

Business scenarios for EDI communication in the gas market

Rules for EDI-based communication between:

- Distribution Company and Gas Supplier*
- Distribution Company and Transmission System Operator*

in relation to change of supplier, Relocation and Consumption Statements

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Change log

The change log contains any alteration carried out since the previous version/release was published. Generally, version changes contain significant structural or syntactical changes, whereas new releases contain minor adjustments.

15 February 2009

Version 1.2		
Section	Process	Change
1.9	-	New product code, 3008, calorific monthly values in kWh ϕ / Nm ³ , has been added.
2.1	BS-201	Figure 1 has been adjusted so that transaction BT-004 – submission of base data (E07) – is included as a separate transaction within BT-001.
2.1.6	BS-201	BT-004 is added to the table to reflect the above change.
2.4	BS-204	Figure 4 has been adjusted so that submission of base data (E07) is no longer a part of BT-001, and the figure has been extended with a separate BT-004.
2.4.6	BS-204	BT-004 has been added to the table to reflect the change in the above-mentioned process.
2.9	BS-209	Figure 9 has been adjusted so that submission of base data (E07) is no longer a part of BT-001, and the figure has been extended with a separate BT-004.
2.9.6	BS-209	BT-004 has been added to the table to reflect the change in the above-mentioned process.
2.12.5	BS-213	Consumer portfolio number has been changed from GLN to GSRN.
2.13.6	BS-214	New product code, 3008, calorific monthly values in kWh ϕ / Nm ³ , has been added
2.15.6	BS-216	Consumer portfolio number has been changed from GLN to GSRN.
2.16.5	BS-217	Consumer portfolio number has been changed from GLN to GSRN.

1 October 2009

Version 1.3		
Section	Process	Change
1.2	-	A paragraph has been added, specifying that this document takes precedence of any other documentation for the gas market in case of discrepancies.
1.5	-	The definition of Business Day has been changed.
1.8	-	It has been added that the sender is allowed to contact the recipient after 20 minutes to get an acknowledgement.

1.8	-	It has been emphasised that a <i>negative</i> CONTRL must be submitted not later than 5 minutes after receipt.
2.13.3	BS-214	Step 4 has been added which specifies that the Distribution Company acknowledges receipt.
2.15.5	BS-216	It has been specified that deadlines apply to the submission of daily-read consumption data to the transmission system operator.

1 July 2010

Version 2.0		
Section	Process	Change
1.5		Definitions related to Bio Natural Gas (BNG) have been added.
1.9	-	New product code (3009), including specification, has been added. BNG Transition Point has been added for product codes 3060, 3061, 3062, and 3063.
2.13.1	BS-214	Paragraph about the daily assessment of gas consumption and submission of Non-Validated calorific values has been added. Figure has been adjusted to also contain the daily submission of Non-Validated calorific values.
2.13.2	BS-214	The following sentence has been added: 'At the end of the gas day, the transmission system operator assesses the Non-Validated calorific value of the natural gas for each M/R station.'
2.13.3	BS-214	2.a and 2.b have been added, specifying the difference between the submission of daily Non-Validated and daily and monthly Validated calorific values.
2.13.5	BS-214	Deadline for submitting daily Non-Validated calorific values has been added.
2.13.6	BS-214	New product code (3009), including specification, has been added.
2.15	BS-216	Figure 15, process flow diagram for BS-216, has been changed to also include the role of bio natural gas producer, including a transaction (BT-008) between the Distribution Company and the bio natural gas producer.
2.15.1	BS-216	It has been added that the process also entails bio natural gas producers and noted that there are no requirements for bio natural gas producers with regard to sending acknowledgements (APERAK or CONTROL).
2.15.3	BS-216	An additional point (4) has been added which describes the submission of injection values from the Distribution Company to the bio natural gas producer and the transmission system operator.

2.15.4	BS-216	<p>The sentence has been added: 'For Metering Sites measuring the injection of Bio Natural Gas, the Metering Site administrator must also submit the injection values in kWhø to the transmission system operator and the bio natural gas producer.'</p> <p>The following sentence has been added: 'Where the injection of Bio Natural Gas is concerned, the measured gas flow must have a negative sign in the EDI message. The Distribution Company receiving the gas (and measuring it) must add the gas volume to its total M/R injection.'</p>
2.15.5	BS-216	<p>Deadline for submission of consumption data in connection with gas flow settlement has been changed from 08:00 to 08:30.</p> <p>Deadline for submission of injection values has been added.</p>
2.15.6	BS-216	Paragraph about "Injection of Bio Natural Gas (with negative sign)" has been added.
6 (Appendix 1)	-	Appendix 1 has been removed; please refer to the deadlines indicated for each individual process.

12 August 2011

Version 3.0		
Section	Process	Change
1.1	-	Requirement for use of EDI communication has been added.
1.4	-	<p>Information about where deadlines are stated has been changed.</p> <p>Text regarding Gas Suppliers' possibility of postponing the use of EDI communication for a period of up to 18 months has been deleted.</p>
1.5	-	<p>Definitions of Change of Supplier at Short Notice and Change of Supplier at Normal Notice have been deleted as there will only be one type of change of supplier in future.</p> <p>Definition of Appointed Date has been made more precise.</p>
1.8	-	The possibility of requesting CONTRL has been added.
1.9	-	<p>Designation for E03 has been changed from Change of Supplier at Normal Notice to Change of Supplier.</p> <p>E40 Change of Supplier at Short Notice has been de-</p>

		leted. Product codes 3020-3023 have been deleted.
2.1	BS-201	Name of BS-201 has been changed from Change of Supplier at Normal Notice to Change of Supplier.
2.1	BS-201	Adjusted sequential diagram has been inserted
2.1.1	BS-201	Information about the possibility of not using EDI communication has been deleted.
2.1.2	BS-201	The wording used to describe 'start condition' has been changed.
2.1.3	BS-201	It has been emphasised that communication must take place using EDI messages (BT-001, BT-003 and BT-007). The reason for rejection 'Gas Supplier already supplies Metering Site' has been deleted. New description of possibility of cancelling a change of supplier as a result of the consumer's right of cancellation has been added. Wordings used in process descriptions have been changed.
2.1.4	BS-201	New section on the handling of incorrect changes of supplier has been added.
2.1.5	BS-201	Deadlines relevant to change of supplier have been adjusted.
2.1.6	BS-201	Description of data content for data flows for the cancellation of change of supplier has been added.
2.2	BS-202	Adjusted sequential diagram has been inserted
2.2.2	BS-202	The wording used to describe 'start condition' has been changed.
2.2.3	BS-202	The first step of the process description has been adjusted so that it is evident which information the Gas Supplier has to send to the consumer. The reason for rejection to the effect that the requested Appointed Date is not within deadline has been deleted. Process steps have been added to the various scenarios for change of supplier to the effect that the Public Supply Obligation Company must take over the supply to the consumer. Wordings used to describe process steps for the reading of Metering Sites, consumption settlement and the implementation of change of supplier.

2.2.4	BS-202	Deadlines relevant to end of supply have been adjusted.
2.2.5	BS-202	Data content has been added for the messages to be used if EDI communication is used between the Distribution company and the Public Supply Obligation Company.
2.4	BS-204	BS-204 has been deleted as because of the new market rules it is no longer relevant to distinguish between Change of Supplier at Normal Notice and Change of Supplier at Short Notice. All changes of supplier must in future be handled as BS-201.
2.7.4	BS-207	Deadlines relevant to Relocation (vacating consumer) have been adjusted.
2.8.3	BS-208	Information about EDI messages has been added if EDI communication is used between the Public Supply Obligation Company and the Distribution Company.
2.8.4	BS-208	Information about notice of termination has been changed.
2.8.6	BS-208	Deadlines relevant to Relocation notified to the Distribution Company have been adjusted.
2.8.7	BS-208	Data content has been added for the messages to be used if EDI communication is used between the Distribution Company and the Public Supply Obligation Company.
2.9.4	BS-209	Deadlines relevant to Relocation (incoming consumer) notified to the Gas Supplier have been adjusted.
2.10.1	BS-210	Information has been added to the effect that the process must also be used in scenarios where the Public Supply Obligation Company is the supplier.
2.12	BS-213	Adjusted sequential diagram has been inserted.
2.12.2	BS-213	Start condition for submission of market share values has been changed as preliminary and final market share values need no longer be submitted.
2.12.3	BS-213	Process description has been changed so that only market share values are submitted, not preliminary market share values.
2.12.4	BS-213	Deadlines relevant to the submission of market share values have been adjusted.
2.12.5	BS-213	Designation for consumer portfolio number has been changed to GLN. Code for quantity status for estimated value has been deleted.
2.14	BS-215	The process for adjusted residual consumption has been deleted as it is no longer used.
2.15.3	BS-216	A more precise description of the updating of distributed residual consumption has been added.

2.15.5	BS-216	It has been emphasised that the issue in question is distributed residual consumption.
2.15.6	BS-216	Time period for quantity has been specified. Consumer portfolio number has been added for the purpose of submission of residual consumption data. Product codes have been changed.
4	-	The cancelled processes BS-204 and BS-215 have been deleted from the table of business scenarios. It has been added that the form to be used in connection with emergency procedures must also be used in connection with end of supply. Reference to where deadlines are defined has been changed.
4.1	-	Title of form has been changed.
4.2	-	Information about the deadlines applying to the use of the form has been changed.

1 General

1.1 Introduction

This specification describes the EDI model to be used when handling, for instance, a change of Gas Supplier in the Danish gas market. It must be used by all players having a role in this communication. The specification is based on the North European ebIX standard and has been adapted to the Danish market model and the existing Danish EDI communication in the gas market.

According to Rules for Gas Distribution, version 1, a Gas Supplier may for a period of up to 18 months from the time when the Gas Supplier first supplied gas to a Metering Site in Denmark choose not to use EDI.

As from the date of commencement of Rules for Gas Distribution, version 2, the use of EDI communication as described in this documentation is mandatory for all commercial players in the gas market.

A Distribution Company may demand that the relevant Public Supply Obligation Company starts using EDI communication when communicating with the Distribution Company.

1.2 Documentation principle

The documentation has been structured so as to simplify the mapping and documentation of new scenarios as well as changing existing ones. Readers with a business background need not focus on technical details and technicians not on business aspects.

The documentation, which is available in Danish and English, is divided into five parts:

- *Business scenarios for EDI communication in the gas market*
- *Danish Business Transactions for the Electricity and Gas Market*
- *Danish Message Implementation Guides*
- *EDI communication (Regulation F)*
- *Danish product code list.*

In case of any discrepancy between the above-mentioned documentation, *Business scenarios for EDI communication in the gas market* will at all times be the primary reference. In particular, discrepancies may occur between this document and the transaction examples given in *Danish Business Transactions for the Electricity and Gas Market*.

Business scenarios for EDI communication in the gas market applies to the gas market and provides a description of business rules and procedures for the practical handling of change of supplier and other business scenarios. The target group consists of superusers and others active in the Danish gas sector. The document has been prepared in the form of so-called sequential diagrams providing a general illustration of the data exchanged between the individual players and the points in time of the exchange. The technical content of the data exchanges is not specified in any detail, and reference is only made to relevant parts of *Danish Business Transactions for the Electricity and Gas Market*. As a consequence, the need for new or adjusted business scenarios is more readily identified and can be more easily implemented, ie market players will be less restricted by technical obstacles. Documentation can be found at www.gasmarked.dk.

Danish Business Transactions for the Electricity and Gas Market applies to the electricity and gas markets, specifying the use in Denmark of the European ebIX model. This part of the documentation, which is targeted at IT suppliers, specifies how the IT systems should operate in relation to data exchange in the market. The documentation is presented in the form of activity diagrams for the IT systems' handling of the individual EDI messages and associated data models for the individual situations. All business transactions are autonomous and independent of other business transactions. They are used as 'building blocks' in the business scenarios. A business transaction developed for a given business scenario can be re-used in other business scenarios. The relevant documentation can be found at www.gasmarked.dk.

Danish Message Implementation Guide applies to the electricity and gas markets and describes the use in Denmark of a given EDIFACT message, eg UTILMD. The basis of the description is the European ebIX Message Implementation Guide, the Danish version of which shows the concrete Danish definition of the attributes applied and the values and codes allowed. The documentation can be found at www.gasmarked.dk.

EDI communication (Regulation F) applies to the electricity and gas markets and contains a specification of all documentation common to the exchange of EDI messages, ie issues such as addressing, opening hours, communication protocol and error handling at the individual levels. The documentation applies to all exchanges of data via EDI communication, for instance when metered data are implemented in a revised form and in the case of a change of supplier in the electricity or gas sector.

The documentation is used as supplement to ebIX' *Common rules and recommendations*, available at www.ebix.org, and therefore contains primarily the Danish rules that are not included in the ebIX recommendation. Approval is granted by the organisation(s) responsible for the business rules, eg the transmission system operator (TSO) and projects for the implementation of new market rules. The documentation can be found at www.gasmarked.dk.

The *Danish product code list* applies to the electricity and gas markets, containing all the common Danish product codes. The product code list can be found on www.energinet.dk.

1.3 The basis of the specification

This EDI specification, which has been prepared by Energinet.dk and the natural gas distribution companies in Denmark, is based on Rules for Gas Distribution, which are available on www.gasmarked.dk.

In respect of data exchange, the specification is based on the following documents, which can be accessed at or downloaded from www.ebix.org :

- *ebIX model for customer switching*, version 0.8 A of 25 September 2003.
- *Implementation guide for Utility Master Data Message (UTILMD)*, version 5.0 B.
- *Implementation guide for metered services consumption report (MSCONS)*, version 2.4D.
- *Implementation guide for Application error and acknowledgement message (APERAK)*, version 2.4B.
- *ebIX code list*: www.ebix.org

1.4 Other communication

Other communication is communication by letter, telefax or email. The Distribution Company, the Gas Supplier and the transmission system operator must use other communication in the following cases:

- In situations where EDI communication is not used. Each business scenario specifies when other communication is or can be used as well as the applicable deadlines.
- In emergency situations where it is technically impossible to use EDI communication. For most business scenarios, emergency procedures have been established that must be complied with by the Distribution Company, the Gas Supplier and the transmission system operator. These emergency

procedures are described in section 4, which also includes a form to be completed in the event of a change of supplier.

1.5 Definitions

The business terms used in the gas sector and in this guide are defined below.

Business Day

Business Days are Monday through Friday with the exception of holidays etc. as specified in the Business Day calendar on Energinet.dk's web site (www.energinet.dk). The definition is the same for the electricity and the gas markets.

Bio Natural Gas (BNG)

Bio Natural Gas is bio gas which has been upgraded with a view to fulfilling the quality specifications for natural gas in the Danish Gas System. BNG can be physically transported in the Danish Natural Gas System through the Distribution Network.

BNG Transition Point

A **BNG Transition Point** is a virtual point facilitating the supply of BNG into the Danish Natural Gas System. Each BNG Transition Point will be assigned a GLN (Global Location Number).

Distribution Company

Distribution Company is any natural or legal person authorised to carry out natural gas distribution.

Market Share Value of the Distribution Area

The Market Share Value of the Distribution Area is the sum of the Market Share Values of the Metering Site of all the Non-Daily Read Metering Sites in a distribution area.

Relocation

Relocation is the situation when a consumer vacates a specific Metering Site and/or a new consumer moves to the same Metering Site.

Public Supply Obligation Company

Public Supply Obligation Company is a Gas Supplier who in accordance with the Danish Natural Gas Supply Act is responsible for supplying gas to consumers and potential consumers in areas designated for natural gas supply in accordance with the Danish Heat Supply Act and to other consumers who are or will be connected to the distribution system.

Market Share Value of the Gas Supplier

The Market Share Value of the Gas Supplier is the sum of the Market Share Values of the Metering Site for the Non-Daily Read Metering Sites which the Gas Supplier supplies in a distribution area;

GLN

GLN (Global Location Number) is the number assigned to each Player in order to identify such Player in relation to communication.

GSRN

GSRN (Global Service Relation Number) is the number that must be assigned to each Metering Site (Metering Site id) and each consumer portfolio (consumer portfolio number) to ensure identification of the Metering Site or the consumer portfolio.

Gas Supplier

Gas Supplier is any natural or legal person supplying consumers with natural gas.

Metering Site

Metering Site is the actual point where the gas meter is physically located and where the natural gas is supplied to the consumer from the distribution system (place of supply).

Market Share Value of the Metering Site (expected annual consumption)

The Market Share Value of the Metering Site is the expected annual consumption of natural gas for a Non-Daily Read Metering Site as specified by the Distribution Company.

Non-Daily Read Metering Site

Non-Daily Read Metering Site is a Metering Site settled between the players in accordance with the rules for non-daily metered consumption.

Appointed Date (or Date Appointed)

Appointed Date may be a Business Day and holidays etc. and is one of the following dates in connection with change of supplier, end of supply, or Relocation:

1. At 06:00 on the date on which a Gas Supplier takes over the supply to a Metering Site
2. At 6:00 on the date on which a Gas Supplier discontinues the supply to a Metering Site
3. In connection with Relocation the Appointed Date is one of the following dates:

- in case of the vacating consumer's notification of Relocation, the date when the agreement with the Distribution Company expires as a result of the consumer's termination of the agreement. The conditions determining when the agreement expires are laid down in the distribution conditions;
- in case of the incoming consumer's notification of Relocation, the date when the agreement with the Distribution Company takes effect as a result of the consumer's notice of commencement of residence; or
- in case of a notification of Relocation by the incoming consumer's Gas Supplier, the date when the change of supplier takes effect. The Appointed Date must be the same date on which the incoming consumer takes over the Metering Site.

Daily Read Metering Site

Daily Read Metering Site is a Metering Site which is settled between the players in accordance with the rules for daily-read consumption (and where consumption data on a daily basis are available).

Validated

Validated is when consumption data have been finally Validated and adjusted, if necessary, by the Distribution Company for settlement purposes.

Non-Validated

Non-Validated is when consumption data are preliminary and have not been finally Validated by the Distribution Company.

1.6 Use of signs and decimals in messages

All values communicated in the messages must be positive unless otherwise indicated in the individual business scenarios.

Non-daily read consumption data values (MSCONS 7) must be given with a maximum of three decimals. All other values must be given in integers (including the consumption reported in a base data message (UTILMD E07)).

1.7 Handling of business transactions

All players must be able to use the latest version of a given business transaction used in the business scenarios described in this document.

1.8 Deadlines for acknowledgements

The deadline for sending acknowledgements is not later than two hours after receipt of a message unless otherwise indicated in the relevant business scenario. After 20 minutes, the sender is allowed to contact the recipient to ask for an acknowledgement. A *negative* CONTRL acknowledgement must be sent not later than five minutes after receipt of a message.

If a Distribution Company wants to receive CONTRL from the transmission system operator or a Gas Supplier, they must use MSCONS segment BGM 4343 = "AB" (Request for acknowledgement (Anmodning om kvittering)), which results in the recipient sending CONTRL. For further information about the use of APERAK and CONTRL, see *Appendix Report 3* in *EDI communication (Regulation F)*.

1.9 Codes used in EDI messages

In the EDI messages used in the business scenarios, various codes are applied. They are:

- EDIFACT codes consisting of max. three characters
- ebIX codes, all beginning with 'E'
- Danish function codes, all beginning with 'Z'
- Four-digit Danish product codes

The following codes are used in this guide:

Message name (all)

- 7 Time series report (MSCONS)
- 392 Change of supplier (UTILMD)
- 406 End of supply (UTILMD)
- 414 Confirmation of start of supply (UTILMD)
- 432 End of supply (UTILMD)
- E07 Base data (UTILMD)
- Z01 Report on Non-Daily Read Metering Site (MSCONS)

Message function (all)

- 5 Replace (MSCONS)
- 9 Original (MSCONS)
- 34 Received, approval given at transaction level (APERAK)

Transaction cause (UTILMD)

- E01 Relocation
- E03 Change of supplier
- E05 Cancellation of previous transaction
- E20 End of supply

- E32 Update of base data as agreed
- Z02 Change of meter location address
- Z03 Change of next scheduled date(s) of reading
- Z04 Change of estimated annual consumption
- Z05 Change of consumer party name(s)
- Z06 Change of physical status of Metering Site
- Z07 Change of meter-reading method

Status (UTILMD)

- 39 Transaction approved
- 41 Transaction rejected

Rejection codes (UTILMD)

- E10 Metering Site not identifiable
- E16 Unauthorised Gas Supplier
- E17 Requested Appointed Date not within deadline
- E22 Metering Site blocked for change
- E59 Already existing relation

Meter reading method (UTILMD)

- E01 Non-daily reading
- E02 Daily reading

Physical status of Metering Site (UTILMD)

- E22 Metering Site connected
- E23 Metering Site disconnected

Product code (MSCONS)

- 1082: Adjusted residual consumption in kWh₀
- 3001: Total consumption in kWh₀, Non-Validated
- 3002: Total consumption in kWh₀, Validated
- 3003: Total consumption in Nm³, Non-Validated
- 3004: Total consumption in Nm³, Validated
- 3005: Total consumption in m³, Non-Validated
- 3006: Total consumption in m³, Validated
- 3007: Calorific daily values in kWh₀/ Nm³, Validated consumption
- 3008: Calorific monthly values in kWh₀/ Nm³, Validated average consumption
- 3009: Calorific daily values in kWh₀/ Nm³, Non-Validated consumption
- 3011: Reconciliation statement in kWh₀
- 3012: Periodised consumption in kWh₀
- 3013: Market share value of the distribution area in kWh₀
- 3014: Market Share Value of the Gas Supplier in kWh₀

- 3030: Consumption per M/R station in kWh_ø, Non-Validated consumption
- 3031: Consumption per M/R station in kWh_ø, Validated consumption
- 3032: Consumption per M/R station in kWh_ø, first correction
- 3033: Consumption per M/R station in kWh_ø, second correction

- 3040: Daily read consumption per Gas Supplier (aggregated) in kWh_ø, Non-Validated consumption
- 3041: Daily read consumption per Gas Supplier (aggregated) in kWh_ø Validated consumption
- 3042: Daily read consumption per Gas Supplier (aggregated) in kWh_ø first correction
- 3043: Daily read consumption per Gas Supplier (aggregated) in kWh_ø second correction

- 3050: Distributed residual consumption in kWh_ø Non-Validated consumption
- 3051: Distributed residual consumption in kWh_ø Validated consumption
- 3052: Distributed residual consumption in kWh_ø first correction
- 3053: Distributed residual consumption in kWh_ø second correction

- 3060: Consumption per Metering Site, injection per M/R station or BNG Transition Point in the case of gas flow settlement in kWh_ø, Non-Validated consumption
- 3061: Consumption per Metering Site, injection per M/R station or BNG Transition Point in the case of gas flow settlement in kWh_ø, Validated consumption
- 3062: Consumption per Metering Site, injection per M/R station or BNG Transition Point in the case of gas flow settlement in kWh_ø, first correction
- 3063: Consumption per Metering Site, injection per M/R station or BNG Transition Point in the case of gas flow settlement in kWh_ø, second correction

Reason code for reading (MSCONS)

- 1 Periodic reading
- 2 Change of supplier
- 3 Non-periodic reading
- 9 Reading required for change of meter-reading method

Quantity status (MSCONS)

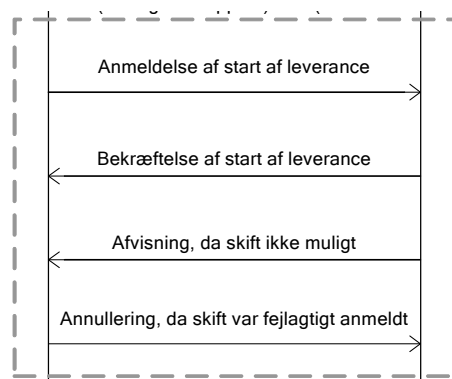
- 31 Estimated yearly consumption
- 99 Final value, estimated
- 136 Final value, metered
- Z01 Final value, manually corrected

Error codes (APERAK)

- 42 Error in a data element
- 100 The transaction is approved

2 Business scenarios

This section describes the business scenarios by means of so-called sequential diagrams and associated descriptions of the business procedures and rules.

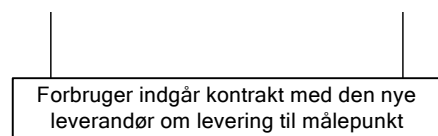


An area within the diagrams, as shown to the left, represents a transaction and the messages involved. The messages are illustrated by horizontal arrows between the players.

The area is identified by the unique denomination of the transaction, eg BT-001: Start of supply.

Translation:

Notification of start of supply
 Confirmation of start of supply
 Rejected, change not possible
 Cancelled, notification of change incorrect



A white bar indicates a manual procedure/activity, which can take place either between individual players or internally in a player's company. In this context, 'manual' means communication not occurring by EDI communication, ie letter, email or phone.

Translation:

The consumer concludes a contract with the new supplier on the supply of a Metering Site

2.1 BS-201: Change of supplier

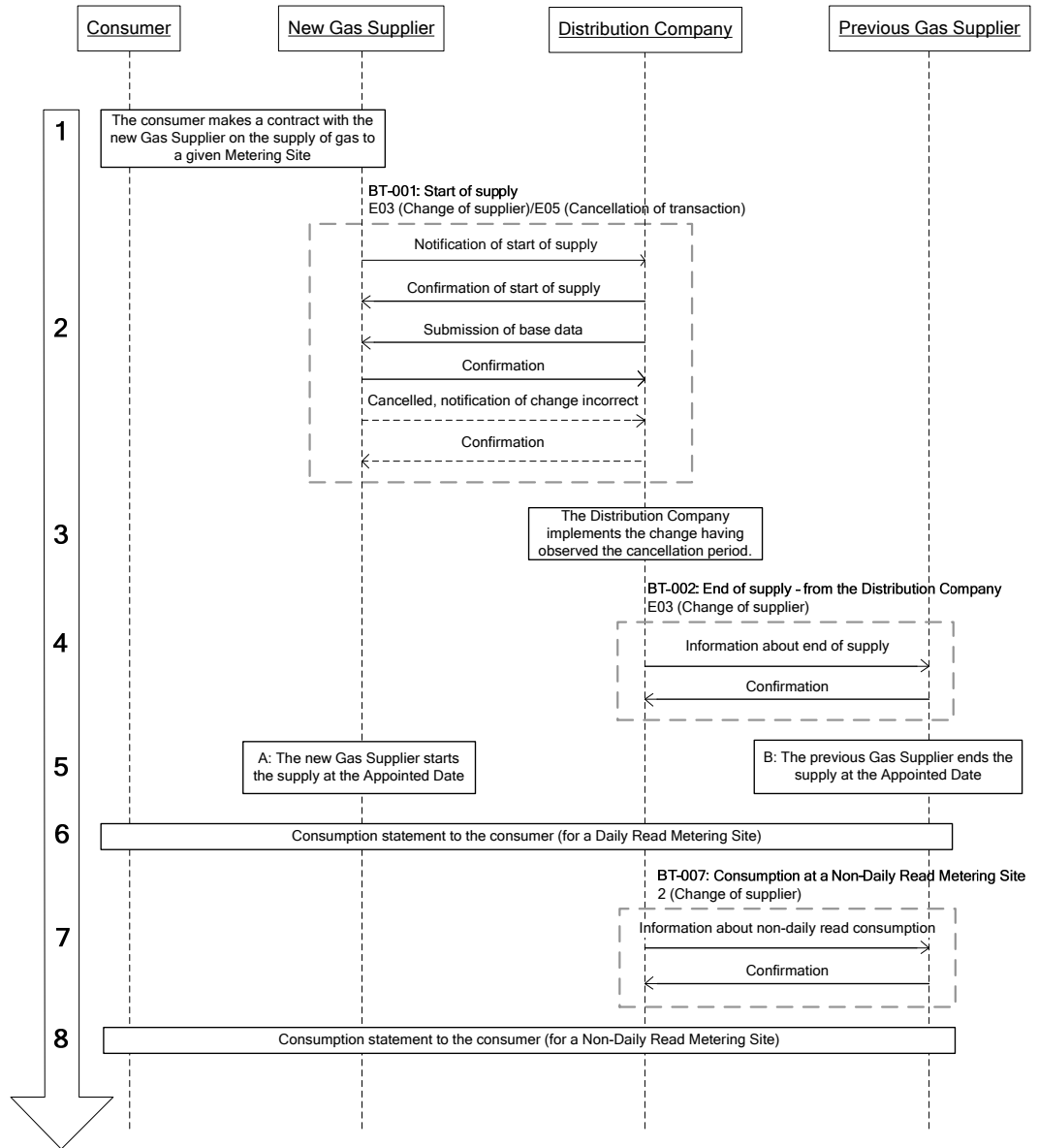


Figure 1: BS-201: Change of supplier

2.1.1 General about change of supplier

A request for a change of supplier must always be submitted to the Distribution Company by the Gas Supplier as the consumer is not entitled to do so.

This business scenario consists of three transactions:

- Notification of start of supply
- Notification to the previous Gas Supplier of end of supply
- Notification to the previous Gas Supplier of the consumption metered at the Non-Daily Read Metering Site.

2.1.2 Start condition for change of supplier

In order for the Gas Supplier to submit an electronic notification of a change of supplier for a given Metering Site ('Start of supply'), a contract must have been concluded with the consumer on the supply of natural gas to the relevant Metering Site from a given Appointed Date.

2.1.3 Steps in the scenario 'Change of supplier'

1. The consumer makes a contract with the new Gas Supplier on the supply of natural gas to a given Metering Site.
2. Following the conclusion of the contract, the new Gas Supplier sends an EDI message about start of supply (BT-001) to the Distribution Company, indicating the Appointed Date requested.

In reply to the Gas Supplier's notification of start of supply, the Distribution Company sends an EDI message (BT-001) with the answer status (approved/rejected).

If the Distribution Company rejects the message, it must state one of the following reasons:

- Metering Site not identifiable
- Unauthorised Gas Supplier
- Requested Appointed Date not within deadline
- Metering Site blocked for change of supplier, eg because:
 - Change of supplier has already been reported as at the Appointed Date
 - if Relocation has been reported for the Metering Site before the Appointed Date for change of supplier
 - Metering Site has been recorded as being closed down as at the Appointed Date.

Note that if the Distribution Company receives a notification from two Gas Suppliers in respect of the same Appointed Date, the Gas Supplier whose communication arrives first will be awarded the supply. Consequently, all notifications received after the one first approved are rejected.

If the Distribution Company approves the request for change of supplier, it will subsequently submit base data as described in Business Scenario BS-203: Submission of base data.

If there is no street code relating to the installation address and it therefore does not appear from the base data message, the street code will be sent in a new message.

The new Gas Supplier is responsible - on the basis of the consumer party name and the meter location address - for manually checking that the change of supplier has been carried out for the correct Metering Site and the correct consumer. If this is not the case, the new Gas Supplier must within the cancellation period cancel the change of supplier.

The Gas Supplier is also entitled to cancel an approved change of supplier if the consumer exercises his right of cancellation. However, the Gas Supplier is responsible for ensuring that start of supply is requested in time for the consumer's right of cancellation in connection with distance selling to expire before the Gas Supplier's cancellation deadline expires.

The Gas Supplier also has the right to cancel an approved change of supplier for other reasons, eg if the Gas Supplier and the consumer withdraw from the contract.

If the Gas Supplier wants to cancel a change of supplier, he must do so by sending an EDI message to the Distribution Company (BT-001).

In reply to the Gas Supplier's cancellation message, the Distribution Company sends an EDI message approving or rejecting the cancellation (BT-001).

If the Distribution Company approves the cancellation of a change of supplier, the business scenario ends here.

If the new Gas Supplier rejects the cancellation, one of the following reasons must be stated:

- Metering Site not identifiable
- Gas Supplier not approved

- Cancellation after expiry of deadline

After having accepted the change of supplier, the Distribution Company notifies the consumer of the change of supplier and provides - as a minimum - information about Appointed Date, the new Gas Supplier, the GSRN number of the Metering Site as well as information about what the consumer should do if he wants to cancel the change of supplier.

For Non-Daily Read Metering Sites the Distribution Company sends together with the information about the change of supplier a meter-reading card to the consumer, requesting him to read his meter on the Appointed Date if the time of approval for start of supply is close to the Appointed Date. If the time of approval is much earlier than the Appointed Date, the meter-reading card will be sent separately when the Appointed Date approaches.

3. When the new Gas Supplier's cancellation deadline has expired, the Distribution Company implements the change of supplier as at the Appointed Date. After this has been done, a change of supplier can only be cancelled if the incoming consumer, the vacating consumer or the incoming consumer's Gas Supplier subsequently reports a Relocation for the Metering Site.
4. The Distribution Company notifies the consumer of the change of supplier implemented.
5. The Distribution Company sends an EDI message about end of supply to the previous Gas Supplier (BT-002).
6. A: The new Gas Supplier starts the supply of gas to the approved Metering Site on the Appointed Date.

B: The previous Gas Supplier stops the supply of gas on the Date Appointed for the change of supplier.
7. In the case of a Daily Read Metering Site, the previous Gas Supplier has the data necessary to settle the consumption with the consumer and sends the consumption statement to the consumer in accordance with applicable rules when the Validated metered data to be used for settlement are available.

If the previous Gas Supplier supplies gas to a Daily Read Metering Site, the business scenario ends here.

8. When the Distribution Company has received reading data for a Non-Daily Read Metering Site, the Distribution Company sends an EDI message with a statement of consumption up to the Appointed Date to the previous Gas Supplier (BT-007).

9. In the case of a Non-Daily Read Metering Site, the previous Gas Supplier makes a final settlement for the consumer on the basis of the consumption statement sent by the Distribution Company.

In the case of a Non-Daily Read Metering Site, the consumption statement may result in a new value for estimated annual consumption. In this case, the Distribution Company submits base data for the Metering Site to the new Gas Supplier in accordance with business scenario BS-203: Submission of base data.

2.1.4 Handling incorrect changes of supplier

Errors may have been committed in connection with the Gas Supplier's notification of a change of supplier.

If the error is discovered before the expiry of the Gas Supplier's cancellation period, the error can be remedied by the Gas Supplier sending a cancellation message (for the approved start of supply).

If the error is discovered after the expiry of the cancellation period, the issue is resolved by using other communication. Situations that could not have been avoided by exercising general due care are considered errors.

The Distribution Company only offers assistance in the handling of errors in connection with existing supplier relationships, ie the change of supplier that has resulted in the present supplier having taken over the supply. Any errors made in connection with a previous supplier taking over the supply are of no concern to the Distribution Company and must be handled by the parties involved.

The Distribution Company does not offer assistance in the handling of errors that should reasonably have been discovered earlier. The Distribution Company considers a change of supplier to be incorrect if the consumer vis-à-vis the Gas Supplier has reacted to the Distribution Company's information about an imminent change of supplier and the Gas Supplier has not reacted in time (ie by the cancellation deadline). If a consumer has made a supply agreement with a new Gas Supplier even though he was bound by an agreement with the previous Gas Supplier, the Distribution Company does not consider this an incorrect change of supplier.

The Gas Supplier initiating the incorrect change of supplier must also initiate procedures to handle/remedy the error. The Distribution Company only handles/remedies errors if all parties involved have consented to this and such consent is documented.

If the Gas Supplier makes a request in the period between the expiry of the cancellation deadline and start of supply, the Distribution Company can cancel the change of supplier so that the previous Gas Supplier continues the supply of gas.

If the Gas Supplier makes a request after start of supply, the change of supplier is not cancelled retrospectively. The Distribution Company may assist in ensuring that:

- the previous Gas Supplier takes over the supply or that - if the previous Gas Supplier is opposed to this - the Public Supply Obligation Company takes over the supply instead
- a meter reading is taken so that the parties involved can indemnify the injured parties.

2.1.5 Deadlines for change of supplier

Process	Deadline	Explanation
Start of supply	As quickly as possible and not later than at 18:00 on the 10th Business Day before the Appointed Date.	Notice of request for change of supplier before Appointed Date.
Approval of start of supply	Not later than 2 hours after receipt of start-of-supply message.	
Submission of base data	To be sent immediately in continuation of but after acceptance of start of supply.	Submission of base data to new Gas Supplier in continuation of confirmation of start-of-supply
Information to consumer	Not later than 1 Business Day after receipt of start-of-supply message.	The Distribution Company sends information about new Gas Supplier to the consumer.
Notification of end of supply	2 hours after expiry of cancellation deadline.	The Distribution Company gives notification of end of supply to the previous Gas Supplier.
Submission of consumption data for a Non-Daily Read Metering Site	Not later than 20 Business Days after the Date Appointed for the change of supplier.	The Distribution Company submits consumption data for a Non-Daily Read Metering Site to the previous Gas Supplier.

Figure 1. Deadlines for change of supplier

2.1.6 Data content for change of supplier

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the scenario.

Notification of start of supply

- Metering Site id
- Start date of supply
- Supplier id

Confirmation of start of supply - approval

- Metering Site id
- Supplier id
- Status
 - Approved

Confirmation of start of supply - rejection

- Metering Site id
- Status:
 - Rejected
- Reason for rejection:
 - Metering Site not identifiable
 - Unauthorised Gas Supplier
 - Requested Appointed Date not within deadline
 - Metering Site blocked for change of supplier, eg because:
 - Change of supplier has already been reported as at the Appointed Date
 - Metering Site has been recorded as being closed down as at the Appointed Date
 - If Relocation has been reported for the Metering Site before the Appointed Date for change of supplier.

Submission of base data

- Transaction cause:
 - E03 Change of supplier
- Metering Site id
- Meter location address (coded address)
- Reading method used at Metering Site
- Physical status of Metering Site
- Validity start date
- Start date of supply
- Supplier id
- Date of reading
- Estimated annual consumption
- Consumer party name and possible second consumer party name

Confirmation of start of supply - cancellation

- Metering Site id
- Start date of supply

- Supplier id

Confirmation of cancellation of approved Start of Supply

- Metering Site id
- Supplier id
- Status
 - Approved

Rejection of cancellation of approved start of supply

- Metering Site id
- Status:
 - Rejected
- Reason for rejection:
 - Metering Site not identifiable
 - Unauthorised Gas Supplier
 - Cancellation not within deadline

Information about end of supply

- Metering Site id
- End date of supply
- Supplier id

Information about non-daily read consumption

- Metering Site id
- Quantity time interval
- Product code
 - 3002: Total consumption in kWh₀
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (up to three decimals)
- Reason code for reading
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Manually corrected value

2.1.7 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-201
BS name	Change of supplier
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-001

BT name	Start of supply
BT version	3
BT ID	DK-BT-004
BT name	Base Data for Metering Site
BT version	3
BT ID	DK-BT-002
BT name	End of supply - from MPA
BT version	3
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.2 BS-202: End of supply

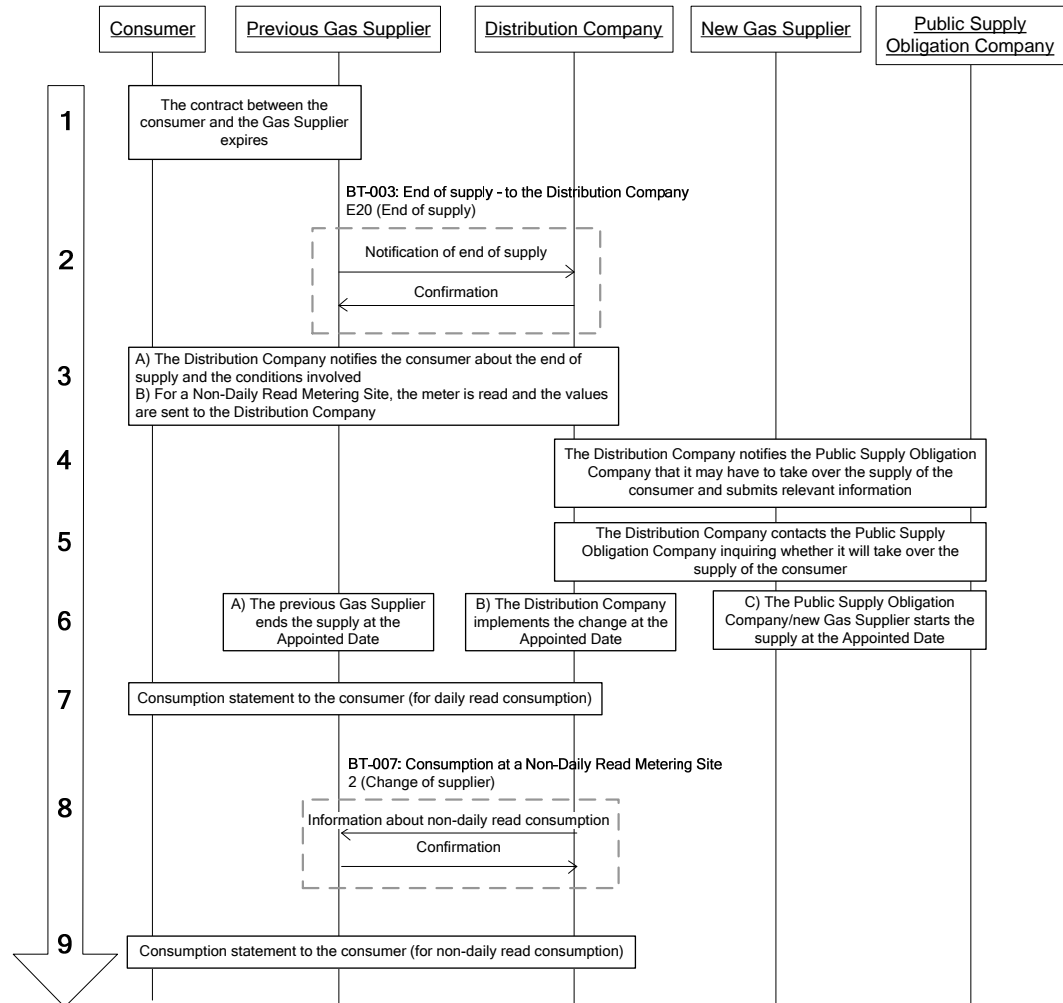


Figure 2: BS-202: End of supply

2.2.1 General

A Gas Supplier remains responsible for a given Metering Site until a new Gas Supplier takes over the responsibility (business scenario BS-201) or the Gas Supplier, by giving the notice applicable at the relevant time, informs the Distribution Company that supply of the Metering Site is no longer required. In the latter case, the messages are to be sent in accordance with the business scenario described in this section.

This business scenario consists of two transactions:

- End of supply (to the Distribution Company)
- Consumption data for a Non-Daily Read Metering Site

2.2.2 Start condition for end of supply

The Gas Supplier is aware that the supply will stop at a given Appointed Date, typically if the consumer or Gas Supplier does not want to renew or renegotiate his contract, or if there is a breach of contract before the expiry of the agreement.

2.2.3 Steps in the scenario 'End of supply'

1. The Gas Supplier notifies the consumer that the supply will end as at the Appointed Date. The Gas Supplier must as a minimum state the Appointed Date and the deadline by which the consumer must have found another Gas Supplier. The Gas Supplier must also state that the Public Supply Obligation Company will be appointed Gas Supplier if the deadline for finding another Gas Supplier is not observed.

The contract concluded by the consumer and the Gas Supplier expires, and the supply stops on the given Appointed Date.

2. The Gas Supplier notifies the Distribution Company of end of supply, stating the Metering Site and the associated Appointed Date (BT-003). If the Distribution Company rejects the message, it must state one of the following reasons:
 - Metering Site not identifiable
 - Unauthorised Gas Supplier (if the Gas Supplier does not supply the Metering Site).
 - Requested Appointed Date not within the deadline.
3. If on the ninth Business Day before the Appointed Date a start of supply has been approved by another Gas Supplier as at the Appointed Date for the end of supply or earlier, and the cancellation deadline for an approved start of supply has not expired, the expiry of the cancellation deadline is awaited. If the approved start of supply is cancelled, the Public Supply Obligation company takes over the supply as at the Appointed Date for end of supply, and the Distribution Company informs the Public Supply Obligation Company accordingly.

If on the ninth Business Day before the Appointed Date for end of supply another Gas Supplier has approved a start of supply as at the Appointed Date for the end of supply or earlier, and if the cancellation deadline for approved start of supply has expired, the process stops here and is continued under BS-201.

If on the ninth Business Day before the Appointed Date for end of supply another Gas Supplier has not approved a start of supply as at the Appointed

Date, the Public Supply Obligation Company takes over the supply as at the Appointed Date, and the Distribution Company informs the Public Supply Obligation Company accordingly.

If EDI communication is used between the Distribution Company and the Public Supply Obligation Company, the Distribution Company's notification of the Public Supply Obligation Company as described above must be effected using EDI message BT-001 and reason code E01 (Relocation). Not later than two hours after notification about the take-over of supply has been sent, the Distribution Company must forward base data for the Metering Site using EDI message BT-004 and reason code E01 (Relocation). This process corresponds to steps 2 and 3 in 'Figure 9: BS-209: Relocation (incoming consumer) notified to the Gas Supplier', where the Distribution Company assumes the Gas Supplier's role and the Public Supply Obligation Company assumes the Distribution Company's role.

The Public Supply Obligation Company is not entitled to refuse to take over the supply of the Metering Site but may subsequently and if necessary enter into a payment agreement with the relevant parties.

4. In case of a Non-Daily Read Metering Sites, the Distribution Company sends a meter-reading card to the consumer and requests that a meter reading be made on the Appointed Date.
5. A) The previous Gas Supplier stops the supply as at the Appointed Date (which may be earlier than the end of supply date due to a reported change of supplier).
B) The Distribution Company implements the change as at the Appointed Date.
C) The default gas supply company starts the supply on the Appointed Date.
6. In case of a Daily Read Metering Site, the previous Gas Supplier has the necessary basis for settling the consumption with the consumer and sends the consumption statement to the consumers in accordance with applicable rules when the necessary settlement basis is available.

If the previous Gas Supplier supplies natural gas to a Daily-Read Metering Site, the business scenario ends here.

7. When a meter-reading card for a Non-Daily Read Metering Site has been received, the Distribution Company sends an EDI message (BT-007) and a statement of consumption up to the Appointed Date to the previous Gas Supplier.

8. In case of a Non-Daily Read Metering Site, the previous Gas Supplier will prepare a final settlement for the consumer on the basis of a consumption statement sent by the Distribution Company.

2.2.4 Deadlines for end of supply

Process	Deadline	Explanation
Notification of end of supply	Not later than on the 20th Business Day before end of supply	The Gas Supplier sends notification of end of supply to the consumer,
Request for end of supply	Not later than at 18:00 on the 9th Business Day before the Appointed Date.	The Gas Supplier sends a request for end of supply to the Distribution Company.
End of supply accepted	Not later than 2 hours after receipt of request.	
Information about start of supply	As soon as it is certain that the Public Supply Obligation Company will take over the supply - on the 9th or 4th Business Day before the Appointed Date, depending on the circumstances	The Distribution Company sends information to the Public Supply Obligation Company.
Submission of consumption data for a Non-Daily Read Metering Site	Not later than 20 Business Days after the Appointed Date for change of supplier.	The Distribution Company submits consumption data for a Non-Daily Read Metering Site to the previous Gas Supplier.

Table 3. Deadlines for end of supply

2.2.5 Data content for end of supply

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the scenario.

Information about end of supply

- Metering Site id
- End date of supply
- Supplier id

Confirmation of end of supply - approval

- Metering Site id
- End date of supply

Confirmation of end of supply - rejection

- Metering Site id
- Reason for reply

Information about non-daily read consumption

- Metering Site id
- Quantity time interval
- Product code
 - 3002: Total consumption in kWh₀
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (up to three decimals)
- Reason code for reading
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Manually corrected value

If EDI communication is used between the Public Supply Obligation Company and the Distribution Company, the data content outlined below must be exchanging using BT-001 and BT-004, respectively:

Notification of start of supply

- *Metering Site id*
- *Start date of supply*
- *Supplier id*
- *Consumer party name and contact address*

Confirmation of start of supply - approval

- *Metering Site id*
- *Start date of supply*
- *Supplier id*

Submission of base data

- *Transaction cause - end of supply*
- *Metering Site id*
- *Meter location address*
- *Reading method used at Metering Site*
- *Physical status of Metering Site*
- *Validity start date*
- *Start date of supply*
- *Supplier id*
- *Date of reading*
- *Estimated annual consumption*

2.2.6 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-202
BS name	End of supply
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-001
BT name	Start of supply
BT version	3
BT ID	DK-BT-003
BT name	End of supply - to MPA
BT version	3
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.3 BS-203: Submission of base data

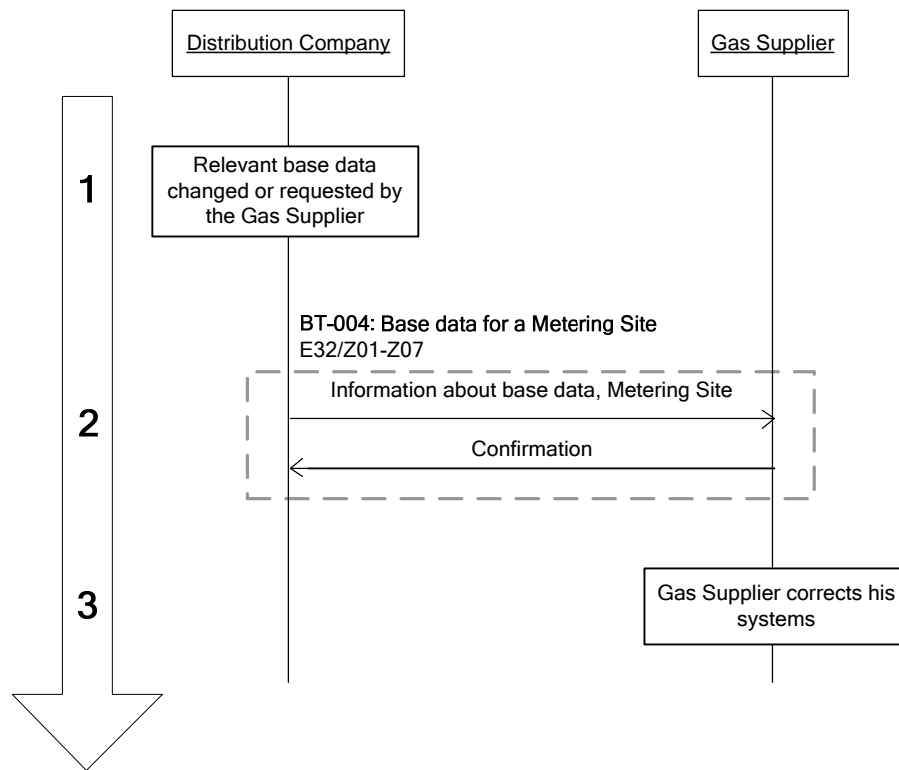


Figure 3: BS-203: Submission of base data.

2.3.1 General

The Distribution Company is responsible for the base data of a given Metered Site. Changes in the base data used by the Gas Supplier must be communicated to him as soon as possible in accordance with this business scenario. Once a change of supplier of a Metering Site has been approved, the updated base data must also be sent to the new Gas Supplier including the values applicable as from the Appointed Date. If a change is made from non-daily to daily read consumption, a final statement made according to the relevant business scenarios must also be submitted.

If several data for a Metering Site have changed, and more than one validity start date is involved, a transaction must be sent for each date.

The Distribution Company's IT system must be capable of submitting **all** base data for a given Gas Supplier. The Gas Supplier may manually request the submission of base data for all his Metering Sites. Such requests can only be filed twice annually with the Distribution Company, which will send the data either through EDI communication or in another structured format, eg Excel.

This business scenario consists of one transaction:

- Base data for a Metering Site

2.3.2 Start condition for submission of base data

The Distribution Company has observed that base data relevant to the Gas Supplier have been changed. It may be that a control reading has resulted in a different estimated annual consumption, or the actual consumer has asked to have his on-account settlement changed as consumption at the Metering Site has changed. The Distribution Company's submission of a base data message to the Gas Supplier can be caused by the following:

- Update of base data as agreed
- Change of meter location address
- Change of next scheduled date(s) of reading
- Change of estimated annual consumption (Market Share Value of the Metering Site)
- Change of consumer party name(s)
- Change of physical status of Metering Site
- Change of meter-reading method.

2.3.3 Steps in the scenario 'Submission of base data'

1. The Distribution Company finds out that relevant base data have changed, or the Gas Supplier has requested that base data be submitted.
2. The Distribution Company sends a base data message to the Gas Supplier specifying the validity start date.

The Gas Supplier checks that the Metering Site is one that he supplies. If the Gas Supplier rejects the message, the Distribution Company can either send a new message or contact the Gas Supplier by other means.

3. Having received the new base data, the Gas Supplier corrects his systems entering the base data that have been changed in accordance with the transaction cause provided. Other base data contained in the message can be ignored.

2.3.4 Deadlines for submission of base data

Process	Deadline	Explanation
Updating of base data	Not later than 1 Business Day after updating	The Distribution Company submits the updated base data to the Gas Supplier

Table 2. Deadlines for submission of base data

2.3.5 Data content for submission of base data

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the business scenario.

Information about base data, Metering Site

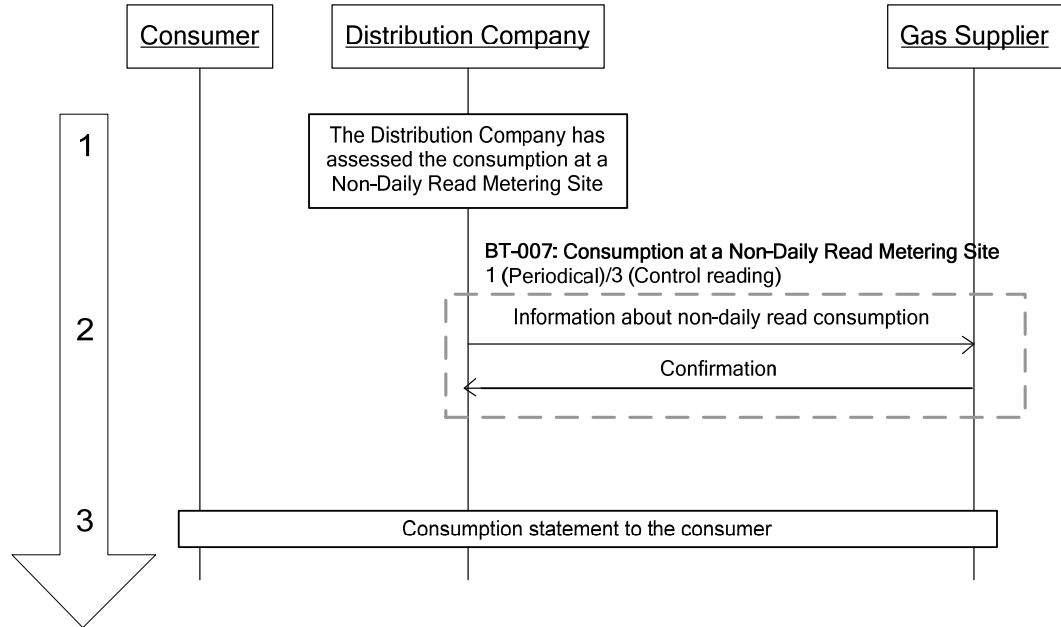
- Transaction cause
 - E32: Update of base data as agreed
 - Z02: Change of meter location address
 - Z03: Change of next scheduled date(s) of reading
 - Z04: Change of estimated annual consumption
 - Z05: Change of consumer party name(s)
 - Z06: Change of physical status of Metering Site
 - Z07: Change of meter-reading method
- Metering Site id
- Meter location address (coded address)
- Reading method used at Metering Site
- Physical status of Metering Site
- Validity start date
- Start date of supply
- Supplier id
- Date of reading
- Estimated annual consumption
- Consumer party name and possible second consumer party name.

2.3.6 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-203
BS name	Submission of base data
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-004
BT name	Base data for Metering Site
BT version	3

2.4 BS-205: Consumption statement for a Non-Daily Read Metering Site



Figuer 4: BS-205: Consumption statement for a Non-Daily Read Metering Site.

2.4.1 General

The consumption statement for a Non-Daily Read Metering Site is used, for instance, in connection with ordinary periodic meter readings, whether monthly or annual. The business scenario is also used in case a control reading causes an already effected settlement to be changed. The Gas Supplier will be informed by means of a new consumption statement for the period in question.

This business scenario consists of one transaction:

- Submission of consumption data for a Non-Daily Read Metering Site (to the Gas Supplier).

2.4.2 Start condition for submission of consumption statement for a Non-Daily Read Metering Site

The Distribution Company has assessed the consumption at a Non-Daily Read Metering Site, for example in connection with an ordinary periodic meter reading, and quality-checked it in accordance with company procedures.

2.4.3 Steps in the scenario 'Submission of consumption statement for a Non-Daily Read Metering Site'

1. The Distribution Company assesses the consumption at a Non-Daily Read Metering Site.
2. In the case of a Non-Daily Read Metering Site, the Distribution Company notifies the Gas Supplier of the consumption metered in the relevant period.
3. In the case of a Non-Daily Read Metering Site, the Distribution Company and the Gas Supplier assess the consumption of gas and gas transport and send a consumption statement to the consumer in accordance with the applicable rules once the necessary settlement basis is available.

2.4.4 Correction of metered values

If the Distribution Company discovers an error in a previously submitted consumption statement for a Metering Site, a correction message must be sent involving only Metering Sites with values corrected in respect of previously submitted consumption statements.

2.4.5 Error handling in relation to the Gas Supplier

In case of metering errors, the Distribution Company is subject to the practices of the Danish Energy Regulatory Authority regarding the length of the period for which the consumer is to receive retrospective refunding or effect retrospective payment to the Distribution Company with regard to metering errors. Refunding of metering errors is effected on the basis of a corrected consumption statement.

The Gas Supplier is subject to the same rules regarding deferred adjustment as the Distribution Company, and the Distribution Company is responsible for giving the Gas Supplier the correct basis for his settlement in relation to the consumer. As a consequence, the consumption correction, which forms the basis of any deferred adjustment of the consumer's distribution payment, is sent to the Gas Supplier(s) that has/have been servicing the Metering Site in the period for which the distribution payment may be subject to deferred adjustment. The consumption correction is sent to the Gas Supplier through EDI communication as a correction of consumption statements previously submitted to him.

2.4.6 Deadlines for submission of consumption statement for a Non-Daily Read Metering Site

Process	Deadline	Explanation
Communication of consumption data to the Gas Supplier.	In the case of monthly readings, not later than on the 10th Business Day of the month. In the case of annual readings, not later than on the 20th Business Day after the date of reading.	The Distribution Company sends consumption data to the Gas Supplier for monthly or annually read Metering Sites.

Table 3. Deadlines for submission of consumption statement for a Non-Daily Read Metering Site

2.4.7 Data content for submission of consumption statement for a Non-Daily Read Metering Site

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the business scenario.

Information about non-daily read consumption

- Message function
 - 9 Original (for the first submission(s))
 - 5 Replace (for correction message)
- Value interval
- Metering Site id
- Quantity time interval
- Product code
 - 3002: Total consumption in kWh₆
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (up to three decimals)
- Reason code for reading
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Manually corrected value

2.4.8 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-205
BS name	Consumption statement for a Non-Daily Read Metering Site
BS version	3
BS release	0
BS date	12 August 2011

EDI transactions:	
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.5 BS-206: Consumption statement for a Daily Read Metering Site

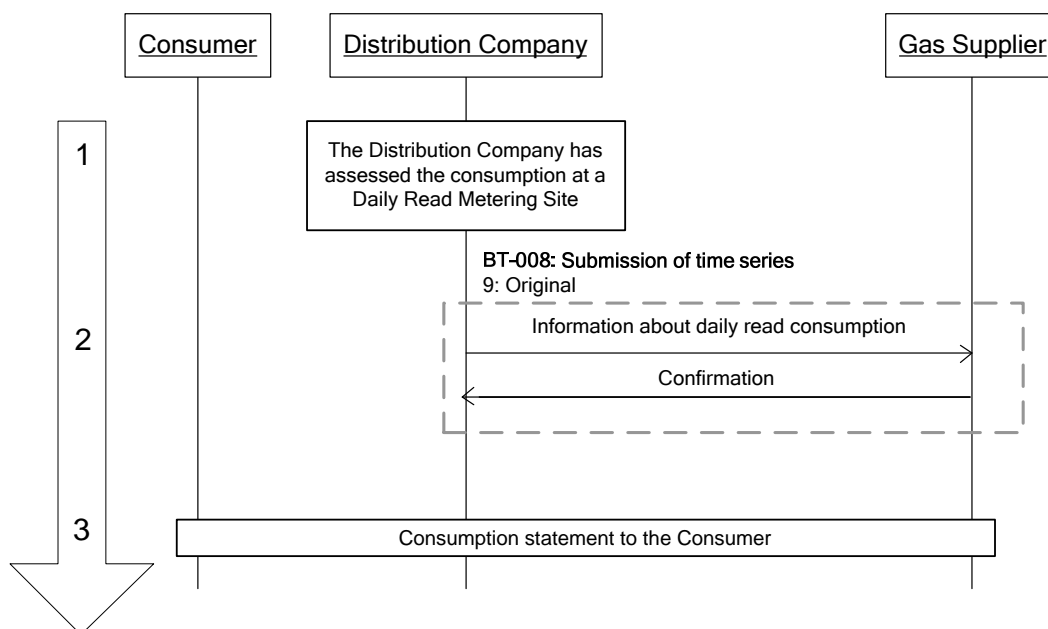


Figure 5: BS-206: Consumption statement for a Daily Read Metering Site.

2.5.1 General

In the case of a Daily Read Metering Site, the Non-Validated consumption is assessed on a daily basis. The resulting figures are to be made available to the Gas Supplier for his nomination. The message is therefore sent daily in the form of hourly values for the preceding gas day and in compliance with the agreed deadlines.

At the end of the month, hourly values for the entire month are resubmitted specifying the relevant month's Validated hourly values to be used in invoicing the consumer.

In addition to daily and monthly (re)submitted hourly values this business scenario is also used if a control reading causes a settlement already effected to be changed. The Gas Supplier will be informed of this by means of a new consumption statement for the period in question.

In the case of a Daily Read Metering Site, the Gas Supplier may request a consumption profile from the Distribution Company. To protect sensitive data, the Distribution Company must make sure that the consumer has authorised the disclosure of the consumption profile. The request is made manually, and the consumption profile is sent in a comma-separated format.

This business scenario consists of one transaction:

- Submission of time series

2.5.2 Start condition for submission of consumption statement for a Daily Read Metering Site

The Distribution Company assesses the daily read consumption on a daily or monthly basis.

2.5.3 Steps in the scenario 'Submission of consumption statement for a Daily Read Metering Site'

1. The Distribution Company assesses the consumption for a Daily Read Metering Site.
2. In the case of a Daily Read Metering Site, the Distribution Company informs the Gas Supplier of the consumption.
3. Once the Gas Supplier has received the Validated consumption data, the consumer can in principle be invoiced.

2.5.4 Correction of metered values

If the Metering Site administrator discovers an error in previously submitted Non-Validated data for a Metering Site, replacement values must be sent provided the error is considered material. If the Metering Site administrator discovers an error in previously submitted Validated data for a Metering Site, the error must be remedied in accordance with the rules in section 2.4.5.

2.5.5 Deadlines for submission of consumption data for a Daily Read Metering Site

Process	Deadline	Explanation
Communication of consumption data (Non-Validated) to the Gas Supplier.	Not later than at 11:00 on every gas day (for the previous gas day).	Every day, the Distribution Company sends Non-Validated consumption data for Daily Read Metering Sites to the Gas Supplier.
Communication of consumption data (Validated) to the Gas Supplier.	Not later than on the 6th Business Day of the month for the previous month's consumption.	Every month, the Distribution Company sends Validated consumption data for Daily Read Metering Sites to the Gas Supplier.

Table 4. Deadlines for submission of consumption statement for Daily Read Metering Sites

2.5.6 Data content for submission of consumption statement for Daily Read Metering Sites

The significant data fields involved in the individual data flows are listed below. 'Significant data are data crucial for the professional handling of the business scenario.

Information about daily read consumption

- Message function
 - 9 Original
- Quantity time period (daily messages contain 1x24 hourly values, and monthly messages contain up to 30x24 hourly values depending on the number of days the Supplier has supplied the Metering Site)
- Metering Site id
- Quantity time interval
- Product code
 - 3001/3002: Total consumption in kWh_o (Non-Validated/Validated)
 - 3003/3004: Total consumption in Nm³ (Non-Validated/Validated) (if conversion equipment available)
 - 3005/3006: Total consumption in m³ (Non-Validated/Validated) (if conversion equipment NOT available)
- Quantity (up to three decimals)
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01 Final value, manually corrected

2.5.7 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-206
BS name	Consumption statement for Daily Read Metering Sites
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-008
BT name	Time series transmission
BT version	3

2.6 BS-207: Relocation (vacating consumer) notified to the Distribution Company

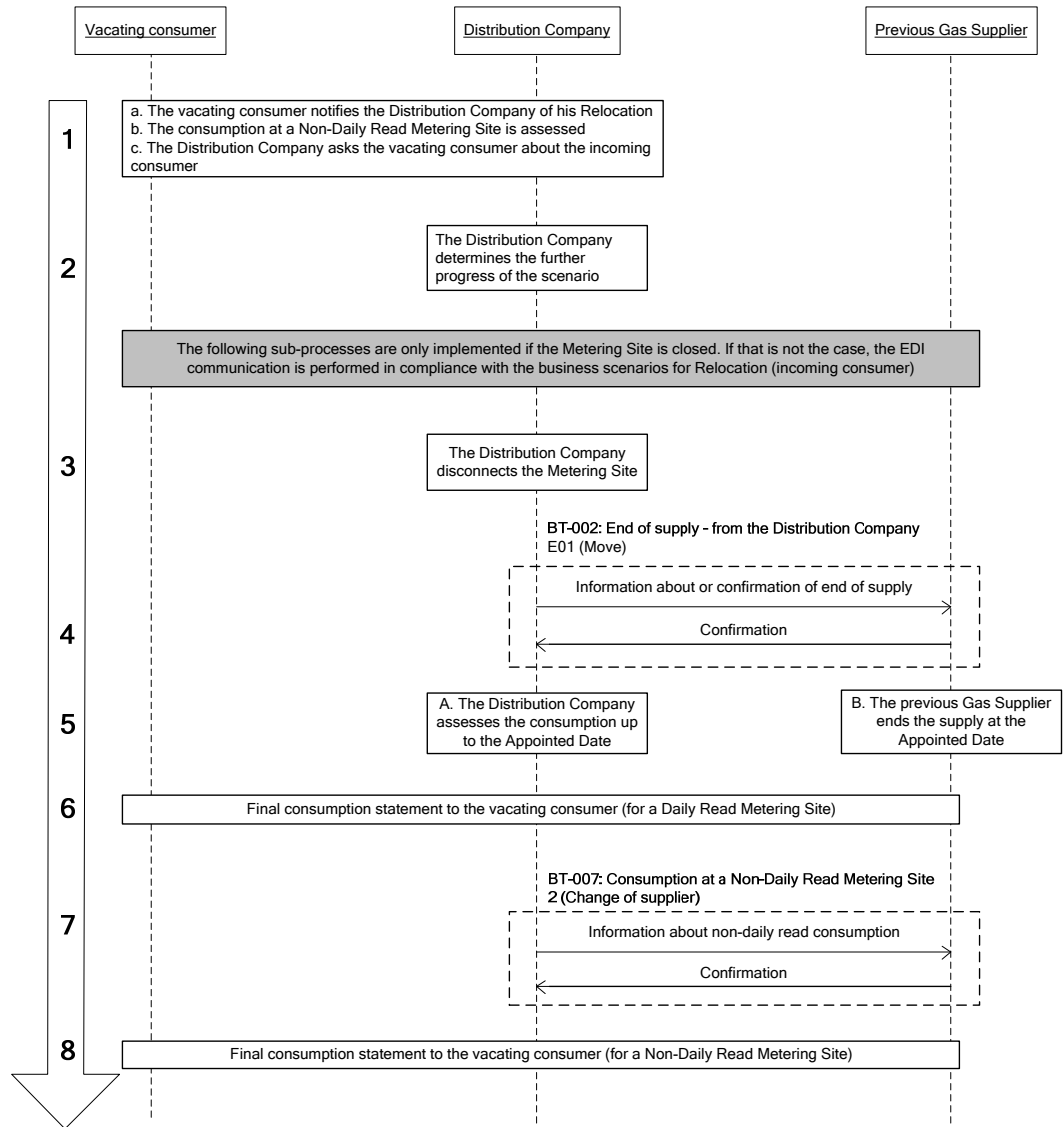


Figure 6: BS-207: Relocation (vacating consumer) notified to the Distribution Company

2.6.1 General

A Gas Supplier remains responsible for a given Metering Site until a vacating consumer notifies the Distribution Company of the Relocation, and the Distribution Company informs the Gas Supplier accordingly. The same business scenario applies if a consumer starts bankruptcy/liquidation proceedings and the estate does not use the Metering Site.

This scenario also applies if the Metering Site is closed down.

This business scenario consists of two transactions:

- End of supply - from the Distribution Company
- Consumption statement for a Non-Daily Read Metering Site

2.6.2 Start condition for Relocation (vacating consumer) notified to the Distribution Company

The vacating consumer informs the Distribution Company of the upcoming Relocation.

2.6.3 Steps in the scenario 'Relocation (vacating consumer) notified to the Distribution Company'

- 1a. The vacating consumer notifies the Distribution Company of the Relocation.

With a view to submitting a final consumption statement, the above-mentioned initial notification of the Distribution Company of the upcoming Relocation must specify not only the date of the vacation of premises but also the vacating consumer's new address.

- 1b. In the case of a Non-Daily Read Metering Site, a meter reading must be made on the Appointed Date in accordance with the Distribution Company's rules (see section 2.7.5), and the vacating consumer must be informed accordingly.
- 1c. The Distribution Company requests information from the vacating consumer about the incoming consumer.
2. On the basis of the vacating consumer's information and the Distribution Company's knowledge of ownership etc., the Distribution Company determines the further progress of the scenario. If the incoming consumer is known, this business scenario is brought to a close, and Relocation is concluded in parallel with the registration of the arrival of the incoming consumer (from stage 1) as described in business scenario BS-208: Relocation (incoming consumer) notified to the Distribution Company or BS209: Relocation (incoming consumer notified to the Gas Supplier).

If the incoming consumer is unknown, the Metering Site can be disconnected as there is no consumer at the premises to pay for any metered consumption.

If the Metering Site is a rented dwelling, the vacating consumer may, however, vacate the premises without leaving information about any incoming consumer since the owner will automatically become the incoming consumer. In this case, Relocation is concluded in parallel with the registration of the owner as incoming consumer as described in business scenario BS-208: Relo-

cation (incoming consumer) notified to the Distribution Company (from stage 1).

The following sub-processes are only implemented if the Metering Site is to be closed down. If this is not the case, EDI communication is performed in accordance with BS-208: Relocation (incoming consumer) notified to the Distribution Company or BS-209: Relocation (incoming consumer) notified to the .

3. The Distribution Company may disconnect the Metering Site.
4. The Distribution Company informs the Gas Supplier of the end of supply indicating transaction cause E01 (Relocation). If a change of supplier has been registered for the Metering Site, a message is also sent to the new Gas Supplier.
5.
 - A. On the basis of a meter reading performed on the Appointed Date for the Relocation, the Distribution Company assesses the consumption up to the Appointed Date.
 - B. The previous Gas Supplier stops the supply on the Appointed Date.
6. In the case of a Daily Read Metering Site, the Distribution Company and the previous Gas Supplier assess the consumption of gas and gas transport and send a final consumption statement to the vacating consumer in accordance with the applicable rules once the necessary settlement basis is available.

If the previous Gas Supplier supplies a Daily Read Metering Site, the business scenario ends here.
7. In the case of a Non-Daily Read Metering Site, the Distribution Company notifies the Gas Supplier of the consumption metered up to the Appointed Date.
8. In the case of a Non-Daily Read Metering Site, the Distribution Company and the previous Gas Supplier assess the consumption of gas and gas transport and send a final consumption statement to the vacating consumer according to the applicable rules once the necessary settlement basis is available.

2.6.4 Deadlines for Relocation (vacating consumer) notified to the Distribution Company

Process	Deadline	Explanation
Relocation message from vacating consumer	Not later than on the 5th Business Day after requested Appointed Date	
Notification about end of supply.	As soon as possible after receipt of the vacating consumer's notice of termination - but not later than at 18:00 on the 5th Business Day after the Appointed Date for Relocation.	The Distribution Company submits a request for end of supply to the Gas Supplier.
Submission of consumption for a Non-Daily Read Metering Site	Not later than 20 Business Days after the Appointed Date for Relocation.	The Distribution Company submits consumption data for a Non-Daily Read Metering Site to the previous Gas Supplier.

2.6.5 Data content for Relocation (vacating consumer) notified to the Distribution Company

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the business scenario.

Information about or confirmation of end of supply

- Metering Site id
- End date of supply

Information about non-daily read consumption

- Metering Site id
- Quantity time interval
- Product code
 - 3002: Total consumption in kWh_o
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (showing up to three decimals)
- Reason code for reading
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Value, manually corrected

2.6.6 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-207
BS name	Relocation (vacating consumer) notified to the Distribution Company
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-002
BT name	End of supply – from MPA
BT version	3
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.7 BS-208: Relocation (incoming consumer) notified to the Distribution Company

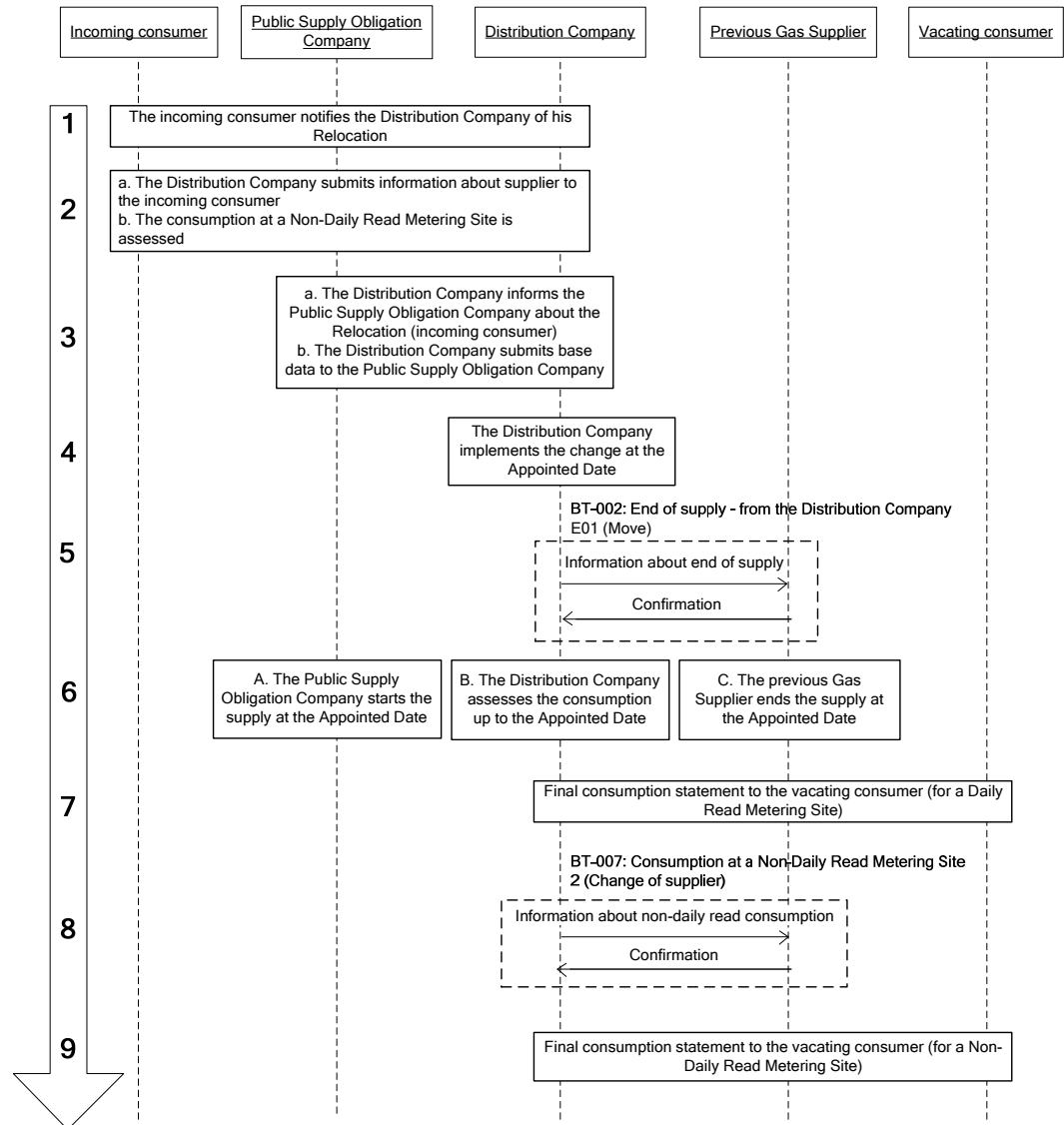


Figure 7: BS-208: Relocation (incoming consumer) notified to the Distribution Company

2.7.1 General

This scenario applies to the situation where the new Gas Supplier does not submit a notification of the arrival of an incoming consumer at the Metering Site. In this case, the incoming consumer contacts the Distribution Company and is assigned the Public Supply Obligation Company as his Gas Supplier. The scenario also applies if a consumer starts bankruptcy/liquidation proceedings and the estate continues to use the Metering Site.

This business scenario consists of two transactions:

- End of supply - from the Distribution Company
- Consumption data for a Non-Daily Read Metering Site

2.7.2 Start condition for Relocation (incoming consumer) notified to the Distribution Company

The consumer relocates to the Metering Site. The situation of the vacating consumer is one of two: Either he has already submitted a notification of his Relocation (BS-207: Relocation (vacating consumer) notified to the Distribution Company), or he has not submitted a notification.

2.7.3 Steps in the scenario 'Relocation (incoming consumer) notified to the Distribution Company'

1. The incoming consumer notifies the Distribution Company that he has relocated to the Metering Site if he wants the Public Supply Obligation Company to be his Gas Supplier or is unable to comply with the deadline involved if another Gas Supplier were to submit notification of Relocation (incoming consumer) in time. If the incoming consumer does not contact the Distribution Company but the Distribution Company has been given his name by the vacating consumer or the owner of the premises, the Distribution Company may simply register the incoming consumer, informing him accordingly.

If the incoming consumer has submitted a notification of Relocation (incoming consumer) to the Distribution Company **and** concluded an agreement with a new Gas Supplier, who submits a notification of start of supply in time, the incoming consumer will be registered with the Gas Supplier that has sent a notification of Relocation.

- 2a. The Distribution Company provides the incoming consumer with details concerning the supplier relationship for the Metering Site and other necessary information. The incoming consumer may lodge a complaint in case the information about the supplier relationship is not correct.
- 2b. In the case of a Non-Daily Read Metering Site, a meter reading must be made on the Appointed Date in accordance with the Distribution Company's rules (see section 2.7.5), and the incoming consumer must be informed accordingly.

The incoming consumer is asked to perform a meter reading on the Appointed Date if, in his notification of Relocation, he did not include the result of a reading made at that time. If the notification of an incoming consumer arrives later than on the requested Appointed Date, the incoming consumer will still be asked to perform a meter reading, however not later than one month after the Appointed Date.

- 3a. The Distribution Company notifies the Public Supply Obligation Company of the start of supply due to Relocation (incoming consumer).

If the Public Supply Obligation Company uses EDI communication, the Distribution Company must use EDI message BT-001.

- 3b. The Distribution Company provides the Public Supply Obligation Company with base data.

If the Public Supply Obligation Company uses EDI communication, the Distribution Company must use EDI message BT-004.

4. The Distribution Company implements the change as at the Appointed Date.

5. The Distribution Company notifies the previous Gas Supplier of end of supply specifying E01 (Relocation) as transaction cause. If a change of supplier for the Metering Site has been registered, a message is also sent to the future Gas Supplier.

6. A. The Public Supply Obligation Company starts the supply on the Appointed Date.

B. On the basis of a meter reading relating to the incoming consumer and possibly also one relating to the vacating consumer, the Distribution Company assesses the consumption of the latter.

C. The previous Gas Supplier stops the supply on the Appointed Date.

7. In the case of a Daily Read Metering Site, the Distribution Company and the previous Gas Supplier assess the consumption of gas and gas transport and send a final consumption statement to the vacating consumer in accordance with the applicable rules once the necessary settlement basis is available.

If the previous Gas Supplier supplies a Daily Read Metering Site, the business scenario ends here.

8. In the case of a Non-Daily Read Metering Site, the Distribution Company informs the Gas Supplier of the consumption metered up to the Appointed Date.

9. In the case of a Non-Daily Read Metering Site, the Distribution Company and the previous Gas Supplier assess the consumption of gas and gas transport

and send a final consumption statement to the vacating consumer according to the applicable rules once the necessary basis for settlement is available.

2.7.4 Handling exceeded deadlines in connection with Relocation

Not later than **five Business Days** after the Appointed Date specified by the consumer, the Distribution Company must be in receipt of a notification of Relocation (vacating and incoming consumer) and a meter reading. If the Distribution Company receives the consumer's notification of Relocation more than five Business Days after the Appointed Date indicated by the consumer, the Distribution Company will set an Appointed Date, the retrospective effect of which cannot exceed five Business Days from the time of receipt of the notification

2.7.5 Meter reading in connection with Relocation

If a meter reading has been made more than one month after the Distribution Company's Appointed Date, the Distribution Company will arrange for a new reading to be taken. This can be effected either by the vacating/incoming consumer taking a new reading himself or by the Distribution Company undertaking the meter reading at his expense. A meter reading made on the Distribution Company's Appointed Date will be used as is. If the meter reading has not been made on the Distribution Company's Appointed Date but has been performed less than one month after the Distribution Company's Appointed Date, the consumption up to the Appointed Date will be calculated on the basis of the reading. An example is provided in the following:

On the basis of the vacating consumer's notification of Relocation, the Distribution Company has set 15 June as the Appointed Date. The premises were vacated on 28 May 2007, on which date the vacating consumer read the meter. Thus, there is less than a month between the reading and the Distribution Company's Appointed Date. The Distribution Company therefore calculates the consumption up to the Appointed Date (15 June) on the basis of the vacating consumer's reading made on 28 May.

2.7.6 Deadlines for Relocation (incoming consumer) notified to the Distribution Company

Process	Deadline	Explanation
End-of supply message	As soon as possible after the incoming consumer's notification of Relocation, but not later than on the 5th Business Day after the Appointed Date.	The Distribution Company submits a request for end of supply to the Gas Supplier.
Submission of consumption data for a Non-Daily Read Metering Site.	Not later than 20 Business Days after the Appointed Date for Relocation.	The Distribution Company submits consumption data for a Non-Daily Read Metering Site to the previous Gas Supplier.

2.7.7 Data content for Relocation (incoming consumer) notified to the Distribution Company

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the business scenario.

Information about or confirmation of end of supply

- Metering Site id
- End date of supply

Information about non-daily read consumption

- Metering Site id
- Quantity time interval
- Product code
 - 3002: Total consumption in kWh₆
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (showing up to three decimals)
- Reason code for reading
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Value, manually corrected

If EDI communication is used between the Public Supply Obligation Company and the Distribution company, the following data content must be exchanged using BT-001 and BT-004, respectively:

Notification of start of supply

- *Metering site id*
- *Start date of supply*
- *Supplier id*

- *Consumer party name and contact address*

Confirmation of start of supply - approval

- *Metering Site id*
- *Start date of supply*
- *Supplier id*

Submission of base data

- *Transaction cause – end of supply (E03)*
- *Metering Site id*
- *Meter location address*
- *Reading method used at Metering Site*
- *Physical status of Metering Site*
- *Validity start date*
- *Start date of supply*
- *Supplier id*
- *Date of reading*
- *Expected annual consumption*

2.7.8 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-208
BS name	Relocation (incoming consumer) notified to the Distribution Company
BS version	3
BS release	0
BS date	1 June 2011
EDI transactions:	
BT ID	DK-BT-001
BT name	Start of supply
BT version	3
BT ID	DK-BT-004
BT name	Base Data for Metering Site
BT version	3
BT ID	DK-BT-002
BT name	End of supply – from MPA
BT version	3
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.8 BS-209: Relocation (incoming consumer) notified to the Gas Supplier

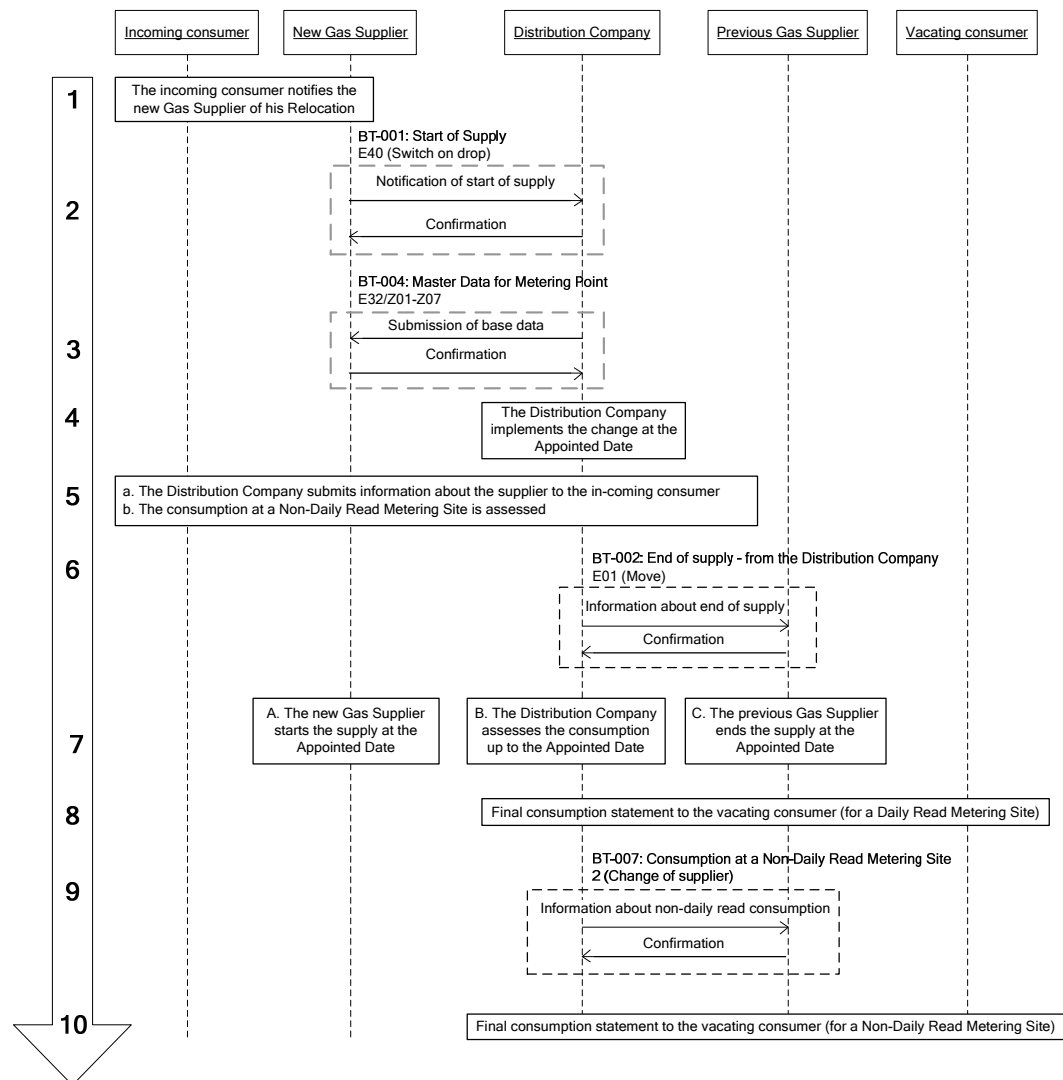


Figure 8: BS-209: Relocation (incoming consumer) notified to the Gas Supplier

2.8.1 General

This business scenario must always be applied if the Gas Supplier wants to supply the Metering Site from the Appointed Date for Relocation (incoming consumer). It must also be applied if the Gas Supplier is already the vacating consumer's Gas Supplier at the Metering Site.

This business scenario consists of four transactions:

- Start of supply
- End of supply - from the Distribution Company
- Consumption at a Non-Daily Read Metering Site
- Base data for a Metering Site

2.8.2 Start condition of Relocation (incoming consumer) notified to the Gas Supplier

An incoming consumer is to relocate to the Metering Site and does not want the Public Supply Obligation Company as his Gas Supplier. A contract must be concluded with the incoming consumer on the supply of natural gas to the relevant Metering Site from a specified Appointed Date. The Appointed Date must be the date for the overtaking of the Metering Site, ie overtaking of the lease or the ownership of the property.

2.8.3 Steps in the scenario 'Relocation (incoming consumer) notified to the Gas Supplier'

1. The incoming consumer contacts the Gas Supplier about his upcoming Relocation stating his GSRN number (EAN-GSRN number) and the requested Appointed Date. If the incoming consumer does not know the relevant meter ID number the Gas Supplier must request the number from the Distribution Company. The incoming consumer must also state his name and contact address. The address is relevant if the meter location address is not his domicile, eg a holiday home.
2. The Gas Supplier notifies the Distribution Company of the start of supply indicating transaction cause E01 (Relocation). The notification must contain, among other details, the incoming consumer's contact address. If the Distribution Company rejects the notification, it must give one of the following reasons:
 - Metering Site not identifiable
 - Unauthorised Gas Supplier
 - Requested Appointed Date not within deadline
 - Metering Site blocked for change of supplier.

If the change is approved, the reply will moreover include the base data for the Metering Site.

To ensure that the Relocation has been made for the correct Metering Site, the Gas Supplier checks that the meter location address corresponds to the one specified by the incoming consumer. If this is not the case, the Gas Supplier must contact the Distribution Company in order to have the Relocation cancelled.

3. In the case of a Metering Site for which the incoming consumer has been approved, the Distribution Company implements the change of supplier as at the Appointed Date.

- 4a. The Distribution Company provides the incoming consumer with information about the Gas Supplier relationship for the meter ID number and other necessary information. If, at this time, it turns out that the notification of the arrival of the incoming consumer should not have been approved, eg because the incoming consumer had already moved in, EDI communication cannot at this point in time be used to reject the incoming consumer. This must be done by contacting the Gas Supplier.
- 4b. In the case of a Non-Daily Read Metering Site, a meter reading must be made on the Appointed Date in accordance with the Distribution Company's rules (see section 2.7.5), and the incoming consumer must be informed accordingly.
5. The Distribution Company notifies the previous Gas Supplier of the end of supply stating transaction cause E01 (Relocation). If the previous and the new Gas Supplier are identical, the IT system must be capable of relating the notification of end of supply to the contract of the vacating consumer. If a change of supplier for the Metering Site has been registered, a message is also sent to the future Gas Supplier.
6.
 - A. The new Gas Supplier starts the supply on the Appointed Date.
 - B. On the basis of a meter reading relating to the incoming consumer and perhaps also one relating to the vacating consumer, the Distribution Company assesses the vacating consumer's consumption.
 - C. The previous Gas Supplier stops the supply on the Appointed Date.
7. In the case of a Daily Read Metering Site, the Distribution Company and the previous Gas Supplier assess the consumption of gas and gas transport and send a final consumption statement to the vacating consumer in accordance with the applicable rules once the necessary settlement basis is available.

If the previous Gas Supplier supplies a Daily Read Metering Site, the business scenario ends here.

8. In the case of a Non-Daily Read Metering Site, the Distribution Company informs the Gas Supplier of the consumption metered up to the Appointed Date.
9. In the case of a Non-Daily Read Metering Site, the Distribution Company and the previous Gas Supplier assess the consumption of gas and gas transport and send a final consumption statement to the vacating consumer in accordance with the applicable rules once the necessary settlement basis is available.

2.8.4 Deadlines for Relocation (incoming consumer) notified to the Gas Supplier

Process	Deadline	Explanation
Request for start of supply	Not later than at 18:00 on the 3rd Business Days before the Date Appointed for Relocation (incoming consumer)	The Gas Supplier submits notification of Relocation (incoming consumer) on behalf of the incoming consumer.
Request accepted	Not later than 2 hours after receipt of request.	
Submission of base data	Not later than 2 hours after approval of request for start of supply	Submission of base data to the new Gas Supplier following confirmation of start of supply.
End-of-supply message	As soon as possible after receipt of request	The Distribution Company notifies the previous Gas Supplier of end of supply.
Submission of consumption data for a Non-Daily Read Metering Site.	Not later than 20 Business Days after the Appointed Date for Relocation.	The Distribution Company sends consumption data for a Non-Daily Read Metering Site to the previous Gas Supplier.

2.8.5 Data content for Relocation (incoming consumer) notified to the Gas Supplier

The significant data fields involved in the individual data flows are mentioned below. 'Significant data' are data crucial for the professional handling of the business scenario.

Notification of start of supply

- Metering Site id
- Start date of supply
- Supplier id
- Consumer party name and second consumer party name

Confirmation of start of supply - approval

- Metering Site id
- Start date of supply
- Supplier id

Confirmation of start of supply - rejection

- Metering Site id
- Reason for rejection

Submission of base data

- Transaction cause:
 - E01 Relocation
- Metering Site id
- Meter location address (coded address)
- Reading method used at Metering Site
- Physical status of Metering Site
- Validity start date
- Start date of supply
- Supplier id
- Date of reading
- Estimated annual consumption

Information about end of supply

- Metering Site id
- End date of supply

Information about non-daily read consumption

- Metering Site id
- Quantity time interval
- Product code
 - 3002: Total consumption in kWh_d
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (showing up to three decimals)
- Reason code for reading
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Value, manually corrected

2.8.6 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-209
BS name	Relocation (incoming consumer) notified to the Gas Supplier
BS version	3
BS release	0
BS date	1 June 2011
EDI transactions:	
BT ID	DK-BT-001
BT name	Start of supply
BT version	3
BT ID	DK-BT-004
BT name	Base Data for Metering Site
BT version	3
BT ID	DK-BT-002

BT name	End of supply – from MPA
BT version	3
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.9 BS-210: Disconnection and reconnection of a Metering Site

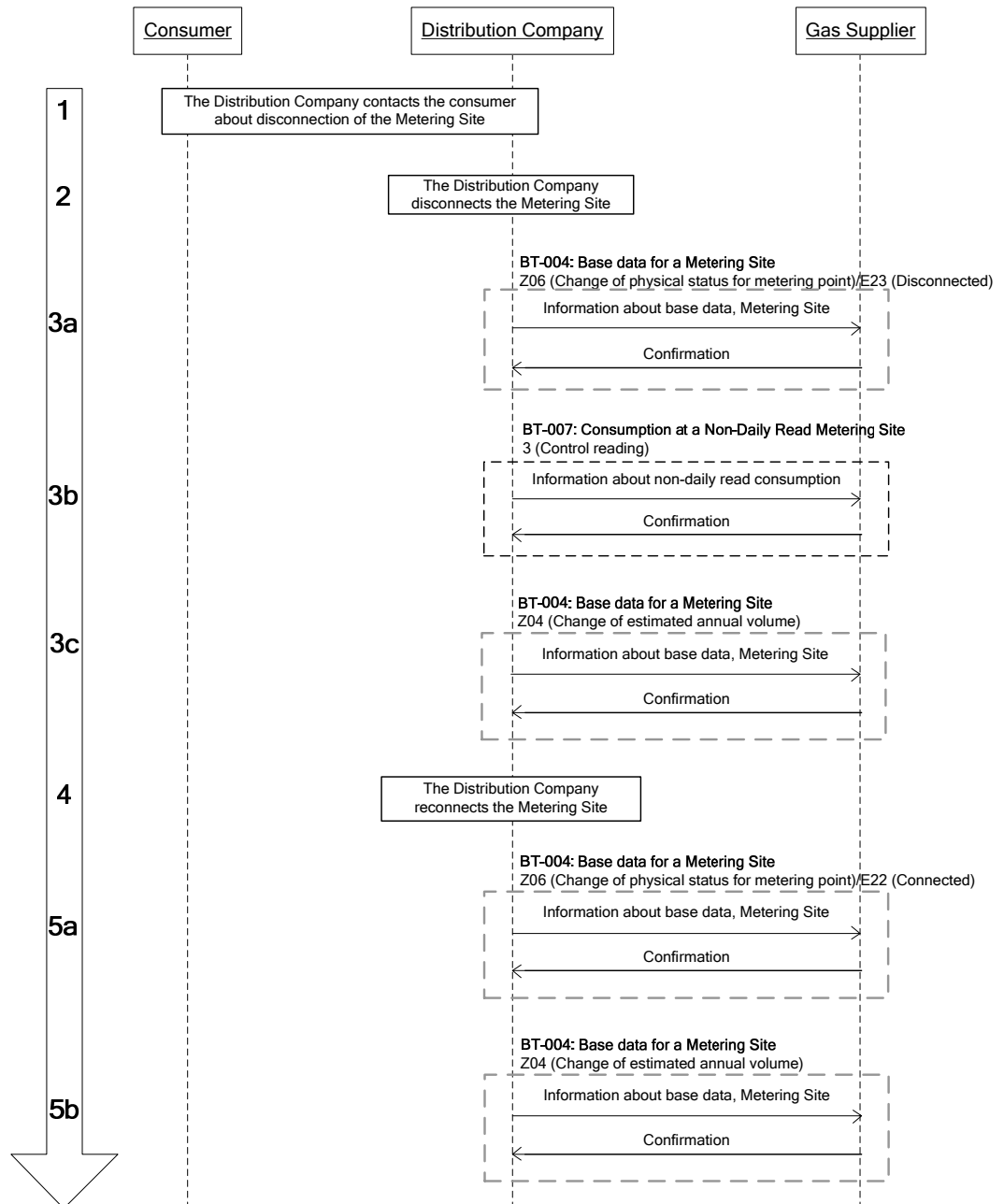


Figure 9: BS-210: Disconnection/reconnection of a Metering Site

2.9.1 General

This scenario applies to the situation where the Distribution Company disconnects and reconnects a Metering Site.

Note that if a change of supplier has been registered for the Metering Site, the Distribution Company must undertake all the steps of the scenario also in relation to the future Gas Supplier.

The closing down of a Metering Site is not implemented according to this scenario but is treated as a Relocation according to BS-207: Relocation (vacating consumer) notified to the .

Note that the scenario also applies if EDI communication is used between the Distribution Company and the Public Supply Obligation Company and if the Public Supply Obligation Company is the supplier when the Metering Site is disconnected, and a new Gas Supplier has not been registered before the reconnection. In those situations, the role of Gas Supplier will be replaced by the role of Public Supply Obligation Company. The Public Supply Obligation cannot refuse to start the supply of a reconnected Metering Site.

This business scenario consists of two transactions:

- Base data for a Metering Site
- Consumption at a Non-Daily Read Metering Site

2.9.2 Start condition for disconnection/reconnection of a Metering Site

The Distribution Company is aware that a given Metering Site is to be disconnected, eg due to non-payment.

2.9.3 Stages in the scenario 'Disconnection/reconnection of a Metering Site'

1. The Distribution Company contacts the consumer regarding the disconnection of the Metering Site.
2. The Distribution Company disconnects the Metering Site and takes a meter reading.
- 3a. The Distribution Company submits a base data message to the Gas Supplier stating transaction cause Z06 (Change of physical status of Metering Site) and indicating physical status E23 (disconnected).
- 3b. If, in the case of a Non-Daily Read Metering Site, the Distribution Company chooses to make use of a meter reading it has taken, the Distribution Company informs the Gas Supplier of the consumption metered up to the disconnection date stating reason code 3 (assessment on the basis of non-periodic reading) with a view to final settlement.
- 3c. If, when calculating the Market Share Value of the Gas Supplier, the Distribution Company adjusts the disconnected Metering Site's estimated annual con-

sumption, the Distribution Company submits a base data message to the Gas Supplier stating transaction cause Z04 and indicating the adjusted estimated annual consumption.

4. The Distribution Company reconnects the Metering Site.
- 5a. The Distribution Company sends a base data message to the Gas Supplier stating transaction cause Z06 (Change of physical status of Metering Site) and indicating physical status E22 (connected).
- 5b. If, pursuant to item 3c, the Distribution Company has adjusted the estimated annual consumption, it submits a base data message to the Gas Supplier stating transaction cause Z04 and indicating the adjusted estimated annual consumption.

2.9.4 Deadlines for disconnection/reconnection of a Metering Site

Process	Deadline	Explanation
Submission of base data	Not later than 1 Business Day after change of physical status	Forwarding of base data message to the Gas Supplier stating that the physical status of the Metering Site has been changed.
Submission of consumption data for a Non-Daily Read Metering Site	Not later than 5 Business Days after disconnection	The Distribution Company submits consumption data for a Non-Daily Read Metering Site to the Gas Supplier.

2.9.5 Data content for the scenario 'Disconnection/reconnection of a Metering Site'

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the business scenario.

Disconnection:

Information about base data, Metering Site - disconnection

- Transaction cause
 - Z06 Change of physical status of Metering Site
- Metering Site id
- Meter location address
- Reading method used at Metering Site
- Date of reading
- Physical status of Metering Site (E23)
- Validity start date (date of disconnection)
- Start date of supply
- Supplier id (particularly in the case of a future Gas Supplier)
- Estimated annual consumption
- Consumer party name and possible second consumer party name.

Information about non-daily read consumption

- Metering Site id
- Quantity time interval
- Product code
 - 3002: Total consumption in kWh_o
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (up to three decimals)
- Reason code for reading (3)
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Value, manually corrected

Information about base data, Metering Site (if annual consumption is zeroed)

- Transaction cause
 - Z04: Estimated annual consumption adjusted
- Metering Site id
- Meter location address
- Reading method used at Metering Site
- Date of reading
- Physical status of Metering Site
- Validity start date
- Start date of supply
- Supplier id (particularly in the case of a future Gas Supplier)
- Estimated annual consumption (=0)
- Consumer party name and possible second consumer party name.

Reconnection:

Information about base data, Metering Site

- Transaction cause
 - Z06: Change of physical status of Metering Site
- Metering Site id
- Meter location address
- Reading method used at Metering Site
- Date of reading
- Physical status of Metering Site (E22)
- Validity start date
- Start date of supply
- Supplier id (particularly in the case of a future Gas Supplier)
- Estimated annual consumption
- Consumer party name and second consumer party name, if any.

Information about base data, Metering Site (if annual consumption has been zeroed)

- Transaction cause
 - Z04: Estimated annual consumption adjusted
- Metering Site id
- Meter location address

- Reading method used at Metering Site
- Date of reading
- Physical status of Metering Site
- Validity start date
- Start date of supply
- Supplier id (particularly in the case of a future Gas Supplier)
- Estimated annual consumption
- Consumer party name and second consumer party name, if any.

2.9.6 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-210
BS name	Disconnection/reconnection of a Metering Site
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-004
BT name	Base data information for Metering Site
BT version	3
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.10BS-212: Change of meter-reading method

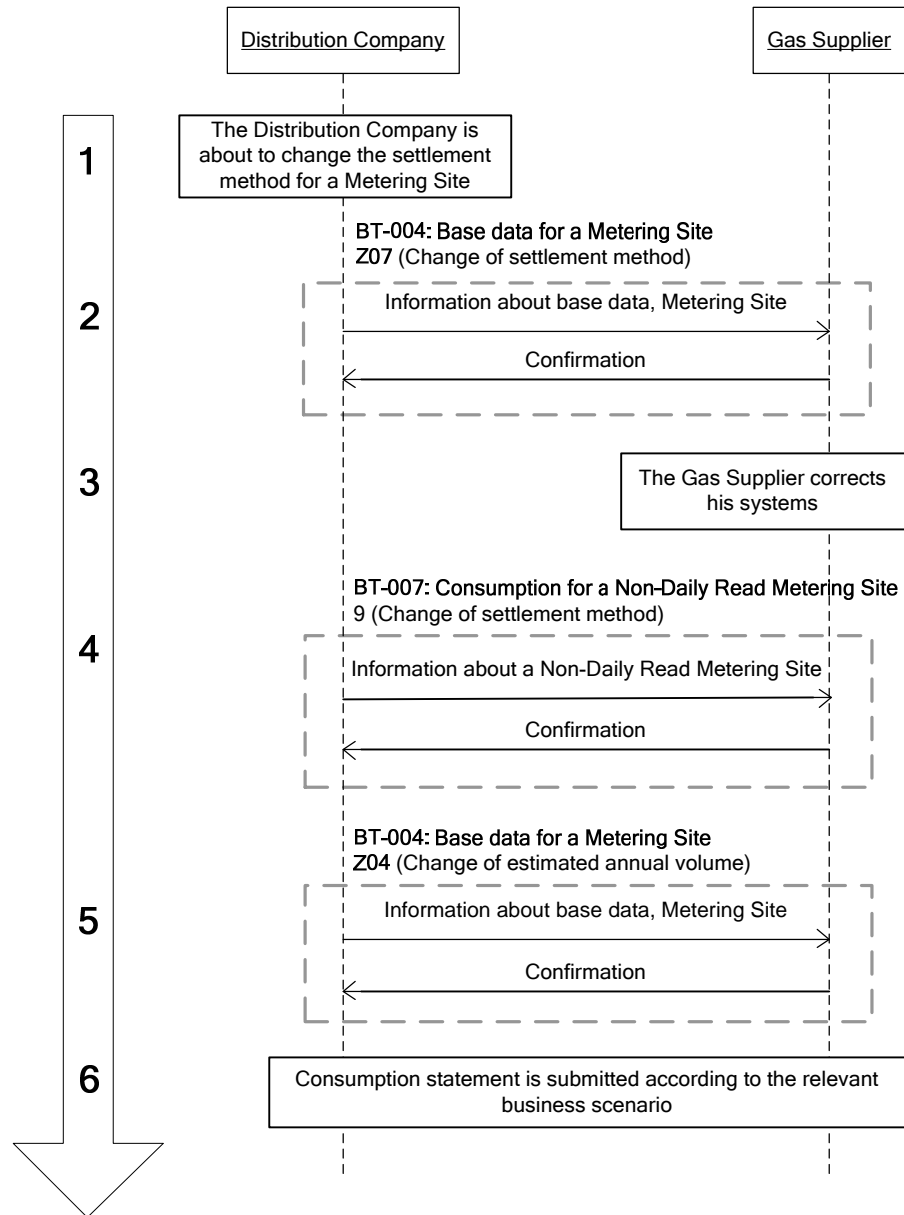


Figure 10: BS-212: Change of meter-reading method

2.10.1 General

The scenario concerns the switch between a Non Daily Read and a Daily Read Metering Site. If the meter-reading method is changed, the Gas Supplier must be informed in accordance with this business scenario. The meter-reading method may change for the following reasons:

Reason 1. Required by the Distribution Company, which changes the mandatory limit for daily reading.

Reason 2. The consumer's registered annual consumption exceeds/falls short of the mandatory limit for daily reading (based on a control reading, for example).

Reason 3. The consumer has requested daily/non-daily reading.

A change due to reasons 2 and 3 must be effected to the first day of a month, giving 2 months' notice to be communicated to the Gas Supplier through EDI communication in accordance with this business scenario.

This business scenario consists of two transactions:

- Base data for a Metering Site
- Consumption at a Non-Daily Read Metering Site

2.10.2 Start condition for change of meter-reading method

The Distribution Company is about to change the meter-reading method for a Metering Site, and the Gas Supplier must be informed accordingly through EDI communication.

2.10.3 Steps in the scenario 'Change of meter-reading method'

1. The Distribution Company is about to change the meter-reading method:
2. The Distribution Company submits a base data message stating transaction cause Z07 (change of meter-reading method) and including data corresponding to the new meter-reading method. The validity start date must be the date of the change of meter-reading method.

The message must be sent to the Gas Supplier supplying the Metering Site at the validity start date and to a potential future Gas Supplier for the Metering Site.

3. The Gas Supplier must prepare for a change of meter-reading method.
4. In the case of a shift from Non-Daily Read to Daily Read Metering Site, the consumption up to the time of the change is assessed in accordance with the Distribution Company's rules. The Distribution Company sends the Gas Supplier a final consumption statement stating reason code '9' (Change of meter-reading method).
5. If, in connection with a change of meter-reading method, the Distribution Company adjusts the estimated annual consumption, it must send a base data message stating transaction cause Z04 (Estimated annual consumption adjusted) and the code for updating of estimated annual consumption. The valid-

ity start date must be the date of change of meter-reading method. The message must be sent to the Gas Supplier supplying the Metering Site on the validity start date and to the future Gas Supplier, if any.

6. If a change has been made to daily reading, the consumption statements after the change must be submitted pursuant to *BS-206 Information about consumption at a Daily Read Metering Site*. In the case of a switch to non-daily read metering, future statements must be sent as described in *BS-205 Information about consumption at a Non-Daily Read Metering Site*.

2.10.4 Deadlines for change of meter-reading method

Process	Deadline	Explanation
Submission of base data	Not later than one Business Day after decision to change the meter-reading method	Submission to the Gas Supplier of base data stating a change of meter-reading method.
Submission of consumption data for a Non-Daily Read Metering Site	Not later than 20 Business Days after change of meter-reading method.	The Distribution Company submits consumption data for a Non-Daily Read Metering Site to the Gas Supplier.
Submission of base data (updating)	Not later than 1 Business Day after updating of base data	The Distribution Company submits updated base data to the Gas Supplier if these data have been changed.

2.10.5 Data content for change of meter-reading method

The significant data fields involved in the individual data flows are mentioned below. 'Significant data' are data crucial for the professional handling of the business scenario.

Information about base data, Metering Site

- Transaction cause
 - Z07: Change of meter-reading method
- Metering Site id
- Meter location address
- Reading method used at Metering Site
- Date of reading
- Physical status of Metering Site
- Validity start date (date of change of reading method)
- Start date of supply
- Supplier id (particularly in the case of a future Gas Supplier)
- Estimated annual consumption
- Consumer party name and possible second consumer party name.

Information about non-daily read consumption

- Metering Site id

- Quantity time interval (end date = date of change of meter-reading method)
- Product code
 - 3002: Total consumption in kWh_o
 - 3004: Total consumption in Nm³ (if conversion equipment available)
 - 3006: Total consumption in m³ (if conversion equipment NOT available)
- Quantity (showing up to three decimals)
- Reason code for reading (9)
- Quantity status
 - 99: Final value, estimated
 - 136: Final value, metered
 - Z01: Manually corrected value

Information about base data, Metering Site

- Transaction cause
 - Z04: Estimated annual consumption changed
- Metering Site id
- Meter location address
- Reading method used at Metering Site
- Date of reading
- Physical status of Metering Site
- Validity start date
- Start date of supply
- Supplier id (particularly in the case of a future Gas Supplier)
- Estimated annual consumption
- Consumer party name and possible second consumer party name.

2.10.6 Identification of scenario and transactions

The unambiguous denominations of the business scenario and the transactions involved are given in the table below.

BS ID	BS-212
BS name	Change of meter-reading method
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-004
BT name	Base data information for Metering Site
BT version	3
BT ID	DK-BT-007
BT name	Consumption for Metering Site, profiled
BT version	3

2.11 BS-213: Submission of market share values

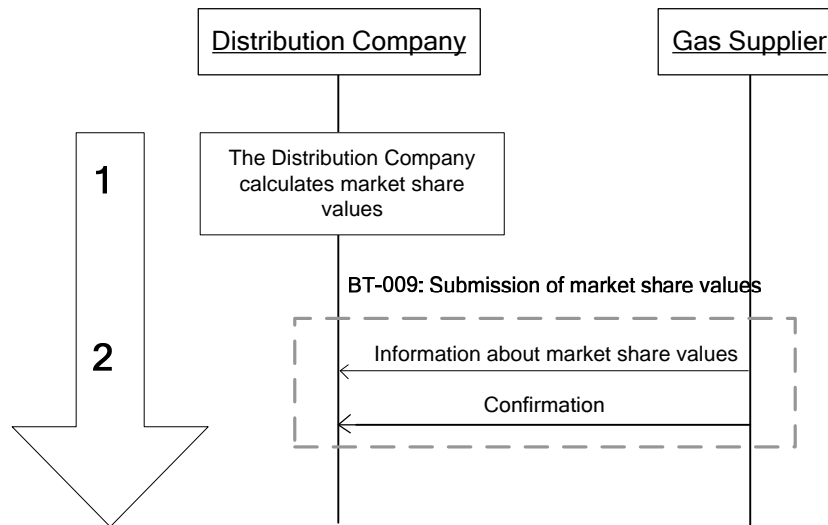


Figure 11: BS-213: Submission of Market Share Values

2.11.1 General

The Distribution Company sends market share values to the Gas Supplier every month. The market share values are made up of the estimated annual consumption of the Gas Supplier's non-daily read consumers and the estimated annual consumption of all non-daily read consumers in the distribution area.

This business scenario consists of one transaction:

- Submission of market share values

2.11.2 Start condition for submission of market share values

The scenario for submission of market share values starts with the Distribution Company calculating the market share values.

2.11.3 Steps in the scenario 'Submission of market share values'

1. The Distribution Company calculates the market share values applying to the 1st day of a month (as at the 1st gas day of the month).
2. The Distribution Company sends the calculated market share values to the Gas Supplier (BT-009).

2.11.4 Deadlines for submission of market share values

Process	Deadline	Explanation
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Submission of market share values	Not later than at 16:00 on the 1st Business Day after the change of month.	The Distribution Company sends market share values to the Gas Supplier.
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Table 5. Deadlines for submission of market share values

2.11.5 Data content for submission of market share values

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the business scenario.

Submission of market share values:

- Message function
 - 9
- Consumer portfolio number (GLN)
- Time period (one-year intervals)
- Product code
 - 3014: Market Share Value of the Gas Supplier in kWh₀ (estimated annual consumption of the Gas Supplier's non-daily read consumers)
 - 3013: Market share value of the distribution area in kWh₀ (estimated annual consumption of all non-daily read consumers in the distribution area)
- Quantity given as one value (up to three decimals)
- Quantity status
 - 31 Estimated annual consumption.

2.11.6 Identification of scenario and transactions

BS ID	BS-213
BS name	Submission of market share values
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-009
BT name	Reconciliation data transmission
BT version	3

2.12 BS-214: Submission of calorific values

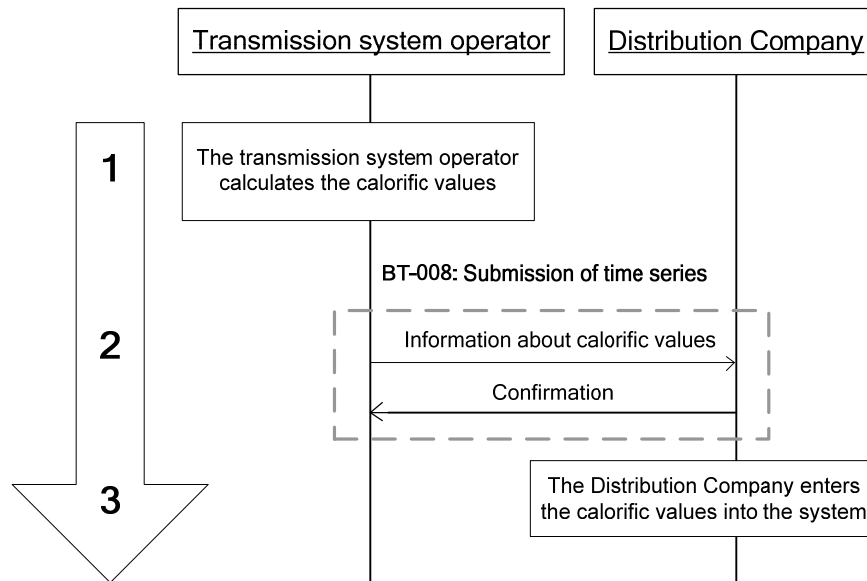


Figure 12: BS-214: Submission of calorific values

2.12.1 General

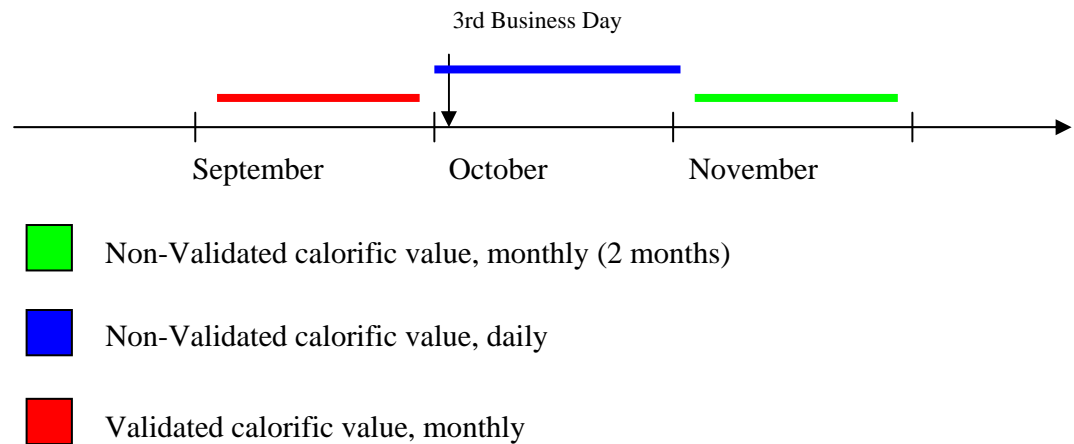
Every month, the transmission system operator assesses the Validated calorific value of the natural gas for each M/R station and submits it in the form of daily values and an average value for the entire past month to the Distribution Companies. The submission of calorific values takes place not later than at 16:00 on the third Business Day of every month.

The transmission system operator assesses the Non-Validated calorific value of the natural gas every day for each M/R station and submits it to the Distribution Companies in the form of Non-Validated daily values for the past gas day. The submission of daily calorific values takes place not later than 08:00.

The Distribution Companies use the average calorific values to:

- assess the Validated consumption for month x
- assess the Non-Validated consumption for month $x+2$ (alternatively, the Validated daily values are used).

The Distribution Companies' use of average calorific values is illustrated in the figure below:



The figure shows, for instance, that on the third Business Day of the month of October, the transmission system operator submits calorific values. These average calorific values are used to assess the Validated consumption for September and possibly also the Non-Validated consumption for November. Furthermore, the daily submission of Non-Validated consumption values is depicted by the blue line, which is an alternative to using the two-month old GCV for continuous data.

This business scenario consists of one transaction:

- Submission of time series

2.12.2 Start condition for submission of calorific values

At the end of the gas day, the transmission system operator assesses the Non-Validated calorific value of the natural gas for each M/R station.

At the end of the month, the transmission system operator assesses the Validated calorific value of the natural gas for each M/R station.

2.12.3 Steps in the scenario 'Submission of calorific values'

1. The transmission system operator calculates the calorific values.
2. The transmission system operator sends the calorific values to the Distribution Company.
 - a. The message contains daily values for the preceding day for each relevant M/R station in the distribution area.
 - b. The message contains daily values and an average value for the preceding month for each relevant M/R station in the distribution area.
3. The Distribution Company enters the calorific values into the system.

4. The Distribution Company acknowledges receipt.

2.12.4 Correction of calorific values submitted

If the transmission system operator detects a significant error in the Validated calorific value previously submitted, the transmission system operator contacts the relevant Distribution Company in order to mutually agree on a correction procedure.

Cancellation of the submitted Validated calorific values must be made manually by telephone.

2.12.5 Deadlines for submission of calorific values

Process	Deadline	Explanation
Submission of calorific values	Not later than at 16:00 on the 3rd Business Day of the following month.	The transmission system operator submits calorific values for the preceding month to the Distribution Company.
Submission of Non-Validated calorific values	Not later than at 08:00 on the following day.	The transmission system operator submits daily Non-Validated calorific values for the preceding day to the Distribution Company.

Table 6. Deadlines for submission of calorific values

2.12.6 Data content for submission of calorific values

The significant data fields involved in the individual data flows are listed below. 'Significant data' are data crucial for the professional handling of the business scenario.

Submission of calorific values

- Message function
 - 9
- M/R station id
- Product code
 - 3007: Calorific daily values in kWh_φ/ Nm³ (Validated daily calorific values for each M/R station)
 - 3008: Calorific monthly values in kWh_φ/ Nm³ (Validated monthly average consumption for each M/R station)
 - 3009: Calorific daily values in kWh_φ/ Nm³ (Non-Validated daily calorific values for each M/R station)
- Quantity time period (24-hour intervals and 1-month intervals)
- Quantity (up to three decimals)
- Quantity status
 - 136 Metered value

2.12.7 Identification of scenario and transactions

BS ID	BS-214
BS name	Submission of calorific values
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-008
BT name	Time series transmission
BT version	3

2.13 BS-216: Aggregated gas consumption

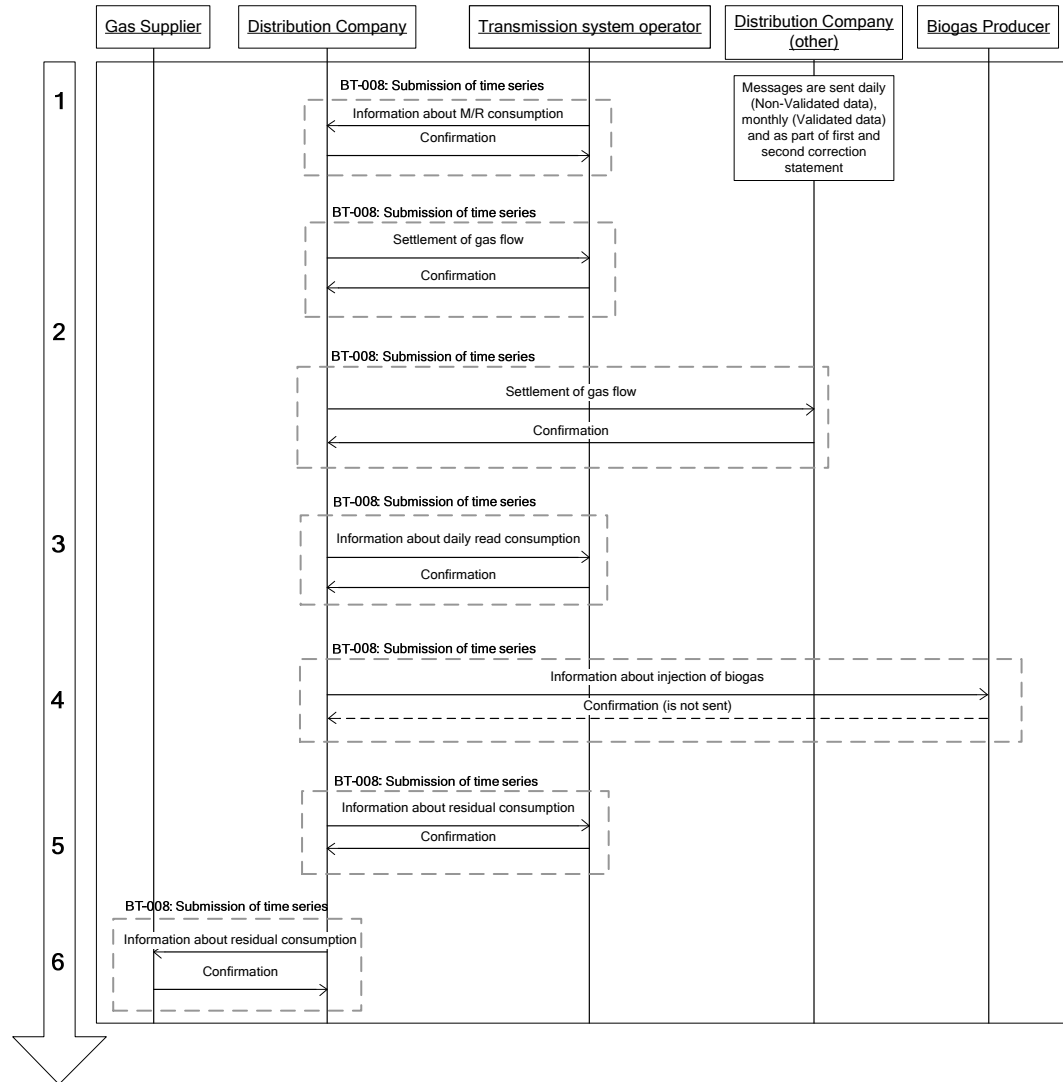


Figure 13: BS-216: Aggregated gas consumption

2.13.1 General

This business scenario concerns the assessment of aggregated gas consumption/production between the Distribution Companies, the biogas producers, the Gas Suppliers and the transmission system operator.

The messages can be divided into daily data exchange, monthly data exchange and correction statement. The daily data exchange consists of all the Non-Validated data for the preceding gas day whereas the corresponding monthly data exchange consists of Validated data for the preceding month. The first and second correction statements constitute a recalculation of the monthly data exchange.

This means, for instance, that data from January 2006 were sent in a first correction statement in May 2006 and in a second correction statement in April 2007.

This business scenario consists of one transaction:

- Submission of time series

Especially for bio natural gas producers there are no requirements for submitting confirmations. There are no requirements for replying with APERAK or CONTROL.

2.13.2 Start condition for submission of aggregated gas consumption data

The assessment of aggregated gas consumption is initiated by the transmission system operator measuring the injection at each M/R station.

2.13.3 Steps in the scenario 'Submission of aggregated gas consumption data'

1. The transmission system operator informs the Distribution Company of the injection at all M/R stations. The transmission system operator differentiates between the messages so that the individual Distribution Companies receive only injection data relating to M/R stations in their own distribution area.

The daily message contains Non-Validated values for the preceding gas day in kWh₀ for all M/R stations.

The monthly message contains the total Validated injection data for the preceding month for all M/R stations. The injection data are submitted as the month's hourly values for each M/R station.

In the first and second correction statements, the consumption (at the individual Metering Sites) is adjusted, and the monthly consumption values (relating to the consumer portfolios) are recalculated four and 15 months respectively after the month of consumption.

2. The Distribution Company, which acts as Transition Point administrator, meters and submits consumption values for Metering Sites measuring the data exchange with another area. The message is sent to the transmission system operator and the Distribution Company in the neighbouring area, if relevant.

The daily message contains Non-Validated values for the relevant Metering Site or M/R station.

The monthly message contains Validated values for the relevant Metering Site or M/R station.

In the first and second correction statements, the monthly values are recalculated four and 15 months respectively after the month of consumption.

3. The Distribution Company sends the aggregated, daily read consumption to the transmission system operator.

The daily message contains the daily read consumption for the preceding gas day. The consumption data are given in the form of a daily aggregated hourly value for each Gas Supplier's portfolio.

The monthly message contains the total daily read consumption for the preceding month. The consumption data are given as a daily aggregated hourly value for each gas day of the preceding month corresponding to each Gas Supplier's portfolio.

In the first and second correction statements, the monthly values are recalculated four and 15 months respectively after the month of consumption.

4. The Distribution Company, which is responsible for assessing the Bio Natural Gas injected into the distribution network, measures and communicates the quantities injected into the BNG Transition Points. The message is sent to the transmission system operator and the bio natural gas producer.

The daily message contains the Non-Validated injection values for the BNG Transition Point.

The monthly message contains Validated injection values for the BNG Transition Point.

In the first and second correction statements, the monthly values are recalculated four and 15 months respectively after the month of consumption.

5. The Distribution Company sends the distributed residual consumption data to the transmission system operator.

The distributed residual consumption is updated on an ongoing basis as a consequence of approved changes of supplier. Updating takes place by allocating the market share values for the relevant Metering Sites to the Gas Supplier taking over the supply. Updating may be performed from the time when a new Gas Supplier's cancellation deadline expires up until the Appointed Date, ie the third, second and first Business Day before the Appointed Date and on the actual Appointed Date.

The daily message contains the distributed residual consumption for the preceding gas day given as a daily aggregated value for each Gas Supplier's portfolio.

The monthly message contains the total distributed residual consumption for the preceding month. The consumption data are given as a daily aggregated value for each day of the preceding month corresponding to each Gas Supplier's portfolio.

In the first and second correction statements, the monthly values are recalculated four and 15 months respectively after the month of consumption.

6. The Distribution Company calculates the distributed residual consumption for the various Gas Suppliers and sends it to all the Gas Suppliers.

The distributed residual consumption is updated on an ongoing basis as a consequence of approved changes of supplier. Updating takes place by allocating the market share values for relevant Metering Sites to the Gas Supplier taking over the supply. Updating may be performed from the time when a new Gas Supplier's cancellation deadline expires up until the Appointed Date, ie the third, second and first Business Day before the Appointed Date and on the actual Appointed Date.

The daily message contains the preceding gas day's total distributed residual consumption for the various Gas Suppliers.

The monthly message contains the total distributed residual consumption for the previous month. The consumption is given as a daily aggregated value for the relevant Gas Supplier's portfolio for each day of the previous month.

In the first and second correction statements, the monthly values are recalculated four and 15 months respectively after the month of consumption.

2.13.4 Settlement of gas flow

As can be seen from the above scenario steps, the Distribution Company meters the consumption on a daily as well as a monthly basis and as part of the first and second correction statements. The Distribution Company sends the values to the transmission system operator and to the Distribution Company in the neighbouring area and to the bio natural gas producer, if relevant. This exchange of metered consumption and injection values is necessary if the equation: $M/R \text{ injection} = \text{daily read consumption} + \text{non-daily read consumption per distribution area}$ is to be valid.

The gas flow between two neighbouring distribution areas can either be positive or negative. One of the distribution areas owns the Metering Site or the M/R station at which the gas flow into the other distribution area is measured. The Metering Site

administrator must transmit the metered consumption values in kWh₀ to the Distribution Company in the other area. The message is always sent by the Metering Site administrator to the Distribution Company that has not metered the consumption.

As regards BNG Transition Points measuring the injection of Bio Natural Gas, the Metering Site administrator must also submit the injection values in kWh₀ to the transmission system operator and the bio natural gas producer.

If the natural gas has flowed from the Distribution Company acting as Metering Site administrator to the adjacent Distribution Company, the gas volume measured must be given a positive sign in the EDI message. In such case, the adjacent Distribution Company (which is the recipient of the EDI message) must add the gas volume to its total M/R injection, and the Distribution Company acting as Metering Site administrator must deduct the gas volume from its total M/R injection.

If the natural gas has flowed to the Distribution Company acting as Metering Site administrator from the adjacent Distribution Company, the gas volume measured must be given a negative sign in the EDI message. In this case, the adjacent Distribution Company (which is the recipient of the EDI message) must deduct the stated gas volume from its total M/R injection, and the Distribution Company acting as Metering Site administrator must add the gas volume to its total M/R injection.

In case of the injection of Bio Natural Gas, the gas volume calculated for the BNG Transition Point must be given a negative sign in the EDI message. The Distribution Company receiving and measuring the gas must add the gas volume to its total M/R injection.

A positive and negative gas flow must be indicated by a positive or negative sign respectively. If no sign is given in front of the value, the flow is regarded as positive.

2.13.5 Deadlines for submission of aggregated gas consumption data

Process	Deadline	Explanation
Submission of injection data for M/R stations	Not later than at 08:00 every day.	The transmission system operator sends injection data for M/R stations (daily).
	Not later than at 16:00 on the 3rd Business Day of the following month.	The transmission system operator send injection data for M/R stations, (monthly).

	<p>first correction statement: Not later than at 16:00 on the 7th Business Day of the 4th month following the month of consumption.</p> <p>Second correction statement: Not later than at 16:00 on the 7th Business Day of the 15th month following the month of consumption.</p>	The transmission system operator sends consumption data for M/R stations, first and second correction statements.
Settlement of gas flow	Not later than at 08:30 every day.	The Distribution Company sends consumption data for all Metering Sites, daily.
	Not later than at 16:00 on the 4th Business Day of the following month.	The Distribution Company sends consumption data for all Metering Sites, monthly.
	<p>First correction statement: Not later than at 16:00 on the 8th Business Day of the fourth month following the month of consumption.</p> <p>Second correction statement: Not later than at 16:00 on the 8th Business Day of the 15th month following the month of consumption.</p>	The Distribution Company sends consumption data for all Metering Sites, first and second correction statement.
Submission of daily read consumption data (to the transmission system operator)	Not later than at 11:00 every day.	The Distribution Company sends daily read consumption data to the transmission system operator (daily).
	Not later than at 16:00 on the 6th Business Day of the following month.	The Distribution Company sends daily read consumption data to the transmission system operator (monthly).
	<p>first correction statement: Not later than at 16:00 on the tenth Business Day of the 4th month following the month of consumption.</p> <p>Second correction statement: Not later than at 16:00 on the 10th Business Day of the 15th month following the month of consumption.</p>	The Distribution Company sends daily read consumption data, first and second correction statements.
Submission of injection values for Bio Natural Gas (to transmission system operator and bio natural gas producer)	Not later than at 11:00 every day.	The Distribution Company sends Non-Validated injection values for the BNG Transition Point (daily).
	Not later than at 16:00 on the 6th Business Day of the following month.	The Distribution Company sends Validated injection values for the BNG Transition Point (monthly)

	<p>First correction statement: Not later than at 16:00 on the 10th Business Day of the 4th month following the month of injection.</p> <p>Second correction statement: Not later than at 16:00 on the 10th Business Day of the 15th month following the month of injection.</p>	The Distribution Company sends injection data for the BNG Transition Point, first and second correction statements.
Submission of distributed residual consumption data (to transmission system operator)	Not later than at 11:00 every day.	The Distribution Company sends distributed residual consumption data to the transmission system operator (daily).
	Not later than at 16:00 on the 6th Business Day of the following month.	The Distribution Company sends distributed residual consumption data to the transmission system operator (monthly).
	<p>first correction statement: Not later than at 16:00 on the 10th Business Day of the 4th month following the month of consumption.</p> <p>Second correction statement: Not later than at 16:00 on the 10th Business Day of the 15th month following the month of consumption.</p>	The Distribution Company sends distributed residual consumption data to the transmission system operator, first and second correction statements.
Submission of distributed residual consumption data (to Gas Suppliers)	Not later than at 11:00 every day.	The Distribution Company sends distributed residual consumption data to the Gas Suppliers (daily).
	Not later than at 16:00 on the 6th Business Day of the following month.	The Distribution Company sends distributed residual consumption data to the Gas Suppliers (monthly).
	<p>first correction statement: Not later than at 16:00 on the 10th Business Day of the 4th month following the month of consumption.</p> <p>Second correction statement: Not later than at 16:00 on the 10th Business Day of the 15th month following the month of consumption.</p>	The Distribution Company sends distributed residual consumption data to the Gas Suppliers, first and second correction statements.

Table 7: Deadlines for submission of aggregated gas consumption

2.13.6 Data content for submission of aggregated gas consumption data

The significant data fields involved in the individual data flows are mentioned below. Significant data are data crucial for the professional handling of the business scenario.

Submission of injection data for M/R stations:

- Message function
 - 9
- M/R station id
- Quantity time period (one-hour intervals). The daily message contains 1x24 hourly values, while the monthly message contains 30x24 hourly values.
- Product code:
 - 3030/3031/3032/3033: Injection for each M/R station in kWh_g (Non-Validated consumption/Validated consumption/first correction/second correction)
- Quantity (up to three decimals)
- Quantity status
 - 136 Metered value

Settlement of gas flow (with positive or negative sign)

- Message function
 - 9
- Metering Site id or M/R station id
- Quantity time period (one-hour intervals). The daily message contains 1x24 hourly values, while the monthly message contains 30x24 hourly values.
- Product code:
 - 3060/3061/3062/3063: Injection for each Metering Site or M/R station in kWh_g (Non-Validated consumption/Validated consumption/first correction/second correction)
- Quantity (up to three decimals)
- Quantity status
 - 136 Metered value

Submission of daily read consumption data

- Message function
 - 9
- Consumer portfolio number (GSRN)
- Quantity time period (one-hour intervals). The daily message contains 1x24 aggregated hourly values, while the monthly message contains up to 30x24 aggregated hourly values, depending on how many days the consumer portfolio has been reported as being active.
- Product code:

- 3040/3041/3042/3043: Daily read consumption for each Gas Supplier's portfolio (aggregated) in kWh₀ (Non-Validated consumption/Validated consumption/first correction/second correction)
- Quantity (up to three decimals)
- Quantity status
 - 136 Metered value

Injection of Bio Natural Gas (with negative sign)

- Message function
 - 9
- Bio Natural Gas BNG Transition Point ID (GLN)
- Quantity time period (one-hour intervals). The daily message contains 1x24 aggregated hourly values, while the monthly message contains up to 30x24 aggregated hourly values, depending on how many days the BNG Transition Point has been reported as being active.
- Product code:
 - 3060/3061/3062/3063: Injection for each Gas Supplier's portfolio (aggregated)BNG Transition Point in kWh₀ (Non-Validated consumption/Validated consumption/first correction/second correction)
- Quantity (showing up to three decimals)
- Quantity status
 - 136 Metered value

Submission of distributed residual consumption data (to transmission system operator)

- Message function
 - 9
- Consumer portfolio number (GSRN)
- Quantity time period (24-hour intervals). The daily message contains 1x1 daily values, while the monthly message contains up to 30x1 daily values, depending on how many days the consumer portfolio has been reported as being active.
- Product code:
 - 3050/3051/3052/3053: Distributed residual consumption in kWh₀ (residual consumption (aggregated) for each Gas Supplier) (Non-Validated consumption/Validated consumption/first correction/second correction)
- Quantity (up to three decimals).
- Quantity status
 - 136 Metered value

Submission of distributed residual consumption data (to the Gas Suppliers)

- Message function

- 9
- Distribution area id
- Consumer portfolio no. (GSRN)
- Quantity time period (24-hour intervals). The daily message contains 1x1 daily values, while the monthly message contains 30x1 daily values.
- Product code
 - 3020/3021/3022/3023: Distributed residual consumption in kWh_g (for the various Gas Suppliers) (Non-Validated consumption/Validated consumption/first correction/second correction)
- Quantity (up to three decimals).
- Quantity status
 - 136 Metered value

2.13.7 Identification of scenario and transactions

BS ID	BS-216
BS name	Aggregated gas consumption
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-008
BT name	Time series transmission
BT version	3

2.14 BS-217: Reconciliation statement

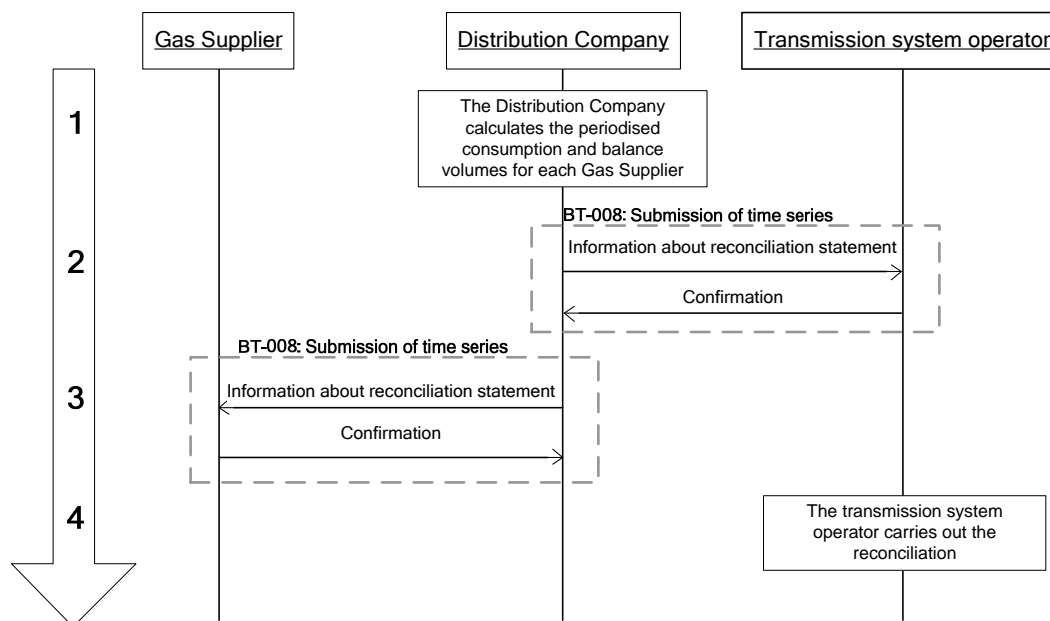


Figure 14: BS-217: Reconciliation statement

2.14.1 General

Once every month, the Distribution Company sends a reconciliation statement to the transmission system operator and the Gas Suppliers. The reconciliation statement is based on the consumption metered 15 months earlier.

This business scenario consists of one transaction:

- Submission of time series

2.14.2 Start condition for submission of reconciliation statement

Immediately after preparing the second correction statement, the Distribution Company computes the periodised consumption and balance volumes (difference between the second correction statement and the periodised consumption) for each Gas Supplier.

2.14.3 Steps in the scenario 'Submission of reconciliation statement'

1. The Distribution Company prepares a statement of the periodised consumption and the balance volumes for each Gas Supplier based on the consumption metered 15 months earlier.

2. The Distribution Company sends a reconciliation statement for each Gas Supplier to the transmission system operator based on the consumption metered 15 months earlier.
3. The Distribution Company sends to each Gas Supplier a reconciliation statement based on the consumption metered 15 months earlier.
4. The transmission system operator carries out the reconciliation.

2.14.4 Deadlines for submission of reconciliation statements

Process	Deadline	Explanation of process
Submission of reconciliation statement to transmission system operator.	Not later than on the 12th Business Day (immediately after the second correction statement) of the 15th month after the month of consumption.	The Distribution Company submits a reconciliation statement to transmission system operator.
Submission of reconciliation statement to Gas Supplier.	Not later than on the 12th Business Day (immediately after the second correction statement) of the 15th month after the month of consumption.	The Distribution Company submits a reconciliation statement to Gas Supplier.

Table 8: Deadlines for submission of reconciliation statements

2.14.5 Data content for submission of reconciliation statements

The significant data fields involved in the individual data flows are mentioned below. 'Significant data' are data crucial for the professional handling of the business scenario.

Reconciliation statement (to transmission system operator)

- Message function
 - 9
- Consumer portfolio number (GSRN)
- Quantity time period (one-month intervals)
- Product code
 - 3011: Reconciliation in kWh₀ (balance volume in relation to residual consumption for each Gas Supplier). One value with a positive or a negative sign.
 - 3012: Periodised consumption in kWh₀ (Periodised residual consumption for each Gas Supplier). One value.
- Quantity (up to three decimals)
- Quantity status
 - 136 Metered value

Reconciliation statement (to Gas Supplier)

- Message function
 - 9
- Consumer portfolio number (GSRN)
- Time period (one-month intervals)
- Product code
 - 3011: Reconciliation in kWh_o (balance volume in relation to residual consumption). One value with a positive or a negative sign.
 - 3012: Periodised consumption in kWh_o (periodised residual consumption). One value.
 - 3053: Distributed residual consumption in kWh_o (second correction)
- Quantity (up to three decimals)
- Quantity status
 - 136 Metered value

2.14.6 Identification of scenario and transactions

BS ID	BS-217
BS name	Reconciliation statement
BS version	3
BS release	0
BS date	12 August 2011
EDI transactions:	
BT ID	DK-BT-008
BT name	Time series transmission
BT version	3

3 Error handling

The section on *EDI communication (in Regulation F)* describes in detail how the parties should act in the event of errors in the EDI data exchange. Only the three most important principles are mentioned below:

1. The party (A) that has initiated the data exchange by sending the first EDI message to a recipient (B) is responsible for checking that a reply is received within the deadline. If this is not so, and A is certain that B has the correct communication setup, A must contact B in order to clarify the error.
2. If A receives a negative reply, the error must be corrected on the basis of the error report and a new message be submitted. If this is not possible, A must contact B in order to clarify the problem.
3. If B sends a positive reply but A's IT system detects an error in the reply so that an error message is sent to B, B must contact A in order to clarify the error. In this type of situation, B's systems must not automatically cancel the transaction.

4 Fallback procedures

All Distribution Companies in the Danish natural gas market must be able to electronically submit notifications of change of supplier. For situations where this is not possible due to IT system breakdown, a fallback procedure has been developed in the form of a paper form that can be faxed or exchanged by ordinary post between the players. In this way, situations are avoided where a Gas Supplier loses consumers because he is unable to submit the notification of change of supplier to the Distribution Company in time.

If an IT system used for changing supplier breaks down, the Distribution Company evaluates whether it is necessary to use fallback procedures.

If a Gas Supplier does not get a reply to an electronic message, he must check the status of the Distribution Company's system. If the status is offline, and the deadline for notification is about to expire, the Gas Supplier must submit the notification of change of supplier using the fallback procedure.

The Distribution Company may arrange with Gas Suppliers that have used the fallback procedures to resubmit the notifications when the Distribution Company's systems are online again.

The table below shows whether there is an fallback procedure for a given business scenario:

Business scenario	Fallback procedure
BS-201: Change of supplier	Yes
BS-202: End of supply	Yes
BS-203: Submission of base data	No
BS-205: Consumption statement for a Non-Daily Read Metering Site	No
BS-206: Consumption statement for a Daily Read Metering Site	Yes
BS-207: Relocation (vacating consumer) notified to the Distribution Company	Yes
BS-208: Relocation (incoming consumer) notified to the Distribution Company	Yes
BS-209: Relocation (incoming consumer) notified to the Gas Supplier	Yes
BS-210: Disconnection and reconnection of a Metering Site	Yes
BS-212: Change of meter reading method	Yes
BS-213: Submission of market share values	Yes
BS-214: Submission of calorific values	Yes
BS-216: Aggregated gas consumption	Yes
BS-217: Reconciliation statement	Yes

Note that some of the fallback procedures are based on a form intended for change of supplier. A copy of the form for Change of Gas Supplier/End of Supply is shown in section 4.1.

All the fallback procedures are based on submission of information by email, post or telefax. The appropriate addresses appear from the common register of players.

BS-201 and BS-202

The Gas Supplier's notification is delivered by email, post or telefax. The Distribution Company returns a copy of the form indicating approval or rejection.

BS-207, BS-208, BS-210 and BS-212

The Distribution Company sends notifications by email, post or telefax. The recipient must acknowledge receipt by replying to the return address.

BS-209

The Gas Supplier sends notifications by email, post or telefax. The Distribution Company replies indicating approval or rejection.

BS-206 and BS-213-BS-217

Reference is made to the fallback report giving detailed information about the fallback procedures applying to these business scenarios.

The deadlines for the individual fallback procedures are the same as the standard deadlines indicated under the above-mentioned business scenarios (section 2).

4.2 Instructions

The form is to be completed by the Gas Supplier and sent by letter to the Distribution Company servicing the Metering Sites involved. A form is to be completed for each Appointed Date, and it should be indicated by ticking the appropriate box whether the notification concerns a normal change of supplier in connection with the signing of an agreement, an immediate change of supplier (at short notice) or notification of end of supply. The Gas Supplier is not allowed to fill in the grey fields.

The deadlines for notification of change of supplier (as fallback procedure) are the same as the deadlines for notification of change of supplier through EDI communication as defined in BS-201 (section 2.1.5).

Once the Distribution Company has received the form, the intention is that it be used as typing basis in relation to change of supplier or end of supply. The result for each Metering Site is written direct in the form. If a change of supplier or end of supply is not approved, the reason for the rejection must be indicated in the box marked "Comment".

The Distribution Company returns a signed copy of the form as confirmation not later than on the fifth Business Day after receipt of the form. This should be done by telefax if the Gas Supplier has indicated a fax number. If not, the confirmation is sent by letter, and the Distribution Company carries no responsibility for the postal delivery time.

The Gas Supplier may create his own layout for the form provided that it contains the same fields arranged in the same order. The Gas Supplier may find it relevant to have his own layout if the form is printed by his own IT system. A layout resulting in a form of more than one page is acceptable as long as the number of the page and the total number of pages are indicated on each page.

5 Approval of EDI systems

To participate in EDI communication, the IT systems of the individual players must be approved for error-free exchange of the EDI messages mentioned in this guide.

In connection with the implementation, the elements of the approval process will be laid down in detail, including a specification of how the various system levels (email systems, EDI modules, customer and metering applications, and business scenarios) are to be tested.

The players' systems must be approved by Energinet.dk.