

# Appendix Test transactions TenneT Testfacility 2007

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# Inhoud

Appendix: Test Transactions	6
1. Balance Responsible Party (Trade Only)	6
1.1 Auction: Cross border capacity for PRC	6
1.2 Plan: Schedules DELFOR-E and DELFOR-V for BRP	6
2. Balance Responsible Party	7
2.1 Auction: Cross border capacity	7
2.2 Structure: Change Balance/Transport Capacity Responsible Party	7
2.3 Structure: Change of Supplier	7
2.4 Structure: Distribute Master Data Metering Point	8
2.5 Measure: MSCONS-ONB	9
2.6 Measure: MSCONS – MW	9
2.7 Measure: MSCONS-MCF	10
2.8 Settle: Reconciliation	11
2.9 Measure: Request for Meter Data	15
2.10 Bill: Sales Report	15
2.11 Plan: Schedules DELFOR-E and DELFOR-V	15
2.12 Plan: Schedules Delfor TC	16
2.13 Plan: Schedules Delfor T	16
3. Transport Capacity Responsible Party (shipper)	17
3.1 Structure: Change of Supplier	17
3.2 Structure: Distribute Master Data Metering Point	17
3.3 Structure: Change Balance/Transport Capacity Responsible Party	18
4. Balance Supplier	19
4.1 Structure: Change Balance/Transport Capacity Responsible Party	19
4.2 Structure: Change of Supplier	19
4.3 Structure: Distribute Master Data Metering Point	20
4.4 Structure: Move Out	22
4.5 Settle: Reconciliation	22
4.6 Plan: Regulating and Reserve Power	24
5. Balance Supplier (Gas)	25
5.1 Structure: Change Balance/Transport Capacity Responsible Party	25
5.2 Structure: Change of Supplier	25
5.3 Structure: Distribute Master Data Metering Point	26
5.4 Structure: Move Out	27
6. Certifying Party (CertiQ)	28
6.1 Measure: MSCONS Green Certificate	28
7. Meetverantwoordelijke	29
7.1 Structure: Change of Metered Data Responsible for MDR	29
7.2 Measure: Determine Switch Stand for MA	29

7.3	Structure: Distribute Master Data Meter for MA	30
7.4	Structure: Distribute Master Data Metering Point for MDR	30
7.5	Structure: End of Metering for MDR	31
7.6	Measure: Exchange validated metered data for billing, stands for MDR	32
7.7	Measure: Exchange Validated Metered Data for Balance Management for MDR	32
8.	Meetverantwoordelijke(Gas)	34
8.1	Structure: Change of Metered Data Responsible for MDR (Gas)	34
8.2	Measure: Determine Switch Stand for MA (Gas)	35
8.3	Structure: Distribute Master Data Meter for MA (Gas)	35
8.4	Structure: Distribute Master Data Metering Point for MDR (Gas)	36
8.5	Structure: End of Metering for MDR (Gas)	37
8.6	Measure: Exchange validated metered data for billing, stands for MDR (Gas)	37
8.7	Measure: Exchange Validated Metered Data for Balance Management for MDR	38
9.	Netbeheerder	39
9.1	Auction: Cross border capacity for GAP	39
9.2	Structure: Change Balance/Transport Capacity Responsible Party for MPA	39
9.3	Structure: Change of Metered Data Responsible for MPA	40
9.4	Structure: Change of Supplier for MPA	40
9.5	Structure: Distribute Master Data Meter for GAP	42
9.6	Structure: Distribute Master Data Metering Point	42
9.7	Measure: Determine Switch Stand for GAP	43
9.8	Structure: End of Metering for MPA	44
9.9	Measure: Exchange validated metered data for billing, stands for GAP	44
9.10	Measure: Exchange Validated Metered Data for Balance Management for MDA	45
9.11	Plan: Delfor T for GRP	46
9.12	Plan: Delfor TC for GRP	47
9.13	Move Out for MPA	47
9.14	Measure: MSCONS Green Certificate for REG	47
9.15	Measure: MSCONS – MW for REG	48
9.16	Measure: MSCONS-MCF for REG	49
9.17	Settle: Reconciliation for MDA	49
9.18	Measure: Request for Meter Data for MDA	52
9.19	Settlement for MDA	52
10.	Netbeheerder (Gas)	55
10.1	Structure: Change Balance/Transport Capacity Responsible Party for MPA (Gas)	55
10.2	Structure: Change of Metered Data Responsible for MPA	55
10.3	Structure: Change of Supplier for MPA	56
10.4	Structure: Distribute Master Data Meter for GAP (Gas)	57
10.5	Structure: Distribute Master Data Metering Point for MPA (Gas)	58
10.6	Measure: Determine Switch Stand for GAP	59
10.7	Structure: End of Metering for MPA (Gas)	59
10.8	Measure: Exchange validated metered data for billing, stands for GAP (Gas)	60

10.9	Measure: Exchange Validated Metered Data for Balance Management for MDA (Gas)	60
10.10	Move Out for MPA (Gas)	62
11.	System Operator	63
11.1	Plan: Schedules DELFOR-E and DELFOR-V	63
11.2	Measure: MSCONS – MW	64
11.3	Measure: MSCONS-ONB	64
11.4	Measure: MSCONS-MCF	64
11.5	Settle: Reconciliation for RRP	65
11.6	Regulating and Reserve Power	69
11.7	Bill: Sales Reports	69
11.8	Settlement for SRP	70

## Version Management

Version	Datum	Commentary
2.0	01/04/2006	Initial version
2.1	15/04/2006	Textual adaptations
2.2	01/05/2006	DELFOR & MSCONS Added
2.3	04/05/2006	Textual adaptations
2.4	04/07/2006	Settlement & Reconciliation Added
2.5	15/08/2006	Textual adaptations
2.6	29/12/2006	Separate Manual English/Dutch version
2.7	01/05/2007	Separate Manual Annex Test transactions

# Introduction

This is the Annex of the Test transactions TenneT Test Facility. In this manual you will find the intention of the test cases. You will find a description how to use the TenneT Test Facility step by step. This Annex is very useful during the process of certification. Every new release this manual will be updated so you will find here the most recent information.

This Annex will describe all processes in separate chapters. Every Test transactions will be explained to you by describing every part of the Test transactions.

TenneT hopes to be at your service with this Annex and to make the TenneT Test Facility more easy to use.

We wish you all the best to certify yourself.

Het Edine Kenniscentrum Team

## Appendix: Test Transactions

### 1. Balance Responsible Party (Trade Only)

#### 1.1 Auction: Cross border capacity for PRC

##### Message Test transactions

Test transaction	Purpose
S10.07.B001.0	PRC sends a daily QUOTES TC message
S10.07.B002.0	PRC sends a monthly QUOTES TC message
S10.07.B003.0	PRC sends a yearly QUOTES TC message
S10.07.B004.0	PRC sends a daily QUOTES TC message with period over change from summer to wintertime
S10.07.B005.0	PRC sends a daily QUOTES TC message with period over change from winter to summertime
S10.07.B006.0	PRC sends a daily QUOTES TC message with a price of 100 EURO/MW specified for all PTE's

#### 1.2 Plan: Schedules DELFOR-E and DELFOR-V for BRP

##### Process Test transactions

Test transaction	Purpose
S14.07.P001.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P002.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day, with one Contract party having energy imported from Germany.
S14.07.P003.0	BRP sends a DELFOR-E program for 4 domestic Contract party's, with two Contract parties having energy imported from Belgium and exported to Germany.
S14.07.P004.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day. This day is the transition from Winter- to Summertime.
S14.07.P005.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day. This day is the transition from Summer- to Wintertime.
S14.07.P006.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day, with one Contract party having energy imported from Germany.
S14.07.P007.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P008.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P009.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P010.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.

## 2. Balance Responsible Party

### 2.1 Auction: Cross border capacity

#### Message Test transactions

Test transaction	Purpose
S10.07.B001.0	PRC sends a daily QUOTES TC message
S10.07.B002.0	PRC sends a monthly QUOTES TC message
S10.07.B003.0	PRC sends a yearly QUOTES TC message
S10.07.B004.0	PRC sends a daily QUOTES TC message with period over change from summer to wintertime
S10.07.B005.0	PRC sends a daily QUOTES TC message with period over change from winter to summertime
S10.07.B006.0	PRC sends a daily QUOTES TC message with a price of 100 EURO/MW specified for all PTE's

### 2.2 Structure: Change Balance/Transport Capacity Responsible Party

#### Message Test transactions

Test transaction	Purpose
T08.07.B001.0	MPA sends a message to new BRP with a UTILMD E44, 23, E56 with a contract start date
T08.07.B002.0	MPA sends a message to new BRP with a UTILMD E44, 23, E56 without a contract start date and without a contract end date
T08.07.B003.0	MPA sends a message to new BRP with a UTILMD E44, 23, E56 with both a contract start date and contract end date
T08.07.B005.0	MPA sends a message to new BRP with a UTILMD E44, 23, E56 with an invalid role (DDM instead of DDK)
T08.08.B001.0	MPA sends a message to old BRP with a UTILMD E44, 23, E56 with a contract end date

### 2.3 Structure: Change of Supplier

#### Message Test transactions

Test transaction	Purpose
T12.07.B001.0	MPA sends a E09, 23, E03 start of contract message with reason supplier change.
T12.07.B002.0	MPA sends a E09, 23, E03 start of contract message with reason supplier change, where message time is wintertime and start of contract is summertime.
T12.07.B003.0	MPA sends a E09, 23, E03 start of contract message with reason supplier change and start of contract date 3 months before current date.

T12.08.B001.0	MPA sends a E09, 23, E03 end of contract message with reason supplier change.
T12.08.B002.0	MPA sends a E09, 23, E03 end of contract message with reason supplier change, where message date is summertime and end of contract in wintertime.
T12.08.B003.0	MPA sends a E09, 23, E03 end of contract with reason supplier change and unknown reason description code (E04).
T12.08.B004.0	MPA sends a E09, 23, E03 end of contract message with reason supplier change and end of contract date 3 months before current date.

## 2.4 Structure: Distribute Master Data Metering Point

### Process Test transactions

Test transaction	Purpose
S06.07.P001.0	BRP sends a request with UTILMD E10, 23, E32
S06.07.P002.0	BRP sends a request with UTILMD E10, 23, E48

### Message Test transactions

Test transaction	Purpose
T06.07.B001.0	MPA sends a message with a UTILMD E07, 23, E32 for a single tariff Meter without an Estimated Estimated Periodic Consumption Value
T06.07.B002.0	MPA sends a message with a UTILMD E07, 23, E32 for a single tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity
T06.07.B004.0	MPA sends a message with a UTILMD E07, 23, E32 for a double tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity
T06.07.B005.0	MPA sends a message with a UTILMD E07, 23, E32 without a Location (SG-4 LOC)
T06.07.B006.0	MPA sends a message with a UTILMD E07, 23, with ReasonForTransaction_Code E22 instead of E32
T06.07.B007.0	MPA sends a message with a UTILMD E07, 23, E32 with an invalid ProductID (0-0-0-0-0-0)
T06.07.B009.0	MPA sends a message with a UTILMD E07, 23, E32 with a Product Code for Natural Gas (5410000100016)
T06.07.B010.0	MPA sends a message with a UTILMD E07, 23, E32 with Pressure Code E16 instead of E10 or E11 (Pressure was MeterTimeFrame_Code)
T06.07.B011.0	MPA sends a message with a UTILMD E07, 23, E32 with the fields of the MP_Address (cityName, postCode, street) filled in the Party_ID of the MDR
T06.07.B012.0	MPA sends a message with a UTILMD E07, 23, E32 with gas profile G2A
T06.07.B013.0	MPA sends a message with a UTILMD E07, 23, E32 where Settlement Method is Non-Profiled (E02) but the Profile is given 2A
T06.07.B014.0	MPA sends a message with a UTILMD E07, 23, E32 with a Measurement Unit Qualifier MTQ (Cubic Meter) instead of KWH
T06.07.B015.0	MPA sends a message with a UTILMD E07, 23, E32 with

	TransportCapacityQuantity Z01 instead of 123
T06.07.B016.0	MPA sends a message with a UTILMD E07, 23, E32 without a NextSchedulingInvoiceDate
T06.07.B017.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .Where no Market Parties are indicated in the class MP_Party
T06.07.B018.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with only Estimated Periodic Consumption. Therefore Connection service is lacking
T06.07.B019.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity . PhysicalOrAdministrativeStatus_Code is E24.
T06.07.B020.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .TypeOfMeteringPointCode is E20.

## 2.5 Measure: MSCONS-ONB

### Message Test transactions(Full Version)

Test transaction	Purpose
T18.07.B001.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party.
T18.07.B002.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party. And the DP EAN code differs from the NAD-5 code.
T18.07.B003.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party, with a correction for imbalance.
T18.07.B004.0	SO sends a detailed MSCONS-ONB to the PRC of the previous day for one Delivery Party.
T18.07.B005.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party. And the control value is higher than the summation of the individual periods.
T18.07.B006.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party. The activity period date range is set to 5 minutes while the periods stay 15 minutes.
T18.07.B007.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party. And the first QTY segment is missing.

## 2.6 Measure: MSCONS – MW

### Message Test transactions (Full Version)

Test transaction	Purpose
T17.07.B001.0	REG sends a MSCONS MW message to the DP for one Grid Connection Point of the previous day with a period of 15 minutes.
T17.07.B002.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes.
T17.07.B003.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the

	previous day with a period of 15 minutes. The first Grid Connection Point feeds in and delivers in different amounts.
T17.07.B004.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. The QTY-segment of the first period is missing.
T17.07.B005.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. One Grid Connection Point communicates quantities with a period of 5 minutes
T17.07.B006.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. The segment of the Section Separator is missing (UNS + D).

### Message Test transactions (Light Version)

Test transaction	Purpose
T17.07.B007.0	REG sends a MSCONS MW message to the DP for one Grid Connection Point of the previous day with a period of 15 minutes.
T17.07.B008.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes.
T17.07.B009.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. The first Grid Connection Point feeds in and delivers in different amounts.
T17.07.B010.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. The QTY-segment of the first period is missing.
T17.07.B011.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 5 minutes. In total $12 \times 24 = 288$ QTY segments are sent.
T17.07.B012.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. The segment of the Section Separator is missing (UNS + D).

## 2.7 Measure: MSCONS-MCF

### Message Test transactions (Light Version)

Test transaction	Purpose
T19.07.B001.0	REG sends a MSCONS-MCF to the PRC of one time serie for one Metering Grid Area.
T19.07.B002.0	REG sends a MSCONS-MCF to the PRC of two time series for one Metering Grid Area.
T19.07.B003.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas.
T19.07.B004.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas. The correction factor is specified in four decimals.

T19.07.B005.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas. And the complete QTY segment is missing.
T19.07.B006.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas. And one time serie is not completed.

## 2.8 Settle: Reconciliation

### Process Tests transactions

Test transaction	Purpose
S22.07.P001.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> Every Metering Grid Area contains: <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul> One Metering Grid Area will be seen as unknown.
T22.07.P001.0	MDA sends a E24 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>2 Metering Grid Areas</li> </ul> Every Metering Grid Area contains: <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Different Balance Suppliers</li> <li>1 Balance Supplier per MGA.</li> <li>Netloss</li> </ul>
T22.07.P002.0	MDA sends a E24 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>2 Metering Grid Areas</li> </ul> Every Metering Grid Area contains: <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Different Balance Suppliers</li> <li>1 Balance Supplier per MGA.</li> <li>Netloss</li> </ul>
T22.07.P003.0	MDA sends a E24 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>2 Metering Grid Areas</li> </ul> Every Metering Grid Area contains: <ul style="list-style-type: none"> <li>Normal Tariff</li> <li>Different Balance Suppliers</li> <li>1 Balance Supplier per MGA.</li> <li>Netloss</li> </ul>

T22.07.P004.0	<p>MDA sends a E24 message</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Every Metering Grid Area contains:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>
T22.07.P005.0	<p>MDA sends a E24 message</p> <ul style="list-style-type: none"> <li>• For the last 18 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Every Metering Grid Area contains:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>
T22.07.P006.0	<p>RRP sends a E26 message containing:</p> <ul style="list-style-type: none"> <li>• The last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and low</li> </ul>
T22.07.P007.0	<p>RRP sends a E26 message containing:</p> <ul style="list-style-type: none"> <li>• The last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and low</li> </ul>
T22.07.P008.0	<p>RRP sends a E26 message containing:</p> <ul style="list-style-type: none"> <li>• The last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> </ul>
T22.07.P009.0	<p>RRP sends a E26 message containing:</p> <ul style="list-style-type: none"> <li>• The last 14 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and low</li> </ul>
T22.07.P010.0	<p>RRP sends a E26 message containing:</p> <ul style="list-style-type: none"> <li>• The last 18 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <p>Energy High and low</p>

### Message Tests transactions

Test transaction	Purpose
T22.07.B001.0	<p>MDA sends a E24 message</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>
T22.07.B002.0	<p>MDA sends a E24 message</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>
T22.07.B003.0	<p>MDA sends a E24 message</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>
T22.07.B004.0	<p>MDA sends a E24 message</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>

T22.07.B005.0	<p>MDA sends a E24 message</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>
T22.07.B006.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 6 Metering Grid Areas</li> </ul> <p>Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul>
T22.07.B007.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> </ul>
T22.07.B008.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul>
T22.07.B009.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul>
T22.07.B010.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul>

## 2.9 Measure: Request for Meter Data

### Process Test transactions

Test transaction	Purpose
S23.07.P001.0 (optional)	BRP sends a UTILTS E74, E87, 9 for 1 MP with 1 Day of Observation and where the Metering Point is unknown.

### Message Test transactions

Test transaction	Purpose
S23.07.B002.0 (optional)	BRP sends a UTILTS E74, E87, 9 for 1 MP with 1 Day of Observation and where the Start Period of the Observation is in Wintertime and the End Period in Summertime.

## 2.10 Bill: Sales Report

### Message Test transactions

Test transaction	Purpose
T09.07.B001.0	SO sends a correct SLSRPT message positive imbalance
T09.07.B002.0	SO sends a correct SLSRPT message negative imbalance
T09.07.B003.0	SO sends a correct SLSRPT message transfer capacity
T09.07.B004.0	SO sends a correct SLSRPT message RRV 'opregelen'
T09.07.B005.0	SO sends a correct SLSRPT message RRV 'afregelen'
T09.07.B006.0	SO sends a SLSRPT message negative imbalance period of price information doesn't match number of periods
T09.07.B007.0	SO sends a SLSRPT message RRV 'opregelen' with price in Euro specified in Megawatt
T09.07.B008.0	SO sends a correct SLSRPT message positive imbalance, message date is day of change from summer to wintertime.
T09.07.B009.0	SO sends a correct SLSRPT message positive imbalance, prices specified in 3 decimals
T09.07.B010.0	SO sends a SLSRPT message positive imbalance, prices specified in 6 decimals
T09.07.B011.0	SO sends a SLSRPT message transfer capacity without Price Area
T09.07.B013.0	SO sends a correct SLSRPT message negative imbalance, buyer twice, no seller

## 2.11 Plan: Schedules DELFOR-E and DELFOR-V

### Process Test transactions

Test transaction	Purpose
S14.07.P001.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P002.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day, with

	one Contract party having energy imported from Germany.
S14.07.P003.0	BRP sends a DELFOR-E program for 4 domestic Contract party's, with two Contract parties having energy imported from Belgium and exported to Germany.
S14.07.P004.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day. This day is the transition from Winter- to Summertime.
S14.07.P005.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day. This day is the transition from Summer- to Wintertime.
S14.07.P006.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day, with one Contract party having energy imported from Germany.
S14.07.P007.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P008.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P009.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.
S14.07.P010.0	BRP sends a DELFOR-E program for 4 domestic Contract parties for one day.

## 2.12 Plan: Schedules Delfor TC

### Message Test transactions

Test transaction	Purpose
T16.07.B001.0	GRP sends a daily Delfor-TC, with 4 sink and 4 source locations (8 LIN segments)
T16.07.B002.0	GRP sends a daily Delfor-TC, with 4 sink and 4 source locations, with in feed during all periods at 1 location (4 LIN segments)
T16.07.B003.0	GRP sends a daily Delfor-TC, with 4 sink and 4 source locations, with consumption during all periods at 1 location (4 LIN segments)
T16.07.B004.0	GRP sends a monthly Delfor-TC, with 4 sink and 4 source locations (8 LIN segments)
T16.07.B005.0	GRP sends an annual Delfor-TC, with 4 sink and 4 source locations (8 LIN segments)

## 2.13 Plan: Schedules Delfor T

### Message Test transactions

Test transaction	Purpose
S15.07.B001.0	GRU sends a DELFOR-T program with the transport estimate for one Grid Connection Point.
S15.07.B002.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point.
S15.07.B003.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, in which all three Grid Connection Points supply to as well as take from the Grid.
S15.07.B004.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, for the day of the transition for the Winter- to Summertime.
S15.07.B005.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, for the day of the transition for the Summer- to Wintertime.

## 3. Transport Capacity Responsible Party (shipper)

### 3.1 Structure: Change of Supplier

#### Process Test transactions

Test transaction	Purpose
S06.59.P001.0	TCR sends a request with UTILMD E10, 27, E32
S06.59.P002.0	TCR sends a request with UTILMD E10, 27, E48

#### Message Test transactions

Test transaction	Purpose
T12.59.B001.0	MPA sends a E36, 27, E03 end of contract message with reason supplier change.
T12.59.B002.0	MPA sends a E36, 27, E03 start of contract message with reason supplier change
T12.59.B003.0	MPA sends a E36, 27, E03 start of contract message with reason supplier change where message date is in wintertime and start of contract is in summertime.
T12.59.B004.0	MPA sends a E36, 27, E03 end of contract message with reason supplier change where message date is in summertime and end of contract is in wintertime.
T12.59.B005.0	MPA sends a E36, 27, E03 end of contract message with reason supplier change and unknown reason description code E04.
T12.59.B006.0	MPA sends a E36, 27, E03 start of contract message with reason supplier change and start of contract date 3 months before current date.
T12.59.B007.0	MPA sends a E36, 27, E03 end of contract message with reason supplier change and end of contract date 3 months before current date.

### 3.2 Structure: Distribute Master Data Metering Point

#### Message Test transactions

Test transaction	Purpose
T06.59.B001.0	MPA sends a message with a UTILMD E07, 27, E32 for a single tariff Meter without an Estimated Periodic Consumption Value
T06.59.B002.0	MPA sends a message with a UTILMD E07, 27, E32 for a single tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity
T06.59.B004.0	MPA sends a message with a UTILMD E07, 27, E32 for a double tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity (a double tariff Meter is not possible for gas)
T06.59.B005.0	MPA sends a message with a UTILMD E07, 27, E32 without a Location (SG-4 LOC)
T06.59.B006.0	MPA sends a message with a UTILMD E07, 27, with ReasonForTransaction_Code E22 instead of E32
T06.59.B007.0	MPA sends a message with a UTILMD E07, 27, E32 with an invalid ProductID

	(0-0-0-0-0-0)
T06.59.B009.0	MPA sends a message with a UTILMD E07, 27, E32 with a Product Code for Energy Active (8716867000030)
T06.59.B010.0	MPA sends a message with a UTILMD E07, 27, E32 with TAX segment for Energy Tax Code (this is only used for electricity)
T06.59.B011.0	MPA sends a message with a UTILMD E07, 27, E32 with the fields of the MP_Address (cityName, postCode, street) filled in the Party_ID of the MDR
T06.59.B012.0	MPA sends a message with a UTILMD E07, 27, E32 with electricity profile 2A
T06.59.B013.0	MPA sends a message with a UTILMD E07, 27, E32 where Settlement Method is Non-Profiled (E02) but the Profile is given G2A
T06.59.B014.0	MPA sends a message with a UTILMD E07, 27, E32 with a Measurement Unit Qualifier KWH instead of MTQ
T06.59.B015.0	MPA sends a message with a UTILMD E07, 27, E32 with TransportCapacityQuantity Z01 instead of 123
T06.59.B016.0	MPA sends a message with a UTILMD E07, 27, E32 without a NextSchedulingInvoiceDate
T06.59.B017.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to TCR where the MP_Party is missing
T06.59.B018.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value to Transport Capacity Responsible Party(TCR) where the Connection Service is missing
T06.59.B019.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to TCR where the Adm.Status_Code is E24
T06.59.B020.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to TCR where the TypeOfMeteringPoint is E20

### 3.3 Structure: Change Balance/Transport Capacity Responsible Party Message Test transactions

Test transaction	Purpose
T08.59.B001.0	MPA sends a message with a UTILMD E44, 27, E68 with a contract start date
T08.59.B002.0	MPA sends a message with a UTILMD E44, 27, E68 without a contract start date and without a contract end date
T08.59.B003.0	MPA sends a message with a UTILMD E44, 27, E68 with both a contract start date and contract end date
T08.59.B005.0	MPA sends a message with a UTILMD E44, 27, E68 with an invalid role (DDM instead of TCR)
T08.60.B001.0	MPA sends a message with a UTILMD E44, 27, E68 with a contract end date

## 4. Balance Supplier

### 4.1 Structure: Change Balance/Transport Capacity Responsible Party

#### Process Test transactions

Test transaction	Purpose
S08.06.P001.0	BS sends a message with a UTILMD 392, 23, E56 to MPA

#### Message Test transactions

Test transaction	Purpose
T08.06.B001.0	MPA sends a message with a UTILMD 414, 23, E56 with a Confirmation
T08.06.B002.0	MPA sends a message with a UTILMD 414, 23, E56 with a Rejection with reason E18
T08.06.B003.0	MPA sends a message with a UTILMD 414, 23, E56 with a Rejection where the error code contains the following text: "Unauthorized balance responsible party" instead of error code E18
T08.06.B004.0	MPA sends a message with a UTILMD 414, 23, E56 with a Confirmation without the NAD segment with the new BRP

### 4.2 Structure: Change of Supplier

#### Message Test transactions

Test transaction	Purpose
S12.06.B001.0	BS sends a 392, 23, E03 message without proposed switch stands.
S12.06.B002.0	BS sends a 392, 23, E03 message with proposed switch stands.
S12.06.B003.0	BS sends a E30, 23, E03 message for 2 Metering Points with both high and low meter stands (2 registers number 1 and 2).
S12.06.B004.0	BS sends a E30, 23, E03 message for 1 metering point, 2 registers, origin of meter stand is E26.
S12.06.B005.0	BS sends a E30, 23, E03 message for 1 metering point, 4 registers, origin of meter stand is E26.
S12.06.B006.0	BS sends a E30, 23, E03 message for 1 metering point, 2 registers, origin of meter stand is N03.
T12.06.B001.0	MPA sends a 414, 23, E03 confirmation message with MEP indication (TAX) missing.
T12.06.B002.0	MPA sends a 414, 23 Rejection message with MEP indication (TAX) added.
T12.06.B003.0	MPA sends a 414, 23, E03 with confirmation and rejection within the same message, for 2 different metering points.
T12.06.B004.0	MPA sends a 414, 23, E03 confirmation message with code E02 as Agreement

	Type description code.
T12.06.B005.0	MPA sends a E11, 23, E03 switch message for 1 meter with 2 stands (high/low) with negotiated switch stands. Origin of Meter Stand is N03 and Type of Metering Point is Consumption
T12.06.B006.0	MPA sends a E11, 23, E03 switch message for 1 meter with 2 stands (high/low) with authorized switch stands. Origin of Meter Stand is E26 and Type of Metering Point is Consumption.
T12.06.B007.0	MPA sends a E11, 23, E03 switch message for 1 meter with 2 stands (high/low) with reactive energy (not allowed for switch stands). Origin of Meter Stand is E27 and Type of Metering Point is Consumption.
T12.06.B008.0	MPA sends a E11, 23, E03 switch message for 1 meter with 1 register and unknown reason description code E04. Origin of Meter Stand is E26 and Type of Metering Point is Consumption
T12.06.B009.0	MPA sends a 406, 23, E03 confirmation message.
T12.06.B010.0	MPA sends a 406, 23, E03 confirmation message for an unknown metering point.
T12.06.B011.0	MPA sends a E11, 23, E23 periodic message, having QTY specified in 2 decimals. Origin of Meter Stand is E26 and Type of Metering Point is Consumption.
T12.06.B012.0	MPA sends a E11, 23, E23 periodic message, with status description code 121 for the volume (STS+8+121). Origin of Meter Stand is E26 and Type of Metering Point is Consumption
T12.06.B013.0	MPA sends a E11, 23, E23 periodic message with negotiated meter stand (high/low). Origin of Meter Stand is N03 and Type of Metering Point is Consumption.
T12.06.B014.0	MPA sends a E11, 23, E23 periodic message with authorized meter stand (high/low). Origin of Meter Stand is E26 and Type of Metering Point is Consumption.
T12.06.B015.0	MPA sends a E11, 23, E03 switch message for 1 Metering Point with Origin of Meter Stand N03 and Type of Metering Point E20
T12.06.B016.0	MPA sends a E11, 23, E03 switch message for 1 Metering Point with Origin of Meter Stand N05 and Type of Metering Point Consumption
T12.06.B017.0	MPA sends a E11, 23, E03 switch message for 1 Metering Point with Origin of Meter Stand E30 and Type of Metering Point Consumption

### 4.3 Structure: Distribute Master Data Metering Point

#### Process Test transactions

Test transaction	Purpose
S06.06.P001.0	Balance Supplier sends a request with UTILMD E10, 23, E32
S06.06.P002.0	Balance Supplier sends a request with UTILMD E10, 23, E48

#### Message Test transactions

Test transaction	Purpose
T06.06.B001.0	MPA sends a message with a UTILMD E07, 23, E32 for a single tariff Meter without an EstimatedPeriodicConsumption Value
T06.06.B002.0	MPA sends a message with a UTILMD E07, 23, E32 for a single tariff Meter with an EstimatedPeriodicConsumption Value and a Contracted Capacity
T06.06.B004.0	MPA sends a message with a UTILMD E07, 23, E32 for a double tariff Meter with an EstimatedPeriodicConsumption Value and a Contracted Capacity
T06.06.B005.0	MPA sends a message with a UTILMD E07, 23, E32 without a Location (SG-4 LOC)
T06.06.B006.0	MPA sends a message with a UTILMD E07, 23, with ReasonForTransaction_Code E22 instead of E32
T06.06.B007.0	MPA sends a message with a UTILMD E07, 23, E32 with an invalid ProductID (0-0-0-0-0-0)
T06.06.B009.0	MPA sends a message with a UTILMD E07, 23, E32 with a Product Code for Natural Gas (5410000100016)
T06.06.B010.0	MPA sends a message with a UTILMD E07, 23, E32 with Pressure_Code E16 instead of E10 or E11 (Pressure was MeterTimeFrame_Code)
T06.06.B011.0	MPA sends a message with a UTILMD E07, 23, E32 with the fields of the MP_Address (cityName, postCode, street) filled in the Party_ID of the MDR
T06.06.B012.0	MPA sends a message with a UTILMD E07, 23, E32 with gas profile G2A
T06.06.B013.0	MPA sends a message with a UTILMD E07, 23, E32 where Settlement Method is Non-Profiled (E02) but the Profile is given 2A
T06.06.B014.0	MPA sends a message with a UTILMD E07, 23, E32 with a Measurement Unit Qualifier MTQ (Cubic Meter) instead of KWH
T06.06.B015.0	MPA sends a message with a UTILMD E07, 23, E32 with TransportCapacityQuantity Z01 instead of 123
T06.06.B016.0	MPA sends a message with a UTILMD E07, 23, E32 without a NextSchedulingInvoiceDate
T06.06.B017.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .Where no Market Parties are indicated in the class MP_Party
T06.06.B018.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with only Estimated Periodic Consumption. Therefore Connection service is lacking
T06.06.B019.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity. PhysicalOrAdministrativeStatus_Code is E24.
T06.06.B020.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .TypeOfMeteringPointCode is E20.

## 4.4 Structure: Move Out

### Message Test transactions

Test transaction	Purpose
S13.06.B001.0	Send a 432, 23, E01 message without proposed switch stands.
S13.06.B002.0	Send a 432, 23, E01 message with proposed switch stands.
T13.06.B001.0	MPA sends a 406, 23, E01 confirmation message
T13.06.B002.0	MPA sends a 406, 23 Rejection message with MEP indication (TAX) added
T13.06.B003.0	MPA sends a 406, 23, E01 message, with both confirmation and rejection within one message for 2 different metering points.
T13.06.B004.0	MPA sends a 406, 23, E01 confirmation message with agreement identification (AGR) added

## 4.5 Settle: Reconciliation

### Process Tests transactions

Test transaction	Purpose
T22.06.P001.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"><li>• For the last 15 months</li><li>• 3 Metering Grid Areas</li></ul> For all Metering Grid Areas <ul style="list-style-type: none"><li>• Energy High and Low</li><li>• Netloss</li></ul>
T22.06.P002.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"><li>• For the last 15 months</li><li>• 3 Metering Grid Areas</li></ul> For all Metering Grid Areas <ul style="list-style-type: none"><li>• Energy High and Low</li><li>• Netloss</li></ul>
T22.06.P003.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"><li>• For the last 14 months</li><li>• 3 Metering Grid Areas</li></ul> For all Metering Grid Areas <ul style="list-style-type: none"><li>• Energy High and Low</li><li>• Netloss</li></ul>

T22.06.P004.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul>
T22.06.P005.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul> One Metering Grid Area is unknown
T22.06.P006.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 18 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul>

### Message Tests transactions

Test transaction	Purpose
T22.06.B001.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>6 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul>
T22.06.B002.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul>
T22.06.B003.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Normal Tariff</li> <li>Netloss</li> </ul>

T22.06.B004.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul>
T22.06.B005.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Netloss</li> </ul>
T22.06.B006.0 (optional)	BRP sends a E29 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>3 Metering Grid Areas</li> </ul> For all Metering Grid Areas <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>No Netloss</li> </ul>

## 4.6 Plan: Regulating and Reserve Power

### Message Test Transactions

Test transaction	Purpose
S11.06.B001.0	Supplier sends a QUOTES RRV message
S11.06.B002.0	Supplier sends a QUOTES RRV message with period over change from summer to wintertime
S11.06.B003.0	Supplier sends a QUOTES RRV message with period over change from winter to summertime
S11.06.B004.0	Supplier sends a QUOTES RRV message with a price of 100 EURO/MWH specified for all PTE's
S11.06.B005.0	Supplier sends a QUOTES RRV message with both a ramp rate of 8.4% and 7% defined
S11.06.B006.0	Supplier sends a QUOTES RRV message with both a call off time of 15 minutes and 10 minutes defined

## 5. Balance Supplier (Gas)

### 5.1 Structure: Change Balance/Transport Capacity Responsible Party

#### Process Test transactions

Test transaction	Purpose
S08.56.P001.0	BS sends a message with a UTILMD 392, 27, E68 to MPA

#### Message Test transactions

Test transaction	Purpose
T08.56.B001.0	MPA sends a message with a UTILMD 414, 27, E68 with a Confirmation
T08.56.B002.0	MPA sends a message with a UTILMD 414, 27, E68 with a Rejection with reason E16
T08.56.B003.0	MPA sends a message with a UTILMD 414, 27, E68 with a Rejection where error code contains the following text: "Unauthorized balance responsible party" instead of error code E18
T08.56.B004.0	MPA sends a message with a UTILMD 414, 27, E68 with a Confirmation without the NAD segment with the new BRP

### 5.2 Structure: Change of Supplier

#### Message Test transactions

Test transaction	Purpose
S12.56.B001.0	BS sends a 392, 27, E03 without proposed switch stands.
S12.56.B002.0	BS sends a 392, 27, E03 with proposed switch stands.
S12.56.B003.0	BS sends a E30, 27, E03 for 2 metering points, each with one register.
T12.56.B001.0	MPA sends a 414, 27, E03 confirmation message with MEP indication (TAX) added.
T12.56.B002.0	MPA sends a 414, 27, E03 with confirmation and rejection within the same message, for 2 different metering points
T12.56.B003.0	MPA sends a 414, 27, E03 confirmation message with agreement type description code E02
T12.56.B004.0	MPA sends a E11, 27, E03 switch message with negotiated switch stand. Origin of Meter Stand is N03 and Type of Metering Point is Consumption.
T12.56.B005.0	MPA sends a E11, 27, E03 switch message with authorized switch stand. Origin of Meter Stand is E26 and Type of Metering Point is Consumption
T12.56.B006.0	MPA sends a E11, 27, E03 switch message with switch stand for reactive energy. Origin of Meter Stand is E26 and Type of Metering Point is Consumption
T12.56.B007.0	MPA sends a E11, 27, E03 switch message with a switch stand with unknown reason description code E04. Origin of Meter Stand is E26 and Type of Metering

	Point is Consumption.
T12.56.B008.0	MPA sends a 406, 27, E03 confirmation message.
T12.56.B009.0	MPA sends a 406, 27, E03 confirmation message for an unknown metering point.
T12.56.B010.0	MPA sends a 406, 27, E03 confirmation message with LOC (LOC+172) segment missing.
T12.56.B011.0	MPA sends a E11, 27, E23 periodic message with QTY specified in 2 decimals. Origin of Meter Stand is E26 and Type of Metering Point is Consumption.
T12.56.B012.0	MPA sends a E11, 27, E23 periodic message with status description code 121 in the volume. Origin of Meter Stand is E26 and Type of Metering Point is Consumption.
T12.56.B013.0	MPA sends a E11, 27, E23 periodic message with negotiated meter stand. Origin of Meter Stand is N03 and Type of Metering Point is Consumption.
T12.56.B014.0	MPA sends a E11, 27, E23 periodic message with authorized meter stand. Origin of Meter Stand is E26 and Type of Metering Point is Consumption.
T12.56.B015.0	MPA sends a E11, 27, E03 switch message for 1 Metering Point with Origin of Meter Stand N03 and Type of Metering Point E20.
T12.56.B016.0	MPA sends a E11, 27, E03 switch message for 1 Metering Point with Origin of Meter Stand N05 and Type of Metering Point Consumption
T12.56.B017.0	MPA sends a E11, 27, E03 switch message for 1 Metering Point with Origin of Meter Stand E30 and Type of Metering Point Consumption

### 5.3 Structure: Distribute Master Data Metering Point

#### Process Test transactions

Test transaction	Purpose
S06.56.P001.0	Balance Supplier sends a request with UTILMD E10, 27, E32
S06.56.P002.0	Balance Supplier sends a request with UTILMD E10, 27, E48

#### Message Test transactions

Test transaction	Purpose
T06.56.B001.0	MPA sends a message with a UTILMD E07, 27, E32 for a single tariff Meter without an Estimated Periodic Consumption Value
T06.56.B002.0	MPA sends a message with a UTILMD E07, 27, E32 for a single tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity
T06.56.B004.0	MPA sends a message with a UTILMD E07, 27, E32 for a double tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity (a double tariff Meter is not possible for gas)
T06.56.B005.0	MPA sends a message with a UTILMD E07, 27, E32 without a Location (SG-4 LOC)
T06.56.B006.0	MPA sends a message with a UTILMD E07, 27, with ReasonForTransaction_Code E22 instead of E32
T06.56.B007.0	MPA sends a message with a UTILMD E07, 27, E32 with an invalid ProductID

	(0-0-0-0-0-0)
T06.56.B009.0	MPA sends a message with a UTILMD E07, 27, E32 with a Product Code for Energy Active (8716867000030)
T06.56.B010.0	MPA sends a message with a UTILMD E07, 27, E32 with TAX segment for Energy Tax Code (this is only used for electricity)
T06.56.B011.0	MPA sends a message with a UTILMD E07, 27, E32 with the fields of the MP_Address (cityName, postCode, street) filled in the Party_ID of the MDR
T06.56.B012.0	MPA sends a message with a UTILMD E07, 27, E32 with electricity profile 2A
T06.56.B013.0	MPA sends a message with a UTILMD E07, 27, E32 where Settlement Method is Non-Profiled (E02) but the Profile is given G2A
T06.56.B014.0	MPA sends a message with a UTILMD E07, 27, E32 with a Measurement Unit Qualifier KWH instead of MTQ
T06.56.B015.0	MPA sends a message with a UTILMD E07, 27, E32 with TransportCapacityQuantity Z01 instead of 123
T06.56.B016.0	MPA sends a message with a UTILMD E07, 27, E32 without a NextSchedulingInvoiceDate
T06.56.B017.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to Balance Supplier(DDQ) where the MP_Party is missing
T06.56.B018.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value to Balance Supplier(DDQ) where the Connection Service is missing
T06.56.B019.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to BS (DDQ) where the Adm.Status_Code is E24.
T06.56.B020.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to Balance Supplier (DDQ) where the TypeOfMeteringPointCode is E20.

## 5.4 Structure: Move Out

### Message Test transactions

Test transaction	Purpose
S13.56.B001.0	Send a 432, 27, E01 message without proposed switch stand
S13.56.B002.0	Send a 432, 27, E01 message with proposed switch stands.
T13.56.B001.0	MPA sends a 406, 27, E01 confirmation message
T13.56.B002.0	MPA sends a 406, 27 Rejection message with MEP indication (TAX) added.
T13.56.B003.0	MPA sends a 406, 27, E01 message with both confirmation and rejection in the same message for 2 different metering points.
T13.56.B004.0	MPA sends a 406, 27, E01 confirmation message with agreement identification (AGR) added

## 6. Certifying Party (CertiQ)

### 6.1 Measure: MSCONS Green Certificate

#### Message Test transactions

Test transaction	Purpose
T20.12.B001.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for one Grid Connection Point.
T20.12.B002.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points.
T20.12.B003.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points. For the month in which the transition from summer to wintertime takes place.
T20.12.B004.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points. For the month in which the transition from winter to summertime takes place.
T20.12.B005.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points. And the last two days are missing for the first Grid Connection Point.
T20.12.B006.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points. The qualifier KWH is missing.
T20.12.B007.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points. And the checksum is smaller than the total amount of KWH for all the four Grid Connection Points.

## 7. Meetverantwoordelijke

### 7.1 Structure: Change of Metered Data Responsible for MDR

#### Process Test transactions

Test transaction	Purpose
S01.01.P001.0	MDR sends a message with a UTILMD 392, 23, E57
S01.01.P003.0	MDR sends a message with a UTILMD 392, 23, E57 with 'contract start date' in different time zone from current time

#### Message Test transactions

Test transaction	Purpose
T01.01.B001.0	Send a UTILMD 414, 23, E57 with a rejection with Answer E55 (= not allowed 'NewMeteredDataResponsible')
T01.01.B002.0	Send a UTILMD 414, 23, E57 with a confirmation without mandatory segment with 'contract start date'
T01.01.B003.0	Send a UTILMD 414, 23, E57 with a rejection but with invalid TransactionResponseReason_Code E61
T01.01.B004.0	Send a UTILMD 414, 23, E57 with a confirmation but with reason E47 instead of E57
T01.01.B005.0	Send a UTILMD 414, 23, E57 with a confirmation but with an TransactionResponseReason_Code 'E10'
T01.01.B006.0	Send a UTILMD 414, 23, E57 with a confirmation
T01.01.B008.0	Send a UTILMD 414, 23, E57 with a confirmation but with an empty LOC 3227
T01.03.B001.0	MPA sends a message with a UTILMD E44, 23, E57 without the mandatory segment with 'NewMeteredDataResponsible'
T01.03.B002.0	MPA sends a message with a UTILMD E44, 23, E57
T01.03.B003.0	MPA sends a message with a UTILMD E44, 23, E57 without the mandatory 'contract end date' in the segment
T01.03.B004.0	MPA sends a message with a UTILMD E44, 23, E57 with LOC 3055 '19' mentioned
T01.03.B005.0	MPA sends a message with a UTILMD E44, 23, E57 with an unknown 'metering point'

### 7.2 Measure: Determine Switch Stand for MA

#### Process Test transactions

Test transaction	Purpose
S04.05.B002.0	MA sends a UTILTS E65, 23, E60 for 1 MP with 1 Register Observation and 1 Register Stand.
S04.05.B003.0	MA sends a UTILTS E65, 23, E60 for 1 MP with 2 Register Observations and 2 Register Stands.

### Message Test transactions

Test transaction	Purpose
S03.05.B002.0	MA sends a UTILTS E65, 23, E67 for 1 MP with 1 Volume Observation, Unmeasured Energy and 1 Register Observation.
S03.05.B003.0	MA sends a UTILTS E65, 23, E67 for 1 MP with 2 Volume Observations, Unmeasured Energy and 2 Register Observations.
S03.05.B004.0	MA sends a UTILTS E65, 23, E67 for 2 MP with 1 Volume Observation, Unmeasured Energy and 1 Register Observation.

## 7.3 Structure: Distribute Master Data Meter for MA

### Process Test Transactions

Test transaction	Purpose
T05.05.P001.0	GAP sends a message with a UTILMD E38, 23, E84

### Messages Test Transactions

Test transaction	Purpose
T05.05.B001.0	GAP sends a message with a UTILMD E38, 23, E84 without metering point (without SG4)
T05.05.B002.0	GAP sends a message with a UTILMD E38, 23, E84 with 2 different metering points (2x SG4)
T05.05.B003.0	GAP sends a message with a UTILMD E38, 23, with ReasonForTransaction_Code E83 instead of E84
T05.05.B004.0	GAP sends a message with a UTILMD E38, 23, E84, with metering point with unknown id
T05.05.B005.0	GAP sends a message with a UTILMD E38, 23, E84, with roll DDQ instead of DDM

## 7.4 Structure: Distribute Master Data Metering Point for MDR

### Process Test transactions

Test transaction	Purpose
S06.01.P001.0	MDR sends a request with UTILMD E10, 23, E32
S06.01.P002.0	MDR sends a request with UTILMD E10, 23, E48

### Message Test transactions

Test transaction	Purpose
T06.01.B001.0	MPA sends a message with a UTILMD E07, 23, E32 for a single tariff Meter without an Estimated Periodic Consumption Value
T06.01.B002.0	MPA sends a message with a UTILMD E07, 23, E32 for a single tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity

T06.01.B004.0	MPA sends a message with a UTILMD E07, 23, E32 for a double tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity
T06.01.B005.0	MPA sends a message with a UTILMD E07, 23, E32 without a Location (SG-4 LOC)
T06.01.B006.0	MPA sends a message with a UTILMD E07, 23, with ReasonForTransaction_Code E22 instead of E32
T06.01.B007.0	MPA sends a message with a UTILMD E07, 23, E32 with an invalid ProductID (0-0-0-0-0)
T06.01.B009.0	MPA sends a message with a UTILMD E07, 23, E32 with a Product Code for Natural Gas (5410000100016)
T06.01.B010.0	MPA sends a message with a UTILMD E07, 23, E32 with Pressure_Code E16 instead of E10 or E11 (Pressure was MeterTimeFrame_Code)
T06.01.B011.0	MPA sends a message with a UTILMD E07, 23, E32 with the fields of the MP_Address (cityName, postCode, street) filled in the Party_ID of the MDR
T06.01.B012.0	MPA sends a message with a UTILMD E07, 23, E32 with gas profile G2A
T06.01.B014.0	MPA sends a message with a UTILMD E07, 23, E32 with a Measurement Unit Qualifier MTQ (Cubic Meter) instead of KWH
T06.01.B015.0	MPA sends a message with a UTILMD E07, 23, E32 with TransportCapacityQuantity Z01 instead of 123
T06.01.B016.0	MPA sends a message with a UTILMD E07, 23, E32 without a NextSchedulingInvoiceDate
T06.01.B017.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .Where no Market Parties are indicated in the class MP_Party
T06.01.B018.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with only Estimated Periodic Consumption. Therefore Connection service is lacking.
T06.01.B019.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity. PhysicalOrAdministrativeStatus_Code is E24.
T06.01.B020.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .TypeOfMeteringPointCode is E20.

## 7.5 Structure: End of Metering for MDR

### Message Test transactions

Test transaction	Purpose
T02.01.B001.0	Send a UTILMD 414, 23, E77, Rejection with a party (a party is not allowed)
T02.01.B002.0	Send a UTILMD 414, 23, E77, Rejection with an end date (in a rejection end date is not allowed)
T02.01.B003.0	Send a UTILMD 414, 23, E77, Rejection with code 39 (= Approved)
T02.01.B004.0	Send a UTILMD 414, 23, E77, Rejection with a transaction code 7 instead of answer code E01 (7 for both STS segments)

T02.01.B005.0	Send a UTILMD 414, 23, E77, Rejection with E01(=Answer) instead of transaction code 7 (E01 for both STS segments)
T02.01.B006.0	Send a UTILMD 414, 23, E77, Confirmation with 39 (=Approved)
T02.01.B007.0	Send a UTILMD 414, 23, E77, Confirmation with party (a party is not allowed)
T02.01.B008.0	Send a UTILMD 414, 23, E77, Rejection with E01, E10

## 7.6 Measure: Exchange validated metered data for billing, stands for MDR Message Test transactions

Test transaction	Purpose
S07.01.B001.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 Metering Point with Consumption High and Low, Reactive Energy Standard Tariff and Power. It concerns 1 Meter with 3 Counters.
S07.01.B002.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 Metering Point with Consumption High and Low, Reactive Energy High and Low and Power. It concerns 2 Meters with 3 Counters each.
S07.01.B004.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 MP with Cons. High and Low, Reactive Energy Standard Tariff and Power. 1 Meter with 3 Counters. Rest Volumes are included as well.
S07.01.B005.0	MDR sends a UTILTS E65, 23, E23, 5 with 1 Metering Point with Consumption High and Low and Reactive Energy high and Low.

## 7.7 Measure: Exchange Validated Metered Data for Balance Management for MDR

### Message Test transactions

Test transactions	Purpose
S00.01.B001.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea, where current time is summertime and observation period is wintertime
S00.01.B002.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea, where current time is summertime and observation period over change from winter to summertime
S00.01.B003.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea, where current time is wintertime and observation period is summertime
S00.01.B004.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea, where current time is wintertime and observation period over change from summer to wintertime
S00.01.B101.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea

S00.01.B102.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with a NeighbourGridArea and there is in feed taking place
S00.01.B103.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with a NeighbourGridArea and both in feed and consumption taking place
S00.01.B104.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea with 1 or more Quantity Quality estimated with approved code
S00.01.B105.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea with 1 or more Quantity Quality temporary
S00.01.B106.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea with 1 or more Quantity Quality estimated with approved code and with 1 or more Quantity Quality temporary
S00.01.B107.0	MDR sends a UTILTS E66, 23, E23, DEA, 5 message with a NeighbourGridArea and there is in feed taking place

## 8. Meetverantwoordelijke(Gas)

### 8.1 Structure: Change of Metered Data Responsible for MDR (Gas)

#### Process Test transactions

Test transaction	Purpose
S01.51.P001.0	MDR sends a message with a UTILMD 392, 27, E57
S01.51.P003.0	MDR sends a message with a UTILMD 392, 27, E57 with 'contract start date' in different time zone from current time

#### Message Test transactions

Test transaction	Purpose
T01.51.B001.0	Send a UTILMD 414, 27, E57 with a rejection with Answer E55 (= not allowed 'NewMeteredDataResponsible')
T01.51.B002.0	Send a UTILMD 414, 27, E57 with a confirmation without mandatory segment with 'contract start date'
T01.51.B003.0	Send a UTILMD 414, 27, E57 with a rejection but with invalid TransactionResponseReason_Code E61
T01.51.B004.0	Send a UTILMD 414, 27, E57 with a confirmation but with reason E47 instead of E57
T01.51.B005.0	Send a UTILMD 414, 27, E57 with a confirmation but with an answer code 'E10'
T01.51.B006.0	Send a UTILMD 414, 27, E57 with a confirmation
T01.51.B008.0	Send a UTILMD 414, 27, E57 with a confirmation and with an empty LOC 3227
T01.53.B001.0	MPA sends a message with a UTILMD E44, 27, E57 without the mandatory segment with 'NewMeteredDataResponsible'
T01.53.B002.0	MPA sends a message with a UTILMD E44, 27, E57
T01.53.B003.0	MPA sends a message with a UTILMD E44, 27, E57 without the mandatory 'contract end date' in the segment
T01.53.B004.0	MPA sends a message with a UTILMD E44, 27, E57 with LOC 3055 '19' mentioned

## 8.2 Measure: Determine Switch Stand for MA (Gas)

### Messages Test Transactions

Test transaction	Purpose
S03.55.B001.0	MA sends a UTILTS E65, 27, E67 for 1 MP with 1 Volume Observation, Unmeasured Energy and 1 Register Observation
S03.55.B002.0	MA sends a UTILTS E65, 27, E67 for 1 MP without Volume Observation, and with 1 Register Observation
S04.55.B002.0	MA sends a UTILTS E65, 27, E60 for 1 MP with 1 Register Observation and 1 Register Stand
S04.55.B003.0	MA sends a UTILTS E65, 27, E60 for 1 MP with 2 Register Observations and 2 Register Stands

## 8.3 Structure: Distribute Master Data Meter for MA (Gas)

### Process Test Transactions

Test transaction	Purpose
T05.55.P001.0	GAP sends a message with a UTILMD E38, 27, E84

### Messages Test Transactions

Test transaction	Purpose
T05.55.B001.0	GAP sends a message with a UTILMD E38, 27, E84 without metering point (without SG4)
T05.55.B002.0	GAP sends a message with a UTILMD E38, 27, E84 with 2 different metering points (2x SG4)
T05.55.B003.0	GAP sends a message with a UTILMD E38, 27, with ReasonForTransaction_Code E83 instead of E84
T05.55.B004.0	GAP sends a message with a UTILMD E38, 27, E84, with metering point with unknown id
T05.55.B005.0	GAP sends a message with a UTILMD E38, 27, E84, with roll DDQ instead of DDM

## 8.4 Structure: Distribute Master Data Metering Point for MDR (Gas)

### Process Test transactions

Test transaction	Purpose
S06.51.P001.0	MDR sends a request with UTILMD E10, 27, E32
S06.51.P002.0	MDR sends a request with UTILMD E10, 27, E48

### Message Test transactions

Test transaction	Purpose
T06.51.B001.0	MPA sends a message with a UTILMD E07, 27, E32 for a single tariff Meter without an Estimated Periodic Consumption Value
T06.51.B002.0	MPA sends a message with a UTILMD E07, 27, E32 for a single tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity
T06.51.B004.0	MPA sends a message with a UTILMD E07, 27, E32 for a double tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity (a double tariff Meter is not possible for gas)
T06.51.B005.0	MPA sends a message with a UTILMD E07, 27, E32 without a Location (SG-4 LOC)
T06.51.B006.0	MPA sends a message with a UTILMD E07, 27, with ReasonForTransaction_Code E22 instead of E32
T06.51.B007.0	MPA sends a message with a UTILMD E07, 27, E32 with an invalid ProductID (0-0-0-0-0-0)
T06.51.B009.0	MPA sends a message with a UTILMD E07, 27, E32 with a Product Code for Energy Active (8716867000030)
T06.51.B010.0	MPA sends a message with a UTILMD E07, 27, E32 with TAX segment for Energy Tax Code (this is only used for electricity)
T06.51.B011.0	MPA sends a message with a UTILMD E07, 27, E32 with the fields of the MP_Address (cityName, postCode, street) filled in the Party_ID of the MDR
T06.51.B012.0	MPA sends a message with a UTILMD E07, 27, E32 with electricity profile 2A
T06.51.B013.0	MPA sends a message with a UTILMD E07, 27, E32 where Settlement Method is Non-Profiled (E02) but the Profile is given G2A
T06.51.B014.0	MPA sends a message with a UTILMD E07, 27, E32 with a Measurement Unit Qualifier KWH instead of MTQ
T06.51.B015.0	MPA sends a message with a UTILMD E07, 27, E32 with TransportCapacityQuantity Z01 instead of 123
T06.51.B016.0	MPA sends a message with a UTILMD E07, 27, E32 without a NextSchedulingInvoiceDate.
T06.51.B017.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to Metered Data Responsible (Z05) where the MP_Party is missing.
T06.51.B018.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value to Metered Data Responsible (Z05) where the Connection

	Service is missing.
T06.51.B019.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to MDR (Z05) where the Adm.Status_Code is E24.
T06.51.B020.0	MPA sends a message with a UTILMD E07, 23, E32 with an Estimated Periodic Consumption Value and a Contracted Capacity to MDR (Z05) where the TypeOfMeteringPoint is E20.

## 8.5 Structure: End of Metering for MDR (Gas)

### Message Test transactions

Test transaction	Purpose
T02.51.B001.0	Send a UTILMD 414, 27, E77, Rejection with a party (a party is not allowed)
T02.51.B002.0	Send a UTILMD 414, 27, E77, Rejection with an end date (in a rejection end date is not allowed)
T02.51.B003.0	Send a UTILMD 414, 27, E77, Rejection with code 39 (= Approved)
T02.51.B004.0	Send a UTILMD 414, 27, E77, Rejection with a transaction code 7 instead of answer code E01 (E01 for both STS segments)
T02.51.B005.0	Send a UTILMD 414, 27, E77, Rejection with E01(=Answer) instead of transaction code 7 (E01 for both STS segments)
T02.51.B006.0	Send a UTILMD 414, 27, E77, Confirmation with 39 (=Approved)
T02.51.B007.0	Send a UTILMD 414, 27, E77, Confirmation with party (a party is not allowed)
T02.51.B008.0	Send a UTILMD 414, 27, E77, Rejection with E01, E10

## 8.6 Measure: Exchange validated metered data for billing, stands for MDR (Gas)

### Message Test transactions

Test transaction	Purpose
S07.51.B001.0	MDR sends a UTILTS E65, 27, E23, 9 with 1 Metering Point with Consumption with Capacity. It concerns 1 Meter with 1 Counter.
S07.51.B002.0	MDR sends a UTILTS E65, 27, E23, 9 with 1 Metering Point with Consumption with Capacity. It concerns 1 Meter with 1 Counter. The Rest Volume is included as well.
S07.51.B003.0	MDR sends a UTILTS E65, 27, E23, 5 with 1 Metering Point with Consumption.

## 8.7 Measure: Exchange Validated Metered Data for Balance Management for MDR

### Message Test transactions

Test transaction	Purpose
S00.51.B005.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea, where current time is summertime and observation period is wintertime
S00.51.B006.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea, where current time is summertime and observation period over change from winter to summertime
S00.51.B007.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea, where current time is wintertime and observation period is summertime
S00.51.B008.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea where current time is wintertime and observation period over change from summer to wintertime
S00.51.B101.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea
S00.51.B102.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with a NeighbourGridArea and there is in feed taking place
S00.51.B103.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with a NeighbourGridArea and both in feed and consumption taking place
S00.51.B104.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea with rest volume
S00.51.B105.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea with 1 or more Quantity Quality estimated
S00.51.B106.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea with 1 or more Quantity Quality temporary
S00.51.B107.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea with 1 or more Quantity Quality estimated with approved code and with 1 or more Quantity Quality temporary
S00.51.B108.0	MDR sends a UTILTS E66, 27, E23, DEA, 5 message with a NeighbourGridArea
S00.51.B109.0	MDR sends a UTILTS E66, 27, E23, DEA, 5 message without a NeighbourGridArea with rest volume

## 9. Netbeheerder

### 9.1 Auction: Cross border capacity for GAP

#### Message Test transactions

Test transaction	Purpose
T10.04.B001.0	PRC sends a daily QUOTES TC message
T10.04.B002.0	PRC sends a monthly QUOTES TC message
T10.04.B003.0	PRC sends a yearly QUOTES TC message
T10.04.B004.0	PRC sends a daily QUOTES TC message with volume specified in 2 decimals
T10.04.B005.0	PRC sends a daily QUOTES TC message with price specified in 1 decimal
T10.04.B006.0	PRC sends a daily QUOTES TC message without a price qualifier
T10.04.B007.0	PRC sends a daily QUOTES TC message price segment missing
T10.04.B008.0	PRC sends a daily QUOTES TC message 1 period (segment group 31) missing
T10.04.B009.0	PRC sends a daily QUOTES TC message separator missing
T10.04.B010.0	PRC sends a daily QUOTES TC message sink and source segments missing

### 9.2 Structure: Change Balance/Transport Capacity Responsible Party for MPA

#### Process Test transactions

Test transaction	Purpose
T08.02.P001.0	BS sends a message with a UTILMD 392, 23, E56 to MPA

#### Message Test transactions

Test transaction	Purpose
T08.02.B001.0	BS sends a message with a UTILMD 392, 23, E56 with a Meter Reading Instruction (INP is optional) and a MP_Address (NAD+IT)
T08.02.B002.0	BS sends a message with a UTILMD 392, 23, E56 without a Meter Reading Instruction (INP is optional) but with a MP_Address (NAD+IT)
T08.02.B003.0	BS sends a message with a UTILMD 392, 23, E56 without a MP_Address (NAD+IT) but with a Meter Reading Instruction (INP is optional)
T08.02.B004.0	BS sends a message with a UTILMD 392, 23, E56 with a MP_Address (NAD+IT) without the postal code (postal code field is empty) but with country code
T08.02.B005.0	BS sends a message with a UTILMD 392, 23, E56 without the mandatory contract start date segment (DTM+92)
T08.02.B006.0	BS sends a message with a UTILMD 392, 23 with an invalid Reason for transaction (Answer code E55 instead of Transaction code E56)

### 9.3 Structure: Change of Metered Data Responsible for MPA

#### Process Test transactions

Test transaction	Purpose
T01.02.P001.0	MDR sends a message with a UTILMD 392, 23, E57
T01.02.P002.0	MDR sends a message with a UTILMD 392, 23, E57
T01.02.P004.0	MDR sends a message with a UTILMD 392, 23, E57 with contract start date in the past
T01.02.P005.0	MDR sends a message with a UTILMD 392, 23, E57 with an unknown 'metering point'

#### Message Test transactions

Test transaction	Purpose
T01.02.B001.0	MDR sends a message with a UTILMD 392, 23, E57 with a 'contract start date' with an invalid format (CCYYMMDDhhmmm)
T01.02.B002.0	MDR sends a message with a UTILMD 392, 23, E57 with a 'contract end date' instead of a 'contract start date'
T01.02.B004.0	MDR sends a message with a UTILMD 392, 23, E57 with LOC 3055 '19' mentioned
T01.02.B005.0	MDR sends a message with a UTILMD 392, 23, E57 with invalid qualifier E01 for ReasonTransactionCode
T01.02.B006.0	MDR sends a message with a UTILMD 392, 23, E57 with an approved transaction (STS C555 4405 is '39')
T01.02.B007.0	MDR sends a message with a UTILMD 392, 23, E57 with an invalid ReasonForTransactionCode E10 instead of E57
T01.02.B009.0	Send a UTILMD ERR, 23, E57 without the segment with the reference to the original message
T01.02.B010.0	Send a UTILMD ERR, 23, E57 without the segments for transactions
T01.02.B011.0	Send a UTILMD ERR, 23, E57 with an invalid error code E11 (instead of E10 or E47)
T01.02.B012.0	Send a UTILMD ERR, 23, E57 with reference qualifier MG (instead of TN)

### 9.4 Structure: Change of Supplier for MPA

#### Message Test transactions

Test transaction	Purpose
T12.02.B001.0	BS sends a 392, 23, E03 message without proposed switch stands, with unknown reason (E04 instead of E03).
T12.02.B002.0	BS sends a 392, 23, E03 message without proposed switch stands and MEP indication (TAX-segment) missing.
T12.02.B003.0	BS sends a E30, 23, E03 message, with QTY specified in 2 decimals.
T12.02.B004.0	BS sends a E30, 27, E03 message with a definitive meter stand (81 instead of 22/86/102).
T12.02.B005.0	BS sends a E30, 23, E03 message for 1 metering point, 2 registers, origin of

	meter stand is E26.
T12.02.B006.0	BS sends a E30, 23, E03 message for 1 metering point, 4 registers, origin of meter stand is E26.
T12.02.B007.0	BS sends a E30, 23, E03 message for 1 metering point, without registers and without origin of meter stand.
T12.02.B008.0	BS sends a E30, 23, E03 message for 1 metering point, 1 register, origin of meter stand is E26 with register value 5.
S12.02.B003.0	MPA sends a 406, 23, E03 to the old BS.
S12.02.B001.0	MPA sends a 414, 23, E03 message confirmation to the BS.
S12.02.B002.0	MPA sends a 414, 23 rejection to the BS with reason Metering Blocked for Switch (E22).
S12.02.B008.0	MPA sends a E09, 23, E03 end of contract message to the BRP with reason Supplier Change.
S12.02.B009.0	MPA sends a E09, 23, E03 start of contract message to the BRP with reason Supplier Change.
S12.02.B010.0	MPA sends a E09, 23, E03 start of contract message to the BRP with reason Supplier Change, where message time is wintertime and start of contract is summertime.
S12.02.B011.0	MPA sends a E09, 23, E03 end of contract message to the BRP with reason Supplier Change, where message time is summertime and end of contract is wintertime.
S12.02.B004.0	MPA sends a E11, 23, E23 periodic message with negotiated meter stand (high/low). Origin of Meter Stand is N03 and Type of Metering Point is Consumption
S12.02.B005.0	MPA sends a E11, 23, E23 periodic message with authorized meter stand (high/low). Origin of Meter Stand is E26 and Type of Metering Point is Consumption.
S12.02.B006.0	MPA sends a E11, 23, E03 message for 1 meter with 2 stands (high/low) with negotiated switch stands. Origin of Meter Stand is N03 and Type of Metering Point is Consumption.
S12.02.B007.0	MPA sends a E11, 23, E03 message for 1 meter with 2 stands (high/low) with authorized switch stands. Origin of Meter Stand is E26. Type of Metering Point is Consumption.

## 9.5 Structure: Distribute Master Data Meter for GAP

### Process Test Transactions

Test transaction	Purpose
S05.04.P001.0	GAP sends a message with a UTILMD E38, 23, E84

### Messages Test Transactions

Test transaction	Purpose
T05.04.B001.0	MA sends a UTILMD E08, 23, E84 with 1 'meetveld' with 1 register
T05.04.B002.0	MA sends a UTILMD E08, 23, E84 with 2 'meetvelden' with 1 register each
T05.04.B003.0	MA sends a UTILMD E08, 23, E84 with 1 'meetveld' with 2 registers
T05.04.B004.0	MA sends a UTILMD E08, 23, E84 with 2 'meetvelden' with 2 registers each
T05.04.B005.0	MA sends a UTILMD E08, 23, E84 with invalid receiver role (DDQ instead of DDM)
T05.04.B006.0	MA sends a UTILMD E08, 23, E84 without validity start date (DTM+157)
T05.04.B007.0	MA sends a UTILMD E08, 23, E84 without meter time frame code
T05.04.B008.0	MA sends a UTILMD E08, 23, E84 with meter time frame day + night (CCI E07, CAV E10 + CCI E07, CAV E11)
T05.04.B009.0	MA sends a UTILMD E08, 23, E84 with unknown product code 5410000100016
T05.04.B010.0	MA sends a UTILMD E08, 23, E84 without the amount of decimals specified (CCI E06)
T05.04.B011.0	MA sends a UTILMD E08, 23, E84 with but 1 meter time frame (day only: CCI E07, CAV E11)
T05.04.B012.0	MA sends a UTILMD E08, 23, E84 with a meter time frame without CAV (only: CCI E07)

## 9.6 Structure: Distribute Master Data Metering Point

### Process Test transactions

Test transaction	Purpose
S06.02.P001.0	MPA sends a message with a UTILMD E07, 23, E32 to Balance Supplier (DDQ)
S06.02.P002.0	MPA sends a message with a UTILMD E07, 23, E32 to Balance Responsible Party (DDK)
S06.02.P003.0	MPA sends a message with a UTILMD E07, 23, E32 to Meter Data Responsible (Z05) without an EstimatedPeriodicConsumptionVolume
S06.02.P004.0	MPA sends a message with a UTILMD E07, 23, E32 for a single tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity to Meter Data Responsible (Z05)
S06.02.P005.0	MPA sends a message with a UTILMD E07, 23, E32 with Grid Contract E03 to Meter Data Responsible (Z05)
S06.02.P006.0	MPA sends a message with a UTILMD E07, 23, E21 to Meter Data Responsible (Z05)

S06.02.P007.0	MPA sends a message with a UTILMD E07, 23, E32 for a double tariff Meter with an Estimated Periodic Consumption Value to Meter Data Responsible (Z05)
S06.02.P008.0	MPA sends a message with a UTILMD E07, 23, E32 for a double tariff Meter with an Estimated Periodic Consumption Value and a Contracted Capacity to Meter Data Responsible (Z05) where MP_party is missing.
T06.02.P001.0	Balance Supplier sends a request with UTILMD E10, 23, E32
T06.02.P002.0	Balance Supplier sends a request with UTILMD E10, 23, E48

### Message Test transactions

Test transaction	Purpose
S06.02.B001.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .Where no Market Parties are indicated in the class MP_Party
S06.02.B002.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity. TypeOfMeteringPointCode is E19.
S06.02.B003.0	MPA Sends a UTILMD E07, 23, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity. PhysicalOrAdministrativeStatus_Code is E22.
T06.02.B001.0	Balance Supplier sends a request with UTILMD E10, 23, E32 without segments for a metering point
T06.02.B002.0	Balance Supplier sends a request with UTILMD E10, 23, E32 with two metering points (only one allowed)
T06.02.B003.0	Balance Supplier sends a request with UTILMD E10, 23, E32 with an STS with Qualifier E01 instead of 7 for ReasonForTransaction_Code

## 9.7 Measure: Determine Switch Stand for GAP

### Process Test transactions

Test transaction	Purpose
T04.04.P001.0	MA sends a UTILTS E65, 23, E60 for 1 MP with 1 Register Observation with unknown Metering Point ID.

### Message Test transactions

Test transaction	Purpose
T03.04.B001.0	MA sends a UTILTS E65, 23, E67 for 1 MP with Volume Observation without Unmeasured Energy and without Register Observation.
T03.04.B002.0	MA sends a UTILTS E65, 23, E67 with 1 Volume Observation, Unmeasured Energy and 1 Register Observation.
T03.04.B003.0	MA sends a UTILTS E65, 23, E67 with 2 Volume Observations, Unmeasured Energy and 2 Register Observations.
T03.04.B004.0	MA sends a UTILTS E65, 23, E67 with 2 MP with 1 Volume Observation,

	Unmeasured Energy and 1 Register Observation.
T03.04.B006.0	MA sends a UTILTS E65, 23, E67 for 1 MP, with One Register Observation, and without Volume Observation.
T04.04.B001.0	MA sends a UTILTS E65, 23, E60 for 1 MP with 1 Register Observation without a Register Stand.
T04.04.B002.0	MA sends a UTILTS E65, 23, E60 for 1 MP with 1 Register Observation with a Register Stand.
T04.04.B003.0	MA sends a UTILTS E65, 23, E60 for 1 MP with 2 Register Observations and 2 Register Stands.
T04.04.B005.0	MA sends a UTILTS E65, 23, E60 with 1 MP with Register Observation where Stand Of Origin Code is E29.

## 9.8 Structure: End of Metering for MPA

### Process Test transactions

Test transaction	Purpose
T02.02.P001.0	MDR sends a message with a UTILMD 392, 23, E77
T02.02.P002.0	MDR sends a message with a UTILMD 392, 23, E77 where end date lies before the message date in the past

### Message Test transactions

Test transaction	Purpose
T02.02.B001.0	Send a UTILMD 392, 23, E77, with a party (a party is not allowed)
T02.02.B002.0	Send a UTILMD 392, 23, E77, with DEA instead of Z05 in NAD
T02.02.B003.0	Send a UTILMD 392, 23, E77, with 5 instead of 9 in BGM segment (=update)
T02.02.B004.0	Send a UTILMD 392, 23, E77, with start date instead of end date

## 9.9 Measure: Exchange validated metered data for billing, stands for GAP

### Message Test transactions

Test transaction	Purpose
T07.04.B002.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 Metering Point with Consumption High and Low, Reactive Energy High and Low and Power. It concerns 2 Meters with 3 Counters each.
T07.04.B003.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 MP with Cons. High and Low, Reactive Energy Standard Tariff and Power. 1 Meter with 3 Counters. The Volume for the Validated Energy Volume is missing.
T07.04.B005.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 MP with Cons. High and Low. 1 Meter with 2 Counters. Sequence for Consumption Low is not included, but the rest of the data for the Consumption is included.
T07.04.B007.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 Metering Point with Consumption High

	and Low. It concerns 1 Meter with 2 Counters. No RegisterID is included for the Energy Stands.
T07.04.B008.0	MDR sends a UTILTS E65, 23, E23, 9 with 1 Metering Point with Consumption High and Low. It concerns 1 Meter with 2 Counters. No MeterReadingDateTime is included for the Energy Stands.
T07.04.B009.0	MDR sends a UTILTS E65, 23, E23, 5 with 1 Metering Point with Consumption High and Low and Reactive Energy High and Low.

## 9.10 Measure: Exchange Validated Metered Data for Balance Management for MDA

### Process Test transactions

Test transaction	Purpose
T00.09.P001.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message sequences not complete for observation period.
T00.09.P002.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea with 1 day of Observation with Quantity Quality estimated, Estimate Quality with E07 and 1 unknown metering point.
T00.09.P003.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with Quantity of 4.5.
T00.09.P004.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a NeighbourGridArea, with 1 Metering point, with 1 day of Observation period where the end of period ends at 23.45 and 95 QTYs.
T00.09.P005.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with 1 Metering point, with 1 day of Observation period with NeighbourGridArea which one of them is unknown.
T00.09.P006.1	MDR sends a UTILTS E66, 23, E23, DEA, 5 message without a NeighbourGridArea with 1 day of Observation with Quantity Quality estimated, Estimate Quality with E07 and 1 unknown metering point.
T00.09.P007.1	MDR sends a UTILTS E66, 23, E23, DEA, 5 message with 1 Metering point, with 1 day of Observation period with NeighbourGridArea which one of them is unknown.

### Message Test transactions

Test transaction	Purpose
T00.09.B029.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message without a LOC segment in a Transaction-block
T00.09.B031.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with duplicate metering points which is not expected
T00.09.B039.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message Observation period missing
T00.09.B051.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message MEA segment missing

T00.09.B074.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message where current time is summertime and observation period over change from winter to summertime
T00.09.B076.1	MDR sends a UTILTS E66, 23, E23, DEA, 9 message where current time is wintertime and observation period over change from summer to wintertime
T00.09.B101.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with a NeighbouringGridArea and there is in feed taking place
T00.09.B102.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with a NeighbouringGridArea and there is in feed and consumption taking place
T00.09.B103.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with meter and register
T00.09.B104.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with 1 Quantity Quality estimated with code E07
T00.09.B105.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with 1 Quantity Quality temporary
T00.09.B107.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with a one-hour resolution and 96 QTY's
T00.09.B108.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with LIN identifier 1
T00.09.B109.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message with 1 Quantity Quality temporary and an Estimate Quality with code E05
T00.09.B110.0	MDR sends a UTILTS E66, 23, E23, DEA, 5 message with a NeighbouringGridArea and there is in feed taking place
T00.09.B111.0	MDR sends a UTILTS E66, 23, E23, DEA, 5 message with 2 time series
T00.09.B112.0	MDR sends a UTILTS E66, 23, E23, DEA, 9 message for 2 time series with a NeighbouringGridArea and both in feed and consumption taking place

## 9.11 Plan: Delfor T for GRP

### Message Test transactions

Test transaction	Purpose
T15.04.B001.0	GRU sends a DELFOR-T program with the transport estimate for one Grid Connection Point.
T15.04.B002.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point.
T15.04.B003.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, in which all three Grid Connection Points supply to as well as take from the Grid.
T15.04.B004.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, in which quantity qualifier 26E is missing.
T15.04.B005.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, in which KW is replaced by KWH
T15.04.B006.0	GRU sends a DELFOR-T program with the transport estimate for three Grid

	Connection Point, in which periods of 15 minutes are taken instead of 1 hour.
T15.04.B007.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, for the day of the transition for the Winter- to Summertime.
T15.04.B008.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, for the day of the transition for the Summer- to Wintertime.
T15.04.B009.0	GRU sends a DELFOR-T program with the transport estimate for three Grid Connection Point, for the day of the transition for the Summer- to Wintertime. However the UTC-offset is incorrect.

## 9.12 Plan: Delfor TC for GRP

### Message Test transactions

Test transaction	Purpose
S16.04.B001.0	GRP sends a daily Delfor-TC, with 4 sink and 4 source locations (8 LIN segments)
S16.04.B002.0	GRP sends a daily Delfor-TC, with 4 sink and 4 source locations, with in feed during all periods at 1 location (4 LIN segments)
S16.04.B003.0	GRP sends a daily Delfor-TC, with 4 sink and 4 source locations, with consumption during all periods at 1 location (4 LIN segments)
S16.04.B004.0	GRP sends a monthly Delfor-TC, with 4 sink and 4 source locations (8 LIN segments)
S16.04.B005.0	GRP sends an annual Delfor-TC, with 4 sink and 4 source locations (8 LIN segments)

## 9.13 Move Out for MPA

### Message Test transactions

Test transaction	Purpose
T13.02.B001.0	BS sends a 432, 23, E01 message without proposed switch stands and with unknown reason description code (E04 instead of E03).
T13.02.B002.0	BS sends a 432, 23, E01 message without proposed switch stands and with MEP indication (TAX) added.
T13.02.B003.0	BS sends a 432, 23, E01 message with the segment that indicates if switch stands are to be expected (INP segment) missing
S13.02.B001.0	MPA sends a 406, 23, E01 confirmation message.
S13.02.B002.0	MPA sends a 406, 23 rejection message with reason metering point blocked for switch (E22).

## 9.14 Measure: MSCONS Green Certificate for REG

### Message Test transactions

Test transaction	Purpose
S20.09.B001.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for one Grid Connection Point.

S20.09.B002.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points.
S20.09.B003.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points. For the month in which the transition from summer to wintertime takes place.
S20.09.B004.0	REG sends a monthly MSCONS Green message to the SO including a Delivered Quantity and a Generated Quantity for four Grid Connection Points. For the month in which the transition from winter to summertime takes place.

## 9.15 Measure: MSCONS – MW for REG

### Message Test transactions (Full Version)

Test transaction	Purpose
S17.09.B001.0	REG sends a MSCONS MW message to the DP for one Grid Connection Point of the previous day with a period of 15 minutes.
S17.09.B002.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes.
S17.09.B003.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. The first Grid Connection Point feeds in and delivers in different amounts.

### Message Test transactions (Light Version)

Test transaction	Purpose
S17.09.B006.0	REG sends a MSCONS MW message to the DP for one Grid Connection Point of the previous day with a period of 15 minutes.
S17.09.B007.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes.
S17.09.B008.0	REG sends a MSCONS MW message to the DP for four Grid Connection Point of the previous day with a period of 15 minutes. The first Grid Connection Point feeds in and delivers in different amounts.

## 9.16 Measure: MSCONS-MCF for REG

### Message Test transactions (Light Version)

Test transaction	Purpose
S19.09.B001.0	REG sends a MSCONS-MCF to the PRC of one time serie for one Metering Grid Area.
S19.09.B002.0	REG sends a MSCONS-MCF to the PRC of one time series for one Metering Grid Area. On the day the time is set from winter to summertime.
S19.09.B003.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas.
S19.09.B004.0	REG sends a MSCONS-MCF to the SO of one time series for three Metering Grid Areas.

## 9.17 Settle: Reconciliation for MDA

### Process Tests transactions

Test transaction	Purpose
S22.09.P001.0	MDA sends a E24 message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>2 Metering Grid Areas</li> </ul> Per Metering Grid Area: <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Different Balance Suppliers</li> <li>1 Balance Supplier per MGA.</li> <li>Netloss</li> </ul>
Step 3:	MDA sends a E24 <b>update</b> message <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>2 Metering Grid Areas</li> </ul> Per Metering Grid Area: <ul style="list-style-type: none"> <li>Energy High and Low</li> <li>Different Balance Suppliers</li> <li>1 Balance Supplier per MGA.</li> <li>Netloss</li> </ul>
S22.09.P002.0	MDA send a E25 message with: <ul style="list-style-type: none"> <li>For the last 15 months</li> <li>2 Metering Grid Areas</li> </ul> Per Metering Grid Area: <ul style="list-style-type: none"> <li>Normal Tarff</li> <li>Netloss</li> <li>1 Balance Responsible Party</li> <li>Different Balance Responsible Party's for each MGA</li> </ul>

Step 3:	<p>MDA send a E25 <b>Update</b> message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tarff</li> <li>• Netloss</li> <li>• 1 Balance Responsible Party</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
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### Message Test Transactions

Test transaction	Purpose
S22.09.B001.0	<p>MDA sends a E24 message:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA</li> <li>• Netloss</li> </ul>
S22.09.B002.0	<p>MDA sends a E24 message:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>
S22.09.B003.0	<p>MDA sends a E24 message:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• The same Balance Suppliers in the message for all Metering Grid Areas.</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss</li> </ul>

S22.09.B004.0	<p>MDA sends a E24 message:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• No Netloss</li> </ul>
S22.09.B005.0	<p>MDA sends a E24 message:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Different Balance Suppliers</li> <li>• 1 Balance Supplier per MGA.</li> <li>• Netloss for 1 Metering Grid Area</li> </ul>
S22.09.B006.0	<p>MDA sends a E25 message containing:</p> <ul style="list-style-type: none"> <li>• The last 15 months</li> <li>• 4 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's per MGA</li> </ul>
S22.09.B007.0	<p>MDA sends a E25 message containing:</p> <ul style="list-style-type: none"> <li>• The last 15 months</li> <li>• 4 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's per MGA</li> </ul>
S22.09.B008.0	<p>MDA sends a E25 message containing:</p> <ul style="list-style-type: none"> <li>• The last 15 months</li> <li>• 4 Metering Grid Areas</li> </ul> <p>Per Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• The Same Balance Responsible Party's per MGA</li> </ul>

## 9.18 Measure: Request for Meter Data for MDA

### Process Test transactions

Test transaction	Purpose
S23.09.P001.0	MDA sends a UTILTS E73, E87, 9 for 1 MP with 1 Day of Observation and where the Type Of Metering Point is consumption and where the Metering Point is unknown.

### Message Test transactions

Test transaction	Purpose
S23.09.B002.0	MDA sends a UTILTS E73, E87, 9 for 1 MP with 1 Day of Observation and where the Start Period of the Observation is in Summertime and the End Period in Wintertime.

## 9.19 Settlement for MDA

### Process Test Transactions

Test transaction	Purpose
S21.09.P001.0	MDA sends a E31, E44, 9 to the Settlement Responsible Party for: <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area) for both Balance Responsible Party's</li> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul> And for both Metering Grid Areas: <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points"</li> </ul> (You will receive a Rejection on this file, but that's the purpose of the test)
S21.09.P002.0	MDA sends a E31, E44, 9 to the Settlement Responsible Party for: <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area) for both Balance Responsible Party's</li> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul> And for both Metering Grid Areas: <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points"</li> </ul> (You will receive a different Rejection on this file, but that's the purpose of the test)
S21.09.P003.0	MDA sends a E31, E44, 9 to the Settlement Responsible Party for: <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area) for both Balance Responsible Party's</li> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul> And for both Metering Grid Areas:

	<ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points"</li> </ul> <p>(You will receive a different Rejection on this file than the previous tests, but that's the purpose of the test)</p>
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### Message Test Transactions

Test transaction	Purpose
S21.09.B001.0	<p>MDA Sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area)</li> </ul> <p>for both Balance Responsible Party's</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul> <p>for both Metering Grid Areas:</p> <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points"</li> </ul>
S21.09.B002.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area)</li> </ul> <p>for both Balance Responsible Party's</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> </ul> <p>for 1 Balance Responsible Party:</p> <ul style="list-style-type: none"> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul> <p>for both Metering Grid Areas:</p> <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points"</li> </ul>
S21.09.B003.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area)</li> </ul> <p>for both Balance Responsible Party's</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> </ul> <p>for 1 Balance Responsible Party:</p> <ul style="list-style-type: none"> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul> <p>For both Metering Grid Areas:</p> <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> </ul>
S21.09.B004.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> <li>• calculated volume for profile category 1a, 1b and 3a</li> <li>• Netloss</li> <li>• Telemetry</li> </ul>

	<ul style="list-style-type: none"> <li>• Dimensions</li> <li>• MCF</li> </ul>
S21.09.B005.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> <li>• calculated volume for all profile categories</li> <li>• Netloss</li> <li>• Telemetry</li> <li>• Dimensions</li> <li>• MCF</li> </ul>

## 10. Netbeheerder (Gas)

### 10.1 Structure: Change Balance/Transport Capacity Responsible Party for MPA (Gas)

#### Process Test transactions

Test transaction	Purpose
T08.52.P001.0	BS sends a message with a UTILMD 392, 27, E68 to MPA

#### Message Test transactions

Test transaction	Purpose
T08.52.B001.0	BS sends a message with a UTILMD 392, 27, E68 with a Meter Reading Instruction (INP is optional) and a MP_Address (NAD+IT)
T08.52.B002.0	BS sends a message with a UTILMD 392, 27, E68 without a Meter Reading Instruction (INP is optional) but with a MP_Address (NAD+IT)
T08.52.B003.0	BS sends a message with a UTILMD 392, 27, E68 without a MP_Address (NAD+IT) but with a Meter Reading Instruction (INP is optional)
T08.52.B004.0	BS sends a message with a UTILMD 392, 27, E68 with a MP_Address (NAD+IT) without the postal code (postal code field is empty) but with country code
T08.52.B005.0	BS sends a message with a UTILMD 392, 27, E68 without the mandatory contract start date segment (DTM+92)
T08.52.B006.0	BS sends a message with a UTILMD 392, 27 with an invalid Reason for transaction (Answer code E55 instead of Transaction code E68)

### 10.2 Structure: Change of Metered Data Responsible for MPA

#### Process Test transactions

Test transaction	Purpose
T01.52.P001.0	MDR sends a message with a UTILMD 392, 27, E57
T01.52.P002.0	MDR sends a message with a UTILMD 392, 27, E57
T01.52.P004.0	MDR sends a message with a UTILMD 392, 27, E57 with contract start date in the past
T01.52.P005.0	MDR sends a message with a UTILMD 392, 27, E57 with an unknown 'metering point'

### Message Test transactions

Test transaction	Purpose
T01.52.B001.0	MDR sends a message with a UTILMD 392, 27, E57 with a 'contract start date' with an invalid format (CCYYMMDDhhmmm)
T01.52.B002.0	MDR sends a message with a UTILMD 392, 27, E57 with a 'contract end date' instead of a 'contract start date'
T01.52.B003.0	MDR sends a message with a UTILMD 392, 27, E57 without the 'NewMeteredDataResponsible' mentioned
T01.52.B004.0	MDR sends a message with a UTILMD 392, 27, E57 with LOC 3055 '19' mentioned
T01.52.B005.0	MDR sends a message with a UTILMD 392, 27, E57 with an invalid qualifier E01 for ReasonForTransactionCode
T01.52.B006.0	MDR sends a message with a UTILMD 392, 27, E57 with an approved transaction (STS C555 4405 is '39')
T01.52.B007.0	MDR sends a message with a UTILMD 392, 27, E57 with an invalid ReasonForTransactionCode E10 instead of E57
T01.52.B009.0	Send a UTILMD ERR, 27, E57 without the segment with the reference to the original message
T01.52.B010.0	Send a UTILMD ERR, 27, E57 without the segments for transactions
T01.52.B011.0	Send a UTILMD ERR, 27, E57 with an invalid error code E11 (instead of E10 or E47)
T01.52.B012.0	Send a UTILMD ERR, 27, E57 with reference qualifier MG (instead of TN)

## 10.3 Structure: Change of Supplier for MPA

### Message Test transactions

Test Transaction	Purpose
T12.52.B001.0	BS sends a 392, 27, E03 message without proposed switch stands and with unknown reason description code (E04 instead of E03).
T12.52.B002.0	BS sends a 392, 27, E03 message without proposed switch stands and with MEP indication (TAX) added.
T12.52.B003.0	BS sends a E30, 27, E03 message with QTY specified in 2 decimals.
T12.52.B004.0	BS sends a E30, 27, E03 message with a definitive meter stand (81 instead of 22/86/102).
T12.52.B005.0	BS sends a E30, 27, E03 message for 1 metering point, 1 register, origin of meter stand is E26.
T12.52.B006.0	BS sends a E30, 27, E03 message for 1 metering point, without registers and without origin of meter stand.
T12.52.B007.0	BS sends a E30, 27, E03 message for 1 metering point, with 1 register with register value 5.
S12.52.B003.0	MPA sends a 406, 27, E03 message.
S12.52.B001.0	MPA sends a 414, 27, E03 confirmation message.

S12.52.B002.0	MPA sends a 414, 27 rejection message with reason metering blocked for switch (E22).
S12.52.B004.0	MPA sends a E11, 27, E23 periodic message with Origin of Meter Stand is N03 and Type of Metering Point is Consumption.
S12.52.B005.0	MPA sends a E11, 27, E23 periodic message with authorized meter stand. Origin of Meter Stand is E26 and Type of Metering Point is Consumption
S12.52.B006.0	MPA sends a E11, 27, E03 switch message for 1 meter with negotiated meter stand. Origin of Meter Stand is N03 and Type of Metering Point is Consumption
S12.52.B007.0	MPA sends a E11, 27, E03 switch message for 1 meter with authorized meter stand. Origin of Meter Stand is E26 and Type of Metering Point is Consumption
S12.52.B008.0	MPA sends a E36, 27, E03 end of contract with reason supplier change.
S12.52.B009.0	MPA sends a E36, 27, E03 start of contract with reason supplier change.
S12.52.B010.0	MPA sends a E36, 27, E03 start of contract with reason supplier change, where message date is in wintertime and start of contract is in summertime.
S12.52.B011.0	MPA sends a E36, 27, E03 end of contract with reason supplier change, where message date is in summertime and end of contract is in wintertime.

## 10.4 Structure: Distribute Master Data Meter for GAP (Gas)

### Process Test Transactions

Test transaction	Purpose
S05.54.P001.0	GAP sends a message with a UTILMD E38, 27, E84

### Messages Test Transactions

Test transaction	Purpose
T05.54.B001.0	MA sends a UTILMD E08, 27, E84 with 1 'meetstraat' with 1 register
T05.54.B002.0	MA sends a UTILMD E08, 27, E84 with 2 'meetstraten' with 1 register each
T05.54.B003.0	MA sends a UTILMD E08, 27, E84 with 1 'meetstraat' with 2 registers
T05.54.B004.0	MA sends a UTILMD E08, 27, E84 with 2 'meetstraten' with 2 registers each
T05.54.B005.0	MA sends a UTILMD E08, 27, E84 with segment Meter, but without capacity
T05.54.B007.0	MA sends a UTILMD E08, 27, E84 with an invalid qualifier for CategoryMeasurementUnit
T05.54.B008.0	MA sends a UTILMD E08, 27, E84 with invalid reason for transaction (E85 instead of E84)
T05.54.B009.0	MA sends a UTILMD E08, 27, E84 with invalid G-value, G5 instead of G05
T05.54.B011.0	MA sends a UTILMD E08, 27, E84 with 2 'meetstraten' but with 1 register in the message
T05.54.B012.0	MA sends a UTILMD E08, 27, E84 with 2 registers with the same identifier
T05.54.B013.0	MA sends a UTILMD E08, 27, E84 with an extra SG9 CCI with a meter time frame (CCI E07)

## 10.5 Structure: Distribute Master Data Metering Point for MPA (Gas)

### Process Test transactions

Test transaction	Purpose
S06.52.P001.0	MPA sends a message with a UTILMD E07, 27, E32, with High Pressure to Balance Supplier (DDQ)
S06.52.P002.0	MPA sends a message with a UTILMD E07, 27, E32, with High Pressure to Transport Capacity Responsible Party (TCR)
S06.52.P003.0	MPA sends a message with a UTILMD E07, 27, E32 to Meter Data Responsible (Z05) without an EstimatedPeriodicConsumption Value
S06.52.P004.0	MPA sends a message with a UTILMD E07, 27, E32 for a single tariff Meter with an EstimatedPeriodicConsumption Value and a Contracted Capacity to Meter Data Responsible (Z05)
S06.52.P005.0	MPA sends a message with a UTILMD E07, 27, E32 with Grid Contract E03 to Meter Data Responsible (Z05)
S06.52.P006.0	MPA sends a message with a UTILMD E07, 27, E21 to Meter Data Responsible (Z05)
T06.52.P001.0	Balance Supplier sends a request with UTILMD E10, 27, E32
T06.52.P002.0	Balance Supplier sends a request with UTILMD E10, 27, E48

### Message Test transactions

Test transaction	Purpose
S06.52.B001.0	MPA Sends a UTILMD E07, 27, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .Where no Market Parties are indicated in the class MP_Party
S06.52.B002.0	MPA Sends a UTILMD E07, 27, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity .TypeOfMeteringPointCode is E17.
S06.52.B003.0	MPA Sends a UTILMD E07, 27, E32 for 1 Metering Point with Estimated Periodic Consumption Value and Contracted Capacity. PhysicalOrAdministrativeStatus_Code is E22.
T06.52.B001.0	Balance Supplier sends a request with UTILMD E10, 27, E32 without segments for a metering point
T06.52.B002.0	Balance Supplier sends a request with UTILMD E10, 27, E32 with two metering points (only one allowed)

## 10.6 Measure: Determine Switch Stand for GAP

### Process Test transactions

Test transaction	Purpose
T03.54.P001.0	MA sends a UTILTS E65, 27, E67 for 1 MP with 1 Register Observation with unknown Metering Point ID.
T04.54.P001.0	MA sends a UTILTS E65, 27, E60 for 1 MP with 1 Register Observation with unknown Metering Point ID

### Message Test transactions

Test transaction	Purpose
T03.54.B002.0	MA sends a UTILTS E65, 27, E67 with 1 MP, with 1 Volume Observation and 1 Register Observation.
T03.54.B006.0	MA sends a UTILTS E65, 27, E67 with 1 MP with 1 Register Observation, and without Volume Observation.
T04.54.B001.0	MA sends a UTILTS E65, 27, E60 for 1 MP with 1 Register Observation without a Register Stand.
T04.54.B002.0	MA sends a UTILTS E65, 27, E60 for 1 MP with 1 Register Observation with a Register Stand
T04.54.B003.0	MA sends a UTILTS E65, 27, E60 for 2 MP with 2 Register Observations and 2 Register Stands
T04.54.B005.0	MA sends a UTILTS E65, 27, E60 with 1 MP with Register Observation where StandOfOriginCode is E29

## 10.7 Structure: End of Metering for MPA (Gas)

### Process Test transactions

Test transaction	Purpose
T02.52.P001.0	MDR sends a message with a UTILMD 392, 27, E77
T02.52.P002.0	MDR sends a message with a UTILMD 392, 27, E77 where end date lies before the message date in the past

### Message Test transactions

Test transaction	Purpose
T02.52.B001.0	Send a UTILMD 392, 27, E77, with a party (a party is not allowed)
T02.52.B002.0	Send a UTILMD 392, 27, E77, with DEA instead of Z05 in NAD
T02.52.B003.0	Send a UTILMD 392, 27, E77, with 5 instead of 9 in BGM segment (=update)
T02.52.B004.0	Send a UTILMD 392, 27, E77, with start date instead of end date

## 10.8 Measure: Exchange validated metered data for billing, stands for GAP (Gas)

### Message Test transactions

Test transaction	Purpose
T07.54.B001.0	MDR sends a UTILTS E65, 27, E23, 9 with 1 Metering Point with Consumption and Capacity. It concerns 1 Meter with 1 Counter.
T07.54.B002.0	MDR sends a UTILTS E65, 27, E23, 9 with 1 Metering Point with Consumption. It concerns 1 Meter with 1 Counter. The Volume for the Validated Energy Volume is missing.
T07.54.B004.0	MDR sends a UTILTS E65, 27, E23, 9 with 1 Metering Point with Consumption. It concerns 1 Meter with 1 Counter. No RegisterID is included for the Energy Stand.
T07.54.B005.0	MDR sends a UTILTS E65, 27, E23, 9 with 1 Metering Point with Consumption. It concerns 1 Meter with 1 Counter. No MeterReadingDateTime is included for the Energy Stand.
T07.54.B006.0	MDR sends a UTILTS E65, 27, E23, 9 with 1 Metering Point with Consumption. It concerns 1 Meter with 1 Counter. The Volume is As Read (E01) instead of Normalized (E02)
T07.54.B007.0	MDR sends a UTILTS E65, 27, E23, 5 with 1 Metering Point with Consumption.

## 10.9 Measure: Exchange Validated Metered Data for Balance Management for MDA (Gas)

### Process Test transactions

Test transaction	Purpose
T00.57.P001.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message sequences not complete for observation period.
T00.57.P002.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea with 1 day of Observation with Quantity Quality estimated, Estimate Quality with E07 and 1 unknown metering point.
T00.57.P003.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with Quantity of 4.5.
T00.57.P004.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a NeighbourGridArea, with 1 Metering point, with 1 day of Observation period where the end of period ends at 23.45 and 95 QTYs.
T00.57.P005.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with 1 Metering point, with 1 day of Observation period with NeighbourGridArea which one of them is unknown.
T00.57.P006.1	MDR sends a UTILTS E66, 27, E23, DEA, 5 message without a NeighbourGridArea with 1 day of Observation with Quantity Quality estimated, Estimate Quality with E07 and 1 unknown metering point.
T00.57.P007.1	MDR sends a UTILTS E66, 27, E23, DEA, 5 message with 1 Metering point,

	with 1 day of Observation period with NeighbourGridArea which one of them is unknown.
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### Message Test transactions

Test transactions	Purpose
T00.57.B029.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a metering point
T00.57.B031.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with duplicate Metering point
T00.57.B039.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without a observation period
T00.57.B051.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message MEA segment missing
T00.57.B069.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message without correct sector code for gas
T00.57.B078.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message where current time is summertime and observation period over change from winter to summertime
T00.57.B080.1	MDR sends a UTILTS E66, 27, E23, DEA, 9 message where current time is wintertime and observation period over change from summer to wintertime
T00.57.B101.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with a NeighbourGridArea with Source "Markt party" and in feed taking place
T00.57.B102.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with a NeighbourGridArea and both in feed and consumption taking place
T00.57.B103.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with meter and register
T00.57.B104.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with 1 Quantity Quality estimated with code E07
T00.57.B105.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with 1 Quantity Quality temporary
T00.57.B107.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with a 15-minutes resolution and 24 QTY's
T00.57.B108.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with LIN identifier 1
T00.57.B109.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with rest volume
T00.57.B110.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with rest volume and Quantity qualifier is 136
T00.57.B111.0	MDR sends a UTILTS E66, 27, E23, DEA, 5 message with a NeighbourGridArea where in feed is taking place
T00.57.B112.0	MDR sends a UTILTS E66, 27, E23, DEA, 5 message with 2 time series
T00.57.B113.0	MDR sends a UTILTS E66, 27, E23, DEA, 9 message with 2 time series, with a NeighbourGridArea and both in feed and consumption taking place

## 10.10 Move Out for MPA (Gas)

### Message Test transactions

Test Transaction	Purpose
S13.52.B001.0	MPA sends a 406, 27, E01 confirmation message.
S13.52.B002.0	MPA sends a 406, 27 rejection message with reason metering point blocked for switch (E22).
T13.52.B001.0	BS sends a 432, 27, E01 message without proposed switch stands and with unknown reason description code (E04 instead of E03).
T13.52.B002.0	BS sends a 432, 27, E01 message without proposed switch stands and with MEP indication (TAX) added.
T13.52.B003.0	BS sends a 432, 27, E01 message with the segment that indicates if switch stands are to be expected (INP segment) missing

# 11. System Operator

## 11.1 Plan: Schedules DELFOR-E and DELFOR-V

### Process Test transactions

Test transaction	Purpose
T14.11.P001.0	PV sends a DELFOR-E program for 5 domestic Contract parties for one day.
T14.11.P002.0	PV sends a DELFOR-E program for 3 domestic Contract parties for one day, with one Contract party having energy imported from Germany.
T14.11.P003.0	PV sends a DELFOR-E program for 4 domestic Contract parties, with two Contract parties having energy imported from Belgium and exported to Germany.
T14.11.P004.0	PV sends a DELFOR-E program for 4 domestic Contract parties for one day. This day is the transition from Winter- to Summertime.
T14.11.P005.0	PV sends a DELFOR-E program for 4 domestic Contract parties for one day. This day is the transition from Summer- to Wintertime.
T14.11.P006.0	PV sends a DELFOR-E program for 3 domestic Contract parties for one day, with one Contract party having energy imported from Germany.
T14.11.P007.0	PV sends a DELFOR-E program without planned deliveries with other Contract parties.

### Message Test transactions

Test transaction	Purpose
T14.11.B001.0	PV sends a DELFOR-E program for 4 domestic Contract parties for one day. UNS Segment is missing.
T14.11.B002.0	PV sends a DELFOR-E program for 4 domestic Contract parties for one day, with the quantities specified in KW in stead of KWH
T14.11.B003.0	PV sends a DELFOR-E program for 4 domestic Contract parties for one day, with incorrect Control Total in UNT Segment.
T14.11.B004.0	PV sends a DELFOR-E program for 4 domestic Contract parties for one day, with incorrect date in UNB Segment. (for example 30-02-2006)
T14.11.B005.0	PV sends a DELFOR-E program for 4 domestic Contract parties for one day, with own EAN code used for one Contract Party.
T14.11.B006.0	PV sends a DELFOR-E program for 4 domestic Contract parties, with the planned day 10 days in the future.

## 11.2 Measure: MSCONS – MW

### Message Test transactions (Full Version)

Test transaction	Purpose
T17.11.B001.0	REG sends a MSCONS cumulated measures message to the SO for one Grid Connection Point of the previous day with a period of 15 minutes.
T17.11.B002.0	REG sends a MSCONS cumulated measures message to the SO for four Grid Connection Point of the previous day with a period of 15 minutes.
T17.11.B003.0	REG sends a MSCONS cumulated measures message to the SO for four Grid Connection Point of the previous day with a period of 15 minutes. And the control value is higher than the summation of the individual periods.
T17.11.B004.0	REG sends a MSCONS cumulated measures message to the SO for one Delivery Party of the previous day with a period of 5 minutes.
T17.11.B005.0	REG sends a MSCONS cumulated measures message to the SO for one Delivery Party of the previous day with a period of 15 minutes. The EAN code of the Delivery Party is not a valid EAN 13 code.

## 11.3 Measure: MSCONS-ONB

### Message Test transactions (Full Version)

Testtransaction	Purpose
S18.11.B001.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party.
S18.11.B002.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party including the transition from winter- to summertime
S18.11.B003.0	SO sends a MSCONS-ONB to the PRC of the previous day for one Delivery Party, with a correction for imbalance.
S18.11.B004.0	SO sends a detailed MSCONS-ONB to the PRC of the previous day for one Delivery Party.

## 11.4 Measure: MSCONS-MCF

### Message Test transactions (Light Version)

Test transaction	Purpose
T19.11.B001.0	REG sends a MSCONS-MCF to the PRC of one time serie for one Metering Grid Area.
T19.11.B002.0	REG sends a MSCONS-MCF to the PRC of two time series for one Metering Grid Area.
T19.11.B003.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas.
T19.11.B004.0	REG sends a MSCONS-MCF to the PRC of two time series for three Metering Grid Areas.
T19.11.B005.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas. The correction factor is specified in four decimals.

T19.11.B006.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas. And the complete QTY segment is missing.
T19.11.B007.0	REG sends a MSCONS-MCF to the PRC of one time serie for three Metering Grid Areas. And one time serie is not completed.

## 11.5 Settle: Reconciliation for RRP

### Process Test transactions

Test transaction	Purpose
T22.13.P001.0	MDA sends a E25 message: <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> For Each Metering Grid Area: <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss</li> <li>• 1 Balance Responsible Party</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
T22.13.P002.0	MDA sends a E25 message: <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> For Each Metering Grid Area: <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss</li> <li>• 1 Balance Responsible Party</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
T22.13.P003.0	MDA sends a E25 message: <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> For Each Metering Grid Area: <ul style="list-style-type: none"> <li>• Standard Tariff</li> <li>• Netloss</li> <li>• 1 Balance Responsible Party</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
T22.13.P004.0	MDA sends a E25 message: <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> For Each Metering Grid Area: <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss</li> <li>• 1 Balance Responsible Party</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>

T22.13.P005.0	<p>MDA sends a E25 message:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>For Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Standard Tariff</li> <li>• Netloss</li> <li>• 1 Balance Responsible Party</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul> <p>One Metering Grid Area is unknown</p>
T22.13.P006.0	<p>MDA sends a E25 message:</p> <ul style="list-style-type: none"> <li>• For the last 18 months</li> <li>• 2 Metering Grid Areas</li> </ul> <p>For Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Standard Tariff</li> <li>• Netloss</li> <li>• 1 Balance Responsible Party</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
S22.13.P007.0	<p>RRP sends a E26 message:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>For Each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul> <p>One Metering Grid Area is unknown.</p>

### Message Test transactions

Test transaction	Purpose
T22.13.B001.0	<p>MDA sends a E25 message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 4 Metering Grid Areas</li> </ul> <p>For each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>

T22.13.B002.0	<p>MDA sends a E25 message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 4 Metering Grid Areas</li> </ul> <p>For each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
T22.13.B003.0	<p>MDA sends a E25 message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>For each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
T22.13.B004.0	<p>MDA sends a E25 message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>For each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
T22.13.B005.0	<p>MDA sends a E25 message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>For each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
T22.13.B006.0	<p>MDA sends a E25 message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>For each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• No Netloss</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>

T22.13.B007.0	<p>MDA sends a E25 message with:</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>For each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> <li>• Netloss for One Metering Grid Area</li> <li>• 2 Balance Responsible Party's</li> <li>• Different Balance Responsible Party's for each MGA</li> </ul>
S22.12.B001.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul>
S22.12.B002.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 6 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul>
S22.12.B003.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the last 15 months</li> <li>• 3 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Normal Tariff</li> </ul>
S22.12.B004.0	<p>RRP sends a E26 message :</p> <ul style="list-style-type: none"> <li>• For the months January until April</li> <li>• 4 Metering Grid Areas</li> </ul> <p>for each Metering Grid Area:</p> <ul style="list-style-type: none"> <li>• Energy High and Low</li> </ul>

## 11.6 Regulating and Reserve Power

### Message Test transactions

Test transaction	Purpose
T11.11.B001.0	Supplier sends a QUOTES RRV message
T11.11.B002.0	Supplier sends a QUOTES RRV message with negative prices
T11.11.B003.0	Supplier sends a QUOTES RRV message QTY specified in 2 decimals
T11.11.B004.0	Supplier sends a QUOTES RRV message price specified in MAW
T11.11.B005.0	Supplier sends a QUOTES RRV message price specified in 1 decimal
T11.11.B006.0	Supplier sends a QUOTES RRV message without a separator
T11.11.B007.0	Supplier sends a QUOTES RRV message without a reference qualifier
T11.11.B008.0	Supplier sends a QUOTES RRV message with period over change from summer to wintertime
T11.11.B009.0	Supplier sends a QUOTES RRV message with period over change from winter to summertime

## 11.7 Bill: Sales Reports

### Message Test transactions

Testtransaction	Purpose
S09.11.B001.0	SO sends a correct SLSRPT message positive imbalance
S09.11.B002.0	SO sends a correct SLSRPT message negative imbalance
S09.11.B003.0	SO sends a correct SLSRPT message transfer capacity
S09.11.B004.0	SO sends a correct SLSRPT message RRV 'opregelen'
S09.11.B005.0	SO sends a correct SLSRPT message RRV 'afregelen'
S09.11.B006.0	SO sends a correct SLSRPT message positive imbalance, message date is day of change from summer to wintertime

## 11.8 Settlement for SRP

### Process Test Transactions

Test transaction	Purpose
T21.14.P001.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area)</li> </ul> <p>for both Balance Responsible Party's</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> </ul> <p>for both Metering Grid Areas:</p> <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points".</li> </ul> <p>1 Balance Responsible party is unknown.</p>
T21.14.P002.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area)</li> </ul> <p>for both Balance Responsible Party's</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> </ul> <p>for both Metering Grid Areas:</p> <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points".</li> </ul> <p>1 Metering Grid Area is unknown.</p>
T21.14.P003.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area)</li> </ul> <p>for both Balance Responsible Party's</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> </ul> <p>for both Metering Grid Areas:</p> <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points".</li> </ul>

## Message Test Transactions

Test transaction	Purpose
T21.14.B001.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 2 Balance Responsible Party's (both 1 different Metering Grid Area) for both Balance Responsible Party's</li> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul> <p>for both Metering Grid Areas:</p> <ul style="list-style-type: none"> <li>• Netloss</li> <li>• MCF</li> <li>• "Aggregated Rest of Continuously Metered Metering Points"</li> </ul>
T21.14.B002.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> <li>• calculated volume for profile category 1a, 1b and 3a</li> <li>• Netloss</li> <li>• Telemetry</li> <li>• Dimensions</li> <li>• MCF</li> </ul>
T21.14.B003.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> <li>• calculated volume for all profile categories</li> <li>• Netloss</li> <li>• Telemetry</li> <li>• Dimensions</li> <li>• MCF</li> </ul>
T21.14.B004.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq</math> 10 MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt;</math> 10MW. (Production MP <math>&lt;</math> 10MW)</li> </ul>

T21.14.B005.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> <li>• MCF</li> </ul>
T21.14.B006.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> <li>• MCF</li> </ul>
T21.14.B007.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> <li>• MCF</li> </ul>
T21.14.B008.0	<p>MDA sends a E31, E44, 9 to the Settlement Responsible Party for:</p> <ul style="list-style-type: none"> <li>• 1 Balance Responsible Party</li> </ul> <p>1 Metering Grid Area with:</p> <ul style="list-style-type: none"> <li>• 1 Production Metering point <math>\geq 10</math> MW</li> <li>• 1 Metering Point with Aggregated volumes for continuously read production <math>&lt; 10</math> MW. (Production MP <math>&lt; 10</math> MW)</li> <li>• MCF.</li> </ul>