



# UMIG III A Quarter hour measurements for digital meters EN

## V2.0

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## 1 Document Management

### 1.1 Version Management

Log Version:

<i>Version</i>	<i>Date</i>	<i>Author</i>	<i>Description</i>
V1.0	30/06/2020	Atrias & Fluvius	Initial document
V2.0	09/10/2020	Fluvius	Updates

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## 2 Context

### 2.1 Purpose

The purpose of this document is to elaborate the market processes which are needed to support the exchange of quarter hourly measurements of digital meters in Flanders.

### 2.2 Scope

In this document only the new processes or adaptations to existing MIG4 processes are described. Processes or information already described in the existing MIG4 documentation are not repeated.

High level this document contains a description of:

- The activation / deactivation of the communication of quarter hourly measurements
- The communication of quarter hourly measurements itself
- The impact on Settlement
- The impact on Billing (Gridfee)

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### 3 Structuring Scenarios

#### 3.1 Request Activation of 15' within an existing contract

##### 3.1.1 Definition / Scope

The activation of 15' is the change of a supply contract *without* communication of 15' measurements to a supply contract *with* communication of 15' measurements on request of the supplier/customer.

The communication of 15' measurements is the only change in the supply contract during the activation scenario. For example, no change of supplier and/or customer is allowed within this scenario.

##### 3.1.2 Prerequisites

Prerequisites for a request for activation of 15':

- the access point of the request is equipped with a digital meter capable of remote communication;
- the access point concerns electricity (gas is not in scope);
- the access point has a sufficiently simple configuration
  - *Configurations with one meter, only electricity and no compensation*
    - *For access points currently in compensation a switch to constraint commercialization has to be made first*
    - *Except for metered applications (Electric Vehicles or EV) (configuration with two meters)*
- the supplier submitting the request already has an active supply contract on the access point;
- the customer has given explicit consent to the supplier to activate the 15' measurements.

Note: the suppliers can verify which access points have digital meters capable of remote communication via the monthly snapshot as described in *UMIG III A Format Description Snapshot Smart Meter*. The SLP code can be found in the supplier snapshot.

##### 3.1.3 Process

High level, the activation scenario consists of the following steps:

1. The Supplier submits the request in the form of a *Rectification Request (Master Data)* to the Metering Point Administrator
2. The Metering Point Administrator communicates a *Rectification Registration* message
3. The Metering Point Administrator validates the request
4. If the request is validated, the following messages are communicated to the Supplier (but not necessarily always in this order):
  - a. A Positive *Rectification Closure (Master Data)* message, containing the effective start date of the communication of 15'
  - b. An *UTILMD (B04)* message (not technically linked to the rectification)
  - c. An *UTILTS (E11E24)* message, containing the Index + Volume needed to close the period before the activation of 15' (not technically linked to the rectification, but linked to the UTILMD message).
  - d. An *UTILTS (E11E25)* message, containing the Start Index for the new period. This message is linked to the UTILMD message.
5. If the request is not validated, a Negative *Rectification Closure (Master Data)* message is communicated to the Supplier.

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Details of these process steps can be found below.

### 3.1.3.1 Step 1: Rectification Request

The Supplier submits the request in the form of a *Rectification Request (Master Data)* to the Metering Point Administrator, following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

The essential information in this rectification request is:

- EAN-GSRN of the access point
- EAN-GLN of the Supplier
- Rectification code SR3
- Validity Date, which is the requested start date of the activation. The validity date can't be in the past. The validity date should be minimum 4 workdays in the future so the DGO can perform all necessary actions to activate 15' on the demanded date. The validity date can be any date, so does not have to be on the first day of the month.

### 3.1.3.2 Step 2: Rectification Registration

The Metering Point Administrator sends a Rectification Registration message following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

### 3.1.3.3 Step 3: Validation of the request

The Metering Point Administrator validates the request by checking that

- the access point is managed by the Metering Point Administrator;
- the access point is equipped with a digital meter capable of remote communication;
- the access point concerns electricity (gas is not in scope);
- the access point has a sufficiently simple configuration;
  - *Configurations with one meter (except for EV), only for electricity and no compensation are currently in scope*
- the supplier submitting the request already has an active supply contract on the access point;
- the validity date is minimum 4 workdays in the future
- 15' are inactive on validity date
- no other activation request exists for the same AP for the same validity date

### 3.1.3.4 Step 4a: Positive Rectification Closure

If the request is validated a Positive Rectification Closure (Master Data) message is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

This positive closure message contains the effective start date and a rectification code with extra info. The rectification code used in the STS segment will be B94 (and 36 for positive rectification closure). Extra info can be found in the free text field, which will be equal to "SMR3 activated".

### 3.1.3.5 Step 4b: UTILMD

Besides the communication of the positive closure message, an UTILMD message is communicated to the supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 17 Master Data Update by DGO*. This means the UTILMD is sent as a spontaneous master data update, and is not technically linked to the rectification process. This UTILMD message is sent with status code B04.

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The only changes in the master data as a consequence of the activation of 15' are the value of the *Standard Load Profile (SLP)* and the addition of the continuous registers needed for communication of 15'. All other master data remains unchanged.

The SLP is updated as follows:

SLP before activation of 15'	SLP after activation of 15'
S11	R11
S12	R12
S21	R21
S22	R22

If the SLP has code RXX, this means:

- Communication of 15' measurements is activated,
- 15' measurements are used in the Allocation calculation (see section [Settlement](#) for details)

The new registers are 1 or2 calculated continuous (E13) registers, one for the offtake (A+) and one for the injection (A-) measurements. In case of pure offtake, only the offtake (A+) register is present in the UTILMD.

### 3.1.3.6 Step 4c: UTILTS (E11E24)

An *UTILTS E11 Time Series Non Continuous Metering Message* is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II D Scenario 01 Metering Electriciteit*, containing the Index + Volume needed to close the period before the activation of 15' (i.e. including the gridfee of this period). The message has status code E24.

#### Step 4d: UTILTS (E11E25)

An *UTILTS E11 Time Series Non Continuous Metering Message* is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 17 Master Data Update by DGO*, containing the Start Indexes of the new period, linked to the UTILMD message that is also sent (see above).

### 3.1.3.7 Step 5: Negative Rectification Closure

If the request is not validated a *Negative Rectification Closure (Master Data)* message is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

The negative closure message contains a code and extra info with the reason for rejection. Again code B94 will be used (but now 95 for rejection). More info about the reason for rejection can be found in the free text field.

Following rejection reasons can be received in the free text field:

Check failed	Rejection Reason
The AP concerns electricity	The request is not possible. The access point is not an electricity point.
<b>The access point is equipped with a digital meter capable of remote communication</b>	The request is not possible. The access point does not belong to a smart meter configuration.
<b>The access point has a sufficiently simple configuration</b>	The request is not possible. The metering configuration does not allow 15' values.
<b>The supplier submitting the request already has an active supply contract on the access point</b>	The request is not possible. The supplier who requested the 15' switch is not the supplier on contract date.
<b>The validity date is minimum 4 workdays in the future</b>	The request is not possible. The <u>requested date</u> must be <u>at least 4 business days in the future</u>
<b>15' are inactive on validity date</b>	The request is not possible. 15' values are already activated for the access point on the given contract date.
No other activation request exists for the same AP for the same validity date	The request is not possible. An identical request is found for the access point and contract date.

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### 3.1.3.8 Cancellation

A cancellation of an activation can be done by the supplier who demanded the activation by requesting a deactivation for the same AP on the same validity date. As a result, the newly requested deactivation will cancel the running activation request (the supplier will receive a negative closure message with free text reason "Activation of 15' values has been cancelled."). Next the deactivation request will be closed with a positive closure message with free text reason "Cancellation successfully executed." Note that cancellation is no longer possible once the validity date of the request is less than 4 workdays in the future.

## 3.2 Request Activation of 15' on switch date

### 3.2.1 Definition / Scope

In contrast to the previous scenario, here the activation of 15' happens on the effective date of an ongoing switch.

The communication of 15' measurements is an additional change in the supply contract (next to the changes that already happen in the switch scenario). The present text focusses on the changes related to the activation of 15'. The normal switch scenarios are described in the existing UMIG 4.1 documentation.

This scenario can be used in the case when the 15' were not activated before the effective date of the switch, but also when the 15' were already activated before the effective date of the switch (to guarantee continuity in the 15').

### 3.2.2 Prerequisites

Prerequisites for a request for activation of 15' on switch date:

- the access point of the request is equipped with a digital meter capable of remote communication;
- the access point concerns electricity (gas is not in scope);
- the access point has a sufficiently simple configuration
  - *Configurations with one meter (except for EV), only electricity and no compensation*
    - *For access points currently in compensation a switch to constraint commercialization has to be made first*
- the customer has given explicit consent to the supplier to activate the 15' measurements.

Note: the suppliers can verify which access points have digital meters capable of remote communication via the monthly snapshot as described in *UMIG III A Format Description Snapshot Smart Meter*. The SLP code can be found in the supplier snapshot.

### 3.2.3 Process

High level, the activation scenario consists of the following steps:

1. The supplier submits a normal switch request which will be handled following the existing UMIG 4.1 scenarios.
2. In parallel with the switch request, the Supplier submits the request for activation of 15' in the form of a *Rectification Request (Master Data)* to the Metering Point Administrator
3. The Metering Point Administrator communicates a *Rectification Registration* message
4. The Metering Point Administrator validates the request
5. If the request is validated, the activation of 15' will be handled depending on the case:
  - a. If the 15' were not yet activated before the (requested) effective date of the switch, the following messages are communicated to the Supplier (the messages for activation will not necessarily always be sent in this order):

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- i. The messages of the switch scenario, following the existing UMIG 4.1 scenarios. The UTILMD message of the switch scenario will still contain the old SLP codes and no continuous registers and will be sent before the UTILMD of the activation process (containing the new Rxx SLP code and continuous registers);
  - ii. A Positive *Rectification Closure (Master Data)* message, containing the effective start date of the communication of 15’;
  - iii. An *UTILMD (B04)* message (not technically linked to the rectification). This UTILMD message will contain the new Rxx SLP code and the new continuous register(s);
  - iv. An *UTILTS (E11E25)* message, containing the StartIndex for the new period. No E11E24 is sent, because this was already covered by the switch scenario.
- b. If the 15’ were already activated before the (requested) effective date of the switch, the following messages are communicated to the Supplier (but not necessarily always in this order):
- i. The messages of the switch scenario, following the existing UMIG 4.1 scenarios. The UTILMD message of the switch scenario will already contain the new Rxx SLP code and the new continuous register(s);
  - ii. a *Negative Rectification Closure (Master Data)* message. Even though the activation request is in essence validated, the negative closure is sent because 15’ have already been activated within the switch scenario.
6. If the request is not validated, a Negative *Rectification Closure (Master Data)* message is communicated to the Supplier.

Details of the first process steps can be found below. For details about the messages we refer to the previous section.

### 3.2.3.1 Step 2: Rectification Request

The Supplier submits the request in the form of a *Rectification Request (Master Data)* to the Metering Point Administrator, following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

The essential information in this rectification request is:

- EAN-GSRN of the access point
- EAN-GLN of the Supplier
- Rectification code **SR4**
- Validity Date, which is the requested start date of the activation. The validity date has to be equal to the effective date of the existing switch scenario.
  - In case that 15’ were already activated in the period before the switch, the validity date can be in the past.
  - In case that 15’ were not yet activated in the period before the switch, the validity date should be minimum 4 workdays in the future so the DGO can perform all necessary actions to activate 15’ on the demanded date.

### 3.2.3.2 Step 3: Rectification Registration

The Metering Point Administrator sends a Rectification Registration message following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

### 3.2.3.3 Step 4: Validation of the request

The Metering Point Administrator validates the request by checking that

- the access point is managed by the Metering Point Administrator;

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- the access point is equipped with a digital meter capable of remote communication;
- the access point concerns electricity (gas is not in scope);
- the access point has a sufficiently simple configuration;
  - *Configurations with one meter (except for EV), only for electricity and no compensation are currently in scope.*
- the supplier submitting the request is the supplier (requester) of the ongoing switch scenario;
- the validity date is equal to the effective date of the ongoing switch scenario;
- the validity date:
  - Can be in the past, in case that 15' were already activated in the period before the switch
  - Should be minimum 4 workdays in the future, in case that 15' were not yet activated in the period before the effective date of the switch
- ...

#### 3.2.3.4 Step 4a: Positive Rectification Closure

If the request is validated a *Positive Rectification Closure (Master Data)* message is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

This positive closure message contains the effective start date and a rectification code and extra info. The effective start date will be equal to the requested validity date. The rectification code used in the STS segment will be B94 (and 36 for positive rectification closure). Extra info can be found in the free text field, which will be equal to “SMR3 activated”.

#### 3.2.3.5 Step 5: UTILMD and UTILTS

For a description of UTILMD and UTILTS messages see the previous section.

#### 3.2.3.6 Step 6: Negative Rectification Closure

If the request is not validated a *Negative Rectification Closure (Master Data)* message is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

The negative closure message contains a code and extra info with the reason for rejection. Again code B94 will be used (but now 95 for rejection). More info about the reason for rejection can be found in the free text field.

Following rejection reasons can be received:

Check failed	Rejection Reason
The AP concerns electricity	The request is not possible. The access point is not an electricity point.
The access point is equipped with a digital meter capable of remote communication	The request is not possible. The access point does not belong to a smart meter configuration.
The access point has a sufficiently simple configuration	The request is not possible. The metering configuration does not allow 15' values.
<b>The supplier submitting the request is the supplier (requester) of the ongoing switch scenario</b>	The request is not possible. The supplier who requested the 15' switch is not the supplier on contract date.
The validity date is minimum 4 workdays in the future	The request is not possible. The <u>requested date</u> must be <u>at least 4 business days in the future</u>
15' are inactive on validity date (activation in future)	The request is not possible. 15' values are already activated for the access point on the given contract date.
No other activation request exists for the same AP for the same validity date	The request is not possible. An identical request is found for the access point and contract date.
<b>The validity date is equal to the effective date of the ongoing switch scenario</b>	The request is not possible. No open scenario found on the contract date of the SR4 request.

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### 3.2.3.7 Cancellation

A cancellation of an activation can be done by the supplier who demanded the activation by requesting a deactivation for the same AP on the same validity date. As a result the newly requested deactivation will cancel the running activation request (the supplier will receive a negative closure message with free text reason “Activation of 15’ values has been cancelled.”). Next the deactivation request will be closed with a positive closure message with free text reason “Cancellation successfully executed.”). Note that cancellation is no longer possible once the validity date of the request is less than 4 workdays in the future.

In case of a cancellation of the switch, the activation request will be rejected as no running switch scenario will be found.

## 3.3 Request Deactivation

### 3.3.1 Definition / Scope

The requested deactivation of 15’ is the change of a supply contract *with* communication of 15’ measurements to a supply contract *without* communication of 15’ measurements following the explicit request of the supplier/customer.

The end of communication of 15’ measurements is the only change in the supply contract during the requested deactivation scenario. For example, no change of supplier and/or customer is allowed within this scenario.

### 3.3.2 Prerequisites

Prerequisite for a request for deactivation of 15’:

- the supplier submitting the request already has an active supply contract on the access point with 15’ measurements activated;

### 3.3.3 Process

High level, the requested deactivation scenario consists of the following steps:

1. The Supplier submits the request in the form of a *Rectification Request (Master Data)* to the Metering Point Administrator
2. The Metering Point Administrator communicates a *Rectification Registration* message
3. The Metering Point Administrator validates the request
4. If the request is validated, the following messages are communicated to the Supplier:
  - a Positive Rectification Closure (Master Data) message, containing the effective end date of the communication of 15’
  - b. An *UTILMD (B04)* message (not technically linked to the rectification)
  - c. An *UTILTS (E11E24)* message, containing the Index + Volume needed to close the period before the deactivation of 15’ (not technically linked to the rectification but to the UTILMD).
  - d. An *UTILTS (E11E25)* message, containing the StartIndex for the new period. This message is linked to the UTILMD message.
  - e. Note: if needed the missing 15’ of the period which is being closed are still sent
5. If the request is not validated, a Negative *Rectification Closure (Master Data)* message is communicated to the Supplier

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Details of these process steps can be found below.

### 3.3.3.1 Step 1: Rectification Request

The Supplier submits the request in the form of a *Rectification Request (Master Data)* to the Metering Point Administrator, following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

The essential information in this rectification request is:

- EAN-GSRN of the access point
- EAN-GLN of the Supplier
- Rectification code SR1
- Validity Date, which is the requested end date of the activation. The validity date should be minimum 4 workdays in the future so the DGO can perform all necessary actions to deactivate 15' on the demanded date. The validity date can be any date, so doesn't have to be on the first day of the month.

### 3.3.3.2 Step 2: Rectification Registration

The Metering Point Administrator sends a *Rectification Registration* message following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

### 3.3.3.3 Step 3: Validation of the request

The Metering Point Administrator validates the request by checking that

- the supplier submitting the request already has an active supply contract on the access point with 15' measurements activated;
- the validity date should be minimum 4 workdays in the future.
- no other deactivation request exists for the same AP for the same validity date

### 3.3.3.4 Step 4a: Positive Rectification Closure

If the request is validated a *Positive Rectification Closure (Master Data)* message is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*.

This positive closure message contains the effective end date and a rectification code with extra info. The rectification code used in the STS segment will be B94 (and 36 for positive rectification closure). Extra info can be found in the free text field, which will be equal to "SMR3 deactivated".

### 3.3.3.5 Step 4b: UTILMD

Besides the communication of the positive closure message, an *UTILMD* message is communicated to the supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 17 Master Data Update by DGO*. This means the UTILMD is sent as a spontaneous master data update, and is not technically linked to the rectification process. This UTILMD message is sent with status code B04.

The only changes in the master data as a consequence of the activation of 15' are the change of value of the *Standard Load Profile (SLP)* and the removal of the continuous register(s). All other master data remains unchanged. The SLP is updated as follows:

SLP before deactivation of 15'	SLP after deactivation of 15'
R11	S11
R12	S12
R21	S21
R22	S22

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### 3.3.3.6 Step 4c: UTILTS (E11E24)

An *UTILTS E11 Time Series Non Continuous Metering Message* message is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II D Scenario 01 Metering Electriciteit*, containing the Index + Volume needed to close the period before the deactivation of 15' (i.e. including the gridfee of this period). The message has status code E24.

### 3.3.3.7 Step 4d: UTILTS (E11E25)

An *UTILTS E11 Time Series Non Continuous Metering Message* is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 17 Master Data Update by DGO*, containing the Start Indexes of the new period, linked to the UTILMD message that is also sent (see above).

### 3.3.3.8 Step 4e: missing timeseries

Any 15' measurements which were still missing for the period that 15' were activated are still communicated, making sure that the activated period is fully covered by 15'.

### 3.3.3.9 Step 5: Negative Rectification Closure

If the request is not validated a *Negative Rectification Closure (Master Data)* message is communicated to the Supplier following the existing UMIG 4.1 market scenario described in *UMIG II A Scenario 30a MD Rectification – Structuring*. The negative closure message contains a code and extra info with the reason for rejection. Again code B94 will be used (but now 95 for rejection). More info about the reason for rejection can be found in the free text field.

Following rejection reasons can be received:

Check failed	Rejection Reason
<b>The supplier submitting the request already has an active supply contract on the access point with 15' measurements activated</b>	The request is not possible. The supplier who requested the 15' is not the supplier on contract date.
The validity date is minimum 4 workdays in the future	The request is not possible. The <u>requested date</u> must be <u>at least 4 business days in the future</u>
15' are inactive on validity date	The request is not possible. 15' values are already deactivated for the access point on the given contract date.
<b>No other deactivation request exists for the same AP for the same validity date</b>	The request is not possible. An identical request is found for the access point and contract date.

### 3.2.3.10 Cancellation

A cancellation of a deactivation can be done by the supplier who demanded the deactivation by requesting an activation for the same AP on the same validity date. As a result the newly requested activation will cancel the running deactivation request (the supplier will receive a negative closure message with free text reason "Deactivation of 15' values has been cancelled."). Next the activation request will be closed with a positive closure message with free text reason "Cancellation successfully executed."). Note that cancellation is no longer possible once the validity date of the request is less than 4 workdays in the future.

## 3.4 Spontaneous (De)Activation

### 3.4.1 Definition / Scope

A spontaneous activation or deactivation of the 15' measurements, is a (de)activation which was not specifically requested by the supplier.

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Spontaneous activation is triggered in the following cases: Not applicable

Spontaneous deactivation is triggered in the following cases:

- Market Scenario's which end the current contract (including 15') between supplier and customer (example: Supplier/customer/combined switch, drop, EOC, MOZA, Move Out).
  - The deactivation will occur on the ED of the market scenario
  - This means that in case of switches, the new contract after the switch has standard no 15' measurements
  - If the new supplier/customer wishes the 15' measurements to be activated, the process "Request Activation" should be followed.
- Market Scenario's which imply a change in the technical configuration of the access point (e.g. meter replacement, installation of local production, ...) in case the new technical configuration is not supported for 15' activation
- The meter installation is (no longer) capable of remote communication
  - Note: this should be an exceptional scenario. If a meter is not communicating, the DGO will do the necessary (technical action on site). Only if the problem persists for a longer time the meter will become uncapable.
- The DGO detects/suspects improper use of the 15' measurements
  - Note: this should be an exceptional scenario. Only in case the customer contacts the DGO, reporting improper use. In this case the DGO will investigate the case by contacting the impacted supplier. During the investigation period the 15' will be temporarily suspended and might be reactivated again if the case turns out to be unfounded. In case of reactivation the missing 15' timeseries from during the suspension period will be sent to the supplier.

#### 3.4.2 Process

Spontaneous deactivation can follow two possible processes:

1. In case of a Market Scenario which ends the current contract (including the 15'), no additional communication will be sent towards the supplier. Both UTILMD and UTILTS messages will be sent via the market scenario. Except in case of a customer switch, then E11E25 will be sent additionally.
2. In case of a deactivation where the contract between Supplier and customer is not ended, the deactivation of 15' is communicated to the supplier by:
  - a. An UTILMD (B04) message
  - b. An UTILTS message (E11E24 and E11E25), similar as for the request deactivation process.

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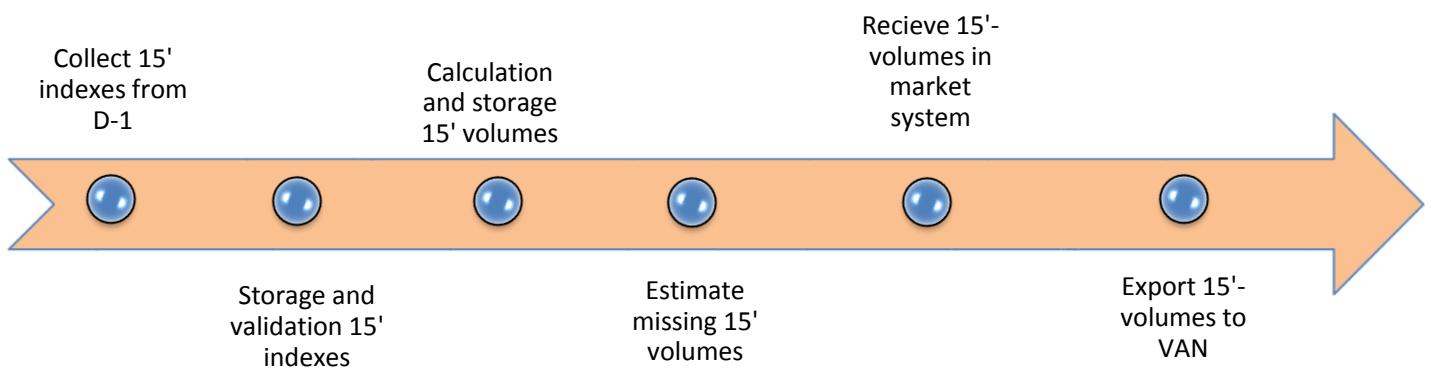
## 4 Measure

### 4.1 Exchange 15' measurements

#### 4.1.1 Prerequisites

- The service which collects, next to the daily indexes, also the 15'-indexes from the digital meter is activated after checking the business rules which are described in chapter 3.1.2
- After the activation, and based on the presence of local production or not, 1 or 2 new calculated registers (offtake/injection) for the timeseries are communicated via an UTILMD message.

#### 4.1.2 Process



- After activating the service, the 2 channels in the digital meter (offtake and injection) containing the 15'-indexes, are collected every day. The 15'-indexes are not collected per Time Of Use (HI/LO).
- The collected 15'-indexes, received from the digital meter, are technically validated.
- The collected 15'-indexes are used to calculate 15'-volumes which is the difference between two 15'-indexes. All further processes are using these 15'-volumes.
- Missing 15'-volumes are estimated on daily basis (see chapter 4.4.1).
- The 15'-volumes are used in the MIG4 settlement processes
- The 15'-volumes are exported every day:
  - o Timing: D+1 before EOD (+/- 23:00)
  - o Format: EDIEL (UTILTSE13) with exactly the same format and specifications as the E13 data, but delivered in separated files.
  - o Method: via VAN
  - o Unit: kW
- When updates of the 15'-indexes are received (for example when receiving the collected meter reads after the estimations), the existing 15'-volumes are always recalculated and exported.

### 4.2 Daily / Monthly / Yearly Indexes and Volumes

- 15'-volumes are not used to calculate daily, monthly or yearly volumes.

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- The metering frequency from the access point for which the collection of the 15'-indexes is activated remains "B18".
- The calculation of the yearly volumes linked to the periodic meter reading or volumes linked to structuring scenario's, are based on collected or estimated daily indexes.

The digital meter has 4 channels (A+ HI, A+ LO, A- HI, A- LO) each containing the daily index from 0u00. Every day, these indexes are collected and missing daily indexes are estimated (see chapter 4.4.2).

During the periodic meter reading period of each facturation month "M", the indexes from the first day of M+1 are used to calculate the yearly volume. For structuring scenario's, the indexes on effective day are used.

- The daily indexes and the 15'-indexes are collected from the same meter. So, the daily indexes from 0u00, used for yearly periodic volumes or structuring volumes, are equal to the 15'-indexes from 0u00. This means that an aggregation of the 15'-volumes, which is based on 15'-indexes, is equal to the volume based on the daily indexes.
- If the digital meter with MR3 activated will still use the regular time of uses (ex. TH, HiLo). In case of HiLo, the hours of the time of use are region specific. More information can be found on the DSO website (at the date of writing: <https://www.fluvius.be/nl/thema/aansluitingen/uren-van-het-dag-en-nachttarief>, section "Gezinnen en bedrijven met een tweevoudig uurtarief-meter").

#### 4.3 Rectification and updates

- Estimated 15'-volumes can be overwritten when receiving 15'-indexes which are collected from the meter at a later time.

In this case, the new 15'-indexes will be used to recalculate the existing 15'-volumes and these updated 15'-volumes are always exported to the market.

If these updated 15'-volumes are overlapping the period of an existing yearly periodic or a structuring volume that is calculated by using daily indexes, also a rectification of this volume will be exported. This volume will be consistent with the updated 15'-volumes.

- The DGO will monitor if any differences between the volumes and the aggregations of the 15'-volumes will appear. We do not expect these inconsistencies.

#### 4.4 Validation and Estimation

##### 4.4.1 15'-volumes

- *Validation:*
  - o The 15'-indexes, collected from the meter and used to calculate the 15'-volumes, are technically validated (Dail rollover, number of dails)
  - o No validation rules are executed on the calculated 15'-volumes
- *Estimation*
  - o Every day, before the export, the missing 15'-volumes from D-1 are estimated using an estimation method based on the volumes from multiple historical same days (Mondays, Tuesdays, ..) or like days (week or weekend).
  - o Afterwards, the estimated 15'-volumes are rescaled using the volumes based on the daily indexes. This results in a consistency between the volumes per day, per direction (Offtake and Injection) and per Time Of Use (HI and LO).

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#### 4.4.2 Daily indexes

- *Validation:*
  - o On top of the technical validation rules, also the following checks are executed on the daily indexes:
    - Unauthorized usage (offtake or injection on a disconnected meter)
    - Corrupt Usage (injection where no local production is declared).
    - High Usage (too much offtake compared to the installed power or too much injection in comparison with the power of the local production).
    - Flag based validation (events and errors coming from the meter).
  - o Afterwards, the validated daily indexes can be used to calculate the yearly volumes or structuring volumes. These volumes are validated using the same validation rules as the volumes calculated with indexes from non-digital meters. See UMIG II D Scenario 04 Validatieregels - Regles de validations
- *Estimation:*
  - o Every day, missing daily indexes from D-1 are estimated using an extrapolation method based on multiple historical same days (Mondays, Tuesdays, ..) or like days (week or weekend).
  - o When receiving a new index, the existing extrapolated indexes between this new index and the previous received index are overwritten by a new estimated indexes using the linear interpolation method.

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## 5 Settlement

### 5.1 Allocation

#### 5.1.1 Scope definition

As indicated in previous sections, scope is defined by means of the SLP property.

Settlement by means of SLP profile	Settlement by means of 15' values
S11	R11
S12	R12
S21	R21
S22	R22

At the moment of run execution, electricity access points that have one of 4 given Rxx codes corresponding to a timeslice that overlaps with given allocation month, will be allocated on 15' values with regards to that (these) corresponding timeslice(s).

#### 5.1.2 Supplier Snapshot (scenario 41; Snapshot Masterdata)

To maintain transparency with regards to scope definition towards market parties, the existing Supplier Snapshot market interface will indicate the situation in a monthly recurrence.

No information on time slicing is present within the interface, only current situation on snapshot timestamp is given.

ExV fields within the snapshot can hold values which correspond to only one volume type. Values for both gross offtake and - injection cannot be sent within the current interface file structure. There is no intention to change the interface, therefore the choice is made to send the ExV values corresponding to respectively; offtake (configurations E17 without DCP registered), compensated offtake (configurations E17 that have DCP registered), or injection (configurations with direction E18, pure injection).

In fact, no changes are implemented to the existing process and interface.

Example: In case of SLP code switching R12 > S12 on the 15<sup>th</sup> calendar day of month M, the supplier snapshot will mention S12 in its next month run (M+1).

#### 5.1.3 Infeed

For the scope treated by its 15' values and in the service "Constraint Commercialisation of Injection", the injection volumes will be included within the Infeed local production component.

#### 5.1.4 Allocation method

The scope will be treated via the RLP allocation method. No residue calculation nor RF correction will be executed on offtake measure volumes that correspond to the timeslices of this scope.

#### 5.1.5 Pre-allocation Portfolio

Scope of access points treated by 15' values, will be excluded from the monthly pre-allocation portfolio process and - messages.

Current preallocation process remains unchanged. Situation on timestamp of process execution is leading. Access points indicated with active 15' values treatment (Rxx codes) on this timestamp will be

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excluded.

#### 5.1.6 Monthly allocation

As mentioned before, indicated scope will be treated via the RLP allocation method. Allocation results with regards to this 15' values scope will be indicated within the monthly allocation messages by means of the corresponding Rxx SLP code property. These results will be visible as separate records.

Remark; Injection component of prosumer access points will be differentiated via portfolio fractions indicated with direction 'E18'.

#### 5.1.7 Allocation consistency checks

All of the current implemented consistency checks with regards to YMR/MMR scope will remain supported as-is. Consequence of this statement is that in particular the check C10 (ExV value) looks irrelevant with regards to timeslices that will be treated by 15' values, although there is decided to maintain the check as-is.

In addition to the existing checks, 1 particular check that is currently executed on E13 (AMR) scope, will be implemented also on YMR/MMR scope that has 15' values treatment active (timeslices with Rxx code);

Type controle – C21 Indien niet / Si pas: BCO Enkel wanneer de Leverancier gekend is – Seulement si le Fournisseur est connu.	
De meetwaarden zijn continu en zijn in overeenstemming met de Meteropname Frequentie	Y-a-t-il continuité des mesures et sont-elles en accord avec la Fréquence de relevé E13 ?

Ref; UMIG II E 4.1 Scenario 01 Settlement Electricity

The aim is to have the ability to communicate to market parties for which AP/timeslices no 15' measure data was taken into account within the allocation run, because of non-(complete) availability of measure data. In this case, no fallback via ExV is foreseen. Following the rationale of this context in MIG4.1, the AP is not taken in scope for the indicated timeslice and this will be visible via mentioned inconsistency feedback.

## 5.2 Reconciliation

#### 5.2.1 General approach

Given the assumption of the MIG6 GoLive timing in sept 2021, there will be only 2 recon runs of these 15' digital meters in MIG-4. Therefore, for these 2 months only, the impact on the reconciliation processes will be as described in the following paragraphs.

Impact on Reconciliation processes executed within MIG6 period, over scope months of the MIG4 period, is discussed in the document 'Atrias\_Transition\_Approach'.

With regards to the indication of 15' values treatment being active, timeslices (as defined by masterata / structure process) will be used, cfr current as-is.

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#### 5.2.2 Scope definition for Allocation history

Allocation portfolio combinations with regards to 15' allocation (indicated by their 4 respective Rxx codes), will be excluded from the allocation history data that will be handed over to the Reconciliation process.

Remark; these portfolio combinations only include 15' volumes with regards to the timeslices where the AP was indeed activated as 15'. Within a specific allocation month, the situation can occur that there also exist non-15' timeslices, or in other words, a certain AP can still have timeslices allocated by its ExV value in case 15' allocation was not active. In the latter case, these ExV values are still taken into account within the common YMR/MMR allocation portfolio combinations.

#### 5.2.3 Scope definition for Measure data

Measured consumption volumes and ExV data, corresponding to the 15' AP scope, will remain present within the Measure data handed over to the Reconciliation process. This will lead to the following impact:

- In case there are measured consumption volumes present for given allocation month; these volumes result to a VI volume and are added to the aggregated VIE through the existing process.
- In case there are no (sufficient) consumption volumes present to cover for given allocation month; the VE volume is calculated based on present ExV data, and consequently added to the aggregated VIE.
- Since the 15' data will not be included in the allocation history, a delta value which reflects (equals) the 15' scope being present within the aggregated VIE, will be included within the recon volume for the corresponding month.

The resulting delta volume can easily be quantified by means of the corresponding 15' allocation portfolio combinations; these should be integrated within the recon volume evaluation of the impacted months.

With regards to MIG6; more details can be found in [Atrias\\_Transition\\_Approach\\_vX.Y\\_NL\\_FR](#).

### 5.3 Settlement summary

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15' values AP scope	Pure offtake	Pure injection	Commercialisation injection	Constraint commercialisation injection	
Supply Contract	A	A	A	B	A
AP EAN ID	X	X	X		X
Direction of the AP	E17 From the grid	E18 To the grid	E17 From the grid		E17 From the grid
<b>Gridfee</b>					
INVOIC Advance	ASIS MIG4 process -- No changes. Calculation on EAV per TF / tariff structures				
INVOIC Final Payments	ASIS MIG4 process -- No changes. Calculation on measure volumes per TF / tariff structures (remark *)				
<b>Measure Interface</b>					
UTIL-TS (VAN)	MA+	MA-	MA+	MA+	MA- **
TimeSeries (VAN)	MA+ 15'	MA- 15'	MA+ 15'	MA+ 15'	MA- 15'
<b>Settle</b>					
Measure ExV on	MA+	MA-	MA+	MA+	MA- **
Supplier Snapshot ExV on	MA+	MA-	MA+	CMA+	not present ***
Portfolio	Not present. DM 15' scope excluded from the allocation portfolio				
Monthly Allocation (aggreg 15')	MA+ 15'	MA- 15'	MA+ 15'	MA+ 15'	MA- 15'
VI	DM 15' scope excluded from allocation history for the remaining MIG4 period.  Measured consumptions & ExV data remains available to Reconciliation.  Recon Volume				
VE					
Recon Volume					

\* In case of Tariff split > ending tariff slice will be closed by index and invoice

\*\* MA- volumes and their ExV are included within Measure interface

\*\*\* No change to the msg format of the snapshot. EAV for MA- not present for Constr. Commerc. within remaining MIG4 period

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## 6 Gridfee

The gridfee will be based on MA+ and a datafee ("Meet- & telvergoeding") will be applied.

Gridfee advances will be calculated based on the EAV of MA+.

In case of changes to the tariff, the index of the meter, on the date of the tariff-change, will be used to bill the volume during the period of the old tariff; and to act as start index for a new volume in the new tariff period. The volumes related to the old tariff period will be sent as "ad hoc meterreads" (E11B95) and the bills will be taken into account in the next billing run for invoicing.