

Wholesale gas

Allocation messaging process

Name: Allocation messaging process

Version: 9.0

Reference:

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Changes			
Version	Date	Changes	By
1.0	08-02-2012	Initial version	AT
1.1	01-03-2012	Review comments ICWG and market party specialists incorporated. Error codes for conf messages added. BALL status codes added.	AT
1.2	07-03-2012	Approved by ALV NEDU	EDSN
1.2a	11-06-2012	Two bug fixes: 4.2.5. Return codes: missing 40G added to allocation (as replacement for XCNRTL) and missing 40G and 41G added to OV-Exit. Versioning and timing OVEXIT (version 1): "Received not later than working day 6 after the gas month" replaced by "Received not later than working day 6 in the gas month concerned".	EDSN
1.3	23-12-2013	User category "GMN" added for "Netverlies gas".	EDSN
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2.1	04-11-2014	User category "GMN" removed as a result of the verdict of the "College van Beroep voor het bedrijfsleven" (CBb).	EDSN
2.6	14-11-2014	Version to inform IC WG and PAB	EDSN
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5.3	18-04-2018	Version to inform IC WG and PAB	EDSN
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6.0	29-05-2018	Approved by ALV NEDU	EDSN
6.3	23-08-2019	Role CDSO added for IC220	EDSN
6.6	15-10-2019	Added for CDSO: sends only BALL and LALL messages	EDSN
6.61	25-10-2019	Added CDSO	EDSN
6.9	29-10-2019	Version for approval by ALV NEDU	EDSN
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7.6	03-05-2022	Version for review by CMF EDSN and SI - CDSO is applicable to wholesale gas - Document template adapted to new EDSN corporate design	EDSN
7.9	16-05-2022	Version for approval by BAS	EDSN
8.0	01-06-2022	Approved by MFF	EDSN
8.1	24-07-2024	- TR2021: RFC249.3 Mapping status codes of XML Measured value telemetry to BALL - Document template adapted to MFFBAS corporate design	EDSN
8.3	05-09-2024	Version for review by 'Peer Review' Berichtenteam MFFBAS and GTS	EDSN
8.31	28-10-2025	Changed table in paragraph 4.6.1 regarding BALL statuses in RFC 249.3.	Berichtenteam MFFBAS
8.6	10-11-2025	Version for market review	Berichtenteam MFFBAS
8.7	17-11-2025	Corrected textual mistake in paragraph 4.6.1 based on review feedback.	Berichtenteam MFFBAS
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Table of contents

1. Introduction	4
2. Basic assumptions	5
3. Message process	9
3.1. Description of the content of the messages	9
3.2. Workflow of the messages	10
3.2.1. MINFO	11
3.2.2. TINFO	12
3.2.3. LALL	13
3.2.4. CINFO	14
3.2.5. BALL	15
3.2.6. OVEXIT	16
4. Message definitions	17
4.1. General	17
4.1.1. Time zone	17
4.1.2. Transition from winter time to summer time	17
4.1.3. Transition from summer time to winter time	18
4.2. Messages in general	19
4.2.1. Message names	19
4.2.2. Global description of messages	19
4.2.3. Units	20
4.2.4. Type definitions	21
4.2.5. Return codes	21
4.3. Measurement messages	22
4.3.1. MINFO	22
4.3.2. MCONF	23
4.4. Temperature messages	23
4.4.1. TINFO	23
4.4.2. TCONF	23
4.5. National allocation messages	24
4.5.1. LALL	24
4.5.2. LCONF	24
4.6. Measured connection allocation messages	25
4.6.1. BALL	25
4.6.2. BCONF	29
4.7. Measurement correction factor messages	29
4.7.1. CINFO	29
4.7.2. CCONF	29
4.8. Capacity messages	30
4.8.1. OVEXIT	30
4.8.2. OCONF	30

1. Introduction

This document outlines the messaging of the allocation process at inland main grid network points. This document replaces the previous functional description of this messaging process Daily allocation (1.6).doc. The immediate cause of the replacement of the latter document is the migration to XML messages as of November 2012.

2. Basic assumptions

Definitions

1. LDC: a Local Distribution Company (*Regionaal Netbedrijf*);
2. GTS: Gastransport Services, the Transmission System Operator (TSO) in the Netherlands;
3. Network point: logical network point within the network of Gastransport Services. In the context of this document a network point refers to either a grid area (an LDC/CDSO network point) or an industrial exit;
4. Gas day: a period that begins at 06:00 (LET) of a calendar day and ends at 06:00 (LET) of the following calendar day. The date of a gas day will be the date on which the gas day begins as described above;
5. Gas month: the period that begins at 06:00 (LET) on the first day of a calendar month and ends at 06:00 (LET) on the first day of the next calendar month, e.g. 1 April 2011, 06:00 to 1 May 2011, 06:00;
6. Sign convention: the following sign conventions (+, -) apply within GTS:
 - i. gas leaving the GTS grid has a positive sign;
 - ii. gas entering the GTS grid has a negative sign;
This means that measurements, nominations and allocations must be sent according to this sign convention, in other words:
 - iii. flow measurements from GTS are positive;
 - iv. allocations from GTS are positive;
7. User category: classification of the type of connection, based on the characteristics of the connection (e.g. hourly capacity, yearly usage, etc.). Possible values of the user category: G1A, G2A, G2C, GGV, GXX, GMN, GIN and GIS;
8. Measurement correction factor (MCF): factor is determined by LDC per hour as follows:
 - i. $A = [\text{offtake at network point (grid area)}] \text{ minus } [\text{sum of (hourly measured connections)}]$;
 - ii. $B = \text{calculated offtake for the profile connections on the basis of the profiles}$;
 - iii. $MCF = A / B$;
9. Shipper: refers to “erkende balansverantwoordelijke” and means a party acknowledged by GTS that by consequence executes program responsibility. A shipper is identified by an EAN code;
10. Suppliers: those who supply gas to a consumer. A supplier is identified by an EAN code;
11. Closed Distribution System Operator (CDSO): this party acts as a LDC for a Closed Distribution Network (CDN). Where in this document a LDC/CDSO is mentioned, a Local Distribution Company or Closed Distribution System Operator is meant.
12. Wherever LDC (Local Distribution Company) is mentioned in this document, it can also be read as CDSO (Closed Distribution System Operator).

General

1. Daily messaging is used for: TINFO. Monthly messaging is used for: MINFO, CINFO, LALL and BALL message.

For the OVEXIT message only a monthly message is used.

2. Rest volumes:
 - i. Rest volume will only be sent out on a monthly basis in the following messages:
 1. The monthly GTS MINFO;
 2. The monthly GTS LALLs;
 3. Both the LDC¹/CDSO and the GTS monthly BALLs;
(The monthly LDC/CDSO LALLs will not contain rest volumes).
 - ii. The rest volume will not be included in the daily messages.

The rest volume of the LDC network point (grid area), is included in the (monthly) GTS MINFO message. The rest volume of the exits (connections) in the LDC/CDSO grid is included in the (monthly) BALL message. Both volumes are included for information purposes. They are not used in the calculation of the allocations. Both rest volumes will be settled in the reconciliation process.

3. The energy unit MJ is used in the messages for measurement and allocation data. The unit m3(35,17) is used for capacity data in either:
 - i. m3(35,17) for yearly consumption;
 - ii. m3(35,17)/hr for maximum usage.
4. Content wise the messages will contain gas days and gas months in LET. The messages will format the time labels in UTC.
5. The allowed user categories used in the messages are: G1A, G2A, G2C, GGV, GXX, GMN, GIN and GIS.

¹ LDC = Local Distribution Company (RNB, Regionaal Netbedrijf).

Data content of messages

One LALL and BALL message definition is used to send different data content, dependent on sender and/or receiver.

1. LALL message

- a. The LALL sent to shippers (by LDC/CDSO and GTS) contains per message:
For one network point, for one shipper: per supplier, per user category, allocation values per hour;
- b. The LALL sent to suppliers (by LDC/CDSO and GTS) contains per message:
For one network point, for one supplier: per shipper, per user category, allocation values per hour;
- c. The LALL sent to GTS (by LDC/CDSO) contains per message:
For one network point: per shipper, per supplier, per user category, allocation values per hour.

2. BALL message

- a. The BALL is sent out (by LDC/CDSO and GTS) to suppliers and contains per message: for one supplier: per connection², per shipper, per GTS network point, per user category, allocation values per hour. Also the calorific value is included.

3. OVEXIT message, sent out by the LDC: (*analogues to grouping of the data in the LALL message*³)

- a. The OVEXIT message sent by the LDC to shippers contains per message: For one GTS network point and one shipper: per supplier:
 - i. the total number of profiled connections per user category (G1A, G2A, G2C, GMN);
 - ii. for these profiled connections; the sum of the (standard) yearly consumption per user category;
 - iii. the total number of hourly measured (GGV, GXX) connections per user category;
 - iv. the sum of the max usages of the hourly measured connections per user category.
- b. The OVEXIT message sent by the LDC to GTS contains per message: For one GTS network point: per shipper, per supplier: *See i. – iv. above.*

² For the GTS BALL, the connection and GTS network point are the same. For the industrial exits for which GTS sends out the BALL message there is always one connected party for one network point.

³ Note that the data in the LALL and OV-Exit messages sent to GTS and the shippers(/suppliers) should be identical. I.e., the combined data in the messages sent to the shippers(/suppliers) equals the data sent to GTS.

Versioning and timing

1. A total of three versions will be used for the LALL, BALL and CINFO messages:
 - a. Version 2: monthly message
Received not later than working day 6 after gas month.
 - b. Version 3: monthly message
Received not later than working day 16 after gas month.
 - c. Version 4: monthly message
Received not later than working day 10 in the month, 4 months after gas month.
2. For the MINFO, one version will be used:
 - a. Version 2: monthly message
Received not later than working day 4 after gas month, 7:00h.
3. For the TINFO, one version will be used:
 - a. Version 1: daily message
Received not later than working day 3 after gas day. (i.e. working day 4, 0:00h).
4. For the OVEXIT, two versions will be used:
 - a. Version 1: monthly message
Received not later than working day 6 in the gas month concerned.
 - b. Version 2: monthly message
Received not later than working day 10 in the month, 4 months after gas month.
5. All of the messages (i.e. all the versions) will be sent out with all (hourly) values for the concerning gas day or -month, also if there is no change in the data compared to a possible previous version.
6. Handling of changes:
 - a. The daily messages will be sent out only once⁴. The subsequent monthly messages will be used to correct possible errors in an earlier version.⁵
 - b. By exception only the monthly MINFO and OV-Exit messages can be replaced in case of an urgently needed change (in a period between the message deadlines/versions). A changed message can be sent out, only after consideration between the sender and the receiver. The same version number will be used (but a different message identification number).
7. Periods of data in the messages:
 - a. The daily messages will contain data for one gas day only.
 - b. The monthly messages will contain data for one gas month only.

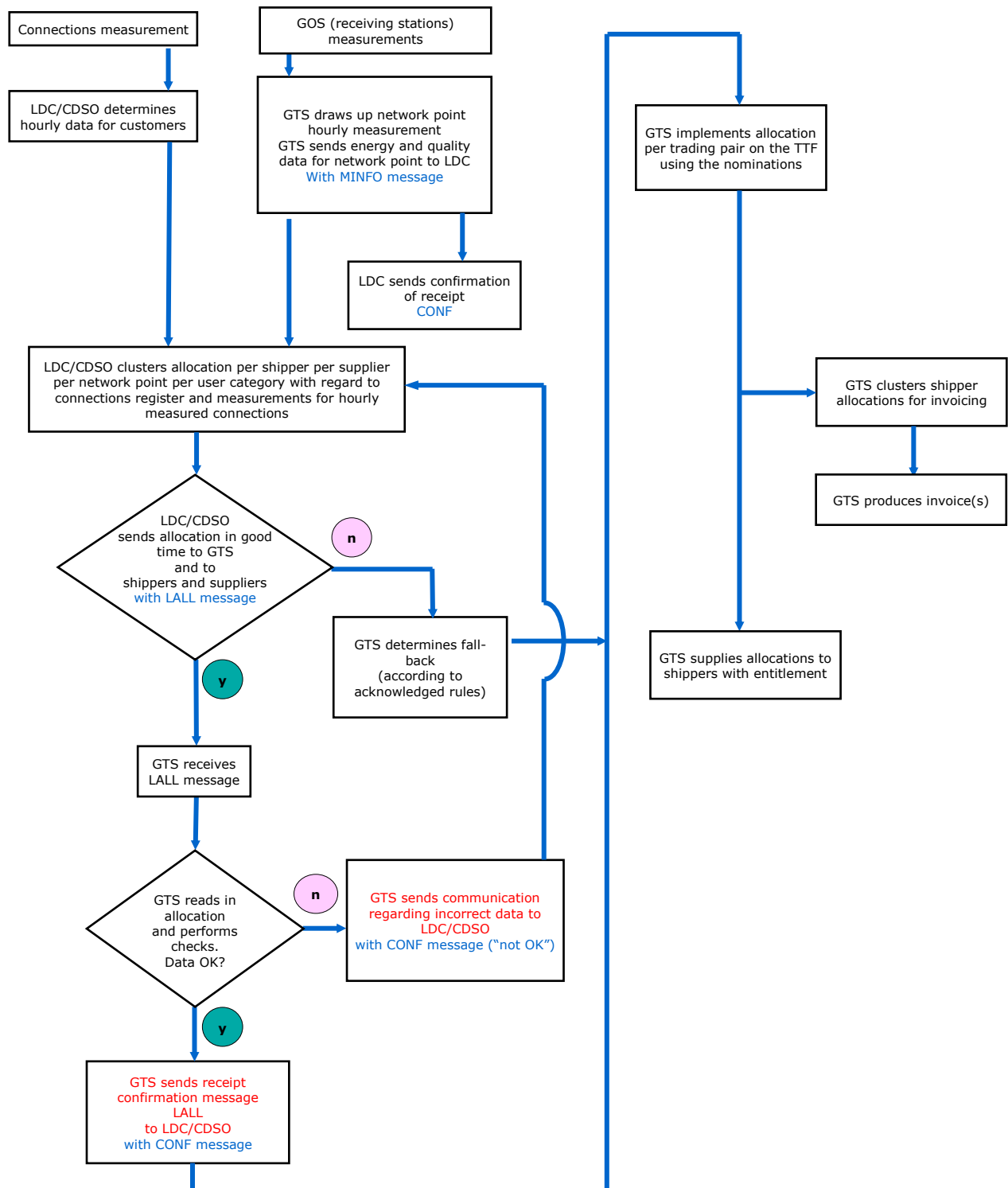
⁴ Of course for daily messages there is also an automatic retry when a message was not received (i.e. confirmed) properly.

⁵ Exception is the TINFO message. This message has no monthly version; hence it is possible to send out a replacing version 1 message.

3. Message process

3.1. Description of the content of the messages

The flowchart set out below showing the allocation process incorporates a large proportion of the messages. The messages are elaborated in more detail in chapter 4 Message definitions. A distinctive feature of the message handling process is that, in addition to the primary messages, which contain the factual information, there are secondary messages, which supply information about the progress of the message handling process itself. The process will be gone through for all the cycles (versions).



Apart from the “invoicing” section, the flowchart shown above applies for both the monthly and the daily allocation process.

The following four steps can be distinguished in the message handling process with regard to the allocation process:

1. LDC/CDSO receives the measurement data for the connections measured hourly from the measurement company.
2. LDC receives the measurement data per network point from GTS. The MINFO message is used for this. LDC also receives data regarding the realised temperature by means of the TINFO message.
3. After allocation by LDC/CDSO the results are supplied per network point per shipper per supplier per user category to the shippers and suppliers concerned. The LALL message is used for this. Shippers and suppliers can use the data for their mutual invoicing and invoice control.
4. Furthermore the results are supplied by LDC/CDSO to GTS per network point per shipper per supplier per user category. The LALL message is also used for this. GTS uses the data for invoice purposes.

In addition to the above, there is the BALL message for passing on allocation data (usually measurement data for straightforward delivery) for hourly measured connections to suppliers.

The receipt of all primary messages is confirmed via a confirmation message within the message handling process. These confirmation messages can state whether the information supplied was received properly or not.

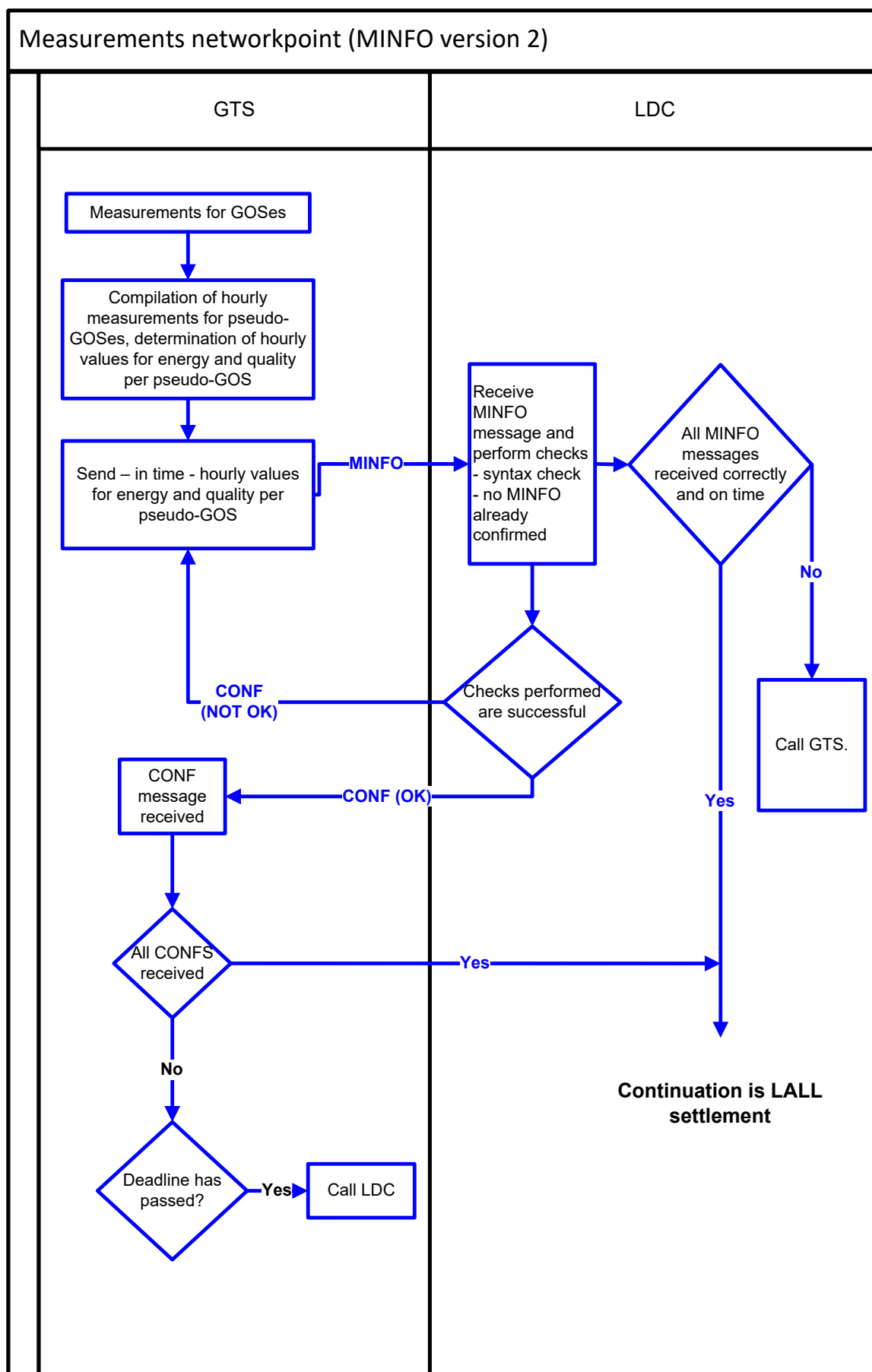
In addition to the above-mentioned messages, information is supplied by LDCs via the CINFO message regarding the measurement correction factor (MCF) realised. The MCF is determined during the allocation process per network point and is the same for all profile categories. The CINFO message is also confirmed via the CCONF message.

For the monthly allocation process the MINFO message is only sent once by GTS, however for the LALL messages three version (2, 3 and 4) are distinguished to deal with (measurement)corrections. These versions are sent at subsequent moments in time.

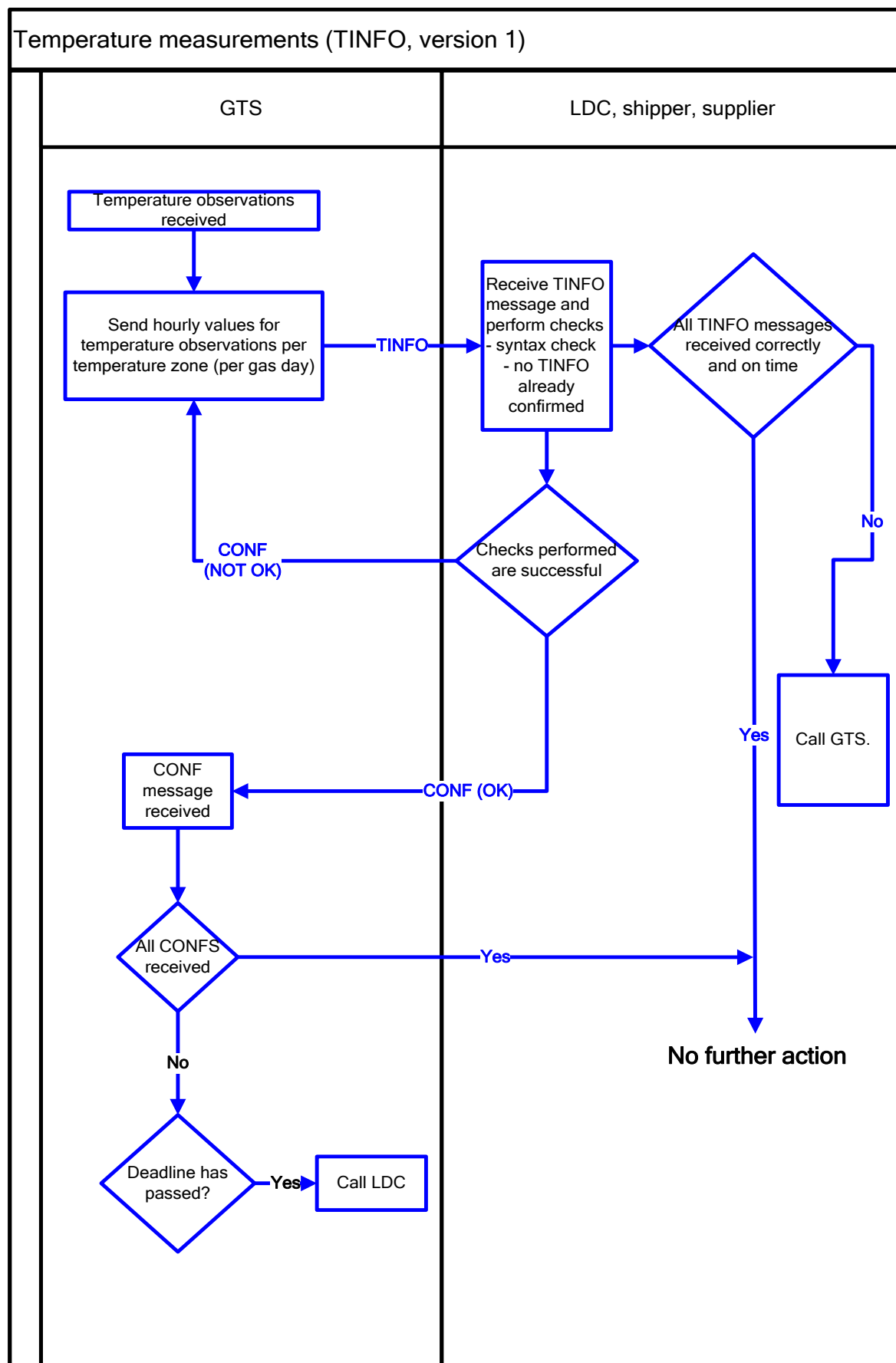
3.2. Workflow of the messages

The following pages show workflow diagrams for the handling of the six primary messages. The recipient of each primary message should state via a confirmation message whether the message was properly received or not. If the sender of the primary message does not receive any confirmation he should assume that the primary message was not received properly. In this case the message will have to be resent (up to a limited number of retries).

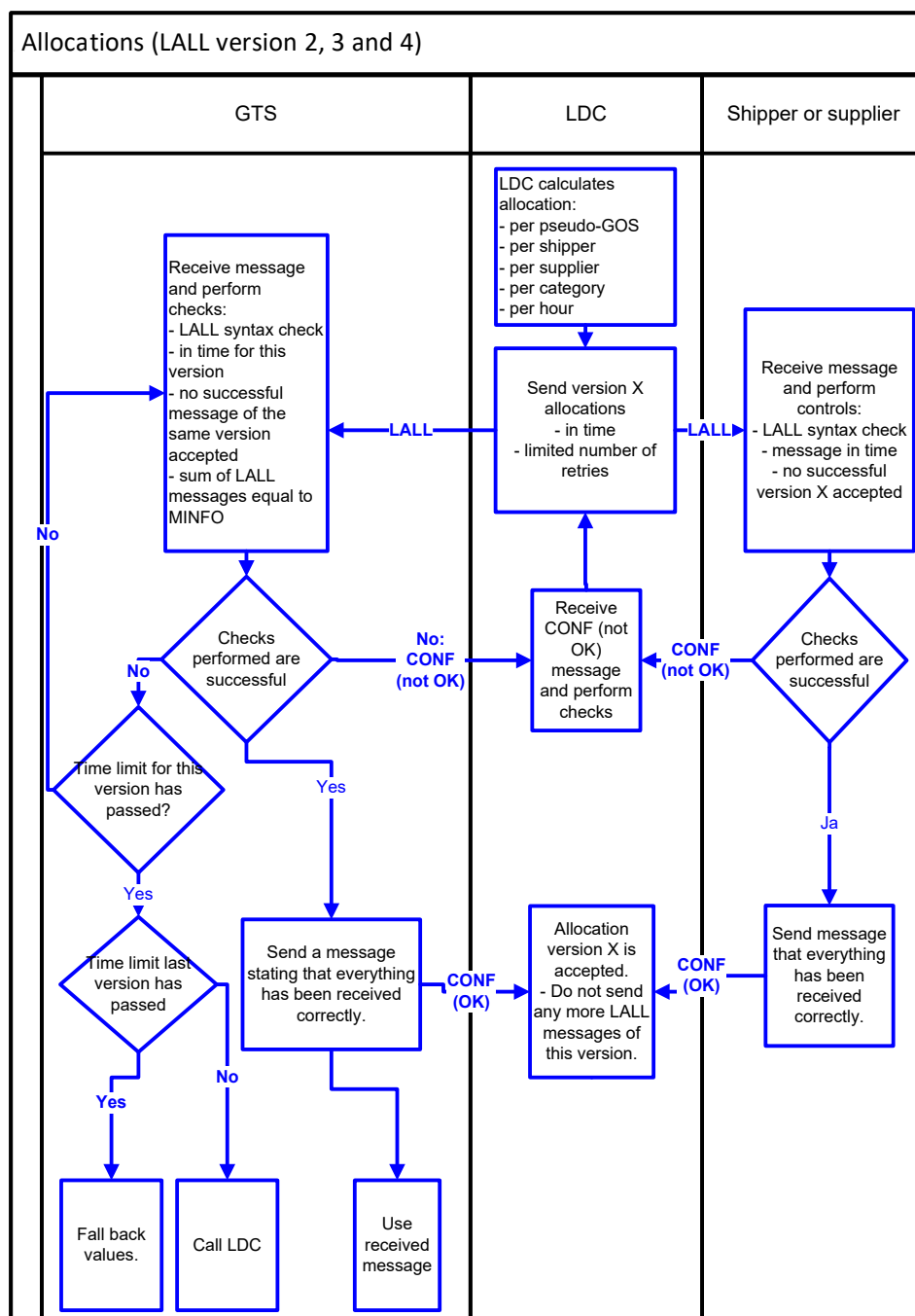
3.2.1. MINFO



3.2.2. TINFO

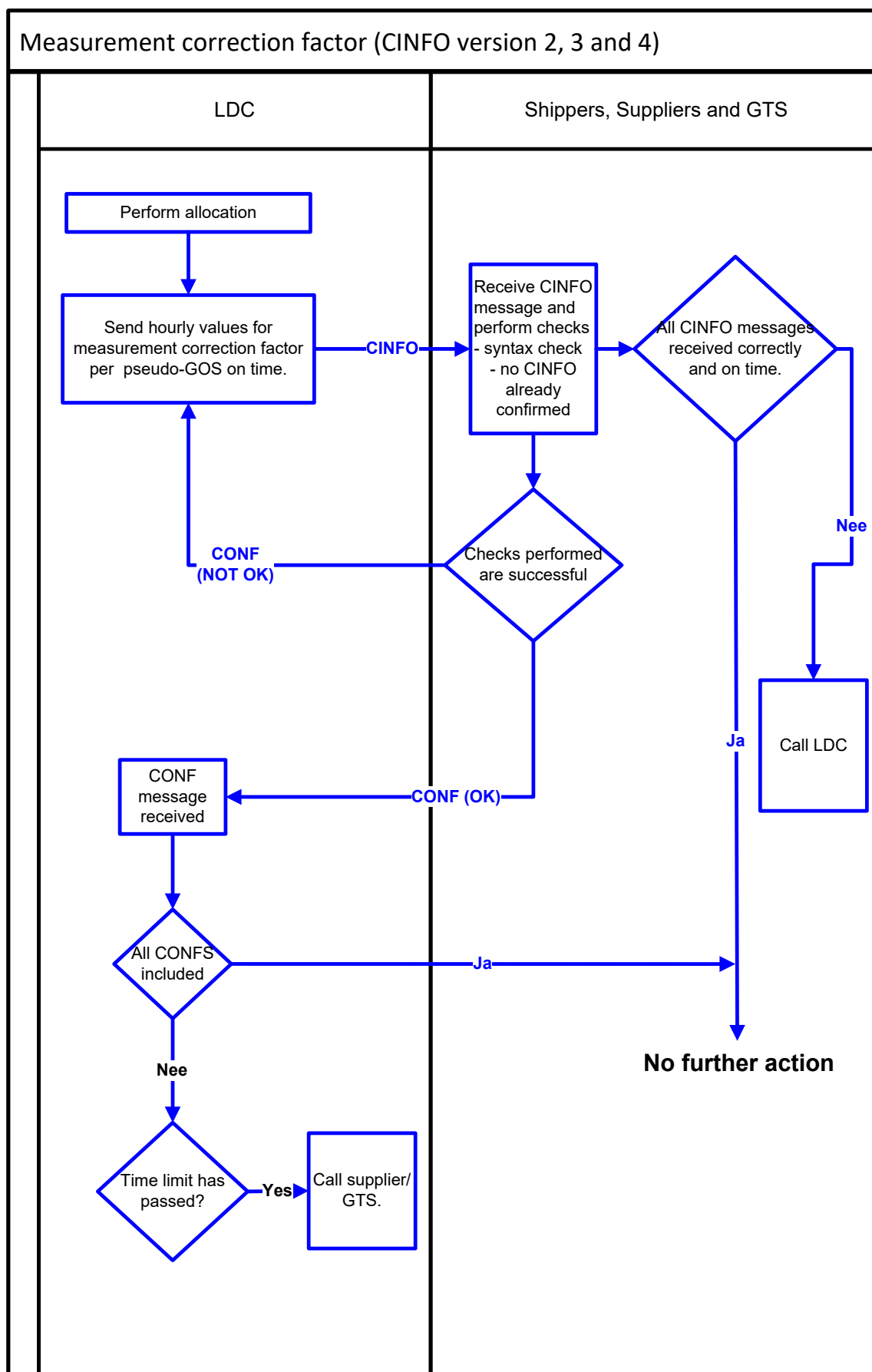


3.2.3. LALL⁶

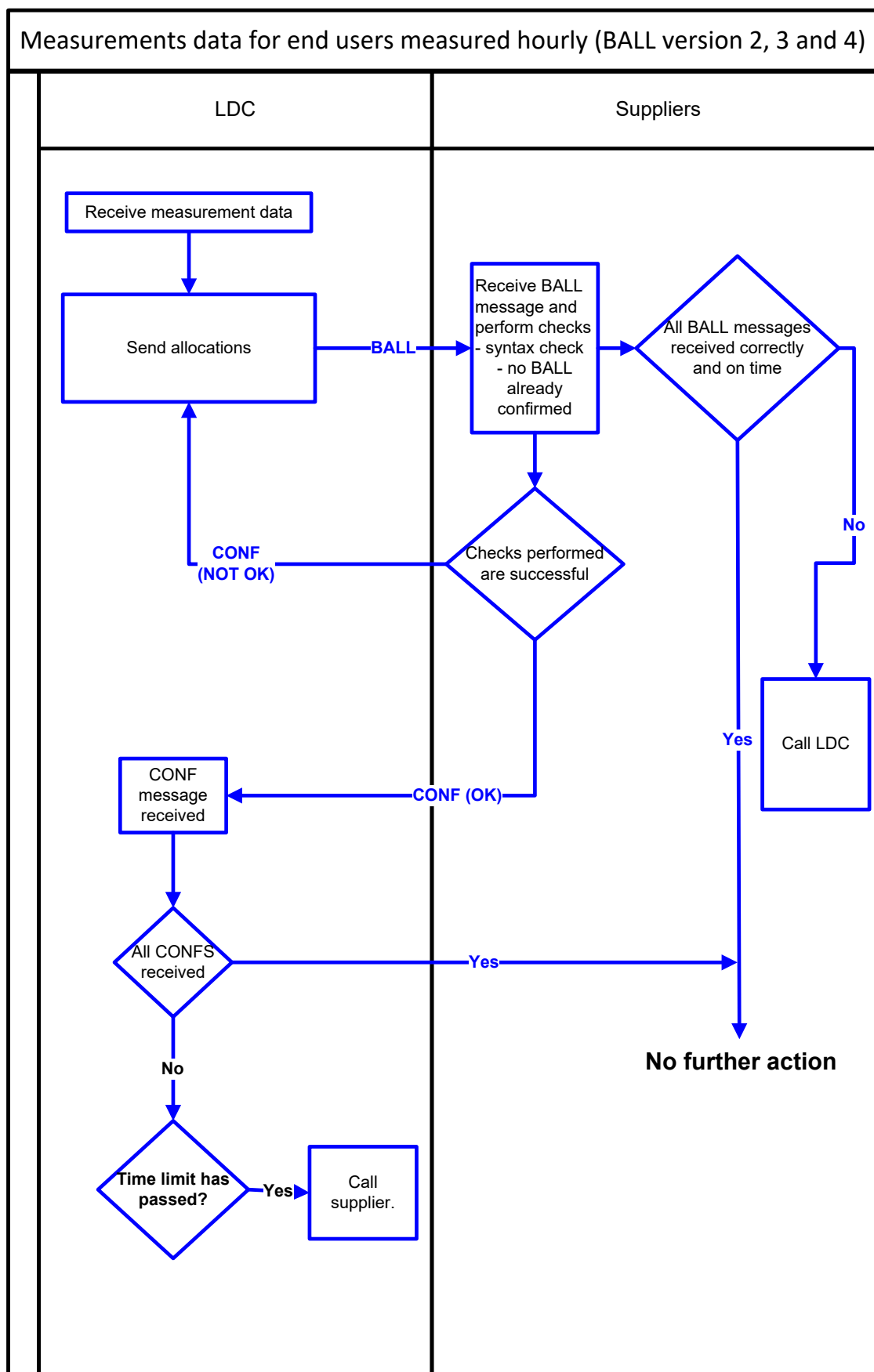


⁶ Where in this diagram a LDC is mentioned, a Local Distribution Company or Closed Distribution System Operator is meant.

3.2.4. CINFO

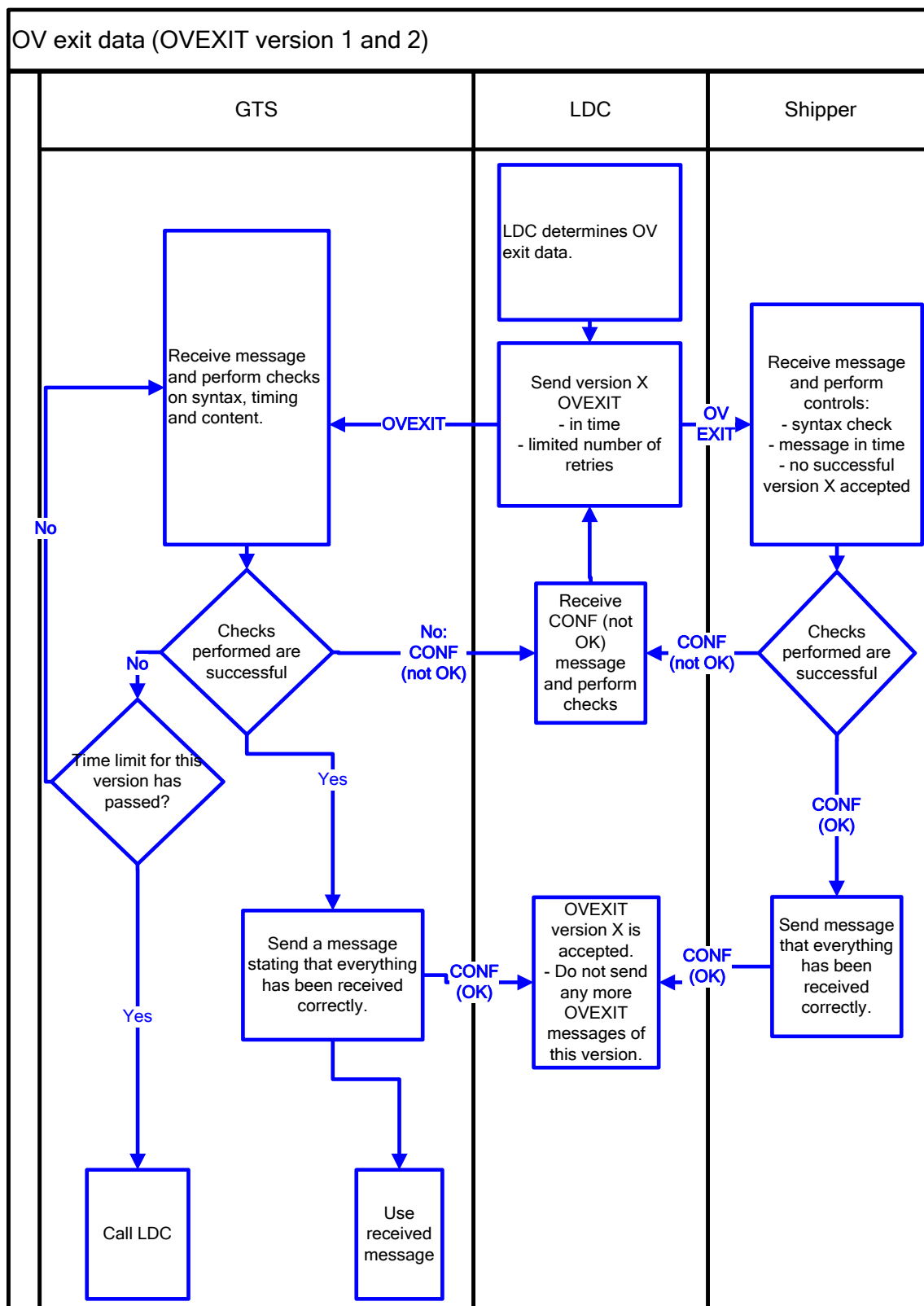


3.2.5. BALL⁷



⁷ Where in this diagram a LDC is mentioned, a Local Distribution Company or Closed Distribution System Operator is meant.

3.2.6. OVEXIT



4. Message definitions

4.1. General

4.1.1. Time zone

The time zone used within the message handling process is LET (Local European Time), also known as summer time/winter time. The consequences of this choice for the message handling process are shown below.

4.1.2. Transition from winter time to summer time

Source: www.timeanddate.com

DST = Daylight Saving Time (= summer time)

DST start transition		
Local time HR:MI:SE	DST or normal?	Comments
1:59:58	Normal	
1:59:59	Normal	
3:00:00	DST	DST started, time advanced by one hour
3:00:01	DST	
3:00:02	DST	

For the messages the data will be in gas day LET. This means that, when there is the transition from winter to summer time, the time label 02:00 does not occur (logically). Gastransport Services will interpret these figures in CET, the messages will store the time labels in UTC. The relationship between the three is as follows:

		<u>LET</u>			<u>CET</u>	<u>UTC</u>
Hour	20120330	06:00	100	Y	06:00	05:00
..	..	..	..	..	..	..
Hour	20120331	00:00	100	Y	00:00	23:00
Hour	20120331	01:00	100	N	01:00	00:00
Hour	20120331	03:00	100	N	02:00	01:00
Hour	20120331	04:00	100	N	03:00	02:00
Hour	20120331	05:00	100	Y	04:00	03:00
Hour	20120331	06:00	100	Y	05:00	04:00

4.1.3. Transition from summer time to winter time

Source: www.timeanddate.com

DST = Daylight Saving Time (= summer time)

DST end transition			
Local time HR:MI:SE	DST or normal?	Comments	
1:59:59	DST		
2:00:00	DST		
2:00:01	DST		
...3596 seconds from 2:00:02 to 2:59:57 daylight saving time not shown...			
2:59:58	DST		
2:59:59	DST		
2:00:00	Normal	Time is turned back to normal	
2:00:01	Normal		
...3596 seconds from 2:00:02 to 2:59:57 normal time not shown...			
2:59:58	Normal		
2:59:59	Normal		
3:00:00	Normal		
3:00:01	Normal		

The messages will contain data for a LET gas day. For the messages this means that, when there is the transition from summer to winter time, the time label 02:00 occurs – logically – twice. Gastransport Services will interpret these figures in CET, the messages will store the time labels in UTC. The relationship between the three is as follows:

		<u>LET</u>			<u>CET</u>	<u>UTC</u>
Hour	20121026	06:00	10	Y	05:00	04:00
..	..	..	..	..	..	..
Hour	20121027	00:00	10	Y	23:00	22:00
Hour	20121027	01:00	20	N	00:00	23:00
Hour	20121027	02:00	30	N	01:00	00:00
Hour	20121027	02:00	40	N	02:00	01:00
Hour	20121027	03:00	50	N	03:00	02:00
Hour	20121027	04:00	60	N	04:00	03:00
Hour	20121027	05:00	70	Y	05:00	04:00
Hour	20121027	06:00	80	Y	06:00	05:00

4.2. Messages in general

4.2.1. Message names

The following functional names are used for the messages:

Name	Containing
MINFO	Measurements
MCONF	Confirmation MINFO
TINFO	Temperature data
TCONF	Confirmation TINFO
CINFO	Correction factor (MCF)
CCONF	Confirmation CINFO
LALL	Supplier allocation
LCONF	Confirmation LALL
BALL	Measured connection allocation
BCONF	Confirmation BALL
OVEXIT	LDC aggregated capacity data
OCONF	Confirmation OVEXIT

4.2.2. Global description of messages

1) Measurement messages

- a) MINFO
Message from GTS to LDC, stating the measurements at a network point;
- b) MCONF
Message from LDC to GTS, with a return code regarding the MINFO message;

2) Temperature messages

- a) TINFO
Daily message from GTS to LDC, shipper and supplier, stating the realised temperature per temperature zone;
- b) TCONF
Daily message from LDC to GTS with a return code regarding the TINFO message;

3) National allocation messages

- a) LALL
Message from LDC/GTS/CDSO to a shipper or supplier, stating the allocation per shipper/supplier combination per category per network point;
- b) LCONF
Message from a shipper or supplier to LDC/GTS/CDSO with a return code regarding the LALL message;

4) Measured connection allocation messages

- a) BALL
Message from LDC/GTS/CDSO to a supplier, stating the allocation per connection per supplier;
- b) BCONF
Message from a supplier to LDC/GTS/CDSO with a return code regarding the BALL message;

5) Measurement correction factor messages

- a) CINFO
Message from LDC to GTS, a shipper and supplier, stating the measurement correction factor per network point;
- b) CCONF
Message from GTS, a shipper or supplier to LDC with a return code regarding the CINFO message;

6) OV Exit capacity messages

- a) OVEXIT
Message from LDC to GTS and a shipper, stating the OV-exit aggregated capacity data for a month;
- b) OCONF
Message from GTS or a shipper to LDC with a return code regarding the OVEXIT message.

The matrix below demonstrates the connections between the different messages, senders and recipients:

From	To	GTS	LDC	CDSO	Shipper	Supplier
GTS		N/A	MINFO TINFO LCONF CCONF OCONF	MINFO TINFO LCONF CCONF OCONF	LALL TINFO	LALL BALL TINFO
LDC		MCONF TCONF LALL CINFO OVEXIT	N/A	N/A	LALL CINFO OVEXIT	LALL CINFO BALL
CDSO		LALL	N/A	N/A	LALL	LALL BALL
Shipper		LCONF TCONF	LCONF CCONF OCONF	LCONF CCONF OCONF	N/A	
Supplier		BCONF TCONF LCONF	LCONF CCONF BCONF	LCONF CCONF BCONF		N/A

4.2.3. Units

The following units are used within the message handling process:

Variable	Unit	Comments
Energy ⁸	MJ	Measurements, nominations, confirmations, allocations.
Gross calorific value	MJ/m3(n)	Hs
Relative density	-	d0
Gas component percentages	mol%	CO ₂ , N ₂
Pressure	bar(abs)	
Temperature	°C	
Measurement correction factor	-	
Capacities	m3(35,17) m3(35,17)/hr	OV exit data, respectively for yearly consumption and hourly usage.

⁸ The messages will also be made ready for possible future use of kWh as energy unit.

4.2.4. Type definitions

The following type definitions are used in the message specifications:

Type	Value	Example
EAN-13	EAN company code, 13 positions	8716868000091
EAN-18	EAN code, 18 positions	871718518003002673
DATE	ccyyymmdd	20021231
TIME	hh:mm	17:45
DATE-TIME	ccyyymmdd hh:mm	20021231 17:45
CODE-RET	N(2)	03
PERCENTAGE	N(3)	60
ENERGY	N(12)	350000000
ENERGY_M3	N(12)	937000
METER READING	N(12)	12367498
MEASUREMENT CORRECTION FACTOR	N(1,5)	0,98213
TEMPERATURE	N(3,2)	-11,82
CATEGORY	A(3)	GGV, G1A, G2A, G2C, GXX, GMN, GIN, GIS
CAPACITY (m3(35,17)/hr)	N(12)	2787
CAPACITY (m3(35,17))	N(12)	29805

4.2.5. Return codes

In the confirmation messages a code is provided in order to indicate how the message sent has been received. The return codes used are specified below.

Return codes for the OV exit message

Return code	Description
000	Correct
40G	Syntactical error
41G	Semantic error
44G	Unregistered party (i.e. party is known, but does not have a licence B)
45G	Unknown party identification (party is not known)
46G	Unknown location identification (network point or connection is unknown)
48G	Other error
50G	Message already accepted
52G	Message received after deadline
61G	User category is unknown or no longer in use
62G	Capacity unit does not match with the user category*
63G	Plausibility check returned an error: number of connections is wrong
64G	Plausibility check returned an error: sum of SJV is wrong

* For GGV and GXX the unit m3(35,17)/hr should be chosen.
For G1A, G2A, G2C and GMN the unit m3(35,17) should be chosen.

Return codes for the allocation messages

Return code	Description
000	Correct
40G	Syntactical error
42G	Unequal sum of allocations
43G	Too many network points
44G	Unregistered party (i.e. party is known, but does not have a licence B)
45G	Unknown party identification (party is not known)
46G	Unknown location identification (network point or connection is unknown)
47G	Incomplete period
48G	Other error
49G	Unequal sum of rest volumes
50G	Message already accepted
51G	No matching MINFO available
52G	Message received after deadline

Note: the 'yellow' return codes are shared amongst the different messaging processes.

4.3. Measurement messages

4.3.1. MINFO

A message is sent from GTS to LDC after expiry of a gas month.

The message contains the specified variables for all hours of the relevant gas month.

Version 2: The monthly rest energy will be given on the last day of the month.

The validity period of the message will be placed in the header.

Keyword

From	EAN-13	<i>From GTS</i>
To	EAN-13	<i>To LDC</i>
Id-message	ID-MESSAGE	<i>Unique message identification. For format refer to the technical definitions</i>
Network point	EAN-18	
Version	1...2	

	<i>Day</i>	<i>Hour Label</i>	<i>Energy</i>	<i>Hs</i>	<i>CO2</i>	<i>N2</i>	<i>d0</i>	<i>Reliable</i>
E-hour	20020501	07:00	52052	35,832	1,5590	12,9296	0,6526	Y
E-hour	20020501	08:00	73154	35,827	1,5555	12,9255	0,6524	Y
E-hour	20020501	09:00	64009	35,823	1,5519	12,9222	0,6522	N
...								
E-hour	20020601	06:00	93482	35,858	1,5527	13,0021	0,6537	Y

The rest energy is optional in the message:

	<i>Day</i>	<i>Energy</i>	<i>Hs</i>	<i>CO2</i>	<i>N2</i>	<i>D0</i>
Rest	20020531	879	35,861	1,5577	13,0035	0,6538

NB: *phrases in italics* are for information and are therefore not contained in the message!

4.3.2. MCONF

A message is sent by LDC to GTS.

The message contains a return communication in response to a MINFO message received and is sent after each MINFO message received.

Keyword

From	EAN-13	<i>LDC</i>
To	EAN-13	<i>GTS</i>
Id-message MINFO	ID-MESSAGE	<i>Unique message identification</i>
Return code	CODE-RET	<i>See also 4.2.5 Return codes</i>

4.4. Temperature messages

4.4.1. TINFO

A message is sent from GTS to LDC, shippers and suppliers after expiry of a gas day.

The message contains the realised temperature for all hours of the relevant gas day.

The validity period of the message will be placed in the header.

Keyword

From	EAN-13	<i>From GTS</i>
To	EAN-13	<i>To LDC, shipper or supplier</i>
Id-message	ID-MESSAGE	<i>Unique message identification</i>
Temperature-area	EAN-18	
Version	1	

	<i>Day</i>	<i>Hour Label</i>	<i>Temperature</i>
T-hour	20020501	07:00	-7.61
T-hour	20020501	08:00	-3.94
T-hour	20020501	09:00	-0.18
...			
T-hour	20020502	06:00	23.45

NB: *phrases in italics* are for information and are therefore not contained in the message!

4.4.2. TCONF

A message is sent by LDC, shipper or supplier to GTS.

The message contains a return communication in response to a TINFO message received and is sent after each TINFO message received.

Keyword

From	EAN-13	<i>LDC, shipper or supplier</i>
To	EAN-13	<i>GTS</i>
Id-message TINFO	ID-MESSAGE	<i>Unique message identification</i>
Return code	CODE-RET	<i>See also 4.2.5 Return codes</i>

4.5. National allocation messages

4.5.1. LALL

A message is sent from LDC/CDSO to supplier, shipper and GTS after expiry of a gas month. This message is also used by GTS to send data to suppliers and shippers concerning connections lying directly on the national grid.

The message contains the hourly allocations for the last gas month:

- Per network point;
- Per hour;
- Per shipper/supplier combination;
- Per user category.

The network company should cluster the data as follows:

- the message for the supplier contains the allocations for the relevant supplier for all categories and for all shippers of a network point;
- the message for the shipper contains the allocations for the relevant shipper for all categories and all suppliers of a network point;
- the message for GTS contains the allocations for all shipper / supplier / category combinations of a network point, in other words all allocations for the relevant network point.

N.B. the sum of all allocations of the relevant network point should be equal to the value in the MINFO message.

Version 2,3 and 4 (monthly message): The monthly rest energy will be given for the month (GTS LALL only).

The validity period of the message will be placed in the header.

Keyword

From	EAN-13	<i>LDC, CDSO, GTS</i>
To	EAN-13	<i>Shipper, supplier or GTS</i>
Id-message	ID-MESSAGE	<i>Unique message identification.</i>
Network point	EAN-18	
Version	1 ... 4	

The message continues with the following data per shipper/supplier/category combination:

Shipper	EAN-13	
Supplier	EAN-13	
Category	CATEGORY	
Fallback	Y/N	<i>Allocations are the result of fallback regulation (Y) or not (N)</i>

	<i>Day</i>	<i>Hour Label</i>	<i>Allocation</i>	<i>Reliable</i>
Hour	20120501	07:00	52052	Y
Hour	20120501	08:00	73154	N
Hour	20120501	09:00	64009	Y
...				
Hour	20120601	06:00	93482	Y

The rest energy is optional in the message:

	<i>Month</i>	<i>Rest energy</i>
Rest	201205	879

NB: *phrases in italics* are for information and are therefore not contained in the message!

4.5.2. LCONF

A message is sent by a shipper or supplier to LDC/CDSO.

The message contains a return communication in response to a LALL message received and is sent after each LALL message received.

Keyword

From	EAN-13	<i>Shipper, supplier, GTS</i>
To	EAN-13	<i>LDC, CDSO, GTS</i>
Id-message LALL	ID-MESSAGE	<i>Unique message identification</i>
Return code	CODE-RET	<i>See also 4.2.5 Return codes</i>

4.6. Measured connection allocation messages

4.6.1. BALL

A message is sent from LDC/CDSO to a supplier after expiry of a gas month. This message is also used by GTS to send data to suppliers concerning connections lying directly on the national grid. The message contains the allocations of the supplier from the last gas month:

- Connection in LDC/CDSO grid;
- User category;
- Network point;
- Supplier;
- Shipper;
- Allocation per hour;
- Status;
- Calorific value per hour.

Version 2, 3 and 4 (monthly message): The monthly rest energy will be given for the month.

The validity period of the message will be placed in the header.

Keyword

From	EAN-13	LDC, CDSO, GTS
To	EAN-13	Supplier
Id-message	ID-MESSAGE	Unique message identification

Version 1 ... 4

The message continues with the following data per connection:

Connection	EAN-18	
Shipper	EAN-13	
Network point GTS	EAN-18	
User category	GXX or GGV	
Fallback	Y/N	Allocations are the result of fallback regulation (Y) or not (N)
Measuring method	M or C	M = Measurement C = Calculation (e.g. emergency profile)

	Day	Hour Label	Allocation	Status code	Reliable	Hs
Hour	20120501	07:00	52052	17G ⁹	Y	35,47
Hour	20120501	08:00	73154	17G	N	35,48
Hour	20120501	09:00	64009	17G	Y	35,46
...						
Hour	20120601	06:00	93482	17G	Y	35,47
	Month		Rest energy			
Rest	201205		879			35.47

Status code in BALL message

Below an overview is given of the used BALL status code and its semantics..

Note: the values in the column 'BALL status' are the ones actually being used in the BALL messages.

⁹ Attribute is optional.

Status codes

Order		Origin indication			Validation status			Repair method									Explanation
		Measured	Measured, update	Calculated	Valid	Not Valid	Manually approved	Correction factor error	Correction of installation error	Interpolation of meter change	Correction based on meter readings	Extra information	Reclamation SO	Estimated	BALL Status	BALL Reliable	
1	Calculated			x						x					17G	Y	Correction where actual (measured) measurement data can no longer be retrieved. The status "calculated" in combination with the repair methods mentioned here can only be followed by another repair method. A validation status is not relevant for this situation.
				x							x				17G	Y	
				x								x			17G	Y	
				x									x		19G	N	
2	Repaired		x				x	x							17G	Y	Correction to previously sent measured data, where the result is still 'measured'. An MDC never sends out repaired invalid measurement data. The measurement data are: - checked by the employee during the repair and approved manually; - rejected by the system after repair and then manually approved; - automatically validated by the system after repair.
			x				x		x						17G	Y	
3	Measured	x			x										<null>	Y	1st version of measured data, The measurement data are: - rejected by the system, but "manually approved" before sending; - automatically validated by the system
		x					x								<null>	Y	
4	Temporary	x				x									<null>	N	The first version of the measurement data. The measurement data are rejected by the system but were sent for the first allocation.
5	Calculated			x										x	18G	N	Temporary status used when there is a failure in data collection.

Order		Origin indication			Validation status			Repair method									Explanation
		Measured	Measured, update	Calculated	Valid	Not Valid	Manually approved	Correction factor error	Correction of installation error	Interpolation of meter change	Correction based on meter readings	Extra information	Reclamation SO	Estimated	BALL Status	BALL Reliable	
	Not provided by MDC (repaired by DSO)														20G	N	Repaired by DSO
	Repaired by DSO after consultation with other parties														21G	N	Repaired by DSO after consultation with other parties

4.6.2. BCONF

A message is sent by a supplier to an LDC, CDSO or GTS.

The message contains a return communication in response to a BALL message received and is sent after each BALL message received

Keyword

From	EAN-13	<i>Supplier</i>
To	EAN-13	<i>LDC, CDSO, GTS</i>
Id-message BALL	ID-MESSAGE	<i>Unique message identification</i>
Return code	CODE-RET	<i>See also 4.2.5 Return codes</i>

4.7. Measurement correction factor messages

4.7.1. CINFO

A message is sent from LDC to supplier, shipper and GTS after expiry of a gas month. The message contains the measurement correction factor associated with a specified network point for all the hours of the relevant gas month.

The validity period of the message will be placed in the header.

Keyword

From	EAN-13	<i>LDC</i>
To	EAN-13	<i>Shipper, supplier or GTS</i>
Id-message	ID-MESSAGE	<i>Unique message identification</i>
Network point	EAN-18	
Version	1 ... 4	

	<i>Day</i>	<i>Hour Label</i>	<i>Measurement Correction Factor</i>
MCF-hour	20120501	07:00	0,98358
MCF-hour	20120501	08:00	0,98128
MCF-hour	20120501	09:00	0,97851
...			
MCF-hour	20120601	06:00	0,98639

NB: *phrases in italics* are for information and are therefore not contained in the message!

4.7.2. CCONF

A message is sent by a shipper, supplier or GTS to LDC.

The message contains a return communication in response to a CINFO message received and is sent after each CINFO message received.

Keyword

From	EAN-13	<i>Shipper, supplier or GTS</i>
To	EAN-13	<i>LDC</i>
Id-message CINFO	ID-MESSAGE	<i>Unique message identification</i>
Return code	CODE-RET	<i>See also 4.2.5 Return codes</i>

4.8. Capacity messages

4.8.1. OVEXIT

A message is sent from LDC to the shipper and GTS.

The message contains the OV exit data of the shipper/supplier combination for the specified month.

Keyword

From	EAN-13	<i>LDC</i>		
To	EAN-13	<i>Shipper, GTS</i>		
Id-message	ID-MESSAGE	<i>Unique message identification</i>		
Network point	EAN-18			
Version	1 ... 2			
Month	MM-YYYY	<i>Month for which the OV exit data is sent</i>		
Shipper	EAN-13			
Supplier	EAN-13			
Capacity value	<i>Category</i>	<i>Number of connections</i>	<i>Capacity unit</i>	<i>Capacity quantity</i>
	GXX	1	m3(35,17)/hr	160
	GGV	1	m3(35,17)/hr	1300
	...			
	G1A	17	m3(35,17)	36031
	G2A	7	m3(35,17)	36505

NB: *phrases in italics* are for information and are therefore not contained in the message!

NB2: GXX and GGV can only be used with unit m3(35,17)/hr (max usage).

G1A, G2A and G2C can only be used with unit m3(35,17) (standard yearly consumption).

GMN can only be used with unit m3(35,17) (yearly consumption).

4.8.2. OCONF

A message is sent by a shipper or GTS to LDC.

The message contains a return communication in response to an OVEXIT message received and is sent after each OVEXIT message received.

Keyword

From	EAN-13	<i>Shipper or supplier</i>
To	EAN-13	<i>LDC, GTS</i>
Id-message OVEXIT	ID-MESSAGE	<i>Unique message identification</i>
Return code	CODE-RET	<i>See also 4.2.5 Return codes</i>