E-CONTROL

Gas Market Code

Chapter 3

Schedules in the Tyrol and Vorarlberg Market Areas

Gas Market Rules

2013

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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** with the corresponding system roles as defined in Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg market areas (MAs).

Following the introduction of the entry/exit system in the Tyrol and Vorarlberg market areas, BRPs inject or withdraw gas in each balance group (BG) by means of schedules at distribution level.[1]

For that purpose, the following categories of data exchange are of relevance:

Schedules (section 3):
The BRP informs the respective system operator of the intended injection into or withdrawal from its system.

Confirmations of schedules (section 4):
The respective system operators establish for each BG the confirmable injections and withdrawals in a validation and matching process, and inform the BRP of the result by means of a schedule confirmation.

Allocation information (section 5):
The respective system operators send the BRP once daily on D+1 the BG allocations that result from the confirmed schedule messages.

Information on imbalances (section 6):
Following that, the distribution area manager (DAM) nets the nominations of the corresponding BGs in the upstream market area Net Connect Germany (MA NCG) that have been confirmed for transfer into the Tyrol and Vorarlberg MAs and the confirmed schedule messages in these MAs. The DAM also 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 OBA (i.e. connections of consumers and biogas facilities), it is the clearing and settlement agent (CSA) that determines deviations between the schedules confirmed and the withdrawals and injections metered or calculated. 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).

[1] Data exchange in respect of nominations in the adjacent upstream market area Net Connect Germany is not part of this Chapter of the Gas Market Code.

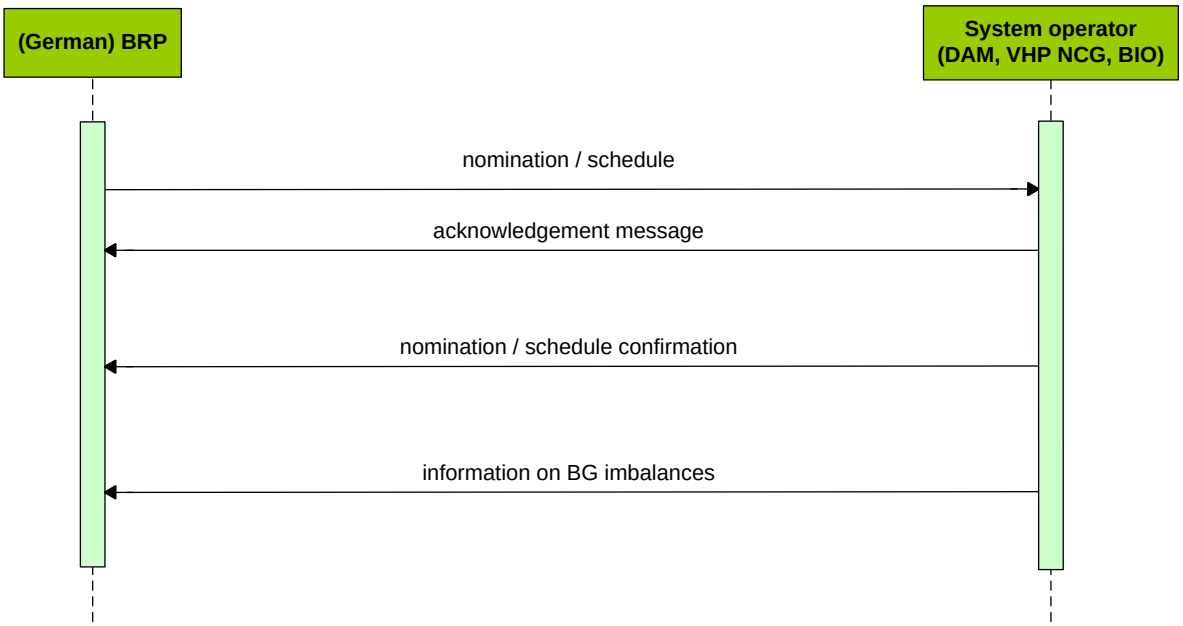
2 Basic requirements for the exchange of messages

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 the system operators 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 for the Tyrol and Vorarlberg Market Areas.

The following technical interfaces can be used for handling the exchange of messages in consultation with the system operators from 1 January 2013:

- SMTP (e-mail)
- AS/2
- sFTP

The specific requirements for establishing and testing such interfaces 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 for the eastern MA (http://www.gasconnect.at/en/Market-Area-Manager) and on the web-site of ENTSO-E (www.eiccodes.eu).

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.

2.5 Format standard KISS-A

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.

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 (DD.MM.YYYY). Dates must always be given in the following format: two digits each for the day and month, and four digits for the year.

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	INFO	Gas Day	27.01.2013
2			
3		E-Mail-Adress	Musterfirma@bgv.at
4		Contact	Max Mustermann
5		Phone Number	+43 000 123 456 78
6		Fax Number	+43 000 123 456 79
7		EIC-Code Balance Group Responsible	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 address a nomination / a schedule / a message (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. In addition, 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 respective data column. Here, the schedule values for the respective gas day, i.e. the 24 hour values, are entered. For special requirements on days of a clock change, see section 2.5.5.

Note: the rows containing the daily total just serve 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 ≥ 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 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, which is why all formulae must be removed before sending. 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 version 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: the information contained in a KISS-A form that has been submitted may not be reduced 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 retained until the end of the gas day in question and be zeroed out.

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 state 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 CET→CEST: 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		TOTAL	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		**TOTAL**	**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 Schedules

By way of schedules, the BRP notifies gas volumes to system operators at grid points that are subject to scheduling procedures.

System operators use the schedules to check whether sufficient capacity has been booked for the gas volumes notified. For the distribution area manager, the schedules in the Tyrol and Vorarlberg MAs represent the information required for managing the market areas and for meeting the distribution area manager's information obligations.

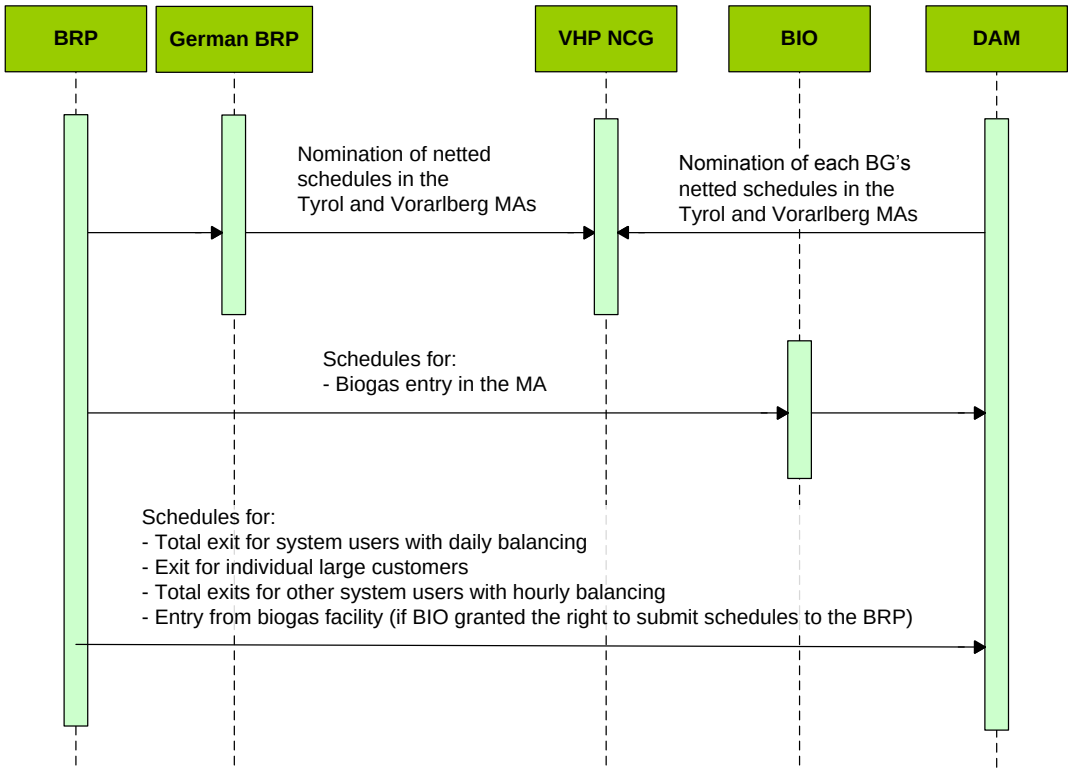
The following cases are provided for:

SCHEDULE MESSAGE BY	RECIPIENT	FORMATS
Total exit for system users with daily balancing	DAM	EDIG@S (NOMINT) KISS-A (nomination notification)
Exit for individual large consumers and total exit for other system users with hourly balancing	DAM	EDIG@S (NOMINT) KISS-A (nomination notification)
Entry from biogas facilities	BIO	EDIG@S (NOMINT) KISS-A (nomination notification)

Notes:

"Other system users with hourly balancing" means the total of all consumers with load profile meters ≤ 50 MW in the hourly balancing regime.

3.1 Overview of nomination and schedule messages of the BRP



Note: nominations submitted to the NCG VTP are not addressed in this Chapter of the Gas Market Code.

3.2 EDIG@S NOMINT

3.2.1 Use in the scheduling process

NOMINT is applied pursuant Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs and EDIG@S (http://www.edigas.org/).

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 Tyrol and Vorarlberg MAs 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 TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL AND VORARLBERG MAS
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
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
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 volumes or exit volumes can be specified. Only hourly values 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

3.3 KISS-A nomination notification

3.3.1 Use in the scheduling process

The KISS-A nomination notification is applied pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs.

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

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

SYNTAX	DATA[blank][gas day]_[search criterion]_[VV]
EXAMPLE	*DATA 20130127_BRP-code_AGGM_MA_TYROL_04*
ELEMENT	**DESCRIPTION**
[gas day]	Gas day to which the schedule applies in the format [YYYYMMDD]
[search criteri-on]	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 (where applicable, with zero in front)

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	BIO
1	DTM (date)	Gas day	Gas day pursuant to date specification	Gas day pursuant to date specification
2	STS (priority)	Order of priority - the functionality of this segment is not supported	■ No value ■ 30G ■ 31G	■ No value ■ 30G ■ 31G
3	NAD (internal shipper, ZSH)	BG in the Tyrol or Vorarlberg MA	BG EIC code	BG EIC code

R	Column B	Description	Columns from C, if sent to	
			DAM	BIO
4	LOC (location)	Location	■ Aggregation point EIC code: ■ System users with daily balancing ■ Other system users with hourly balancing ■ Large consumer metering point	ZSO code (e.g. injection point)
5	NAD (external shipper, ZES)	Counterpart code	EIC code of corresponding BG in NCG MA	BG EIC code
6	RFF (reference)	Code row	Empty	■ Empty ■ Product ID
7	QTY (direction)	Direction	■ Z02 ■ Z03	■ Z02
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 market area are virtual locations that solely serve to process the corresponding time series.

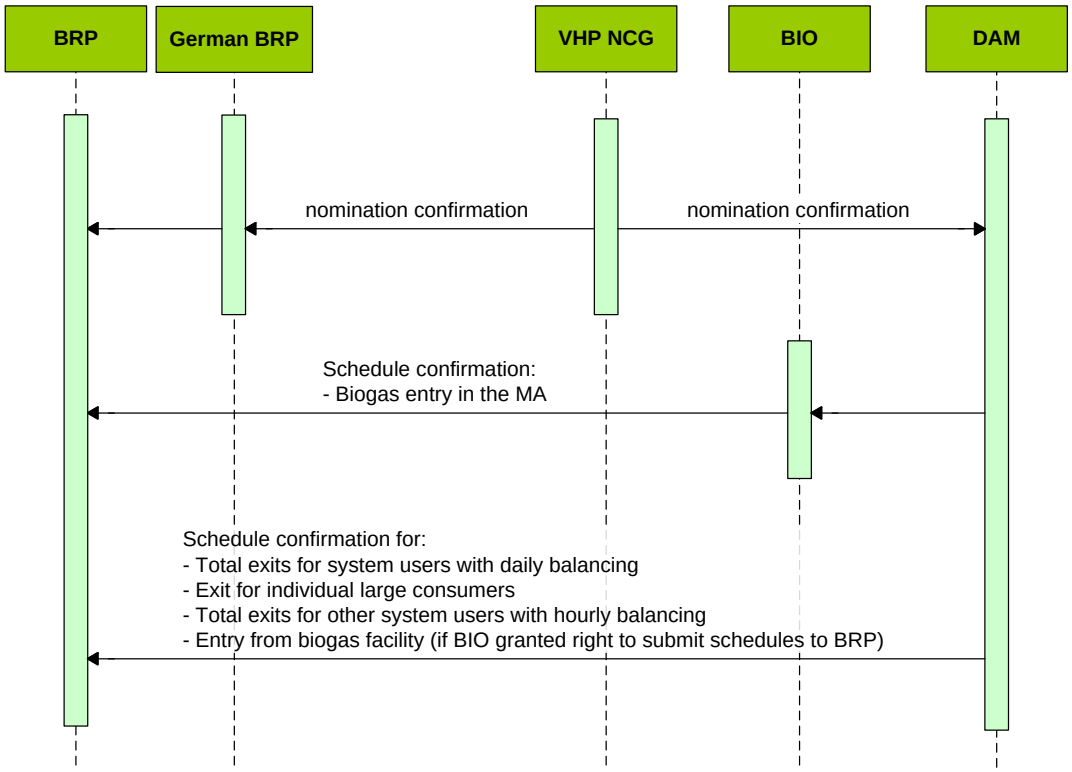
4 Schedule confirmations

Schedule confirmations serve for system roles to inform BRPs of the gas volume that can actually be handled as compared to the gas volumes notified at their grid points that are subject to scheduling procedures. For the schedule confirmation, the system operator uses the format last used by the BRP.

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

CONFIRMATION BY	SENDER	FORMATS
Total exit for system users with daily balancing	DAM	EDIG@S (NOMRES) KISS-A (confirmation notification)
Exit for individual large consumers and total exit for other system users with hourly balancing	DAM	EDIG@S (NOMRES) KISS-A (confirmation notification)
Entry from biogas facilities	BIO	EDIG@S (NOMRES) KISS-A (confirmation notification)

4.1 Overview of nomination and schedule confirmation notifications



Note: nomination confirmations submitted by the NCG VTP are not addressed in this Chapter of the Gas Market Code.

4.2 EDIG@S NOMRES

4.2.1 Use in the scheduling process

NOMRES is applied pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs 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 Tyrol and Vorarlberg market areas 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 TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
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
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

SEGMENT	CONTENT	USE IN THE TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
SG 29 LIN → SG 34 RFF	Contract reference	Pursuant to MIG	Pursuant to requirements by system operators
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 volumes or exit volumes can be specified. Only hourly values 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

4.3 KISS-A confirmation notification

4.3.1 Use in the scheduling process

The KISS-A confirmation notification is applied pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs.

The system operator can combine confirmation of several 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_MA_TYROL_04_NOMRES*
ELEMENT	**DESCRIPTION**
[gas day]	Gas day to which the 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 (where applicable, with zero in front)

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	BIO
1	DTM (date)	Gas day	Gas day pursuant to date specification	Gas day pursuant to date specification
2	STS (priority)	Order of priority - the functionality of this segment is not supported	■ No value ■ 30G ■ 31G	■ No value ■ 30G ■ 31G
3	NAD (internal shipper, ZSH)	BG in the Tyrol or Vorarlberg MA	BG EIC code	BG EIC code
4	LOC (location)	Location	■ Aggregation point EIC code: ■ System users with daily balancing ■ Other system users with hourly balancing ■ Large consumer metering point	ZSO code (e.g. injection point)
5	NAD (external shipper, ZES)	Counterpart code	EIC code of the corresponding BG in the NCG MA	BG EIC code
6	RFF (reference)	Code row	Empty	■ Empty ■ Product ID
7	QTY (direction)	Direction	■ Z02 ■ Z03	■ Z02
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

R	Column B	Description	Columns from C, if used by	
			DAM	BIO
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 market area are virtual locations that solely serve to process the corresponding time series.

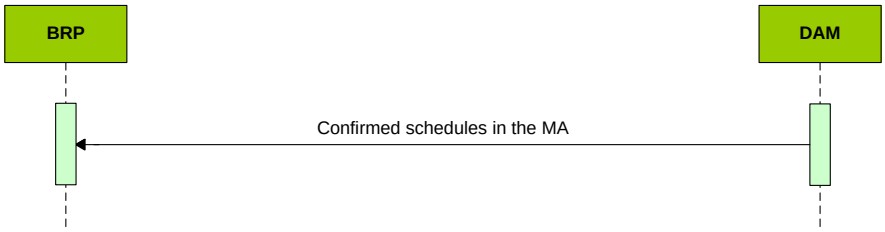
5 Allocation messages

Pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs, on D+1 the BRP receives the values allocated by the respective system operator as information in addition to the confirmed schedules.

The following cases are provided for:

INFORMATION CONTENT	SENDER	FORMATS
Allocated schedules for biogas 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 scheduling process

ALOCAT is applied pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs 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 Tyrol and Vorarlberg market areas 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 TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
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
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 TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
LIN→SG 36 LOC	Location identification	Pursuant to MIG	Special requirements for location names: ■ DAM: in accordance with the schedules submitted by the BRP for biogas and users with daily balancing; aggregation point EIC code for the latter
LIN→SG36→DTM	Time and validity identification	Pursuant to MIG	Pursuant to MIG
LIN→SG37 QTY	Quantity identification	Pursuant to MIG	Requirements deviating from the MIG: ■ For each line item, only either entry volumes or exit volumes can be specified ■ Only hourly volumes are permitted
LIN→SG37→STS	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

5.3.1 Use in the scheduling process

KISS-A ALOCAT is applied pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs.

The subject line is composed as follows:

SYNTAX	DATA[blank][gas day]_[search criterion]_[VV] _ALOCAT
EXAMPLE	*DATA 20130127_BRP-code_AGGM_MA_TYROL_04_ALOCAT*
ELEMENT	**DESCRIPTION**
[gas day]	Gas day to which the 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 (where applicable, with zero in front)

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	Columns from C, if used by		
				DAM	
1	DTM (date)	Gas day		Gas day pursuant to date specification	
2	-	-		-	
3	NAD (internal shipper, ZSH)	BG in the Tyrol or Vorarlberg MA		BG EIC code	
4	LOC (location)	Location		Location EIC code: ■ Location biogas (pool) ■ Location “point of system user with daily balancing” ■ Location “point of system user with hourly balancing”	
5	-	-		-	
6	RFF (contract reference)	Code row		■ In allocation messages: empty ■ In SLP forecasts: “SLP_Forecast”	■
7	QTY (direction)	Direction	■	■ Z02 ■ Z03	■
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

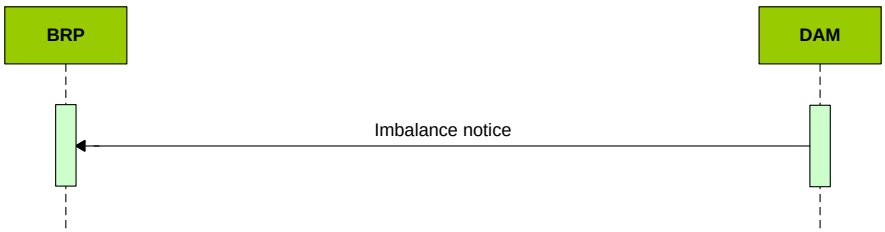
The DAM informs the BRPs about:

the hourly imbalance based on allocated nominations of the corresponding BGs at the VTP in the neighbouring upstream NCG MA and the allocated schedules in the Tyrol and Vorarlberg MAs

For these purposes, the following messages are provided for:

MESSAGE	SENDER	FORMATS
Imbalance notice (hourly imbalance, hourly injection and hourly withdrawal of the BG)	DAM	EDIG@S (IMBNOT) KISS-A (imbalance 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.

- ZPD → Debit → BRP debit towards DAM → BG short
- ZPE → Credit → BRP claim from DAM → BG long

6.3 EDIG@S IMBNOT

6.3.1 Use in the settlement process

IMBNOT is applied by the DAM pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs and EDIG@S (http://www.edigas.org/):

DESCRIPTION	INFORMATION CONTAINED	DISTINCTION
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)	BGM MessageType: 14G (imbalance notification) RFF (SG32): code from list of codes (IMBALANCE_LONG, IMBALANCE_SHORT, ENTRY, EXIT) Hourly values in line items (QuantityInformation by way of SG36-SG37)

Notes on XML implementation:

- The imbalance notice contains only QuantityInformation.

6.3.2 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 Tyrol and Vorarlberg market areas 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 TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
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
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

SEGMENT	CONTENT	USE IN THE TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
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	Pursuant to MIG IMBALANCE_LONG (hourly imbalance, BG long, ZPE) IMBALANCE_SHORT (hourly imbalance, BG short, ZPD) ENTRY (hourly injection, total, ZPE) EXIT (hourly withdrawal, total, ZPD)
SG 27 LIN → SG36 LOC	Location identification	Pursuant to MIG	EIC code “MG T&V” [1]
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

[1] Imbalances can only be calculated as a total for the Tyrol and Vorarlberg MAs, i.e. the location is a virtual aggregation point that includes both MAs.

6.4 KISS-A IMBNOT

6.4.1 Use in the settlement process

KISS-A IMBNOT is applied by the MAM pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs:

DESCRIPTION	INFORMATION CONTAINED	DISTINCTION
IMBNOT (imbalance notice)	Based on allocated nominations (one column each): hourly imbalance (BG long) hourly imbalance (BG short) hourly injection (total) hourly withdrawal (total)	Cell A1: IMBNOT_IN Header information: • STS (SG43)=empty • RFF (SG32)=code from list of codes (IMBALANCE_LONG, IMBALANCE_SHORT, ENTRY, EXIT)

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

SYNTAX	DATA[blank][gas day]_[search criterion]_[VV] _IMBNOT_[case]
EXAMPLE	*DATA 20130127_BRP-code_AGGM_02_IMBNOT_IN*
ELEMENT	**DESCRIPTION**
[gas day]	Gas day to which the schedule applies in the format [YYYYMMDD]
[search criterion]	Contains the BRP code and the acronym of the DAM
[VV]	Version number, two digits (where applicable, with zero in front)
[case]	IN (see above)

6.4.2 KISS-A IMBNOT application specifications

IMBNOT is applied pursuant to Chapter 2 of the Gas Market Code for the Tyrol and Vorarlberg MAs.

R...row of the KISS-A file

R	Column B	Description	Columns from C, for case		
			Imbalance notice		
1	DTM (date)	Gas day	Gas day pursuant to date specification		
2	STS (reconciliation status)		Empty		
3	NAD (internal shipper, ZSH)	BG in the Tyrol or Vorarlberg MA	BG EIC code		
4	LOC (location)	Location	EIC code “MG T&V” [1]		
5	-	(reserved)	Empty		
6	RFF (reference)	Code row	■ IMBALANCE_LONG ■ IMBALANCE_SHORT ■ ENTRY ■ EXIT		
7	QTY (direction)	Direction	■ ZPD ■ ZPE	■	■
8	- (version)	Version	Ascending starting with 1		
9	-	(reserved)	Empty		
10 - 14	-	Comment field (reserved)	Empty		
15	- (kWh/d)	Daily volume	Positive integer value		
16	-	(reserved)	Empty		
17	QTY (measurement unit)	Unit	kWh		

R	Column B	Description	Columns from C, for case		
			Imbalance notice		
18 - 41	QTY (quantity)	Hourly volume or contract volume in kWh/h	Imbalance information: positive integer values CF account balance: positive integer value in hour 05:00-06:00, other rows are set to 0		
42	- (total kWh/d)	Daily volume	Positive integer value		

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

[1] Imbalances can only be calculated as a total for the Tyrol and Vorarlberg MAs, i.e. the location is a virtual aggregation point that includes both MAs.

7 Acknowledgement message

For schedule messages, an acknowledgement message is provided for. 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.

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 Tyrol and Vorarlberg market areas 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 TYROL & VORARLBERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
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
SG 2 RFF	Reference to the original message	Pursuant to MIG	Pursuant to MIG

SEGMENT	CONTENT	USE IN THE TYROL & VORARL-BERG MAS	ADDITIONAL CODE QUALIFIERS FOR THE TYROL & VORARLBERG MAS
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

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 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:

SYNTAX	DATA_QUIT[blank][XX]-OK[blank][YY]-NOK[blank][reference]
EXAMPLE	*DATA_QUIT 15-OK 2-NOK DATA 20130127_BRP-code_AGGM_MA_TYROL_04*
ELEMENT	**DESCRIPTION**
[XX]	Number of “OK” values reported
[YY]	Number of “NOK” (not OK) values reported
[reference]	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.

8 Annex

8.1 KISS-A examples

Before being used, the examples must be adjusted to the specific details of the intended transport 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: Schedule sent to the DAM

This example corresponds to the scheduling of the consumption of several (where applicable) consumers in the daily and hourly balancing system and one large consumer.

NOMINT	DTM (date)	15.08.2013	15.08.2013	15.08.2013
	STS (priority)			
	NAD (internal shipper)	[EIC-Code BG]	[EIC-Code BG]	[EIC-Code BG]
	LOC (location)	[EIC-Code Aggregationspunkt TB]	[EIC-Code Aggregationspunkt SSB]	[Locationcode Großabnehmer]
	NAD (external shipper)	[BKV-Code MG NCG]	[BKV-Code MG NCG]	[BKV-Code MG NCG]
	RFF (reference)			
	QTY (direction)	Z03	Z03	Z03
	Version	1	1	1
	NOMRES-Revision			
	Comments			
checksum	kWh	24	3600	1200
FROM	TO	kWh	kWh	kWh
06:00	07:00	10	100	100
07:00	08:00	10	100	100
08:00	09:00	10	100	100
09:00	10:00	10	100	100
10:00	11:00	10	100	100
11:00	12:00	10	100	100
12:00	13:00	10	100	100
13:00	14:00	10	100	100
14:00	15:00	10	100	100
15:00	16:00	10	100	100
16:00	17:00	10	200	0
17:00	18:00	10	100	100
18:00	19:00	10	200	0
19:00	20:00	10	0	0
20:00	21:00	10	300	100
21:00	22:00	10	200	0
22:00	23:00	10	200	0
23:00	00:00	10	200	0
00:00	01:00	10	200	0
01:00	02:00	10	200	0
02:00	03:00	10	200	0
03:00	04:00	10	200	0
04:00	05:00	10	200	0
05:00	06:00	10	200	0
	TOTAL	240	3600	1200

8.1.2 Example: Schedule submitted by the BIO

	A	B	C
1	NOMINT	DTM (date)	15.08.2013
2		STS (priority)	
3		NAD (internal shipper)	[EIC-Code BG]
4		LOC (location)	[Location/Pool]
5		NAD (external shipper)	[EIC-Code BG]
6		RFF (reference)	
7		QTY (direction)	Z02
8		Version	1
9		NOMRES-Revision	
10		Comments	
11			
12			
13			
14			
15	checksum	kWh	24000
16			
17	FROM	TO	kWh
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		TOTAL	24000

8.1.3 Example: ALOCAT by the DAM

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

8.1.4 Example: IMBNOT (imbalance notice)

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

8.2 List of abbreviations

ABBREVIATION	DESCRIPTION
AS/2	Applicability Statement 2
BG	balance group
BIO	biogas production facility operator
BRP	balance responsible party
BSA	balancing sub-account
CBP	common business practice
CE(S)T	central European (summer) time
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
GTC	general terms and conditions
GTC-CSA	general terms and conditions of the clearing and settlement agent
KISS-A	Keep It Short and Simple (Austria)
LPM	load profile meter
MA	market area
MAM	market area manager
MIG	message implementation guideline
OBA	operational balancing agreement
OTC	over-the-counter
S/MIME	secure/multipurpose internet mail extensions
sFTP	secure file transfer protocol
SLP	standardised load profile
SMTP	simple mail transfer protocol
SO	system operator (includes, inter alia, TSO, SSO)
SSO	storage system operator
TSO	transmission system operator
VTP	virtual trading point
VTP-O	operator of the virtual trading point