A form per gas day.
- b) Text entries must not contain umlauts.
- c) The data area must be filled in from the left to the right without any empty columns because the first empty column is a criterion for discontinuing the process, i.e. automated processing will stop there.
- d) The direction is not defined by a sign, but by the direction identifier (e.g. Z02 or Z03) in the field “QTY (direction)” (row 7). As one direction must be chosen for an entire time series, in some cases two time series must be submitted.
- e) The smallest energy unit that can be handled in the exchange of messages is 1 kWh; decimal places are not permitted.
- f) The value area of a data column may not include any empty cells. The values must always be  $\geq 0$ : empty cells in the value area leave room for interpretation (does this mean that the value is zero or that the previous value continues?), which is why only positive values equal to or greater than zero are permitted in this area.
- g) Formulae and macros must be removed before sending: formulae in the forms, in particular formulae connecting several sheets or files, can hamper automatic processing. The same applies to macros because they pose a risk of spreading viruses.
- h) Version numbers in a data column must be assigned on the basis of a uniform convention. The following applies: the version number starts from 1 every day and must be contained in every data column and in the file name. With every change (and only then), the version number in the file name is incremented by 1, and the changed data columns are marked with this new number. As a rule, assigning the version number is the responsibility of the BRP. If the latter wishes to change a transaction already notified, it must change the ver-

sion number in line with the described convention; if the version number is not changed, the system operator interprets the transaction as unchanged.

**Requirements for filling in the forms**

Version numbering

- The version number starts from 1 every day.
- It must be contained in every data column and in the file name.
- With every change, the version number in the file name is incremented by 1 and the changed or new data columns are marked with this new number.
- Example:

	Version number			
	File	Transaction A	Transaction B	Transaction C
First message	01	1	1	n/a
Transaction B changes	02	1	2	n/a
Transaction A changes	03	3	2	n/a
New transaction C	04	3	2	4

- i) The information contained in a KISS-A form may not be reduced in scope in case a transaction is changed or cancelled. This means that if, for example, a transaction in a column has been submitted for a gas day and the transaction is later cancelled, the relevant column may not simply be deleted for that day but must be zeroed out and kept until the end of the gas day in question.
- j) The two rows containing the daily total (rows 15 and 42) are for information only (requirement (g) applies). The values relevant to all nomination, matching and balancing processes are always the hour values.

**2.5.4 Requirements for e-mail messages**

For KISS-A forms submitted by e-mail, internet mail with the SMTP protocol is used. E-mails are to be authenticated and optionally encrypted in consultation with the respective system operator and by means of S/MIME. Any certificates required for the respective data e-mail address must be applied for. After installation of the certificates in the e-mail clients, an exchange of the public keys by sending an authenticated e-mail is required in order to enable encryption or electronic signature.

The subject line of each e-mail message must contain an unambiguous identification, which is described in more detail in the respective chapter.

**2.5.5 Time references, change between summer time and winter time**

Time references in KISS-A are always references to CET (Central European Time) or CEST (Central European Summer Time).

Change from CEST→CET: the clocks are changed from winter to summer time on the last Sunday in March of each year; this means the clocks are put forward from 02:00 a.m. to 03:00 a.m. on the Sunday morning. In the KISS-A form, this “missing” hour, i.e. the time from 02:00 a.m. to 03:00 a.m., is filled with the value “0”. On that day, the value area in the data columns still contains 24 hour values so that a standard KISS-A form can be used:

	A	B	C
33	21:00	22:00	1
34	22:00	23:00	1
35	23:00	00:00	1
36	00:00	01:00	1
37	01:00	02:00	1
38	02:00	03:00	0
39	03:00	04:00	1
40	04:00	05:00	1
41	05:00	06:00	1
42		<b>TOTAL</b>	23

Change from CEST→CET: the clocks are changed from summer to winter time on the last Sunday in October of each year; this means the clocks are put back again from 03:00 a.m. to 02:00 a.m. on the Sunday morning, i.e. an additional hour is inserted. For the gas day on which summer time is changed to winter time, a dedicated KISS-A form, with 25 rows in the value area, must be used as this day has 25 hours and 25 hour values must be submitted. The additional hour is inserted in the night between 02:00 a.m. and 03:00 a.m. so that this hour exists twice. To distinguish between these two, the start of the additional hour is marked “A” and the end of the additional hour is marked “B” (... 01:00 - 2A:00, 2A:00 - 2B:00, 2B:00 - 03:00, 03:00 - 04:00, ...):

	A	B	C
33	21:00	22:00	1
34	22:00	23:00	1
35	23:00	00:00	1
36	00:00	01:00	1
37	01:00	2A:00	1
38	2A:00	2B:00	1
39	2B:00	03:00	1
40	03:00	04:00	1
41	04:00	05:00	1
42	05:00	06:00	1
43		<b>TOTAL</b>	25

### 2.5.6 Revisions of KISS-A messages by the system operator

Revisions of a version of a KISS-A nomination notification are marked in row 9.

If a nomination/schedule is confirmed unchanged by the system operator, this corresponds to a revision number of 0.

If the system operator changes the values (imposes a restriction), it increases the revision number for that column. As soon as the BRP increases the version number of the data column, the revision number is reset.

### 3 Nominations and schedules

By way of nominations, the BRP notifies gas volumes per shipper code pair to system operators at grid points that are subject to nomination.

System operators use the nominations to check whether sufficient capacity has been booked for the gas volumes notified and to determine the confirmable injection and withdrawal volumes per shipper code pair together with the adjacent system operator. In the case of the VTP, a nomination by the BRP (or a VTP-only trader) signals a transfer of ownership rights (title transfer service) in the OTC market. For the distribution area manager, the schedules in the distribution area represent the information required for managing the distribution area and for meeting the distribution area manager's information obligations.

Edig@s-XML through AS4 is the default data format. Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

The following cases are provided for:

NOMINATION/SCHEDULE MESSAGE BY	RECIPIENT	FORMATS
Title transfer at the VTP	VTP-O	EDIG@S (NOMINT)
Entry/exit at cross-border interconnection points and storage points, or entry from production points in the transmission network	TSO	EDIG@S (NOMINT)
Entry/exit at cross-border interconnection points in the distribution area	DAM	EDIG@S (NOMINT) KISS-A (nomination notification)
Total exit for system users with daily balancing	DAM	EDIG@S (NOMINT) KISS-A (nomination notification)
Total exit for system users with hourly balancing	DAM	EDIG@S (NOMINT) KISS-A (nomination notification)
Exit for large individual consumers and total exit for other system users with hourly balancing <sup>4</sup>	DAM	EDIG@S (NOMINT) KISS-A (nomination notification)
Entry from (withdrawal) or exit into (injection) storage	SSO	EDIG@S (NOMINT) KISS-A (nomination notification)
Entry from production (including biogas)	PSO	EDIG@S (NOMINT) KISS-A (nomination notification)

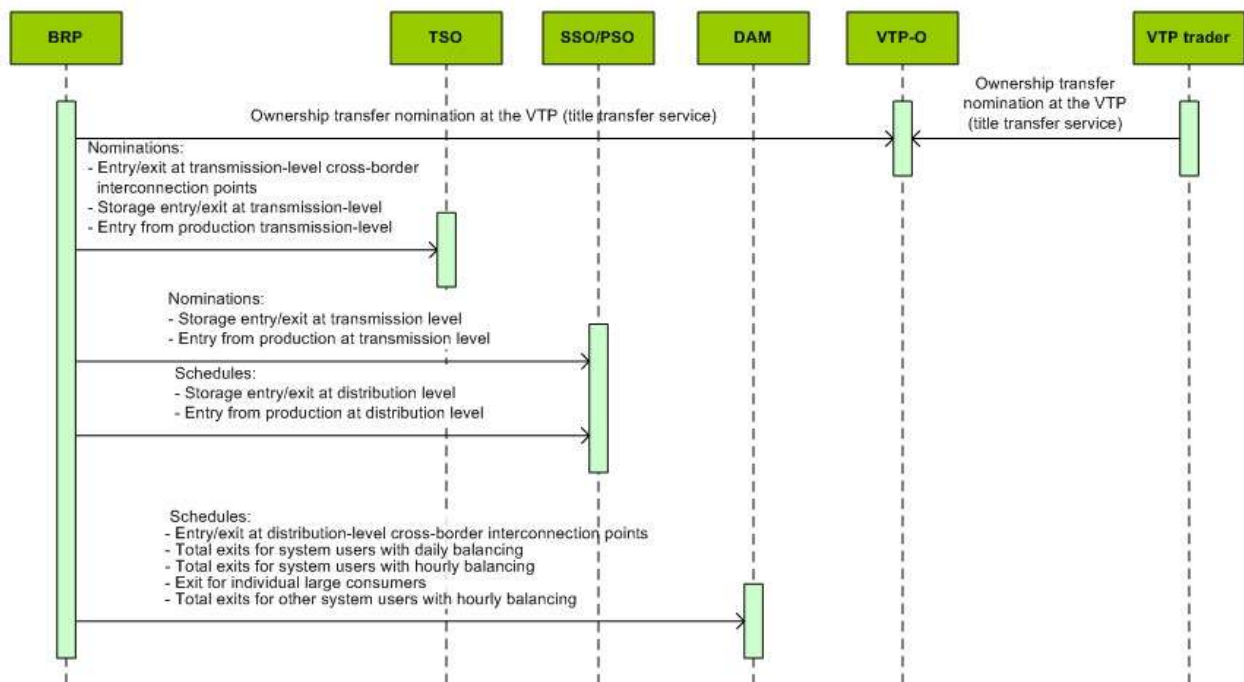
<sup>4</sup> This information is not relevant to balancing.

Notes:

“Other system users with hourly balancing” means the total of all consumers with load meters  $\leq 50$  MW in the hourly balancing regime.

Storage and production points in the transmission network are handled as if they were transmission-level cross-border interconnection points. The BRP must nominate an entry/exit (same direction) both with the TSO and SSO. The system operators carry out a matching process (lesser rule).

### 3.1 Overview of nomination messages of the BRP



### 3.2 EDIG@S NOMINT

#### 3.2.1 Use in the nomination and renomination processes

NOMINT is applied pursuant chapter 2 of the gas market code and EDIG@S (<http://www.edigas.org/>).

Section 1.6 of the general message guidelines (MIG EDIG@S 4.0) is only applied at the VTP.

For detailed application information, please contact the relevant system operator.

### 3.2.2 NOMINT application specifications

The application specification is based on EDIG@S MIG 4.0, downloadable at <http://www.edigas.org/version-4/>. The segments are implemented according to the “Information Model Structure” or “XML structure” of the MIG.

Specific extensions of the code qualifiers for the eastern market area are listed in the following table (compiled from an EDIF@CT point of view, because segment descriptions and relations are better readable in this format).

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Header			
UNH	Beginning of message	Pursuant to MIG	Pursuant to MIG
BGM	Message type identification	Pursuant to MIG	Pursuant to MIG
DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
SG 1 RFF	Display of contract references in the LIN segment	Pursuant to MIG	Pursuant to requirements by system operators: VTP-O TSO SSO
SG 2 NAD	Sender and recipient identification	Pursuant to MIG	Pursuant to MIG
SG 29 LIN	Position number identification	Pursuant to MIG	Pursuant to MIG
UNS	Information on message separation	Pursuant to MIG	Pursuant to MIG
UNT	End of message	Pursuant to MIG	Pursuant to MIG
Position number (details of data)			
SG 29 LIN → IMD	Gas category identification	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → MEA	Gas quality identification	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → DTM	Description of the LIN position	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → SG 34 RFF	Contract reference	Pursuant to MIG	Pursuant to requirements by system operators: VTP-O TSO: to identify adjacent TSOs at MA entry/exit where there are two or more adjacent TSOs to divide the volumes to be matched SSO

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
SG 29 LIN → SG 38 LOC	Location identification	Pursuant to MIG	Location names pursuant to the requirements of system operators
SG 29 LIN → SG38 LOC → DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → SG38 LOC → SG39 QTY	Quantity identification	Pursuant to MIG	Restriction: For each line item, only either entry/buy volumes or exit/sell volumes can be specified. Only hourly nominations are permitted.
SG 29 LIN → SG38 LOC → SG39 QTY → STS	Status identification of the quantities	Not used	The functionality of this segment is not supported.
SG 29 LIN → SG41 NAD	BG identifier	Pursuant to MIG	Pursuant to MIG

The application specification is based on EDIG@S MIG 5.1, downloadable at <http://www.edigas.org/version-5/>. The segments are implemented according to the “Information Model Structure” of the MIG.

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Header			
IDENTIFICATION	Document identification	Pursuant to MIG	Pursuant to MIG
VERSION	Version number	Pursuant to MIG	Pursuant to MIG
TYPE	Document type (e.g. 01G - nomination)	Pursuant to MIG	Pursuant to MIG
CREATIONDATETIME	Time of document creation	Pursuant to MIG	Pursuant to MIG
VALIDITYPERIOD	Time and validity identification	Pursuant to MIG	Pursuant to MIG
CONTRACTREFERENCE	Contract reference	Pursuant to MIG	Pursuant to MIG
ISSUER_MARKETPARTICIPANT.IDENTIFICATION	Sender identifier	Pursuant to MIG	Pursuant to MIG
ISSUER_MARKETPARTICIPANT.MARKETROLE.CODE	Sender role (BRP)	Pursuant to MIG	Pursuant to MIG

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION	Recipient identifier	Pursuant to MIG	Pursuant to MIG
RECIPIENT_MARKETPARTICIPANT.MARKETROLE.CODE	Recipient role (e.g. TSO)	Pursuant to MIG	Pursuant to MIG
Position number (details of data)			
IDENTIFICATION	Location identification	Pursuant to MIG	Pursuant to MIG
MEASUREUNIT.CODE	Unit	Pursuant to MIG	Pursuant to MIG
NOMINATION.TYPE	Nomination type (A01 = single-sided; A02 = double-sided)	Pursuant to MIG	Pursuant to MIG
INTERNALACCOUNT	BG identifier	Pursuant to MIG	Pursuant to MIG
INTERNALACCOUNTTSO	TSO identifier	Pursuant to MIG	
EXTERNALACCOUNT –	BG identifier	Pursuant to MIG	Pursuant to MIG
EXTERNALACCOUNTTSO -	Identifier of adjacent TSO (outside MA east)	Pursuant to MIG	Pursuant to requirements by system operators: VTP-O TSO: to identify adjacent TSOs at MA entry/exit where there are two or more adjacent TSOs to divide the volumes to be matched SSO
TIMEINTERVAL	Time and validity identification	Pursuant to MIG	Pursuant to MIG
DIRECTION.CODE	Flow direction (as seen from MA east)	Pursuant to MIG	Pursuant to MIG
QUANTITY.AMOUNT	Nominated amount of gas	Pursuant to MIG	Restriction: For each line item, only either entry/buy volumes or exit/sell volumes can be specified. Only hourly nominations are permitted.
PRIORITY_STATUS.CODE	Status identification of the quantities	Pursuant to MIG	The functionality of this segment is not supported.



### 3.3 KISS-A nomination notification

Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

#### 3.3.1 Use in the nomination and renomination processes

The KISS-A nomination notification is applied pursuant to chapter 2 of the gas market code. For detailed application information, please contact the relevant system operator.

The subject line of a nomination notification is composed as follows:

<b>SYNTAX</b>	DATA[blank][gas day]_[search criterion]_[VV]
<b>EXAMPLE</b>	<i>DATA 20130127_BRP-code_AGGM_VG_OST_04</i>
<b>ELEMENT</b>	<b>DESCRIPTION</b>
[gas day]	Gas day to which the nomination or schedule applies in the format [YYYYMMDD]
[search criterion]	Sequence of signs agreed on by the BRP and the system operator to clearly attribute the message; as a rule contains the BRP code and an acronym of the system operator
[VV]	Version number, two digits (with zero in front where applicable)

This name convention must also be used in the file name of the KISS-A form in an e-mail attachment, but the "DATA[blank]" sequence can be omitted.

#### 3.3.2 KISS-A application specifications for nomination notifications

Cell A1 (type of message): NOMINT

R...row of the KISS-A file

R	COLUMN B	DESCRIPTION	COLUMNS FROM C, IF SENT TO	
			DAM	SSO/PSO
1	DTM (date)	Gas day	Gas day pursuant to date specification	Gas day pursuant to date specification
2	STS (priority)	Order of priority - <u>the functionality of this segment is not supported</u>	<ul style="list-style-type: none"> <li>■ No value</li> <li>■ 30G</li> <li>■ 31G</li> </ul>	<ul style="list-style-type: none"> <li>■ No value</li> <li>■ 30G</li> <li>■ 31G</li> </ul>
3	NAD (internal shipper, ZSH)	BG in the eastern MA	EIC code of balance group	EIC code of balance group

R	COLUMN B	DESCRIPTION	COLUMNS FROM C, IF SENT TO	
			DAM	SSO/PSO
4	LOC (location)	Location	<ul style="list-style-type: none"> <li>■ Aggregation point EIC code:                             <ul style="list-style-type: none"> <li>■ System users with daily balancing</li> <li>■ System users with hourly balancing</li> <li>■ Other system users with hourly balancing</li> </ul> </li> <li>■ Large consumer metering point</li> <li>■ Location EIC code (cross-border transport at distribution level)</li> </ul>	ZSO code (e.g. storage pool)
5	NAD (external shipper, ZES)	Counterpart code	EIC code of balance group Cross-border transports at distribution level: shipper EIC code at the adjacent SO	EIC code of balance group
6	RFF (reference)	Code row	empty	<ul style="list-style-type: none"> <li>■ empty</li> <li>■ Product identifier</li> </ul>
7	QTY (direction)	Direction	<ul style="list-style-type: none"> <li>■ Z02</li> <li>■ Z03</li> </ul>	<ul style="list-style-type: none"> <li>■ Z02 (inject from storage)</li> <li>■ Z03 (withdraw into storage)</li> </ul>
8	- (version)	Version	Ascending starting with 1	Ascending starting with 1
9	-	NOMRES revision number	empty	empty
10-14	-	Comment field (reserved)	empty	empty
15	- (kWh/d)	Daily volume	Positive integer value	Positive integer value
16	-	(reserved)	empty	empty
17	QTY (measurement unit)	Unit	kWh	kWh
18-41	QTY (quantity)	Hourly volume in kWh/h	Positive integer values	Positive integer values
42	- (total kWh/d)	Daily volume	Positive integer value	Positive integer value

**Notes:**

For the change between summer and winter time, the last row changes accordingly.

The aggregation metering points in the distribution area are virtual locations that solely serve to process the corresponding time series.

## 4 Nomination confirmations

(Re)nomination confirmations serve for system roles to inform BRPs of the gas volume per shipper code pair that can actually be handled as compared to the gas volumes notified at their grid points that are subject to nomination. For the nomination confirmation, the system operator uses the format last used by the BRP.

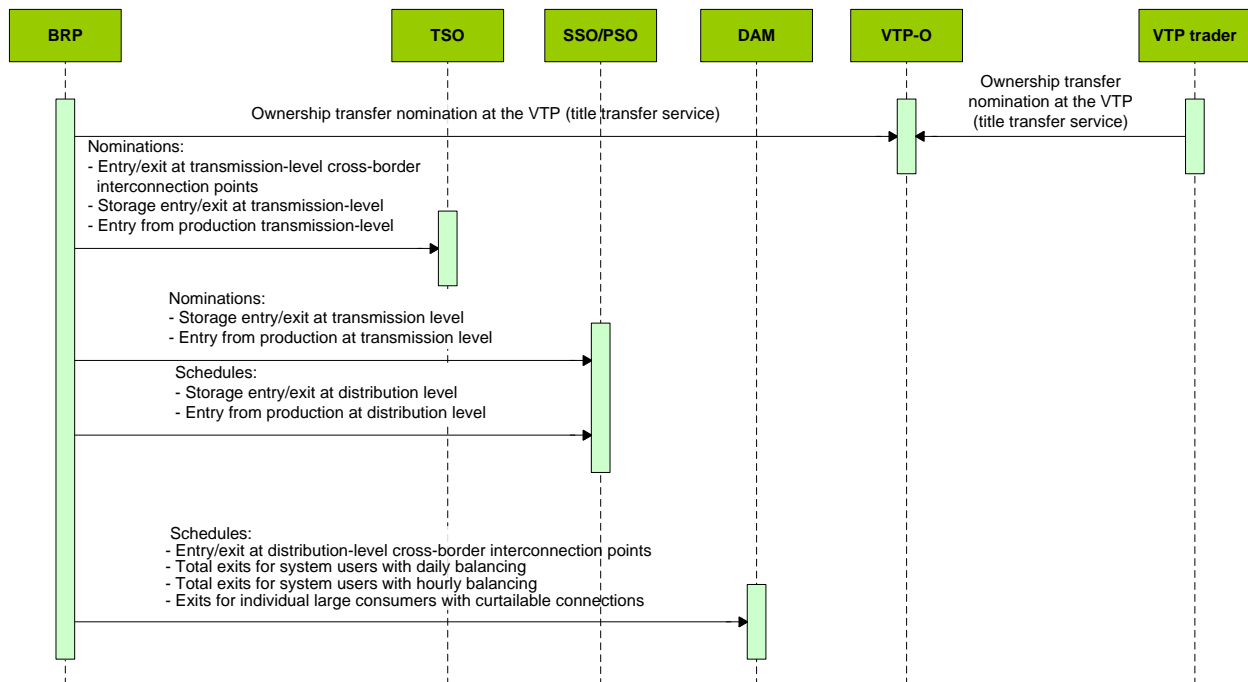
Edig@s-XML through AS4 is the default data format. Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

By analogy to nominations, the following cases are provided for:

CONFIRMATION BY	SENDER	FORMATS
Title transfer at the VTP	VTP-O	EDIG@S (NOMRES)
Entry/exit at cross-border interconnection points and storage points, or entry from production points in the transmission network	TSO	EDIG@S (NOMRES)
Entry/exit at cross-border interconnection points in the distribution area	DAM	EDIG@S (NOMRES) KISS-A (confirmation notification)
Total exit for system users with daily balancing	DAM	EDIG@S (NOMRES) KISS-A (confirmation notification)
Total exit for system users with hourly balancing	DAM	EDIG@S (NOMRES) KISS-A (confirmation notification)
Exit for large individual consumers <sup>5</sup>	DAM	EDIG@S (NOMRES) KISS-A (confirmation notification)
Entry from (withdrawal) or exit into (injection) storage	SSO	EDIG@S (NOMRES) KISS-A (confirmation notification)
Entry from production (including biogas)	PSO	EDIG@S (NOMRES) KISS-A (confirmation notification)

<sup>5</sup> Confirmations are issued only for the schedules of large consumers that have curtailable system connections

## 4.1 Overview of nomination confirmation notifications



## 4.2 EDIG@S NOMRES

### 4.2.1 Use in the nomination and renomination processes

NOMRES is applied pursuant to chapter 2 of the gas market code and EDIG@S (<http://www.edigas.org/>).

For detailed application information, please contact the relevant system operator.

### 4.2.2 NOMRES application specifications

The application specification is based on EDIG@S MIG 4.0, downloadable at <http://www.edigas.org/version-4/>. The segments are implemented according to the “Information Model Structure” or “XML structure” of the MIG.

Specific extensions of the code qualifiers for the eastern market area are listed in the following table (compiled from an EDIF@CT point of view, because segment descriptions and relations are better readable in this format).

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Header			
UNH	Beginning of message	Pursuant to MIG	Pursuant to MIG

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
BGM	Message type identification	Pursuant to MIG	Pursuant to MIG
DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
SG 1 RFF	Display of contract references in the LIN segment	Pursuant to MIG	Pursuant to requirements by system operators: VTP-O TSO SSO
SG 3 NAD	Sender and recipient identification	Pursuant to MIG	Pursuant to MIG
SG 27 LIN	Position number identification	Pursuant to MIG	Pursuant to MIG
UNS	Information on message separation	Pursuant to MIG	Pursuant to MIG
UNT	End of message	Pursuant to MIG	Pursuant to MIG
Position number (details of data)			
SG 29 LIN → IMD	Gas category identification	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → MEA	Gas quality identification	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → DTM	Description of the LIN position	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → SG 34 RFF	Contract reference	Pursuant to MIG	Pursuant to requirements by system operators: VTP-O TSO: to identify adjacent TSOs at MA entry/exit where there are two or more adjacent TSOs to divide the volumes to be matched SSO
SG 29 LIN → SG 38 LOC	Location identification	Pursuant to MIG	Location names pursuant to the requirements of system operators
SG 29 LIN → SG38 LOC → DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
SG 29 LIN → SG38 LOC → SG39 QTY	Quantity identification	Pursuant to MIG	Restriction: For each line item, only either entry/buy volumes or exit/sell volumes can be specified. Only hourly nominations are permitted.

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
SG 29 LIN → SG38 LOC → SG39 QTY → STS	Status identification of the quantities	Not used	The functionality of this segment is not supported.
SG 29 LIN → SG41 NAD	BG identifier	Pursuant to MIG	Pursuant to MIG

The application specification is based on EDIG@S MIG 5.1, downloadable at <http://www.edigas.org/version-5/>. The segments are implemented according to the “Information Model Structure” of the MIG.

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Header			
IDENTIFICATION	Document identifier (nomination)	Pursuant to MIG	Pursuant to MIG
VERSION	Version number	Pursuant to MIG	Pursuant to MIG
TYPE	Document type (e.g. 08G = confirmation notice; AND = interruption notice)	Pursuant to MIG	Pursuant to MIG
CREATIONDATETIME	Time of document creation	Pursuant to MIG	Pursuant to MIG
VALIDITYPERIOD	Time and validity identification	Pursuant to MIG	Pursuant to MIG
CONTRACTREFERENCE	Contract reference	Pursuant to MIG	Pursuant to MIG
ISSUER_MARKETPARTICIPANT.IDENTIFICATION	Sender identifier	Pursuant to MIG	Pursuant to MIG
ISSUER_MARKETPARTICIPANT.MARKETROLE.CODE	Sender role (BRP)	Pursuant to MIG	Pursuant to MIG
RECIPIENT_MARKETPARTICIPANT.IDENTIFICATION	Recipient identifier	Pursuant to MIG	Pursuant to MIG
RECIPIENT_MARKETPARTICIPANT.MARKETROLE.CODE	Recipient role (e.g. TSO)	Pursuant to MIG	Pursuant to MIG
NOMINATION_DOCUMENT.IDENTIFICATION	Nomination identifier	Pursuant to MIG	Pursuant to MIG
NOMINATION_DOCUMENT.VERSION	Version number of nomination	Pursuant to MIG	Pursuant to MIG

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Position number (details of data)			
IDENTIFICATION	Location identification	Pursuant to MIG	Pursuant to MIG
MEASUREUNIT.CODE	Unit	Pursuant to MIG	Pursuant to MIG
NOMINATION.TYPE	Nomination type (A01 = single-sided; A02 = double-sided)	Pursuant to MIG	Pursuant to MIG
INTERNALACCOUNT	BG identifier	Pursuant to MIG	Pursuant to MIG
INTERNALACCOUNTTSO	TSO identifier	Pursuant to MIG	Pursuant to MIG
EXTERNALACCOUNT	BG identifier	Pursuant to MIG	Pursuant to MIG
EXTERNALACCOUNTTSO	Identifier of adjacent TSO (outside MA east)	Pursuant to MIG	Pursuant to MIG
ORIGIN TIMESERIES CLASS. TYPE	Value type (16G = confirmed value)	Pursuant to MIG	Pursuant to MIG
TIMEINTERVAL	Time and validity identification	Pursuant to MIG	Pursuant to MIG
DIRECTION.CODE	Flow direction (as seen from MA east)	Pursuant to MIG	Pursuant to MIG
QUANTITY.AMOUNT	Nominated amount of gas	Pursuant to MIG	Restriction: For each line item, only either entry/buy volumes or exit/sell volumes can be specified. Only hourly nominations are permitted.
STATUS.CODE	Status identification of the quantities	Pursuant to MIG	Pursuant to MIG
REASON.TEXT	Text that explains the status code	Pursuant to MIG	Pursuant to MIG

#### 4.2.3 Interruption notice

The optional interruption notice is sent to the BRP in case of curtailments. Once a curtailment has been detected, the relevant TSO sends it to the BRP registered, regardless of whether the nomination concerned is single-sided or double-sided. The values given in the interruption notice are not confirmed, i.e. they can differ from the final matching result.

For interruption notices to work, EDIG@S version 5.1 must be used; NOMRES interruption notices have the qualifier TYPE (document type) AND in the header.



### 4.3 KISS-A confirmation notification

Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

#### 4.3.1 Use in the nomination and renomination processes

The KISS-A confirmation notification is applied pursuant to chapter 2 of the gas market code.

The system operator can combine confirmation of several nominations or schedules in one confirmation notification.

The subject line of a confirmation notification is composed as follows:

SYNTAX	DATA[blank][gas day]_[search criterion]_[VV] _NOMRES
EXAMPLE	DATA 20130127_BRP-code_AGGM_VG_OST_04_NOMRES
ELEMENT	DESCRIPTION
[gas day]	Gas day to which the nomination or schedule applies in the format [YYYYMMDD]
[search criterion]	Sequence of signs agreed on by the BRP and the system operator to clearly attribute the message; as a rule contains the BRP code and an acronym of the system operator
[VV]	Version number, two digits (with zero in front where applicable)

#### 4.3.2 KISS-A application specifications for confirmation notifications

Cell A1 (type of message): NOMRES

R...row of the KISS-A file

R	COLUMN B	DESCRIPTION	COLUMNS FROM C, IF USED BY	
			DAM	SSO/PSO
1	DTM (date)	Gas day	Gas day pursuant to date specification	Gas day pursuant to date specification
2	STS (priority)	Order of priority - <u>the functionality of this segment is not supported</u>	<ul style="list-style-type: none"> <li>■ No value</li> <li>■ 30G</li> <li>■ 31G</li> </ul>	<ul style="list-style-type: none"> <li>■ No value</li> <li>■ 30G</li> <li>■ 31G</li> </ul>
3	NAD (internal shipper, ZSH)	BG in the eastern MA	EIC code of balance group	EIC code of balance group

R	COLUMN B	DESCRIPTION	COLUMNS FROM C, IF USED BY	
			DAM	SSO/PSO
4	LOC (location)	Location	<ul style="list-style-type: none"> <li>■ Aggregation point EIC code:                             <ul style="list-style-type: none"> <li>■ System users with daily balancing</li> <li>■ System users with hourly balancing</li> </ul> </li> <li>■ Large consumer metering point</li> <li>■ Location EIC code (cross-border transport at distribution level)</li> </ul>	ZSO code (e.g. storage pool)
5	NAD (external shipper, ZES)	Counterpart code	EIC code of balance group Cross-border transports at distribution level: shipper EIC code at the adjacent SO	EIC code of balance group
6	RFF (reference)	Code row	<ul style="list-style-type: none"> <li>■ empty</li> </ul>	<ul style="list-style-type: none"> <li>■ empty</li> <li>■ Product identifier</li> </ul>
7	QTY (direction)	Direction	<ul style="list-style-type: none"> <li>■ Z02</li> <li>■ Z03</li> </ul>	<ul style="list-style-type: none"> <li>■ Z02 (inject from storage)</li> <li>■ Z03 (withdraw into storage)</li> </ul>
8	- (version)	Version	Ascending starting with 1	Ascending starting with 1
9	-	NOMRES revision number	Revision number starting with 0	Revision number starting with 0
10-14	-	Comment field (reserved)	empty	empty
15	- (kWh/d)	Daily volume	Positive integer value	Positive integer value
16	-	(reserved)	empty	empty
17	QTY (measurement unit)	Unit	kWh	kWh
18-41	QTY (quantity)	Hourly volume in kWh/h	Positive integer values	Positive integer values
42	- (total kWh/d)	Daily volume	Positive integer value	Positive integer value

**Notes:**

For the change between summer and winter time, the last row changes accordingly.

The aggregation metering points in the distribution area are virtual locations that solely serve to process the corresponding time series.

## 5 Allocation messages

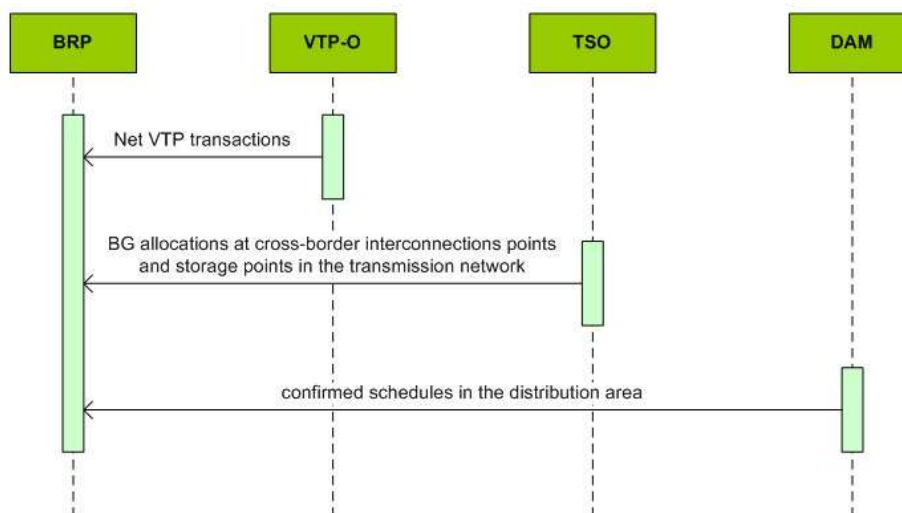
Pursuant to chapter 2 of the gas market code, on D+1 the BRP receives the values allocated by the respective system operator as information in addition to the confirmed nominations.

Edig@s-XML through AS4 is the default data format. Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

The following cases are provided for:

INFORMATION CONTENT	SENDER	FORMATS
Allocated net VTP transactions (exchange and OTC)	VTP-O	EDIG@S (ALOCAT)
Allocations for entry/exit at cross-border interconnection points and storage points, or entry from production points in the transmission network	TSO	EDIG@S (ALOCAT)
Allocated schedules for cross-border interconnection points in the distribution area, storage, production, total of consumers with daily balancing, total of consumers with hourly balancing	DAM	EDIG@S (ALOCAT) KISS-A (ALOCAT)

### 5.1 Overview of allocation messages



## 5.2 EDIG@S ALOCAT

### 5.2.1 Use in the nomination and renomination processes

ALOCAT is applied pursuant to chapter 2 of the gas market code and EDIG@S (<http://www.edigas.org/>).

For detailed application information, please contact the relevant system operator.

### 5.2.2 ALOCAT application specifications

The application specification is based on EDIG@S MIG 4.0, downloadable at <http://www.edigas.org/version-4/>. The segments are implemented according to the “Information Model Structure” or “XML structure” of the MIG.

Specific extensions of the code qualifiers for the eastern market area are listed in the following table (compiled from an EDIF@CT point of view, because segment descriptions and relations are better readable in this format).

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Header			
UNH	Beginning of message	Pursuant to MIG	Pursuant to MIG
BGM	Message type identification	Pursuant to MIG	Pursuant to MIG
SG DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
SG 1 RFF	Contract reference	Pursuant to MIG	Special requirements set by system operators: DAM, to distinguish between allocation messages and SLP forecasts VTP-O
SG 3 NAD	Sender and recipient identification	Pursuant to MIG	Pursuant to MIG
SG 27 LIN	Position number identification	Pursuant to MIG	Pursuant to MIG
UNS	Information on message separation	Pursuant to MIG	Pursuant to MIG
UNT	End of message	Pursuant to MIG	Pursuant to MIG
Position number (details of data)			
LIN→MEA	Gas quality identification	Pursuant to MIG	Pursuant to MIG
LIN→DTM	Description of the LIN position	Pursuant to MIG	Pursuant to MIG
LIN→SG 32 RFF	Contract reference	Pursuant to MIG	If applicable, special requirements set by system operators

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
LIN→SG 36 LOC	Location identification	Pursuant to MIG	Special requirements for location names: <ul style="list-style-type: none"> <li>■ VTP-O: code for VTP</li> <li>■ DAM: in accordance with the schedules submitted by the BRP</li> </ul>
LIN→SG36→D TM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
LIN→SG37 QTY	Quantity identification	Pursuant to MIG	Requirements deviating from the MIG: <ul style="list-style-type: none"> <li>■ For each line item, only either entry volumes or exit volumes can be specified</li> <li>■ Only hourly volumes are permitted</li> </ul>
LIN→SG37→S TS	Status identification of the quantities	Reserved	Reserved for internal communication between system operators
LIN→SG39 NAD	BG identifier	Pursuant to MIG	Pursuant to MIG

### 5.3 KISS-A allocation message

Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

#### 5.3.1 Use in the nomination and renomination processes

KISS-A ALOCAT is applied pursuant to chapter 2 of the gas market code.

The subject line is composed as follows:

<b>SYNTAX</b>	DATA[blank][gas day]_[search criterion]_[VV] _ALOCAT
<b>EXAMPLE</b>	DATA 20130127_BRP-code_AGGM_VG_OST_04_ALOCAT
<b>ELEMENT</b>	<b>DESCRIPTION</b>
[gas day]	Gas day to which the nomination or schedule applies in the format [YYYYMMDD]
[search criterion]	Sequence of signs agreed on by the BRP and the system operator to clearly attribute the message; as a rule contains the BRP code and an acronym of the system operator
[VV]	Version number, two digits (with zero in front where applicable)

### 5.3.2 KISS-A ALOCAT application specifications

Cell A1 (type of message): ALOCAT

R...row of the KISS-A file

R	COLUMN B	DESCRIPTION	USED BY DAM
1	DTM (date)	Gas day	Gas day pursuant to date specification
2	-	-	-
3	NAD (internal shipper, ZSH)	BG in the eastern MA	EIC code of balance group
4	LOC (location)	Location	Location EIC code: <ul style="list-style-type: none"> <li>■ Locations cross-border transport at distribution level</li> <li>■ Locations storage/production pool</li> <li>■ Location “point of system user with daily balancing”</li> <li>■ Location “point of system user with hourly balancing”</li> </ul>
5	-	-	-
6	RFF (contract reference)	Code row	<ul style="list-style-type: none"> <li>■ In allocation messages: empty</li> <li>■ In SLP forecasts: “SLP_Forecast”</li> </ul>
7	QTY (direction)	Direction	<ul style="list-style-type: none"> <li>■ Z02</li> <li>■ Z03</li> </ul>
8	- (version)	Version	Ascending starting with 1
9	-	-	-
10-14	-	Comment field (reserved)	empty
15	- (kWh/d)	Daily volume	Positive integer value
16	-	(reserved)	empty
17	QTY (measurement unit)	Unit	kWh
18-41	QTY (quantity)	Hourly volume in kWh/h	Positive integer values
42	- (total kWh/d)	Daily volume	Positive integer value

Notes: For the change between summer and winter time, the last row changes accordingly.

## 6 Information on BG imbalances

The MAM informs the BRPs about:

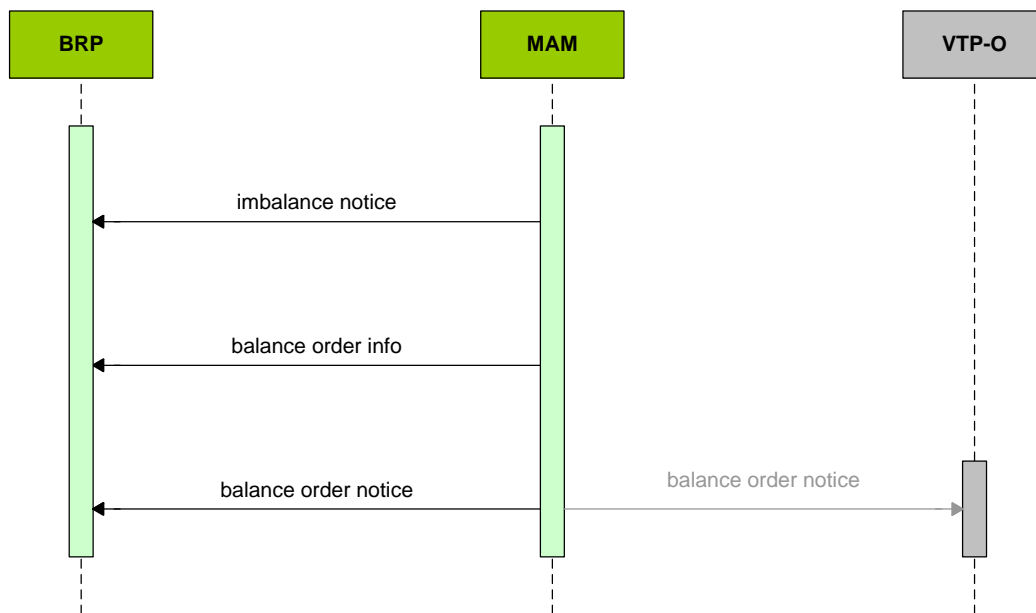
- the carry-forward account balance at the end of the day
- the hourly imbalance based on allocated nominations
- the hourly injection based on allocated nominations
- the hourly withdrawal based on allocated nominations
- the amount of the planned exchange order to balance the BG
- the amount of the actual exchange order to balance the BG

Edig@s-XML through AS4 is the default data format. Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

The following messages are provided for:

MESSAGE	SENDER	FORMATS
Imbalance notice (hourly imbalance, hourly injection and hourly withdrawal of the BG, and balance of the carry-forward account at the end of the day)	MAM	EDIG@S (IMBNOT) KISS-A (imbalance notice)
Balance order info (planned exchange order to balance the BG)	MAM	EDIG@S (IMBNOT) KISS-A (balance order info)
Balance order notice (actual exchange order to balance the BG)	MAM	EDIG@S (IMBNOT) KISS-A (balance order notice)

## 6.1 Overview of settlement messages from the viewpoint of the BRP



## 6.2 Explanation of direction indications in the IMBNOT

The direction is indicated from the BRP / BG point of view, i.e.

- Specification for imbalance notice:
  - ZPD → Debit → BRP debit towards MAM → BG short
  - ZPE → Credit → BRP claim from MAM → BG long
- Specification for balance order info and balance order notice: this is the counterpart specification (counterposition in BG to eliminate an imbalance):
  - ZPD → balance long position → sell
  - ZPE → balance short position → buy

## 6.3 Explanation on the carry-forward account balance

The carry-forward account balance always refers to the end of the day (EOD).

It is a separate value included in the IMBNOT\_IN. The carry-forward account balance is the sum of the imbalances for the current gas day (based on the currently allocated nominations/schedules for the gas day) and the carry-forward account balance of the previous gas day. The balance is therefore not final but may change

- due to renominations, curtailments, balancing orders by the MAM etc. for the gas day
- if the IMBNOT is sent at a time when the previous gas day has not yet been cleared (i.e. day-ahead), due to renominations, curtailments, balancing orders by the MAM etc. for the previous gas day



## 6.4 EDIG@S IMBNOT

### 6.4.1 Use in the settlement process

IMBNOT is applied by the MAM pursuant to chapter 2 of the gas market code and EDIG@S (<http://www.edigas.org/>); three cases are distinguished:

CASE	DESCRIPTION	INFORMATION CONTAINED	DISTINCTION
1	IMBNOT (imbalance notice)	Based on allocated nominations (one LIN segment each): hourly imbalance (BG long, ZPE) hourly imbalance (BG short, ZPD) hourly injection (total, ZPE) hourly withdrawal (total, ZPD) CF account balance (BG long/short at EOD, ZPE/ZPD)	BGM <i>MessageType</i> : 14G (imbalance notification) RFF (SG32): code from list of codes (IMBALANCE_LONG, IMBALANCE_SHORT, ENTRY, EXIT, CF_ACCOUNT_EOD) For imbalance information: hourly values in line items (QuantityInformation by way of SG36-SG37) For CF account balance: daily value in line item (Quantity in AccountPosition)
2	IMBNOT (balance order info)	Amount of the planned exchange order to balance the BG	BGM <i>MessageType</i> : 16G (reconciliation notification) STS (SG43): 04G
3	IMBNOT (balance order notice)	Amount of the actual exchange order to balance the BG	BGM <i>MessageType</i> : 16G (reconciliation notification) STS (SG43): 05G

Notes on XML implementation:

- CF\_ACCOUNT\_EOD: in contrast to the specification, only the AccountPosition (no QuantityInformation) is submitted here.
- In contrast to what is stated in the specifications, the TimeStamp for the carry-forward account balance does not indicate when the carry-forward account balance was calculated but indicates the reference time of the balance shown (i.e. the end of the gas day of the IMBNOT).
- Balance order info and balance order notice: in addition to the QuantityInformation, also the AccountPosition is necessary to submit status information (differentiate between balance order info and balance order notice). The QuantityInformation indicates the transaction volumes for each hour. The position information contained in the AccountPosition reflects the transactions planned/requested for the rest of the day (corresponds to the daily total in KISS-A). The quantity information in the AccountPosition does not refer to the position.

### 6.4.2 IMBNOT application specifications

The application specification is based on EDIG@S MIG 4.0, downloadable at <http://www.edigas.org/version-4/>. The segments are implemented according to the “Information Model Structure” or “XML structure” of the MIG.

Specific extensions of the code qualifiers for the eastern market area are listed in the following table (compiled from an EDIF@CT point of view, because segment descriptions and relations are better readable in this format).

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Header			
UNH	Beginning of message	Pursuant to MIG	Pursuant to MIG
BGM	Message type identification	Pursuant to MIG	Pursuant to MIG
DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
SG 1 RFF	Contract reference	Pursuant to MIG	Pursuant to MIG Code list: IMBNOT_IN, IMBNOT_OI, IMBNOT_ON
SG 3 NAD	Sender and recipient identification	Pursuant to MIG	Pursuant to MIG
SG 27 LIN	Position number identification	Pursuant to MIG	Pursuant to MIG
UNS	Information on message separation	Pursuant to MIG	Pursuant to MIG
UNT	End of message	Pursuant to MIG	Pursuant to MIG
Position number (details of data)			
SG 27 LIN → SG31 PRI	Price information	Not used	Pursuant to MIG
SG 27 LIN → SG31 PRI → CUX	Price information	Not used	Pursuant to MIG
SG 27 LIN → SG31 PRI → DTM	Price information	Not used	Pursuant to MIG
SG 27 LIN → SG32 RFF	Contract reference	Pursuant to MIG Is only used for the first case	Pursuant to MIG List of codes for the first case: IMBALANCE_LONG (hourly imbalance, BG long, ZPE) IMBALANCE_SHORT (hourly imbalance, BG short, ZPD) ENTRY (hourly injection, total, ZPE) EXIT (hourly withdrawal, total, ZPD) CF_ACCOUNT_EOD (BG long/short at EOD, ZPE/ZPD)

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
SG 27 LIN → SG36 LOC	Location identification	Z99	Pursuant to MIG
SG 27 LIN → SG36 → DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
SG 27 LIN → SG36 → SG37 QTY	Quantity identification	Pursuant to MIG	Pursuant to MIG
SG 27 LIN → SG39 NAD	BG identifier	Pursuant to MIG	Pursuant to MIG
SG 27 LIN → SG39 NAD → SG40 RFF	Category identifier	Pursuant to MIG	Pursuant to MIG
SG 27 LIN → SG39 NAD → SG43 QTY	Quantity identification	Pursuant to MIG	Pursuant to MIG
SG 27 LIN → SG39 NAD → SG43 QTY → STS	Status identification of the quantity	Pursuant to MIG	Pursuant to MIG
SG 27 LIN → SG39 NAD → SG43 QTY → DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG The time stamp indicates the end of the gas day for which the CF account balance was calculated.

## 6.5 KISS-A IMBNOT

Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

### 6.5.1 Use in the settlement process

KISS-A IMBNOT is applied by the MAM pursuant to chapter 2 of the gas market code; three cases are distinguished:

CASE	DESCRIPTION	INFORMATION CONTAINED	DISTINCTION
1	IMBNOT (imbalance notice)	Based on allocated nominations (one column each): hourly imbalance (BG long) hourly imbalance (BG short) hourly injection (total) hourly withdrawal (total) CF account balance (BG long/short at EOD)	Cell A1: IMBNOT_IN Header information: <ul style="list-style-type: none"> <li>• STS (SG43)=empty</li> <li>• RFF (SG32)=code from list of codes (IMBALANCE_LONG, IMBALANCE_SHORT, ENTRY, EXIT, CF_ACCOUNT_EOD)</li> </ul>
2	IMBNOT (balance order info)	Amount of the planned exchange order to balance the BG	Cell A1: IMBNOT_OI Header information: STS (SG43)=04G
3	IMBNOT (balance order notice)	Amount of the actual exchange order to balance the BG	Cell A1: IMBNOT_ON Header information: STS (SG43)=05G

The subject line of an IMBNOT message is composed as follows:

<b>SYNTAX</b>	DATA[blank][gas day]_[search criterion]_[VV] _IMBNOT_[case]
<b>EXAMPLE</b>	<i>DATA 20130127_BRP-code_MAM_02_IMBNOT_OI</i>
<b>ELEMENT</b>	<b>DESCRIPTION</b>
[gas day]	Gas day to which the nomination or schedule applies in the format [YYYYMMDD]
[search criterion]	Contains the BRP code and the acronym of the MAM
[VV]	Version number, two digits (where applicable, with zero in front)
[case]	Depending on the case: IN, OI, ON (see above)

### 6.5.2 KISS-A IMBNOT application specifications

IMBNOT is applied pursuant to chapter 2 of the gas market code.

R...row of the KISS-A file

R	COLUMN B	DESCRIPTION	COLUMNS FROM C, FOR CASE		
			IMBALANCE NOTICE	BALANCE ORDER INFO	BALANCE ORDER NOTICE
1	DTM (date)	Gas day	Gas day pursuant to date specification	Gas day pursuant to date specification	Gas day pursuant to date specification
2	STS (reconciliation status)		empty	04G (provisional)	05G (definitive)
3	NAD (internal shipper, ZSH)	BG in the eastern MA	EIC code of balance group	EIC code of balance group	EIC code of balance group
4	LOC (location)	Location	empty	empty	empty
5	-	(reserved)	empty	empty	empty
6	RFF (reference)	Code row	<ul style="list-style-type: none"> <li>■ IMBALANCE_LONG</li> <li>■ IMBALANCE_SHORT</li> <li>■ ENTRY</li> <li>■ EXIT</li> <li>■ CF_ACCOUNT_EOD</li> </ul>	empty	empty
7	QTY (direction)	Direction	<ul style="list-style-type: none"> <li>■ ZPD</li> <li>■ ZPE</li> </ul>	<ul style="list-style-type: none"> <li>■ ZPD</li> <li>■ ZPE</li> </ul>	<ul style="list-style-type: none"> <li>■ ZPD</li> <li>■ ZPE</li> </ul>
8	- (version)	Version	Ascending starting with 1	Ascending starting with 1	Ascending starting with 1
9	-	(reserved)	empty	empty	empty
10-14	-	Comment field (reserved)	empty	empty	empty
15	- (kWh/d)	Daily volume	Positive integer value	Positive integer value	Positive integer value
16	-	(reserved)	empty	empty	empty
17	QTY (measurement unit)	Unit	kWh	kWh	kWh

R	COLUMN B	DESCRIPTION	COLUMNS FROM C, FOR CASE		
			IMBALANCE NOTICE	BALANCE ORDER INFO	BALANCE ORDER NOTICE
18-41	QTY (quantity)	Hourly volume or contract volume in kWh/h	Imbalance information: Positive integer values Carry-forward account balance: positive integer value for hr 05.00 - 06.00, the remaining rows must be filled with 0 (zero)	Positive integer values	Positive integer values
42	- (total kWh/d)	Daily volume	Positive integer value	Positive integer value	Positive integer value

Note: For the change between summer and winter time, the last row changes accordingly.

## 7 Acknowledgement message

For nominations or schedule messages, an acknowledgement message is provided. The acknowledgement message includes two types of validations:

- Syntax validation
- Semantic validation

Immediately after receipt of the message, the system operator generates and provides the acknowledgement message. The system operator itself does not receive/process any acknowledgement reports.

### 7.1 EDIG@S APERAK

#### 7.1.1 Use of acknowledgement messages

For NOMINT, an acknowledgement message is implemented in the following manner:

**Syntax validation:** for this validation, no separate acknowledgement message is required. In the case of a syntax error, no acknowledgement message is sent.

**Semantic validation:** a semantic validation is carried out only if the syntax validation is positive. After completion of the semantic validation, the BRP receives an APERAK message from the system operator.

The BRP can enquire with the system operator whether sending an acknowledgement message by the system operator can be omitted.

The time at which the message has verifiably reached the system operator (i.e. the time that is relevant for lead time checks) is sent as CreationTimeDate in the DTM segment with the APERAK. For AS4, this is the time of the Message Delivery Notice (MDN).

#### 7.1.2 APERAK application specification

The application specification is based on EDIG@S MIG 4.0, downloadable at <http://www.edigas.org/version-4/>. The segments are implemented according to the “Information Model Structure” or “XML structure” of the MIG.

Specific extensions of the code qualifiers for the eastern market area are listed in the following table (compiled from an EDIF@CT point of view, because segment descriptions and relations are better readable in this format). For detailed application information, please contact the relevant system operator.

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
Header			
UNH	Beginning of message	Pursuant to MIG	Pursuant to MIG
BGM	Message type identification	Pursuant to MIG	Pursuant to MIG
DTM	Time identification	Pursuant to MIG	Pursuant to MIG

SEGMENT	CONTENT	USE IN THE EASTERN MA	ADDITIONAL CODE QUALIFIERS FOR THE EASTERN MA
SG 2 RFF	Reference to the original message	Pursuant to MIG	Pursuant to MIG
SG 2 RFF → DTM	Time reference of the original message	Pursuant to MIG	Pursuant to MIG
SG 3 NAD	Reference to the sender and recipient identifiers of the original message	Pursuant to MIG	Pursuant to MIG
SG 4 ERC	Error code	Pursuant to MIG	Pursuant to MIG
SG 4 ERC → FTX	Error description (free text)	Pursuant to MIG	Pursuant to MIG
UNT	End of message	Pursuant to MIG	Pursuant to MIG

## 7.2 KISS-A DATA\_QUIT

Please note that the current version of the market code still includes an alternative message format (KISS-A). This ceases to be applicable at 6.00 hrs on 1 April 2019.

### 7.2.1 Use of acknowledgement messages

For the KISS-A nomination notification, an acknowledgement message is implemented in the following manner: in every case, the sender of a KISS-A nomination notification (s. section 3.3) receives a DATA\_QUIT message from the recipient as an acknowledgement of receipt. If there is no acknowledgement of receipt, the sender must deem the message not received by the recipient. If an error is detected in a validation step upon receipt of a message, a description of the error is provided in the DATA\_QUIT message.

The subject line of a DATA\_QUIT message is composed as follows:

<b>SYNTAX</b>	DATA_QUIT[blank][XX]-OK[blank][YY]-NOK[blank][reference]
<b>EXAMPLE</b>	<i>DATA_QUIT 15-OK 2-NOK DATA 20130127_BRP-code_AGGM_VG_OST_04</i>
<b>ELEMENT</b>	<b>DESCRIPTION</b>
[XX]	Number of “OK” values reported
[YY]	Number of “NOK” (not OK) values reported
[refer- ence]	Subject line of the message to which the acknowledgement applies (attribution of the DATA_QUIT message)

The logic of calculating the number of reported “OK” and “NOK” values and the descriptions of errors are defined by the respective system operator. The time at which the message has verifiably reached the system operator (i.e. the time that is relevant for lead time checks) is included in the message text of the DATA\_QUIT.



## 8 Annex

### 8.1 KISS-A examples

Before they can be used, the examples must be adjusted to the specific details of the intended transport or trading process (e.g. the number of data columns, EIC codes, contract references, direction, version etc.).

If you have any questions, please contact the relevant system operator.

#### 8.1.1 Example: Nomination with the DAM

This example corresponds to scheduling the consumption of several (where applicable) consumers in the daily and hourly balancing system and one large consumer, and the notification of a cross-border market area entry at distribution level.

A		B		C		D		E		F		G	
NOMINT		DTM (date)		15.08.2013		15.08.2013		15.08.2013		15.08.2013		15.08.2013	
2		STS (priority)											
3		NAD (internal shipper)		[EIC-Code BO]		[EIC-Code BO]		[EIC-Code BO]		[EIC-Code BO]		[EIC-Code BO]	
4		LDC (location)		[EIC-Code Aggregationspunkt TB]		[EIC-Code Aggregationspunkt SB]		[EIC-Code Aggregationspunkt SSB]		[Locationcode Ortsbetreiber]		[EIC-Code Grenzaggelpunkt VG]	
5		NAD (external shipper)		[EIC-Code BO]		[EIC-Code BO]		[EIC-Code BO]		[EIC-Code BO]		[EIC-Code Counterpart]	
6		RFF (reference)											
7		QTY (direction)		200		200		200		200		200	
8		Version		1		1		1		1		1	
9		NOMRES-Revision											
10		Comments											
11													
12													
13													
14													
15		checksum kWh		24		3600		1200		2400		2400	
16													
17		FROM TO		kWh		kWh		kWh		kWh		kWh	
18		06:00 07:00		10		100		100		0		100	
19		07:00 08:00		10		100		100		0		100	
20		08:00 09:00		10		100		100		0		100	
21		09:00 10:00		10		100		100		0		100	
22		10:00 11:00		10		100		100		0		100	
23		11:00 12:00		10		100		100		0		100	
24		12:00 13:00		10		100		100		0		100	
25		13:00 14:00		10		100		100		0		100	
26		14:00 15:00		10		100		100		0		100	
27		15:00 16:00		10		100		100		0		100	
28		16:00 17:00		10		200		0		200		100	
29		17:00 18:00		10		100		100		0		100	
30		18:00 19:00		10		200		0		200		100	
31		19:00 20:00		10		0		0		0		100	
32		20:00 21:00		10		300		100		200		100	
33		21:00 22:00		10		200		0		200		100	
34		22:00 23:00		10		200		0		200		100	
35		23:00 00:00		10		200		0		200		100	
36		00:00 01:00		10		200		0		200		100	
37		01:00 02:00		10		200		0		200		100	
38		02:00 03:00		10		200		0		200		100	
39		03:00 04:00		10		200		0		200		100	
40		04:00 05:00		10		200		0		200		100	
41		05:00 06:00		10		200		0		200		100	
42		TOTAL		240		3600		1200		2400		2400	

### 8.1.2 Example: Nomination with the SSO/PSO

In this example, gas is withdrawn from a storage pool (corresponds to an entry into the MA).

	A	B	C
1	<b>NOMINT</b>	<b>DTM (date)</b>	15.08.2013
2		<b>STS (priority)</b>	
3	<b>NAD (internal shipper)</b>		[EIC-Code BG]
4	<b>LOC (location)</b>		[Location/Pool]
5	<b>NAD (external shipper)</b>		[EIC-Code BG]
6	<b>RFF (reference)</b>		
7	<b>QTY (direction)</b>		Z02
8	<b>Version</b>		1
9	<b>NOMRES-Revision</b>		
10	<b>Comments</b>		
11			
12			
13			
14			
15	<b>checksum</b>	<b>kWh</b>	<b>24000</b>
16			
17	<b>FROM</b>	<b>TO</b>	<b>kWh</b>
18	06:00	07:00	1000
19	07:00	08:00	1000
20	08:00	09:00	1000
21	09:00	10:00	1000
22	10:00	11:00	1000
23	11:00	12:00	1000
24	12:00	13:00	1000
25	13:00	14:00	1000
26	14:00	15:00	1000
27	15:00	16:00	1000
28	16:00	17:00	1000
29	17:00	18:00	1000
30	18:00	19:00	1000
31	19:00	20:00	1000
32	20:00	21:00	1000
33	21:00	22:00	1000
34	22:00	23:00	1000
35	23:00	00:00	1000
36	00:00	01:00	1000
37	01:00	02:00	1000
38	02:00	03:00	1000
39	03:00	04:00	1000
40	04:00	05:00	1000
41	05:00	06:00	1000
42		<b>TOTAL</b>	<b>24000</b>

### 8.1.3 Example: ALOCAT by the DAM

	A	B	C	D	E	F	G
1	<b>ALOCAT</b>	<b>DTM (date)</b>	15.08.2013	15.08.2013	15.08.2013	15.08.2013	15.08.2013
2							
3	<b>NAD (internal shipper)</b>		[EIC-Code BG]	[EIC-Code BG]	[EIC-Code BG]	[EIC-Code BG]	[EIC-Code BG]
4	<b>LOC (location)</b>		[EIC-Code Aggregationspunkt SB]	[EIC-Code Aggregationspunkt TB]	[EIC-Code Speicherpool]	[EIC-Code Speicherpool]	[EIC-Code Grenz koppelpunkt VG]
5							
6	<b>RFF (reference)</b>						
7	<b>QTY (direction)</b>		Z03	Z03	Z02	Z03	Z02
8	<b>Version</b>		1	1	1	1	1
9							
10	<b>Comments</b>						
11							
12							
13							
14							
15	<b>checksum</b>	<b>kWh</b>	3600	240	120	120	2400
16							
17	<b>FROM</b>	<b>TO</b>	<b>kWh</b>	<b>kWh</b>	<b>kWh</b>	<b>kWh</b>	<b>kWh</b>
18	06:00	07:00	100	10	10	0	100
19	07:00	08:00	100	10	10	0	100
20	08:00	09:00	100	10	10	0	100
21	09:00	10:00	100	10	10	0	100
22	10:00	11:00	100	10	10	0	100
23	11:00	12:00	100	10	10	0	100
24	12:00	13:00	100	10	10	0	100
25	13:00	14:00	100	10	10	0	100
26	14:00	15:00	100	10	10	0	100
27	15:00	16:00	100	10	10	0	100
28	16:00	17:00	200	10	10	0	100
29	17:00	18:00	100	10	10	0	100
30	18:00	19:00	200	10	0	10	100
31	19:00	20:00	0	10	0	10	100
32	20:00	21:00	300	10	0	10	100
33	21:00	22:00	200	10	0	10	100
34	22:00	23:00	200	10	0	10	100
35	23:00	00:00	200	10	0	10	100
36	00:00	01:00	200	10	0	10	100
37	01:00	02:00	200	10	0	10	100
38	02:00	03:00	200	10	0	10	100
39	03:00	04:00	200	10	0	10	100
40	04:00	05:00	200	10	0	10	100
41	05:00	06:00	200	10	0	10	100
42		<b>TOTAL</b>	3600	240	120	120	2400

### 8.1.4 Example: IMBNOT (imbalance notice)

<b>IMBNOT IN</b>	<b>DTM (date)</b>	15.08.2013	15.08.2013	15.08.2013	15.08.2013	15.08.2013
<b>STS (reconciliation status)</b>						
<b>NAD (internal shipper)</b>		[EIC-Code BG]	[EIC-Code BG]	[EIC-Code BG]	[EIC-Code BG]	[EIC-Code BG]
<b>LOC (location)</b>		[EIC-Code MG Ost]	[EIC-Code MG Ost]	[EIC-Code MG Ost]	[EIC-Code MG Ost]	[EIC-Code MG Ost]
<b>RFF (reference)</b>		IMBALANCE_LONG	IMBALANCE_SHORT	ENTRY	EXIT	CF_ACCOUNT_EOD
<b>QTY (direction)</b>		ZPE	ZPD	ZPE	ZPD	ZPE
<b>Version</b>		1	1	1	1	1
<b>Comments</b>						
<b>checksum</b>	<b>kWh</b>	<b>2000</b>	<b>1000</b>	<b>2700</b>	<b>1700</b>	<b>1020</b>
<b>FROM</b>	<b>TO</b>	<b>kWh</b>	<b>kWh</b>	<b>kWh</b>	<b>kWh</b>	<b>kWh</b>
06:00	07:00	1000	0	1500	500	0
07:00	08:00	1000	0	1200	200	0
08:00	09:00	0	1000	0	1000	0
09:00	10:00	0	0	0	0	0
10:00	11:00	0	0	0	0	0
11:00	12:00	0	0	0	0	0
12:00	13:00	0	0	0	0	0
13:00	14:00	0	0	0	0	0
14:00	15:00	0	0	0	0	0
15:00	16:00	0	0	0	0	0
16:00	17:00	0	0	0	0	0
17:00	18:00	0	0	0	0	0
18:00	19:00	0	0	0	0	0
19:00	20:00	0	0	0	0	0
20:00	21:00	0	0	0	0	0
21:00	22:00	0	0	0	0	0
22:00	23:00	0	0	0	0	0
23:00	00:00	0	0	0	0	0
00:00	01:00	0	0	0	0	0
01:00	02:00	0	0	0	0	0
02:00	03:00	0	0	0	0	0
03:00	04:00	0	0	0	0	0
04:00	05:00	0	0	0	0	0
05:00	06:00	0	0	0	0	1020
<b>TOTAL</b>		<b>2000</b>	<b>1000</b>	<b>2700</b>	<b>1700</b>	<b>1020</b>

### 8.1.5 Example: IMBNOT (balance order info)

	A	B	C
1	<b>IMBNOT_OI</b>	<b>DTM (date)</b>	15.08.2013
2	<b>STS (reconciliation status)</b>		04G
3	<b>NAD (internal shipper)</b>		[EIC-Code BG]
4	<b>LOC (location)</b>		[EIC-Code MG-Ost]
5			
6	<b>RFF (reference)</b>		
7	<b>QTY (direction)</b>		ZPD
8	<b>Version</b>		1
9			
10	<b>Comments</b>		
11			
12			
13			
14			
15	<b>checksum</b>	<b>kWh</b>	1500
16			
17	<b>FROM</b>	<b>TO</b>	<b>kWh</b>
18	06:00	07:00	0
19	07:00	08:00	0
20	08:00	09:00	0
21	09:00	10:00	0
22	10:00	11:00	0
23	11:00	12:00	0
24	12:00	13:00	0
25	13:00	14:00	0
26	14:00	15:00	0
27	15:00	16:00	100
28	16:00	17:00	100
29	17:00	18:00	100
30	18:00	19:00	100
31	19:00	20:00	100
32	20:00	21:00	100
33	21:00	22:00	100
34	22:00	23:00	100
35	23:00	00:00	100
36	00:00	01:00	100
37	01:00	02:00	100
38	02:00	03:00	100
39	03:00	04:00	100
40	04:00	05:00	100
41	05:00	06:00	100
42		<b>TOTAL</b>	<b>1500</b>

### 8.1.6 Example: IMBNOT (balance order notice)

	A	B	C
1	<b>IMBNOT_ON</b>	<b>DTM (date)</b>	15.08.2013
2	<b>STS (reconciliation status)</b>		05G
3	<b>NAD (internal shipper)</b>		[EIC-Code BG]
4	<b>LOC (location)</b>		[EIC-Code MG-Ost]
5			
6	<b>RFF (reference)</b>		
7	<b>QTY (direction)</b>		ZPD
8	<b>Version</b>		1
9			
10	<b>Comments</b>		
11			
12			
13			
14			
15	<b>checksum</b>	<b>kWh</b>	<b>1500</b>
16			
17	<b>FROM</b>	<b>TO</b>	<b>kWh</b>
18	06:00	07:00	0
19	07:00	08:00	0
20	08:00	09:00	0
21	09:00	10:00	0
22	10:00	11:00	0
23	11:00	12:00	0
24	12:00	13:00	0
25	13:00	14:00	0
26	14:00	15:00	0
27	15:00	16:00	100
28	16:00	17:00	100
29	17:00	18:00	100
30	18:00	19:00	100
31	19:00	20:00	100
32	20:00	21:00	100
33	21:00	22:00	100
34	22:00	23:00	100
35	23:00	00:00	100
36	00:00	01:00	100
37	01:00	02:00	100
38	02:00	03:00	100
39	03:00	04:00	100
40	04:00	05:00	100
41	05:00	06:00	100
42		<b>TOTAL</b>	<b>1500</b>

### 8.2 List of abbreviations

ABBREVIATION	DESCRIPTION
AS/4	Applicability Statement 4
BG	balance group
BRP	balance responsible party
BSA	balance sub-account

ABBREVIATION	DESCRIPTION
AS/2	Applicability Statement 2
BG	balance group
BRP	balance responsible party
BSA	balancing sub-account
CBP	common business practice
CE(S)T	Central European (summer) time
CF	carry forward
CSA	clearing and settlement agent
DA	distribution area
DAM	distribution area manager
DSO	distribution system operator
EASEE-gas	European Association for the Streamlining of Energy Exchange (Gas)
EDIG@S	electronic data interchange (gas)
EIC	energy identification code
EOD	end of day
GTC	general terms and conditions
KISS-A	Keep It Short and Simple (Austria)
LM	load meter
MA	market area
MAM	market area manager
MIG	message implementation guideline
OBA	operational balancing account
OTC	over the counter
PSO	producer (production system operator)
S/MIME	secure/multipurpose internet mail extensions
sFTP	secure file transfer protocol
SLP	standard load profile
SMTP	simple mail transfer protocol
SO	system operator (includes, inter alia, TSO, SSO, PSO)
SSO	storage system operator
TN	transmission network
TSO	transmission system operator

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ABBREVIATION	DESCRIPTION
VTP	virtual trading point
VTP-O	operator of the virtual trading point