

Sample messages Allocatie 2.0 – tranche 2 services

Exchange allocation data electricity (AllocationSeries, AggregatedAllocationSeries, and AllocationFactorSeriesNotification)

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electricity allocation data

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Document management

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0.2	21-03-2022	Review version 0.1 processed and AggregatedAllocationSeries defined	EDSN
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Version	Dissemination date	Receivers
0.1	07-03-2022	EDSN internal
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Referenced documents

No.	Description	Version	Date	Author
1.	BRS Allocatiegegevens	1.0	16 December 2021	NEDU WG C1
2.	NEDU/EDSN Design choices	3.9	15 April 2021	NEDU/EDSN
3.	XSD AllocationSeriesNotification	1.0.0	16 December 2021	NEDU
4.	XSD AllocationSeriesAcknowledgment	1.0.0	16 December 2021	NEDU
5.	XSD AggregatedAllocationSeriesNotification	1.0.0	16 December 2021	NEDU
6.	XSD AggregatedAllocationSeriesAcknowledgment	1.0.0	16 December 2021	NEDU
7.	XSD AllocationFactorSeriesNotification	1.0.0	16 December 2021	NEDU
8.	XSD AllocationFactorSeriesAcknowledgment	1.0.0	16 December 2021	NEDU
9.	SD030 – Business Service – Uitwisselen allocatiegegevens elektriciteit	1.0	16 December 2021	EDSN Business Integration
10.	Technical Guide – Measurements and Allocation Documents	1.0	31 March 2021	TenneT

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1 Introduction

1.1 Purpose of the document

The Business Requisition Specification (BRS, ref. [1]) describes the various information exchanges for time series of electricity allocation data. This BRS forms the blueprint for further developing and aligning the message definitions with the delegations of DSO, TSO, MRP and BRP.

The message definitions are described in the service descriptions and supplied for information purposes (service descriptions) and identification (XSD's) together with the XML Diagram Definitions (XSD's). To further clarify the XSD's, sample messages have been developed in this document for various possible information exchange scenarios for the "electricity allocation data" business service. This has been done to support realization and coordination with the involved parties.

1.2 Approach

Each sample message is defined to ensure relevant information exchange scenarios that support the business service. The "Exchange of electricity allocation data" business service is used to exchange information about individual allocation points, aggregated allocation data and the time series for the Residual volume Correction Factor (RCF).

The mentioned business service describes information exchange scenarios for the following **individual allocation points**:

- Allocations point with allocation method telemetry (TMT);
- Net loss allocation points with allocation method telemetry (TMT);
- Dimensioned allocation points with allocation method telemetry (TMT).

The business service also contains information exchange scenarios for the following **aggregated allocation data**:

- Allocation points with allocation method telemetry (TMT);
- Allocation points with allocation method smart meter allocation (SMA);
- Allocation points with allocation method profile (PRF);
- Net loss allocation points with allocation method telemetry (TMT);
- Dimensioned allocation points with allocation method telemetry (TMT);

The time series for aggregated allocation data of dimensioned allocation points and grid loss allocation points are exchanged separately and are thus not included in the aggregated allocation data for allocation points with allocation method telemetry.

In addition, the business service describes the information exchange scenarios for **the Time Series for Residual volume Correction Factor (RCF) and Profile fractions**.

Specific information exchange scenarios (and specific sample messages) apply for each source. One or more sample messages are defined for each combination of source and scenario. The XSD in question is used as a

starting point where, when describing the business service (ref. [5]), the use case descriptions from the BRS are used in combination to determine representative sample values for the information exchange scenario. In addition, public websites are also used.

1.3 List of abbreviations

Abbreviation	Description
TSO	Transmission System Operator
MRP	Metering Responsible Party
BRP	Balance Responsible Party
DSO	Distribution System Operator

1.4 Disclaimer

The terms of this disclaimer apply to the sample messages for AllocationSeries, AggregatedAllocationSeries, and AllocationFactorSeriesNotification.

Although the sample messages were compiled with care based on the determined message definitions/BRS/service description, the sample messages are not leading for the AllocationSeries, AggregatedAllocationSeries, and AllocationFactorSeriesNotification messages. If there are contradictions between these sample messages and message definitions/BRS/Service Description, the message definitions/BRS/Service Description will prevail.

2 Information exchange scenarios

2.1 Introduction

The following paragraphs provide an overview - per allocation point, connection or coupling point - of relevant information exchange scenarios with a reference to the use case in the BRS. The following chapter defines one or more sample messages for each scenario. No examples have been defined for the acknowledgement messages; they will be added in one of the following versions.

2.2 Allocation electricity data per individual allocation point

2.2.1 Allocation points with allocation method telemetry (TMT)

A20.201	Distribute allocation data TMT to BRP
A20.211	Distribute allocation data TMT to TSO

2.2.2 Net loss allocation point with allocation method telemetry (TMT)

A20.204	Distribute allocation data NVL to BRP

2.2.3 Dimensioned allocation point with allocation method telemetry (TMT)

A20.205	Distribute allocation data DIM to BRP

2.3 Aggregated allocation data

2.3.1 Aggregated allocation location data for allocation points with telemetry allocation method (TMT)

A20.201	Distribute allocation data TMT to BRP
A20.211	Distribute allocation data TMT to TSO

2.3.2 Aggregated allocation data for allocation points with allocation method smart meter allocation (SMA)

A20.202	Distribute allocation data SMA to BRP
A20.212	Distribute allocation SMA to TSO

2.3.3 Aggregated allocation data for allocation points with profile allocation method (PRF)

A20.203	Distribute allocation data PRF to BRP
A20.213	Distribute allocation data PRF to TSO

2.3.4 Aggregated allocation data for grid loss allocation points with telemetry allocation method (TMT)

A20.204	Distribute allocation data NVL to BRP
A20.214	Distribute allocation data NVL to TSO

2.3.5 Aggregated allocation data for dimensioned allocation points with telemetry allocation method (TMT)

A20.205	Distribute allocation data DIM to BRP
A20.215	Distribute allocation data DIM to TSO

2.4 Time series for Residual volume Correction Factor (RCF) and Profile fractions

A20.206	Distribute RCF to BRP
A20.207	Distribute profile fractions to BRP
A20.216	Distribute RCF to TSO
A20.217	Distribute profile fractions to TSO

3 Sample messages allocation data per individual allocation point

3.1 UC A20.201 – Distribute allocation data TMT to BRP

File	AllocationSeriesNotification-SOAP-a20.201.xml
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3.1.1 Note

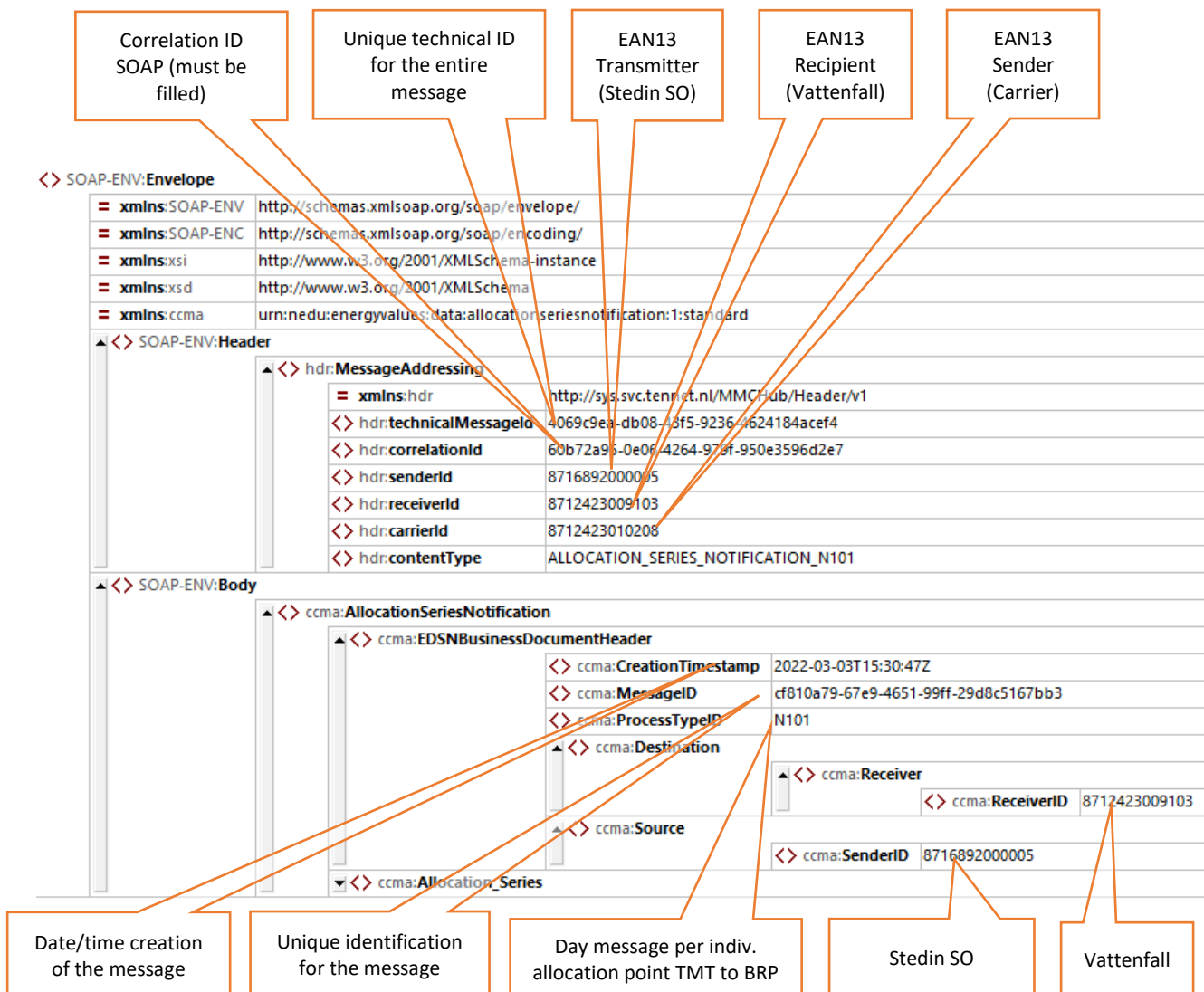
This sample message concerns the daily message with allocation data electricity TMT which is sent to the BRP for the concerned individual allocation point where Stedin is the DSO.

The message contains the active energy exchanged with the net per imbalance period for the allocation point.

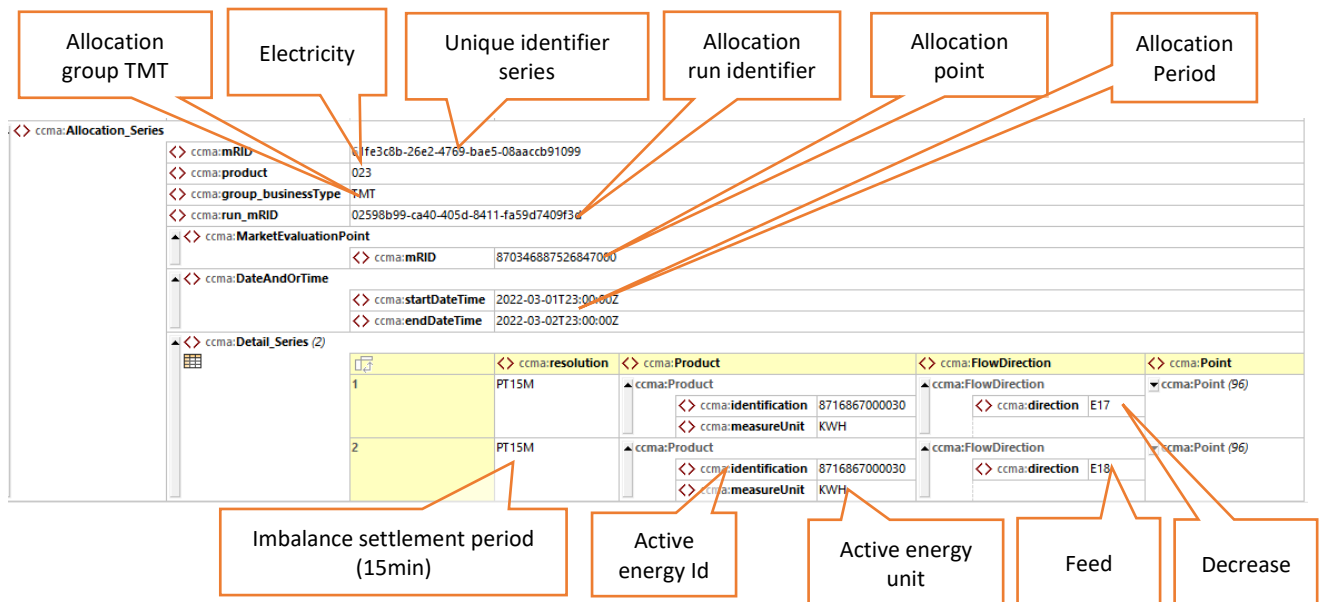
The following table summarizes the main principles:

Creation date/time of the message	2022-03-03T15:30:47Z
ProcessTypeID	N101: Daily message "allocation data per individual allocation point (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Vattenfall (EAN: 8712423009103)
Allocation group	TMT
Allocation point	EAN: 870346887526847000 (fictive TMT allocation point)
Period from	2022-03-01T23:00:00Z
Period until	2022-03-02T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

3.1.2 Schematic diagram full message



3.1.3 Schematic diagram Allocation_Series



3.1.4 Schematic diagram Point - Consumption

ccma:Point (96)				
	Position	Energy	Measured	Validation Status
	<> ccma:position	<> ccma:quantity	<> ccma:origin	<> ccma:validationStatus
1	1	235.849	MSR	VLD
2	2	799.506	MSR	VLD
3	3	232.368	MSR	VLD
4	4	465.961	MSR	VLD
5	5	787.137	MSR	VLD

3.1.5 Schematic diagram Point – Feed-in

	Position	Energy	Measured	Validation Status
ccma:Point (96)	<> ccma:position	<> ccma:quantity	<> ccma:origin	<> ccma:validationStatus
1	1	57.748	MSR	VLD
2	2	79.665	MSR	VLD
3	3	133.483	MSR	VLD
4	4	94.793	MSR	VLD
5	5	105.230	MSR	VLD

3.2 UC A20.211 – Distribute allocation data TMT to TSO

File	AllocationSeriesNotification-SOAP-a20.211.xml
------	---

3.2.1 Note

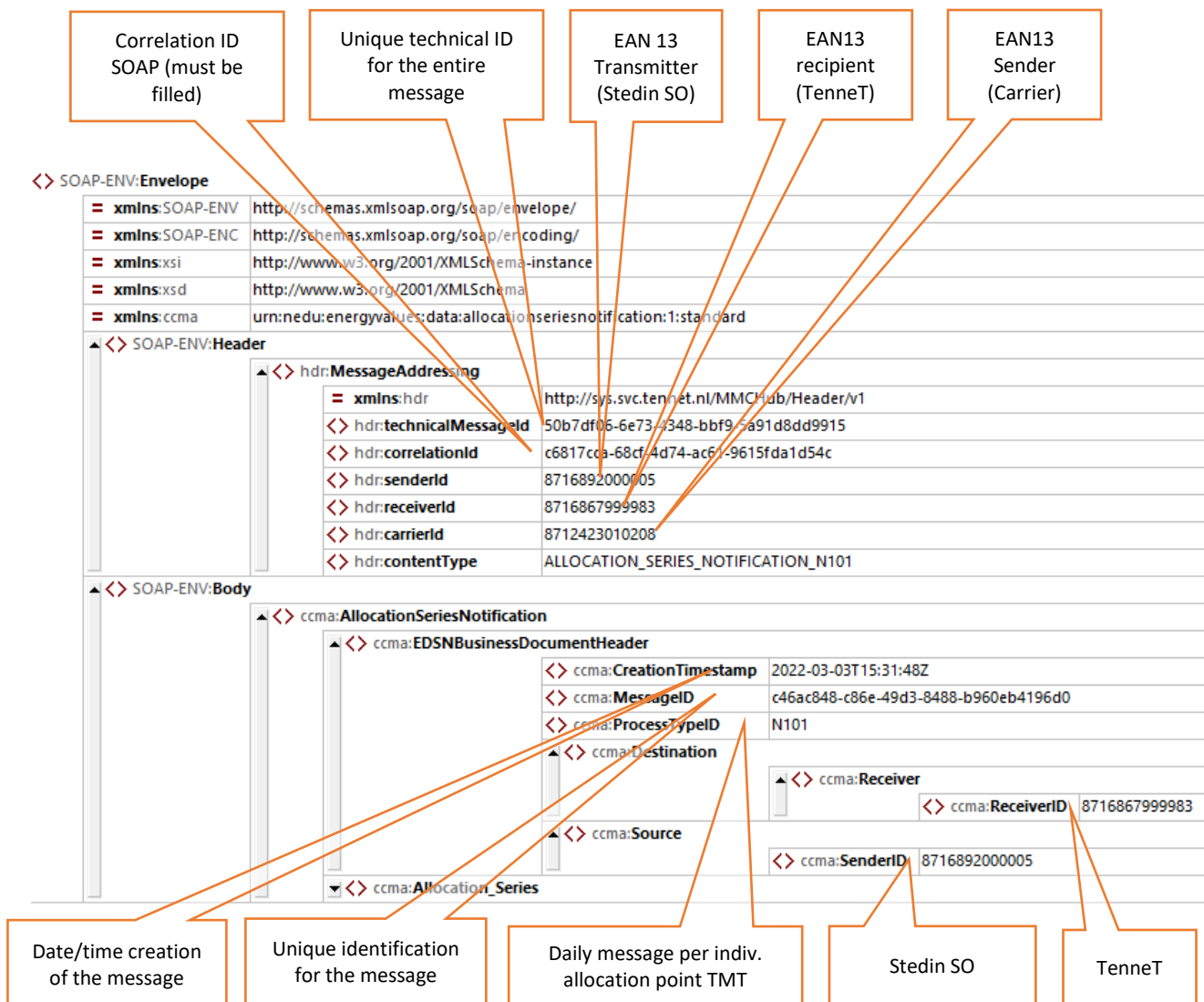
This sample message concerns the daily message with allocation data electricity for the allocation group TMT that is sent to the TSO, where Stedin is the DSO.

The message contains the active energy exchanged with the net per imbalance period for the allocation point.

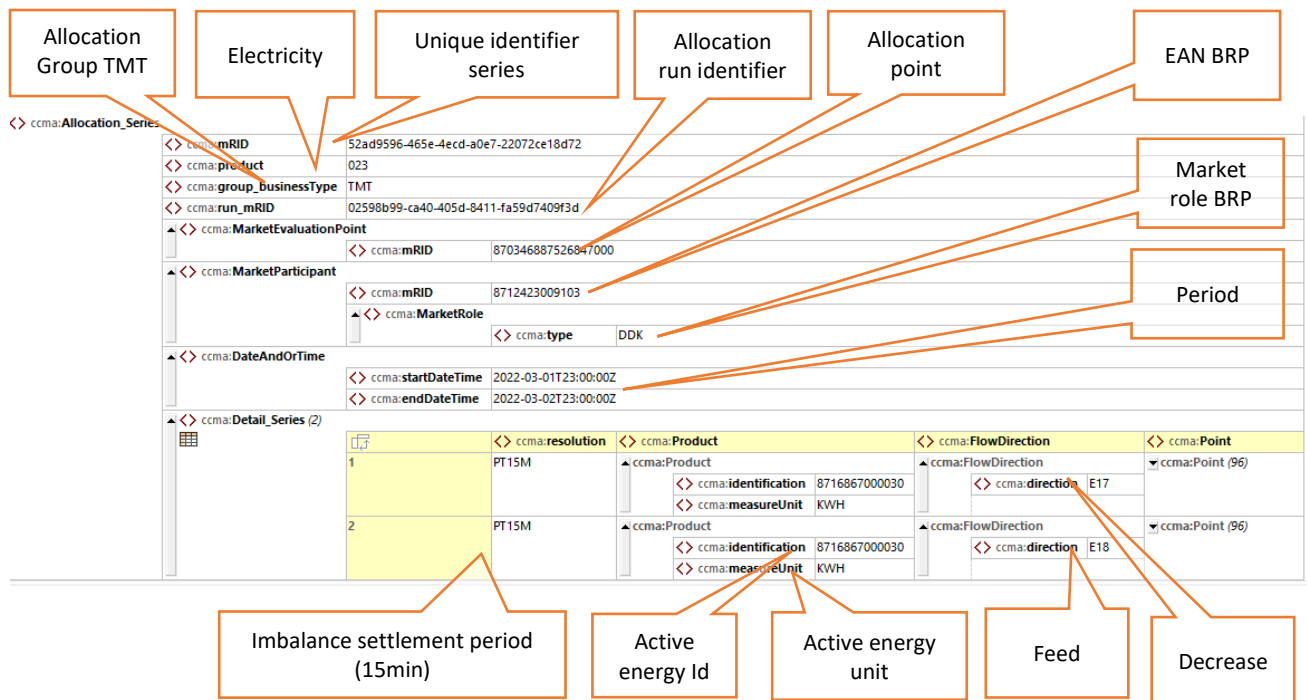
The following table summarizes the main principles:

Creation date/time of the message	2022-03-03T15:31:48Z
ProcessTypeID	N101: Daily message "allocation data per individual allocation point (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	TenneT (EAN: 8716867999983)
Allocation group	TMT
BRP	Vattenfall (EAN: 8712423009103)
Allocation point	EAN: 870346887526847000 (fictive TMT allocation point)
Period from	2022-03-01T23:00:00Z
Period until	2022-03-02T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

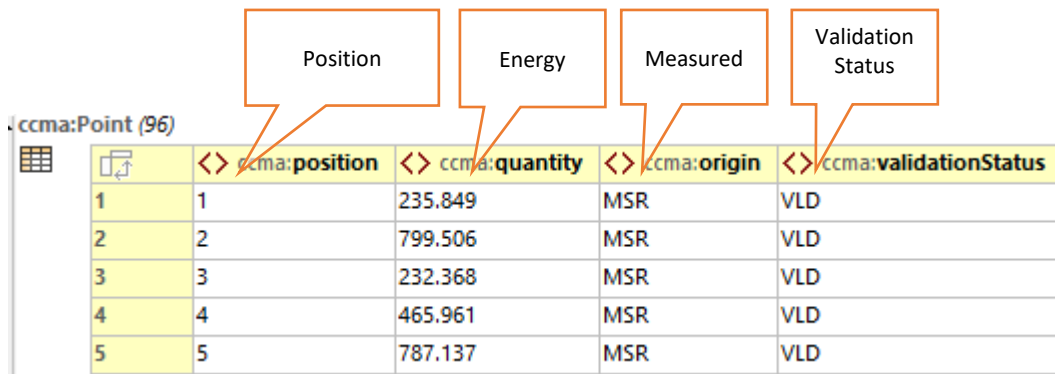
3.2.2 Schematic diagram full message



3.2.3 Schematic diagram Allocation_Series



3.2.4 Schematic diagram Point - Consumption



Position

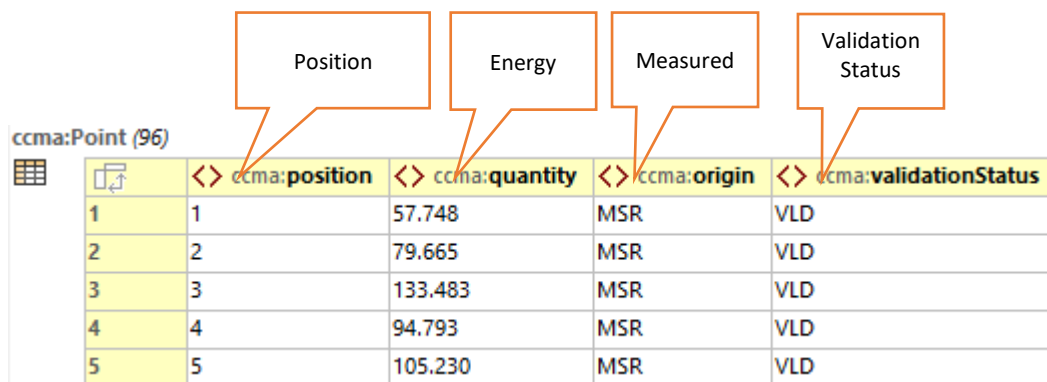
Energy

Measured

Validation Status

<> ccma:Point (96)				
	<> ccma:position	<> ccma:quantity	<> ccma:origin	<> ccma:validationStatus
1	1	235.849	MSR	VLD
2	2	799.506	MSR	VLD
3	3	232.368	MSR	VLD
4	4	465.961	MSR	VLD
5	5	787.137	MSR	VLD

3.2.5 Schematic diagram Point – Feed-in



Position

Energy

Measured

Validation Status

<> ccma:Point (96)				
	<> ccma:position	<> ccma:quantity	<> ccma:origin	<> ccma:validationStatus
1	1	57.748	MSR	VLD
2	2	79.665	MSR	VLD
3	3	133.483	MSR	VLD
4	4	94.793	MSR	VLD
5	5	105.230	MSR	VLD

3.3 UC A20.204 – Distribute allocation data NVL to BRP

File	AllocationSeriesNotification-SOAP-a20.204.xml
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3.3.1 Note

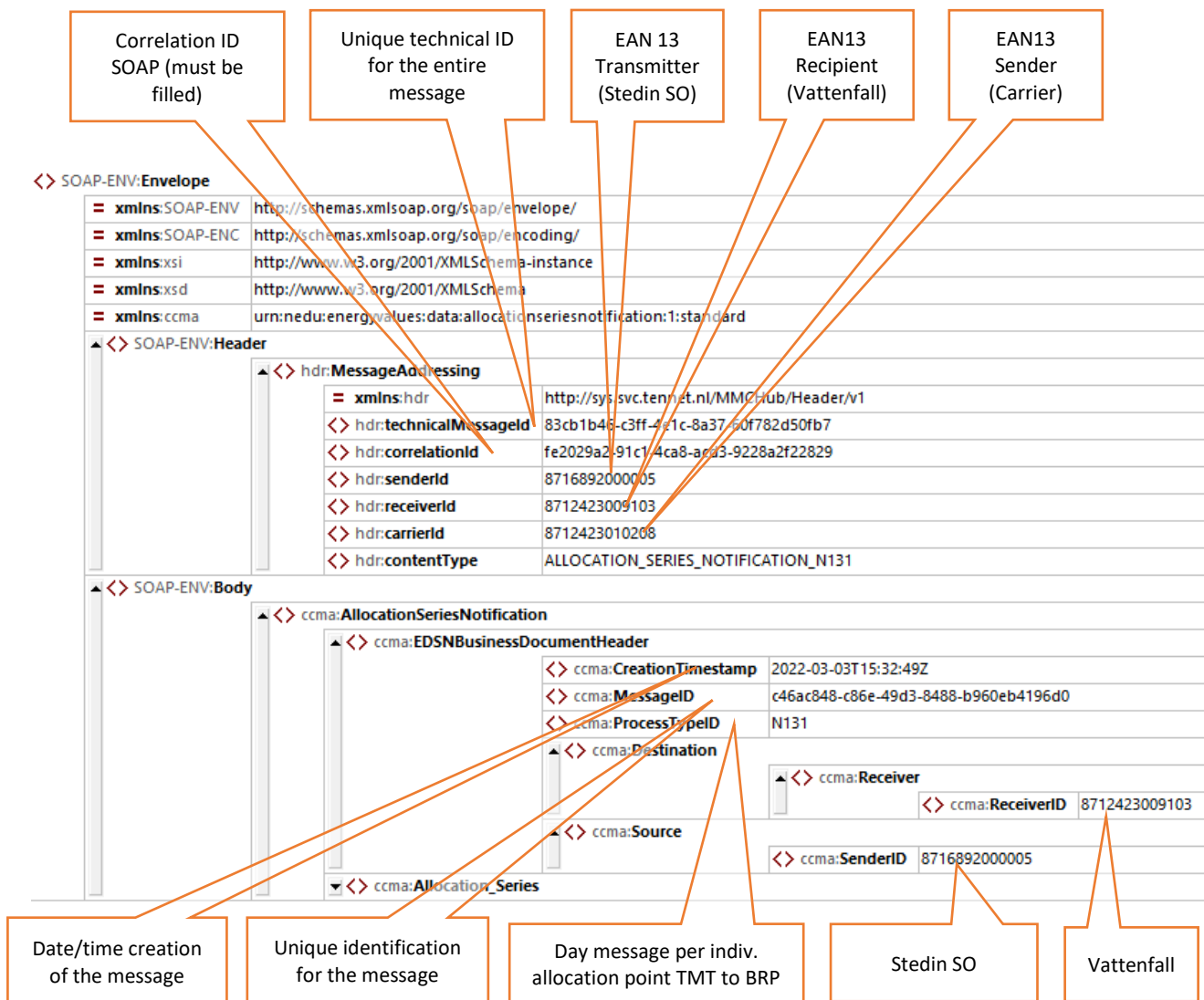
This sample message is the daily message containing the allocation data electricity NVL that is sent to the BRP per individual allocation point, where Stedin is the DSO.

The message contains the active grid loss energy that applies to the exchange of energy with the net per imbalance settlement period for the allocation point.

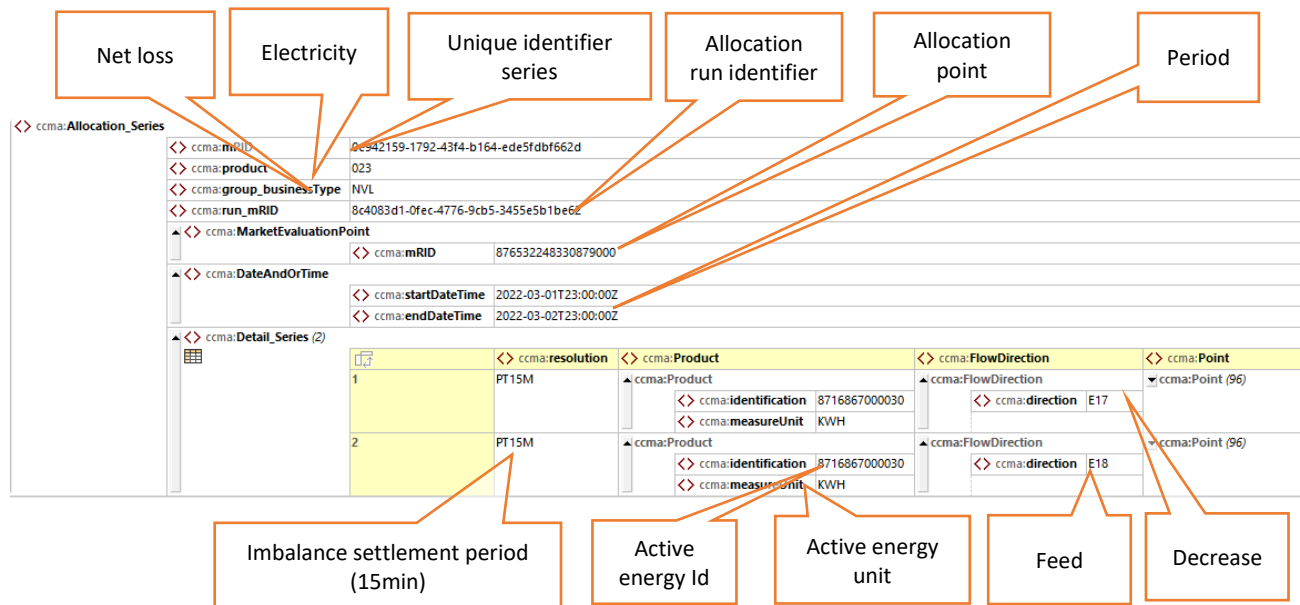
The following table summarizes the main principles:

Creation date/time of the message	2022-03-03T15:32:49Z
ProcessTypeID	N131: Daily message "allocation data per individual net loss allocation point (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Vattenfall (EAN: 8712423009103)
Allocation group	NVL
Allocation point	EAN: 876532248330879000 (fictive NVL allocation point)
Period from	2022-03-01T23:00:00Z
Period until	2022-03-02T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

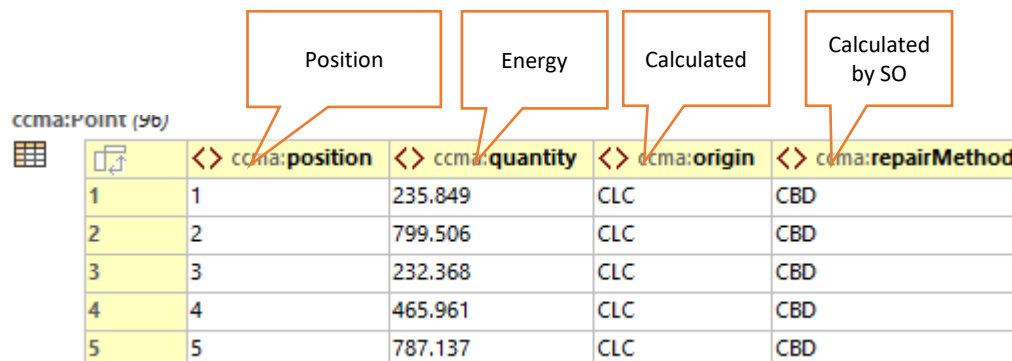
3.3.2 Schematic diagram full message



3.3.3 Schematic diagram Allocation_Series



3.3.4 Schematic diagram Point - Consumption



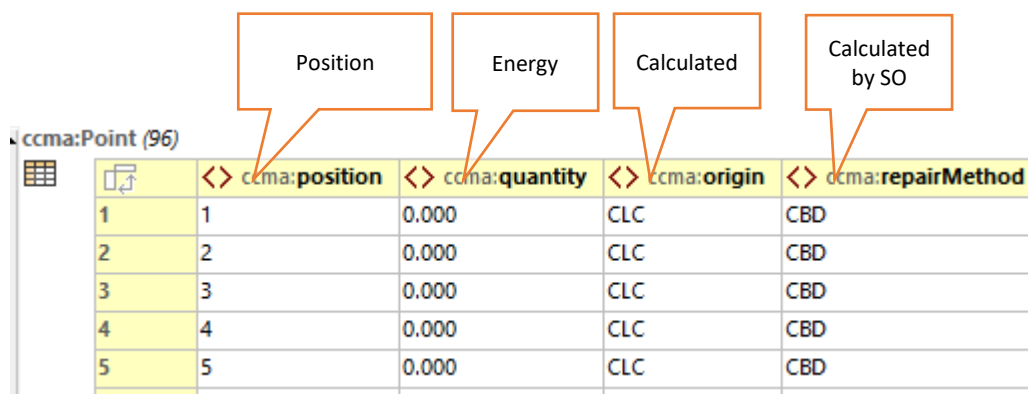
The diagram shows the structure of the **ccma:Point (96)** object. It includes a table with columns for **ccma:position**, **ccma:quantity**, **ccma:origin**, and **ccma:repairMethod**.

Callouts point to the following elements:

- Position
- Energy
- Calculated
- Calculated by SO

	ccma:position	ccma:quantity	ccma:origin	ccma:repairMethod
1	1	235.849	CLC	CBD
2	2	799.506	CLC	CBD
3	3	232.368	CLC	CBD
4	4	465.961	CLC	CBD
5	5	787.137	CLC	CBD

3.3.5 Schematic diagram Point – Feed-in



The diagram shows the structure of the **ccma:Point (96)** object. It includes a table with columns for **ccma:position**, **ccma:quantity**, **ccma:origin**, and **ccma:repairMethod**.

Callouts point to the following elements:

- Position
- Energy
- Calculated
- Calculated by SO

	ccma:position	ccma:quantity	ccma:origin	ccma:repairMethod
1	1	0.000	CLC	CBD
2	2	0.000	CLC	CBD
3	3	0.000	CLC	CBD
4	4	0.000	CLC	CBD
5	5	0.000	CLC	CBD

3.4 UC A20.205 – Distribute allocation data DIM to BRP

File	AllocationSeriesNotification-SOAP-a20.205.xml
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3.4.1 Note

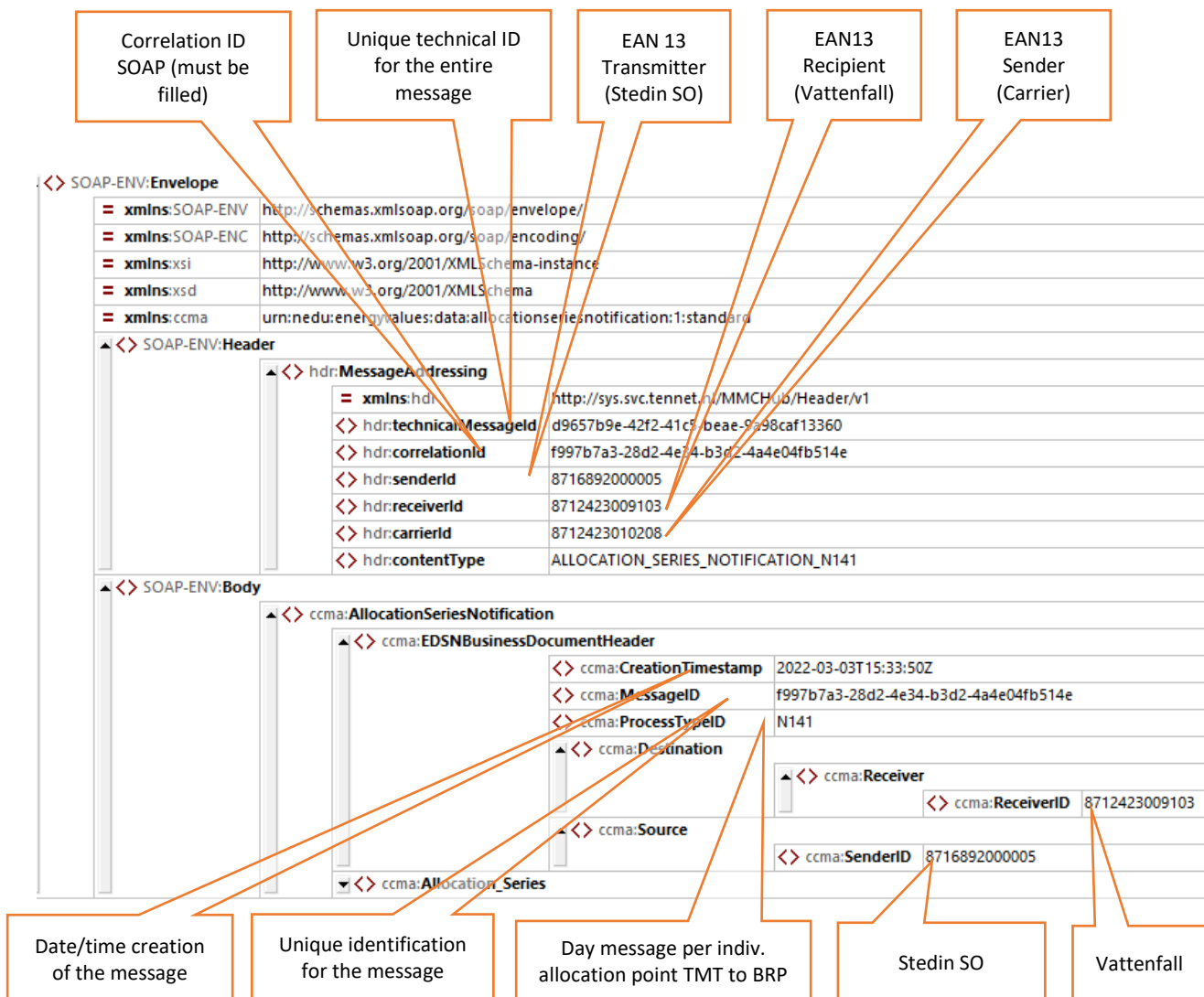
This sample message concerns the daily message with allocation data electricity DIM which is sent to the BRP for the concerned individual dimensioned allocation point where Stedin is the DSO.

The message contains the active energy exchanged with the net per imbalance period for the dimensioned allocation point.

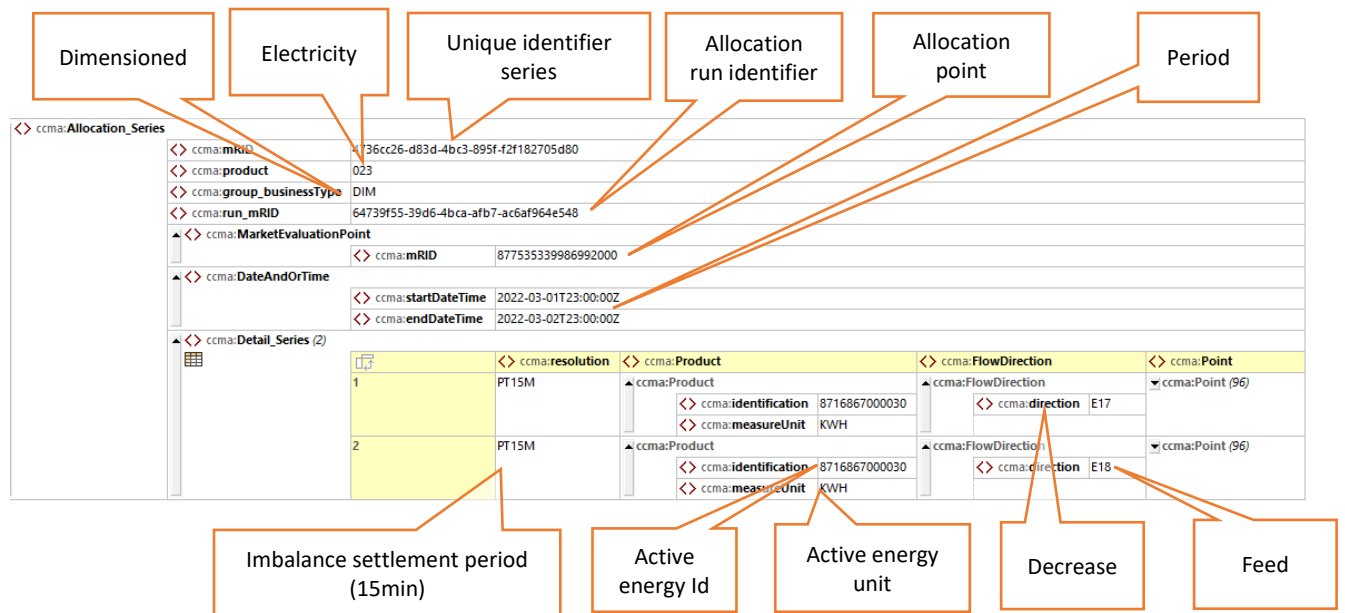
The following table summarizes the main principles:

Creation date/time of the message	2022-03-03T15:33:50Z
ProcessTypeID	N141: Daily message "allocation data per individual dimensioned allocation point (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Vattenfall (EAN: 8712423009103)
Allocation group	DIM
Allocation point	EAN: 877535339986992000 (fictive DIM allocation point)
Period from	2022-03-01T23:00:00Z
Period until	2022-03-02T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

3.4.2 Schematic diagram full message



3.4.3 Schematic diagram Allocation_Series



3.4.4 Schematic diagram Point - Consumption

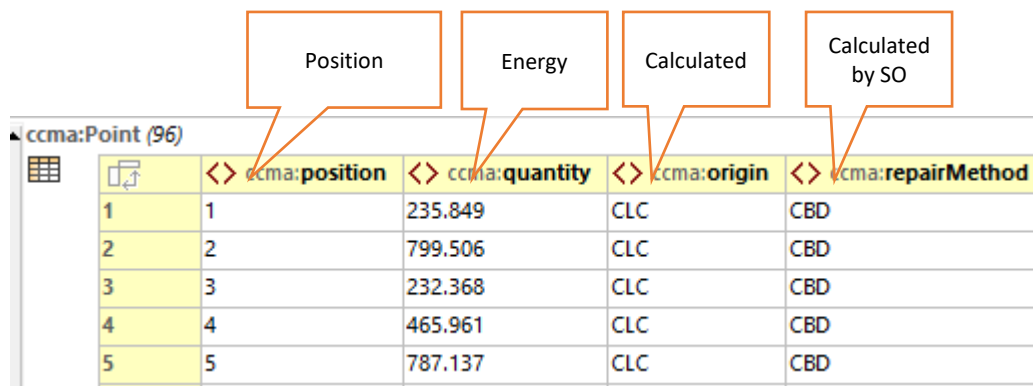


Diagram illustrating the structure of the **ccma:Point (96)** data object. The structure is shown as a table with the following components:

- Position**: Points to the **ccma:position** field.
- Energy**: Points to the **ccma:quantity** field.
- Calculated**: Points to the **ccma:origin** field.
- Calculated by SO**: Points to the **ccma:repairMethod** field.

	ccma:position	ccma:quantity	ccma:origin	ccma:repairMethod
1	1	235.849	CLC	CBD
2	2	799.506	CLC	CBD
3	3	232.368	CLC	CBD
4	4	465.961	CLC	CBD
5	5	787.137	CLC	CBD

3.4.5 Schematic diagram Point – Feed-in

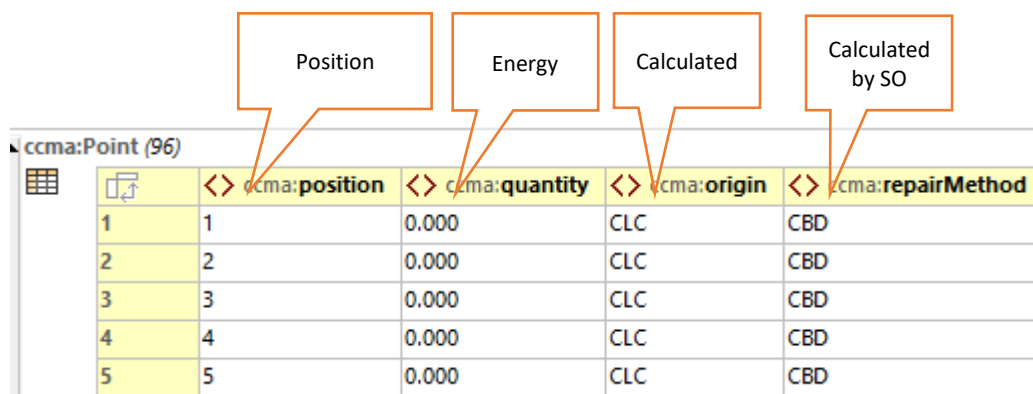


Diagram illustrating the structure of the **ccma:Point (96)** data object. The structure is shown as a table with the following components:

- Position**: Points to the **ccma:position** field.
- Energy**: Points to the **ccma:quantity** field.
- Calculated**: Points to the **ccma:origin** field.
- Calculated by SO**: Points to the **ccma:repairMethod** field.

	ccma:position	ccma:quantity	ccma:origin	ccma:repairMethod
1	1	0.000	CLC	CBD
2	2	0.000	CLC	CBD
3	3	0.000	CLC	CBD
4	4	0.000	CLC	CBD
5	5	0.000	CLC	CBD

4 Sample message aggregated allocation data

4.1 UC A20.201 – Distribute allocation data TMT to BRP

File	AggregatedAllocationSeriesNotification-SOAP-a20.201.xml
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4.1.1 Note

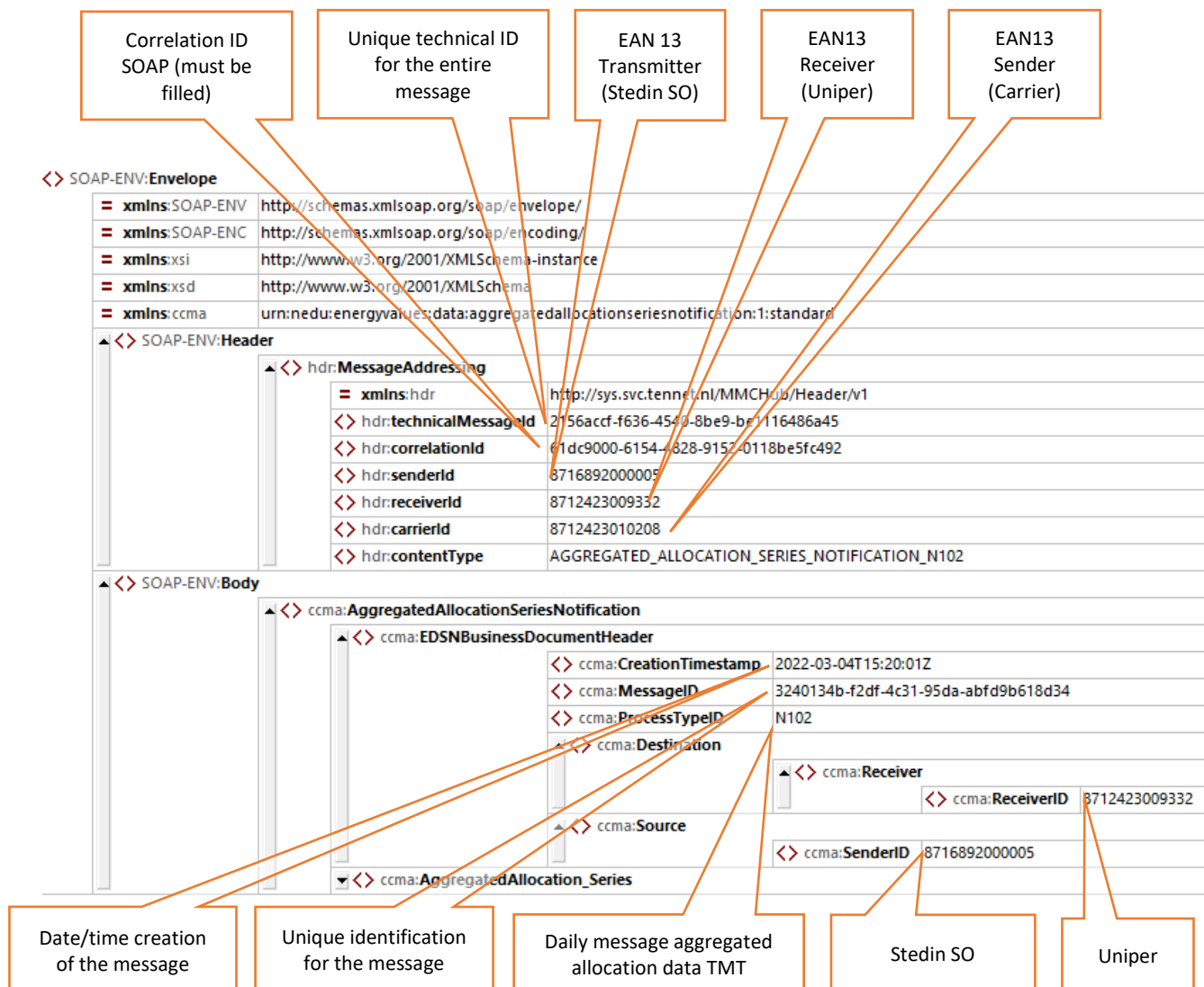
This sample message concerns the daily message with allocation data electricity for the dimensioned allocation group TMT that is sent to the Uniper (BRP), where Stedin is the DSO and Vattenfall is the supplier.

The message contains the aggregated active energy exchanged with the grid per imbalance settlement period per grid area per supplier.

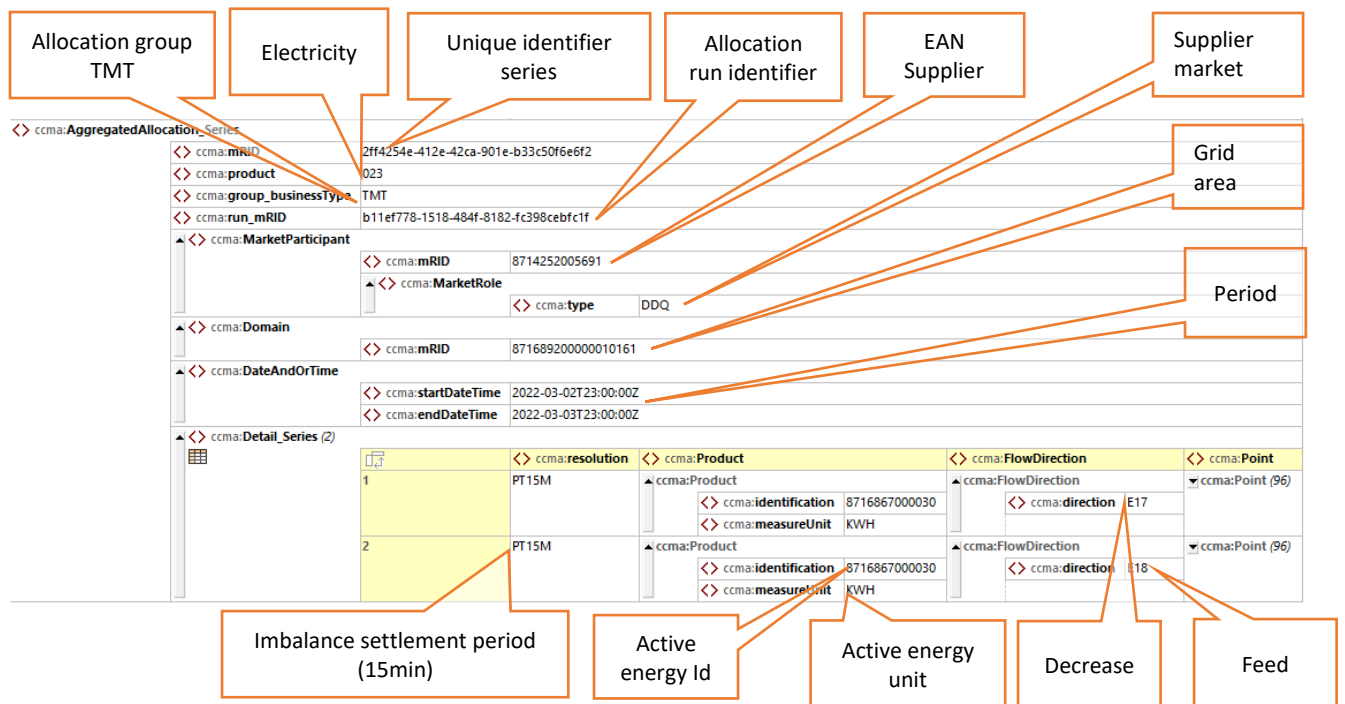
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T15:20:01Z
ProcessTypeID	N102: Daily Message "aggregate allocation data (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Uniper (EAN: 8712423009332)
Supplier	Vattenfall (EAN: 8714252005691)
Allocation group	TMT
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

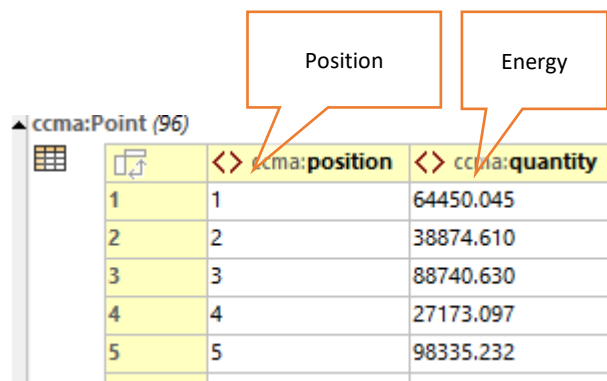
4.1.2 Schematic diagram full message



4.1.3 Schematic diagram AggregatedAllocation_Series



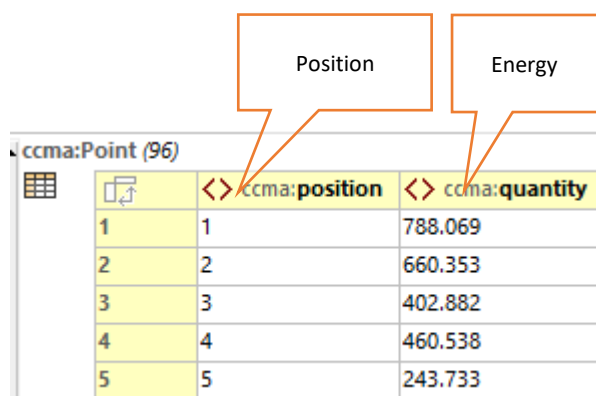
4.1.4 Schematic diagram Point - Consumption



The diagram shows a table for `ccma:Point (96)` with two columns: `ccma:position` and `ccma:quantity`. Callouts point to these columns with labels **Position** and **Energy**.

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	64450.045
2	2	38874.610
3	3	88740.630
4	4	27173.097
5	5	98335.232

4.1.5 Schematic diagram Point – Feed-in



The diagram shows a table for `ccma:Point (96)` with two columns: `ccma:position` and `ccma:quantity`. Callouts point to these columns with labels **Position** and **Energy**.

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	788.069
2	2	660.353
3	3	402.882
4	4	460.538
5	5	243.733

4.2 UC A20.211 – Distribute allocation data TMT to TSO

File	AggregatedAllocationSeriesNotification-SOAP-a20.211.xml
------	---

4.2.1 Note

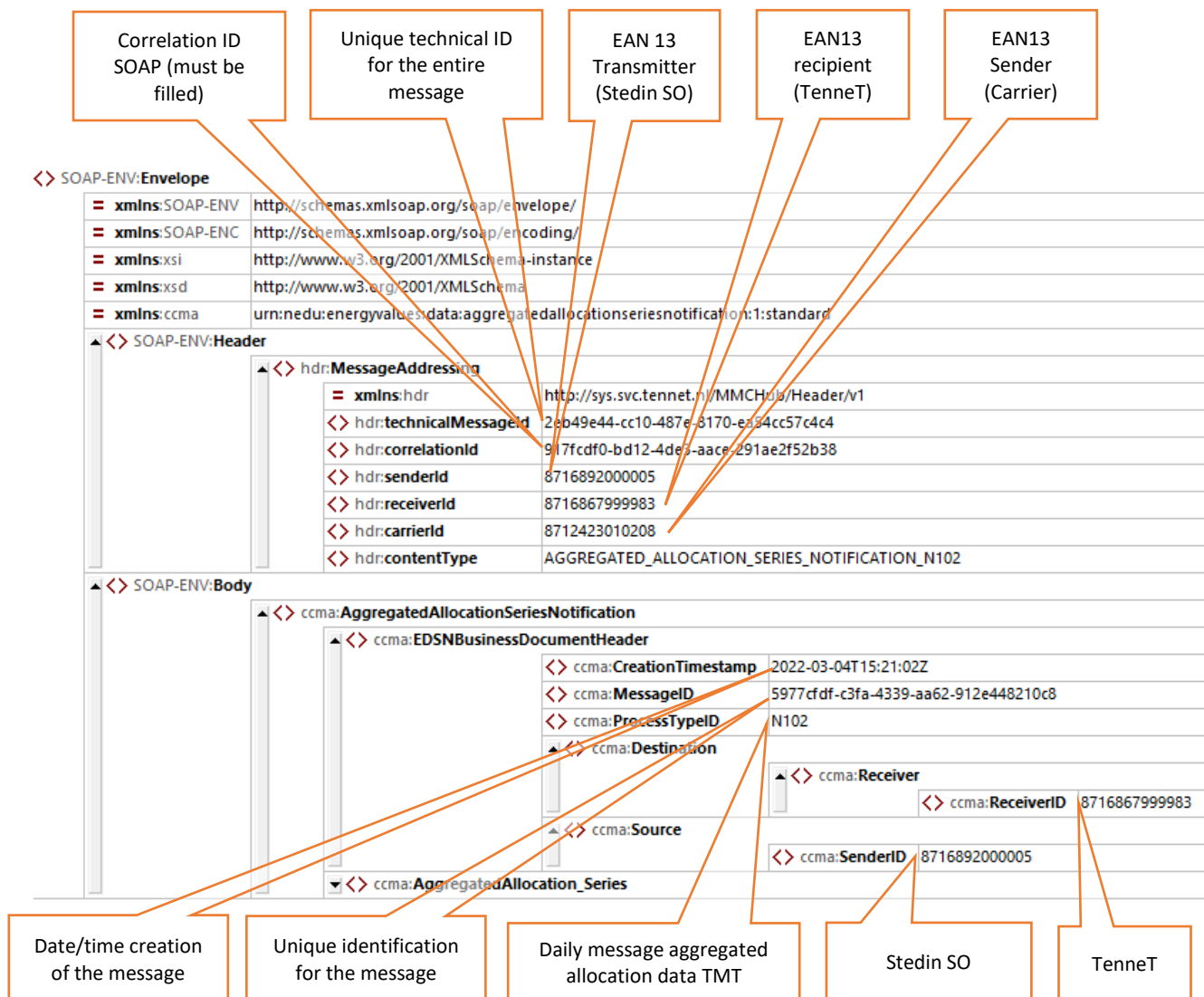
This sample message concerns the daily message with aggregated allocation data electricity for the allocation group TMT per BRP (Uniper) that is sent to the TSO, where Stedin is the DSO.

The message contains the aggregated active energy exchanged with the grid per imbalance settlement period per grid area per BRP.

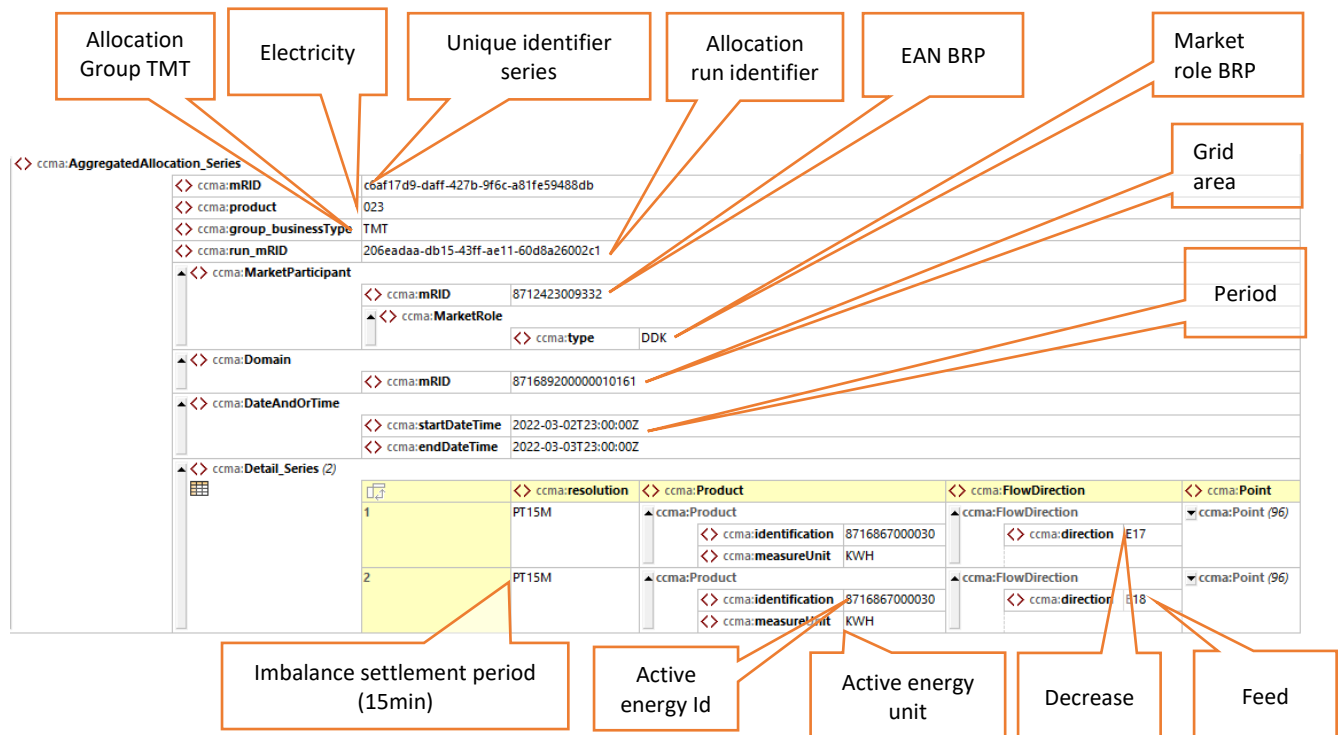
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T15:21:02Z
ProcessTypeID	N102: Daily Message "aggregate allocation data (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	TenneT (EAN: 8716867999983)
BRP	Uniper (EAN: 8712423009332)
Allocation group	TMT
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

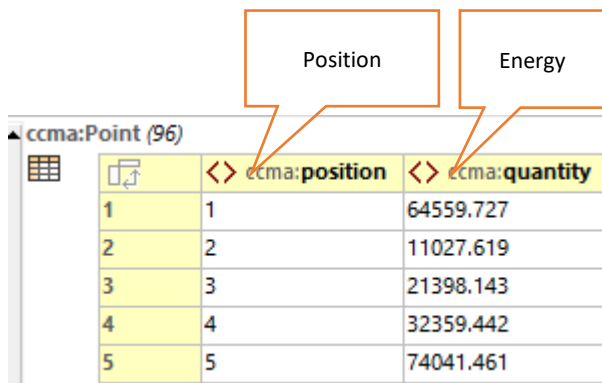
4.2.2 Schematic diagram full message



4.2.3 Schematic diagram AggregatedAllocation_Series



4.2.4 Schematic diagram Point - Consumption

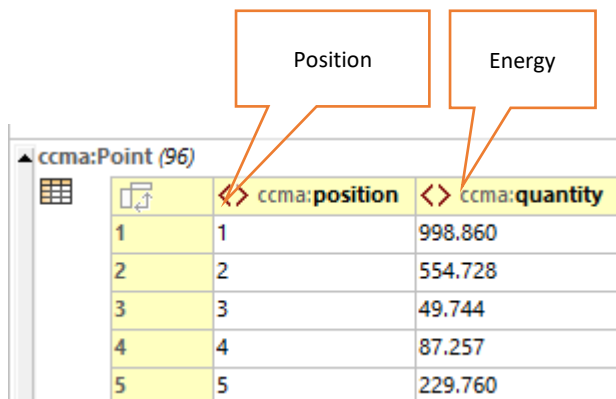


The diagram shows the structure of the `ccma:Point (96)` element. Callouts point to the following fields:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

ccma:Point (96)		
	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	64559.727
2	2	11027.619
3	3	21398.143
4	4	32359.442
5	5	74041.461

4.2.5 Schematic diagram Point – Feed-in



The diagram shows the structure of the `ccma:Point (96)` element. Callouts point to the following fields:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

ccma:Point (96)		
	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	998.860
2	2	554.728
3	3	49.744
4	4	87.257
5	5	229.760

4.3 UC A20.202 – Distribute allocation data SMA to BRP

File	AggregatedAllocationSeriesNotification-SOAP-a20.202.xml
------	---

4.3.1 Note

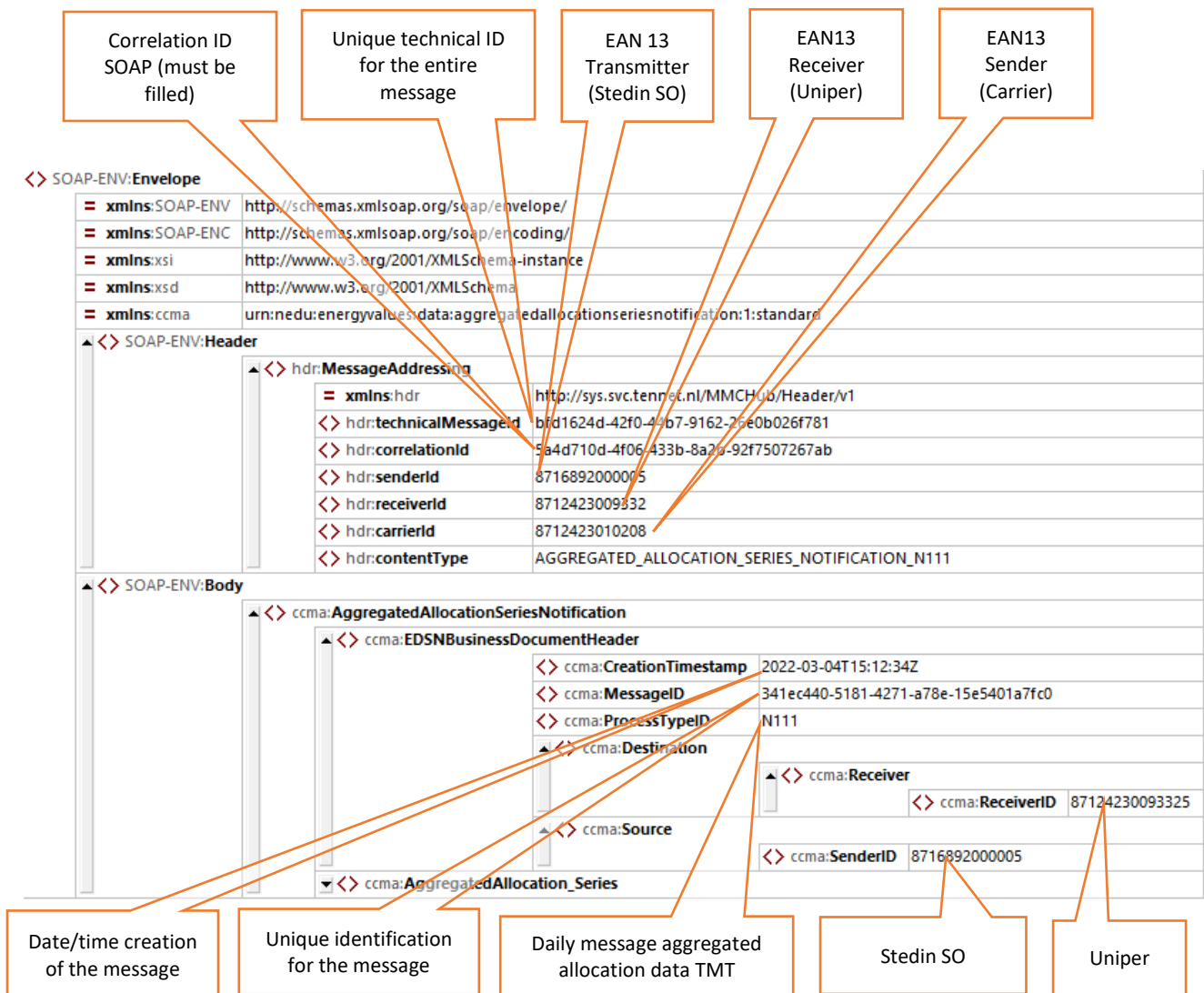
This sample message concerns the daily message with allocation data electricity SMA that is sent to the Uniper (BRP), where Stedin is the DSO and Vattenfall is the supplier.

The message contains the aggregated active energy exchanged with the grid per imbalance settlement period per grid area per supplier.

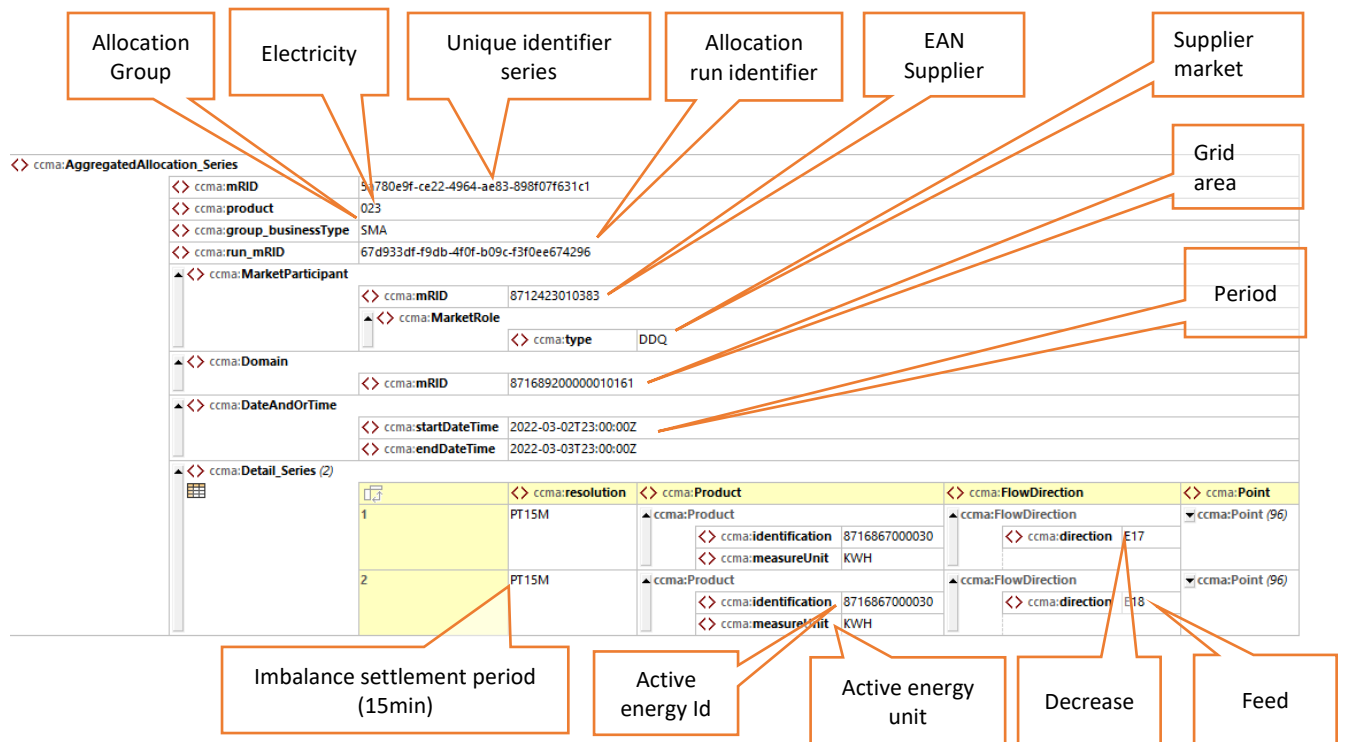
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T15:12:34Z
ProcessTypeID	N111: Daily Message "aggregated allocation data (allocation method SMA)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Uniper (EAN: 8712423009332)
Supplier	Vattenfall (EAN: 8712423010383)
Allocation group	SMA
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

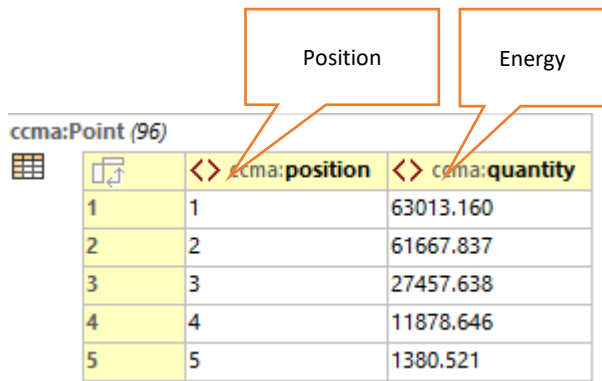
4.3.2 Schematic diagram full message



4.3.3 Schematic diagram AggregatedAllocation_Series



4.3.4 Schematic diagram Point– Consumption



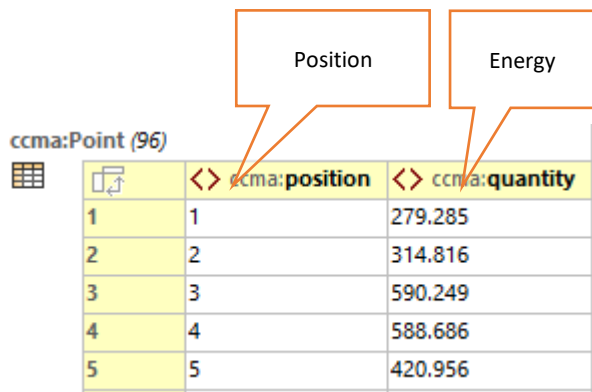
The diagram shows the structure of the `ccma:Point (96)` element. Callouts identify the following fields and their meanings:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

The `ccma:Point (96)` table contains the following data:

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	63013.160
2	2	61667.837
3	3	27457.638
4	4	11878.646
5	5	1380.521

4.3.5 Schematic diagram Point – Feed-in



The diagram shows the structure of the `ccma:Point (96)` element. Callouts identify the following fields and their meanings:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

The `ccma:Point (96)` table contains the following data:

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	279.285
2	2	314.816
3	3	590.249
4	4	588.686
5	5	420.956

4.4 UC A20.212 – Distribute location data SMA to TSO

File	AggregatedAllocationSeriesNotification-SOAP-a20.212.xml
------	---

4.4.1 Note

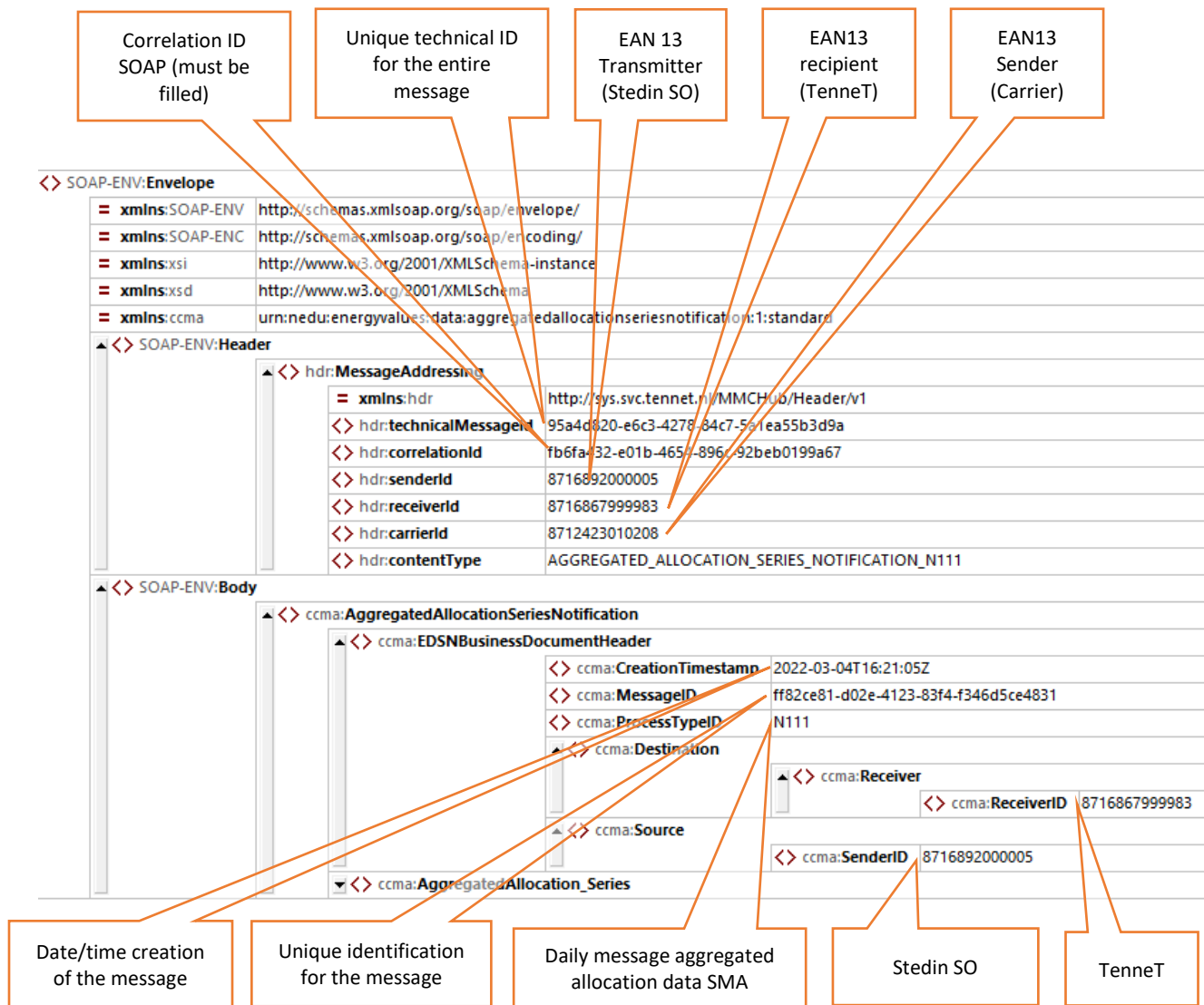
This sample message concerns the daily message with allocation data electricity SMA that is sent to TenneT (TSO), where Stedin is the DSO and Uniper is the BRP.

The message contains the aggregated active energy exchanged with the grid per imbalance settlement period per grid area per BRP.

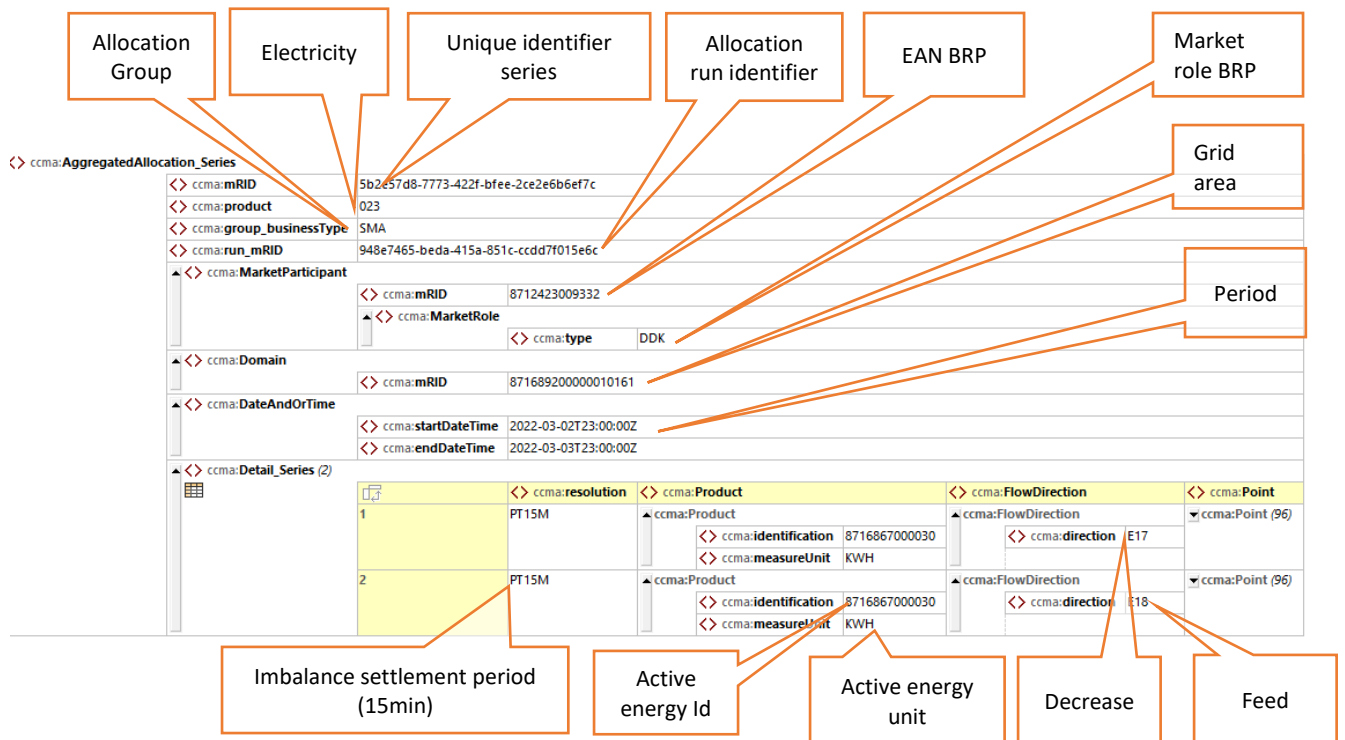
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T16:21:05Z
ProcessTypeID	N111: Daily Message "aggregated allocation data (allocation method SMA)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	TenneT (EAN: 8716867999983)
BRP	Uniper (EAN: 8712423009332)
Allocation group	SMA
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

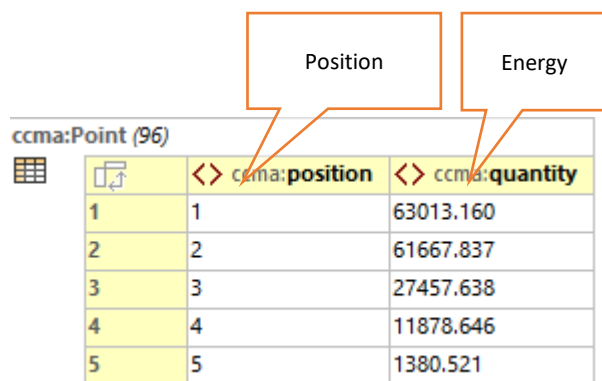
4.4.2 Schematic diagram full message



4.4.3 Schematic diagram AggregatedAllocation_Series



4.4.4 Schematic diagram Point- Consumption

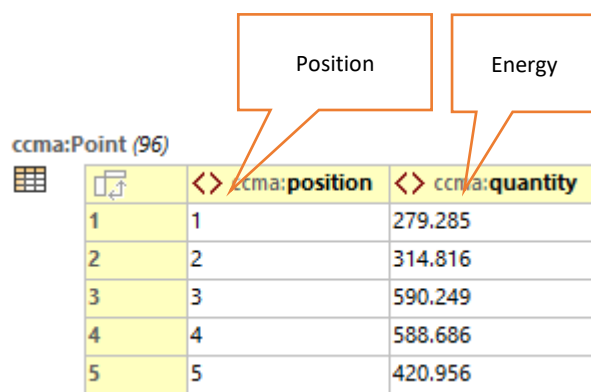


The diagram shows the structure of the `ccma:Point (96)` object. Callouts point to the following fields:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

ccma:Point (96)		
	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	63013.160
2	2	61667.837
3	3	27457.638
4	4	11878.646
5	5	1380.521

4.4.5 Schematic diagram Point – Feed-in



The diagram shows the structure of the `ccma:Point (96)` object. Callouts point to the following fields:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

ccma:Point (96)		
	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	279.285
2	2	314.816
3	3	590.249
4	4	588.686
5	5	420.956

4.5 UC A20.203 – Distribute allocation data PRF to BRP

File	AggregatedAllocationSeriesNotification-SOAP-a20.203.xml
------	---

4.5.1 Note

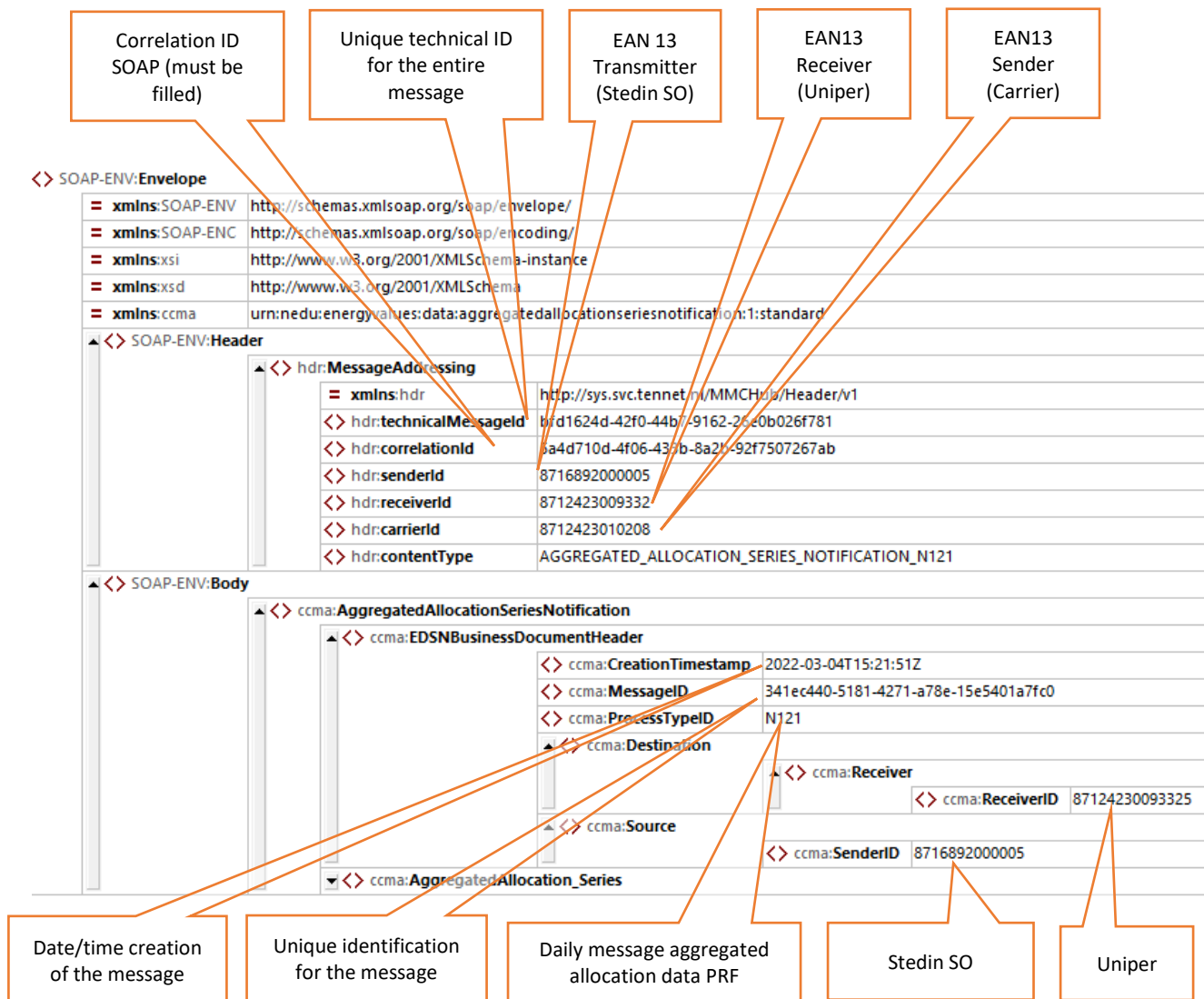
This sample message concerns the daily message with allocation data electricity with allocation method profile (PRF) that is sent to Uniper (BRP), where Stedin is the DSO and Vattenfall is the supplier.

The message contains the aggregated active energy exchanged with the grid per imbalance settlement period per grid area per supplier.

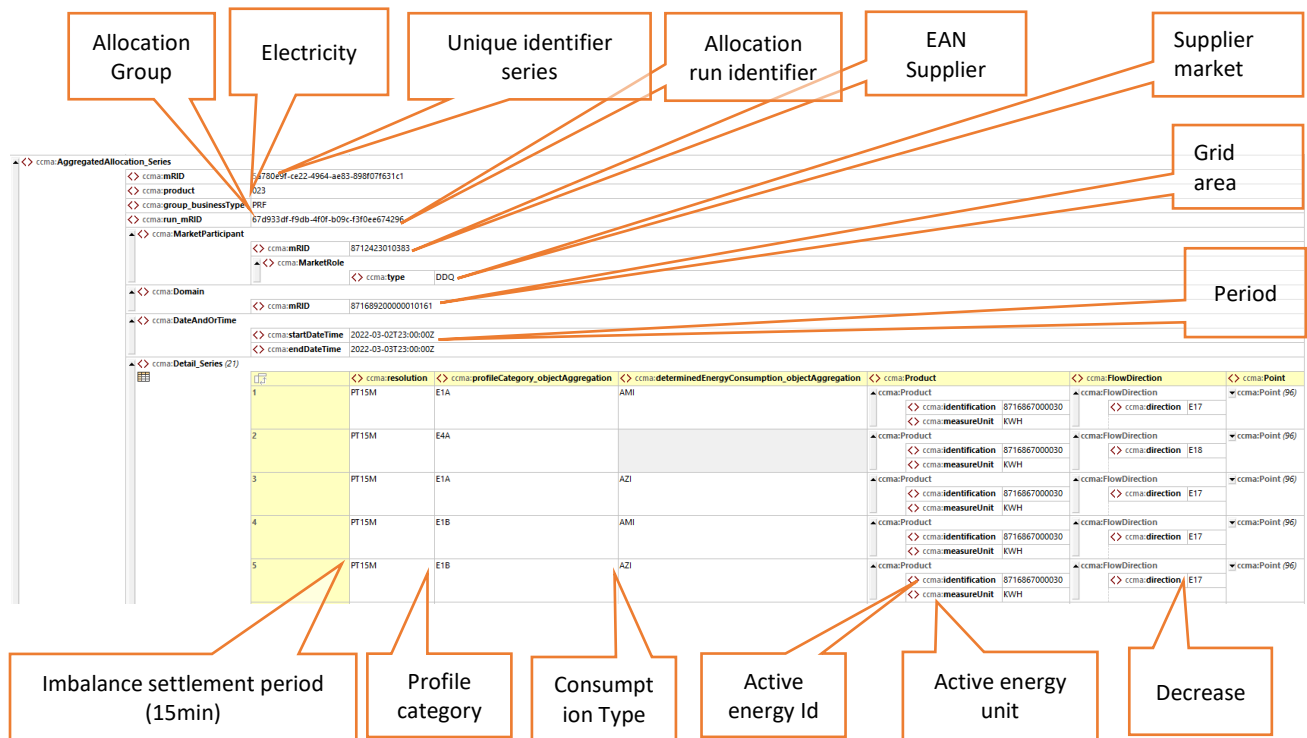
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T15:21:51Z		
ProcessTypeID	N121: Daily Message "aggregated allocation data (allocation method PRF)"		
Transmitter	Stedin SO (EAN: 8716892000005)		
Recipient	Uniper (EAN: 8712423009332)		
Supplier	Vattenfall (EAN: 8712423010383)		
Allocation group	PRF		
Allocation point	N/A		
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)		
Period from	2022-03-02T23:00:00Z		
Period until	2022-03-03T23:00:00Z		
Active / reactive energy	Only active energy		
Feed-in, consumption	Both energy feed-in and consumption		
Present time series	Profile category	Determined energy consumption	Energy direction
	E1A	AMI	E17
	E1A	AMI	E18
	E1A	ASIA	E17
	E1A	ASIA	E18
	E1B	AMI	E17
	E1B	AMI	E18
	E1B	ASIA	E17
	E1B	ASIA	E18
	E1C	AMI	E17
	E1C	AMI	E18
	E1C	ASIA	E17
	E1C	ASIA	E18
	E2A	AMI	E17
	E2A	AMI	E18
	E2A	ASIA	E17
	E2A	ASIA	E18
	E2B	AMI	E17
	E2B	AMI	E18
	E2B	ASIA	E17
	E2B	ASIA	E18
	E4A		E17
	E4A		E18

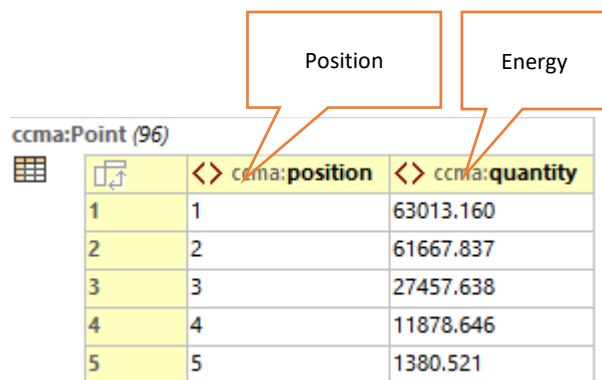
4.5.2 Schematic diagram full message



4.5.3 Schematic diagram AggregatedAllocation_Series



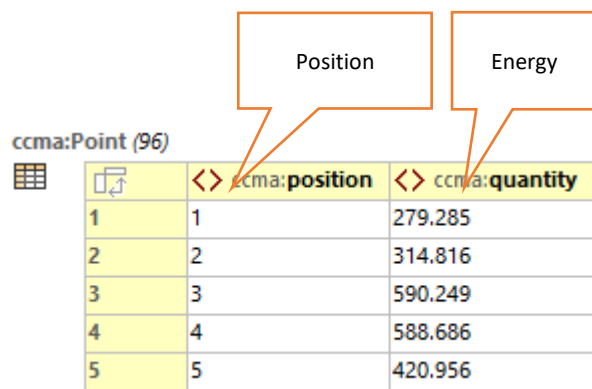
4.5.4 Schematic diagram Point- Consumption



The diagram shows a table for `ccma:Point (96)` with two columns: `ccma:position` and `ccma:quantity`. Callouts point to these columns.

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	63013.160
2	2	61667.837
3	3	27457.638
4	4	11878.646
5	5	1380.521

4.5.5 Schematic diagram Point – Feed-in



The diagram shows a table for `ccma:Point (96)` with two columns: `ccma:position` and `ccma:quantity`. Callouts point to these columns.

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	279.285
2	2	314.816
3	3	590.249
4	4	588.686
5	5	420.956

4.6 UC A20.213 – Distribute allocation data PRF to TSO

File	AggregatedAllocationSeriesNotification-SOAP-a20.213.xml
------	---

4.6.1 Note

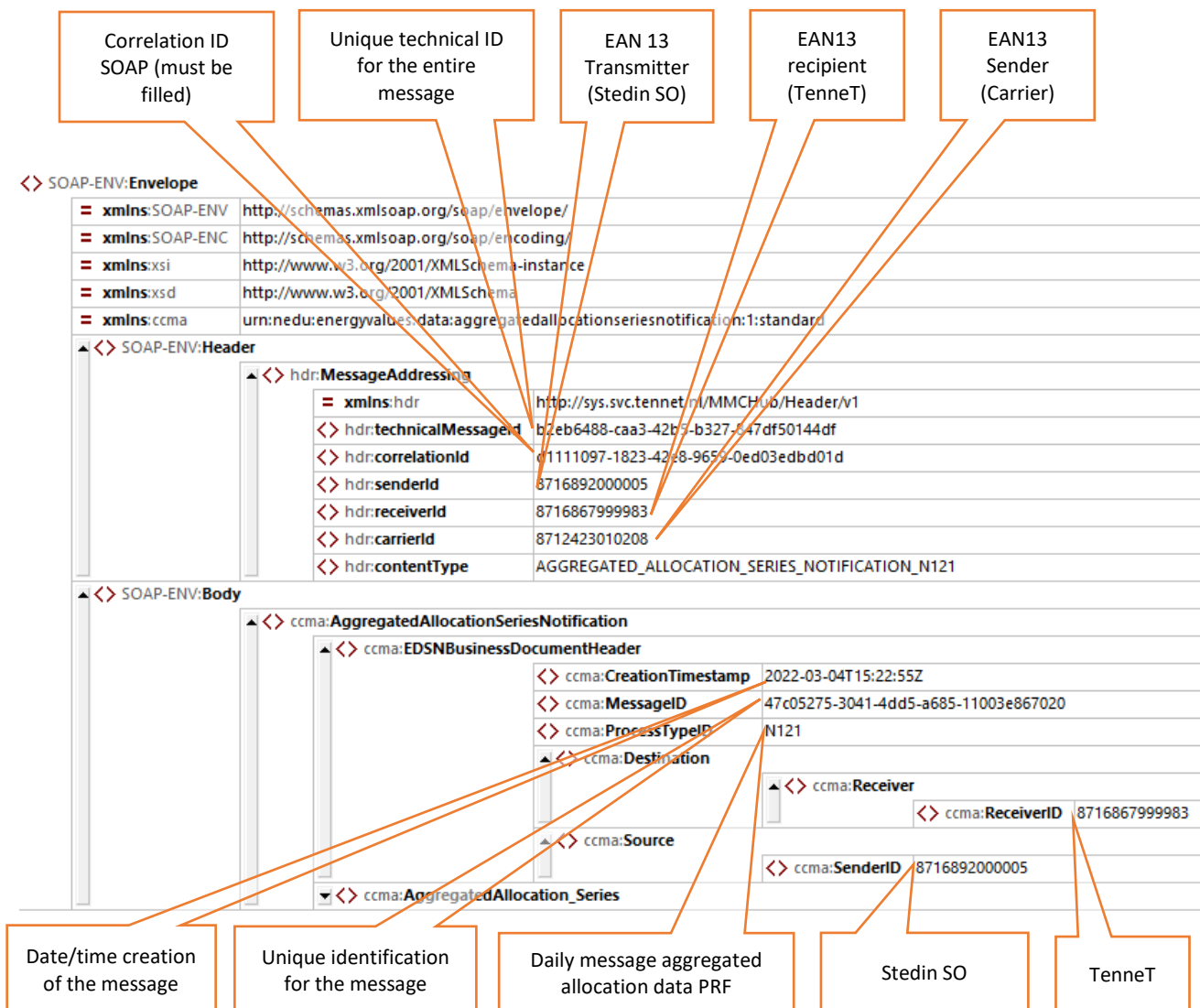
This sample message concerns the daily message with allocation data electricity with allocation method profile (PRF) that is sent TenneT (TSO), where Stedin is the DSO and Uniper is the BRP.

The message contains the aggregated active energy exchanged with the grid per imbalance settlement period per grid area per BRP.

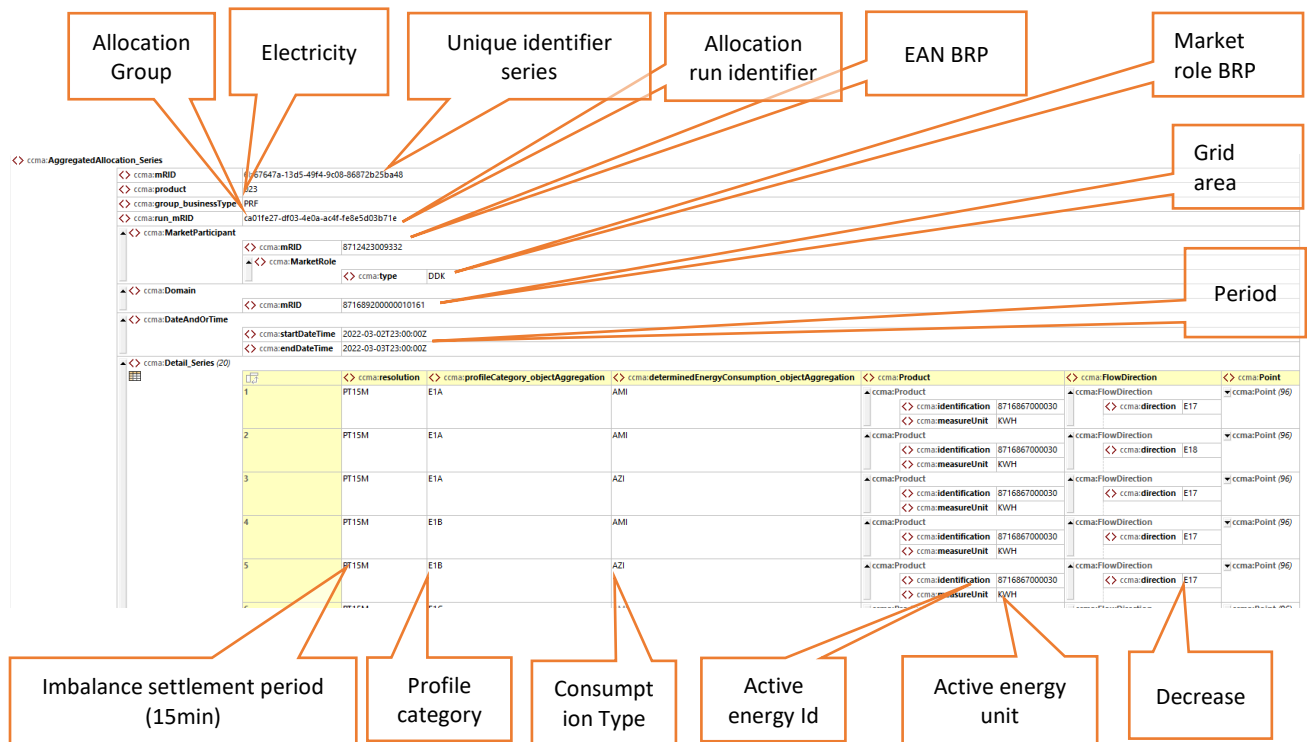
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T15:22:55Z		
ProcessTypeID	N121: Daily Message "aggregated allocation data (allocation method PRF)"		
Transmitter	Stedin SO (EAN: 8716892000005)		
Recipient	TenneT (EAN: 8716867999983)		
BRP	Uniper (EAN: 8712423009332)		
Allocation group	PRF		
Allocation point	N/A		
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)		
Period from	2022-03-02T23:00:00Z		
Period until	2022-03-03T23:00:00Z		
Active / reactive energy	Only active energy		
Feed-in, consumption	Both energy feed-in and consumption		
Present time series	Profile category	Determined energy consumption	Energy direction
	E1A	AMI	E17
	E1A	AMI	E18
	E1A	ASIA	E17
	E1B	AMI	E17
	E1B	ASIA	E17
	E1C	AMI	E17
	E1C	ASIA	E17
	E2A	AMI	E17
	E2A	ASIA	E17
	E2B	AMI	E17
	E2B	ASIA	E17
	E1A	ASIA	E18
	E1B	AMI	E18
	E1B	ASIA	E18
	E1C	AMI	E18
	E1C	ASIA	E18
	E2A	AMI	E18
	E2A	ASIA	E18
	E2B	AMI	E18
	E2B	ASIA	E18

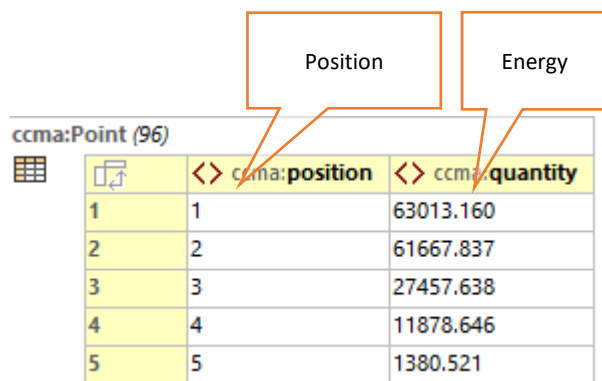
4.6.2 Schematic diagram full message



4.6.3 Schematic diagram AggregatedAllocation_Series



4.6.4 Schematic diagram Point- Consumption

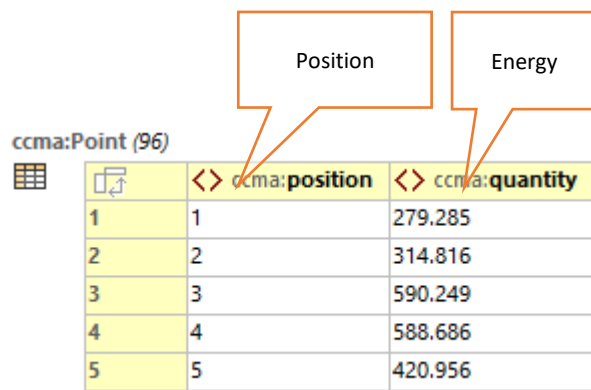


The diagram shows a table for `ccma:Point (96)` with two callouts:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	63013.160
2	2	61667.837
3	3	27457.638
4	4	11878.646
5	5	1380.521

4.6.5 Schematic diagram Point – Feed-in



The diagram shows a table for `ccma:Point (96)` with two callouts:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	279.285
2	2	314.816
3	3	590.249
4	4	588.686
5	5	420.956

4.7 UC A20.204 – Distribute allocation data NVL to BRP

File	AggregatedAllocationSeriesNotification-SOAP-a20.204.xml
------	---

4.7.1 Note

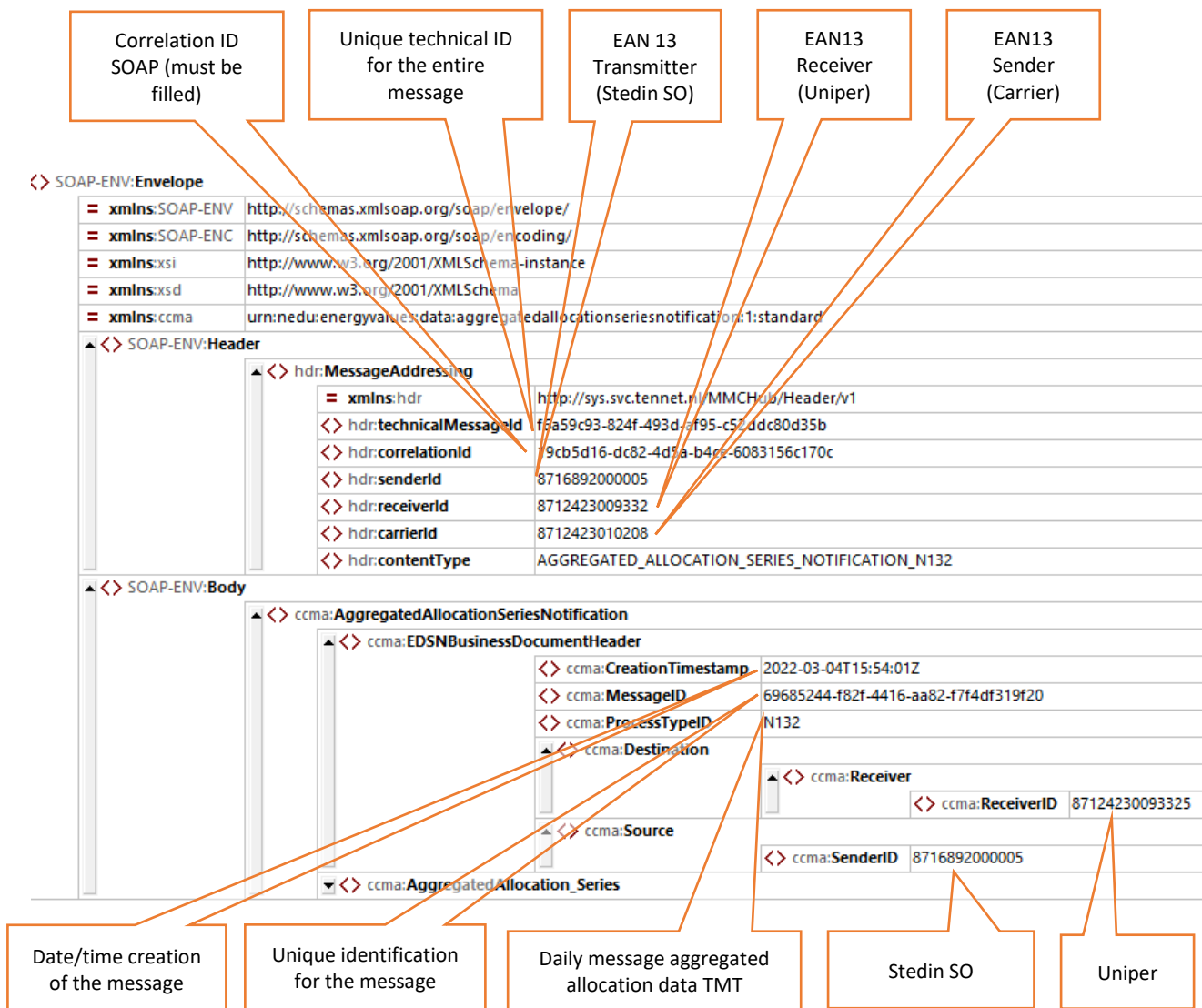
This sample message concerns the daily message with allocation data grid loss electricity that is sent to the Uniper (BRP), where Stedin and Vattenfall are the DSO.

The message contains the grid loss in the grid area per imbalance settlement period with respect to the energy supplied by the supplier.

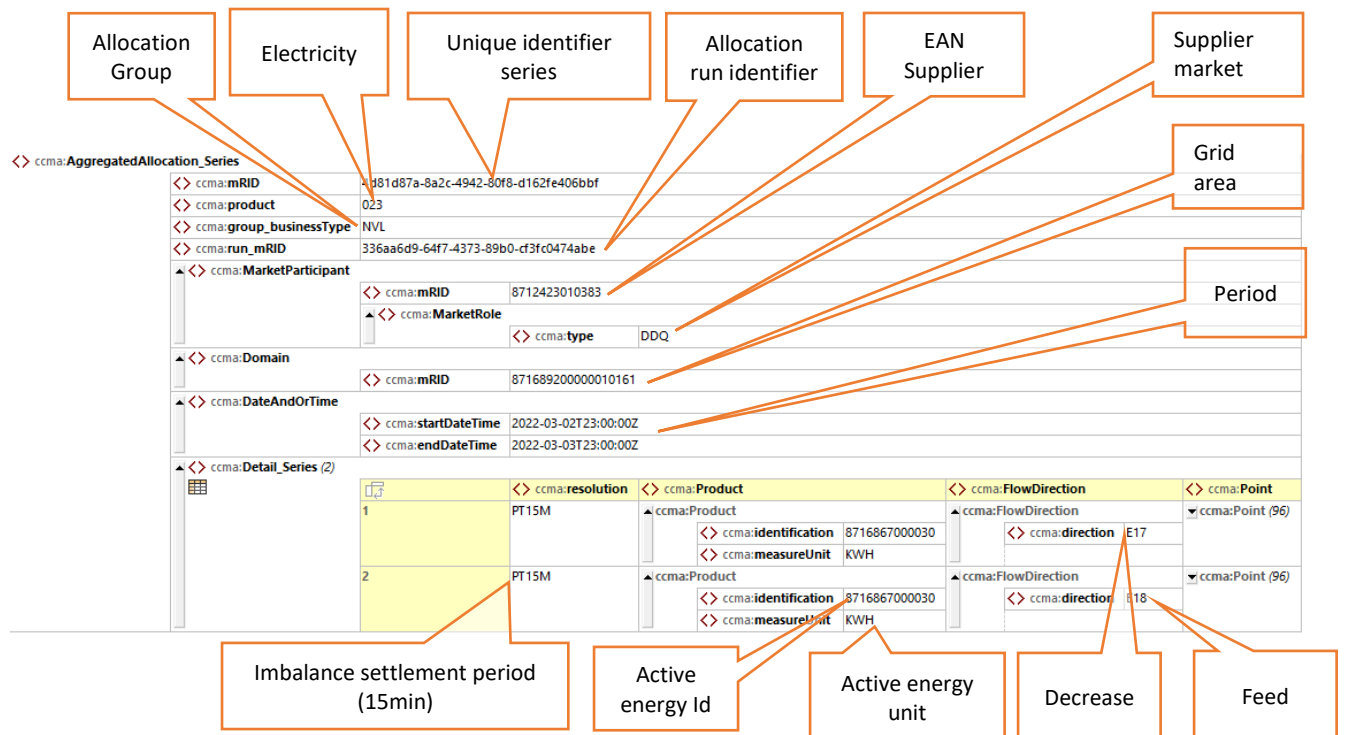
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T09:54:01Z
ProcessTypeID	N132: Daily Message "aggregate allocation data Grid loss (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Uniper (EAN: 8712423009332)
Supplier	Vattenfall (EAN: 8712423010383)
Allocation group	NVL
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

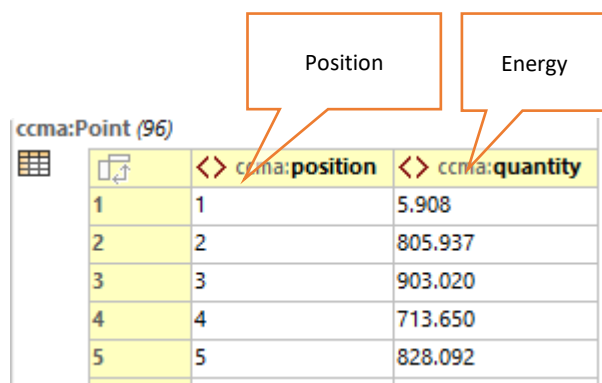
4.7.2 Schematic diagram full message



4.7.3 Schematic diagram AggregatedAllocation_Series



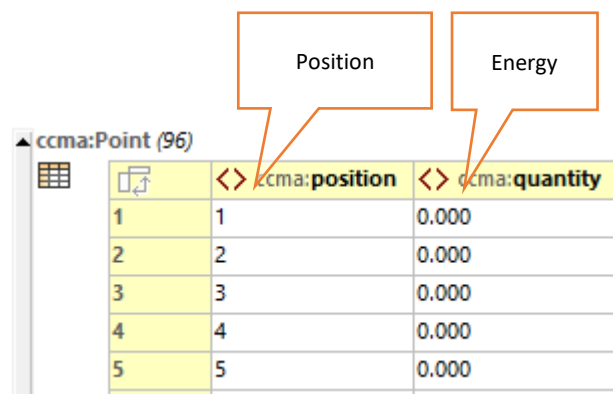
4.7.4 Schematic diagram Point- Consumption



The diagram shows a table for `ccma:Point (96)` with callouts for `ccma:position` (Position) and `ccma:quantity` (Energy).

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	5.908
2	2	805.937
3	3	903.020
4	4	713.650
5	5	828.092

4.7.5 Schematic diagram Point – Feed-in



The diagram shows a table for `ccma:Point (96)` with callouts for `ccma:position` (Position) and `ccma:quantity` (Energy).

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	0.000
2	2	0.000
3	3	0.000
4	4	0.000
5	5	0.000

4.8 UC A20.214 – Distribute allocation data NVL to TSO

File	AggregatedAllocationSeriesNotification-SOAP-a20.214.xml
------	---

4.8.1 Note

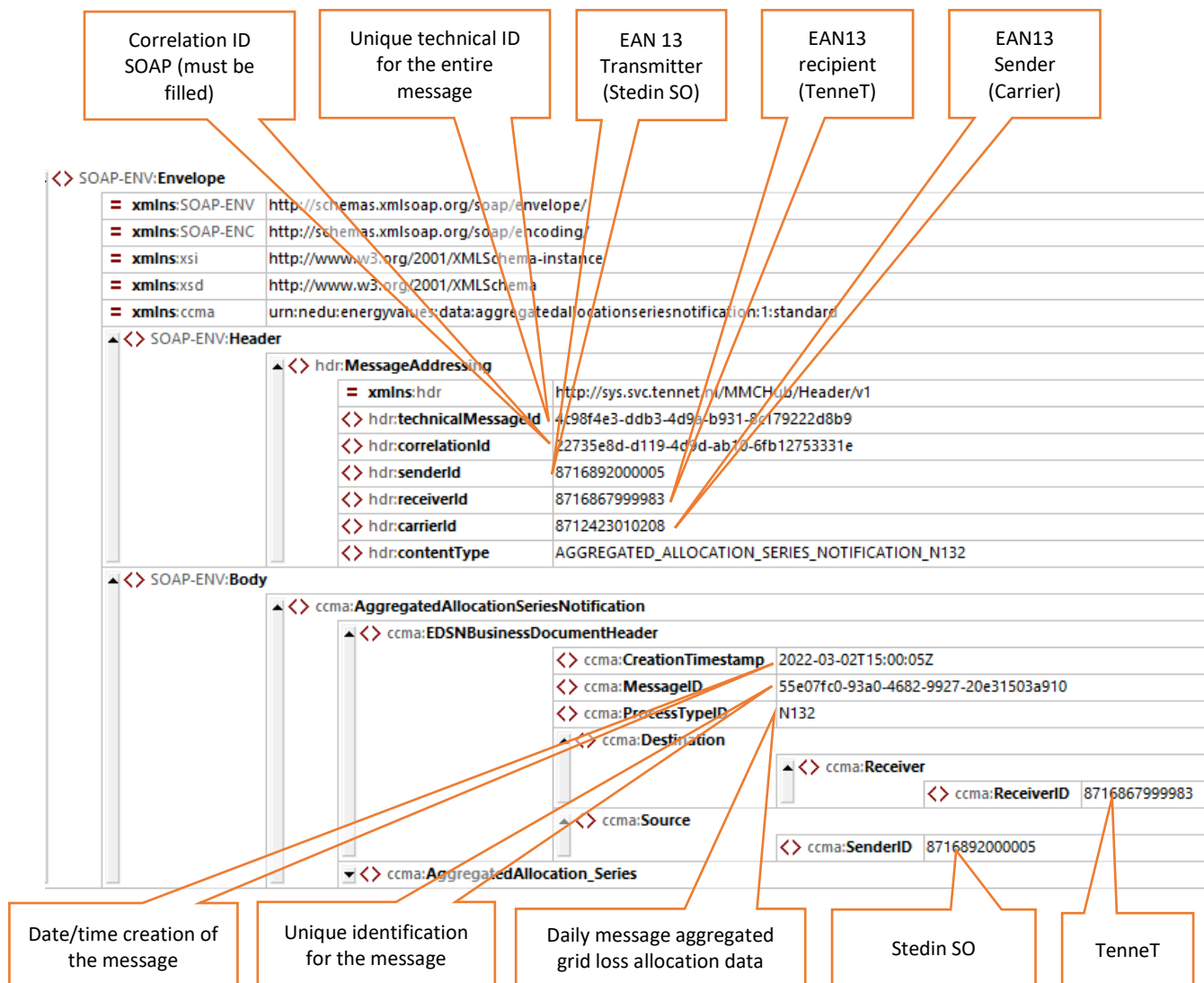
This sample message concerns the daily message with allocation data grid loss electricity that is sent to TenneT (TSO), where Stedin is the DSO and Uniper is the BRP.

The message contains the aggregated active energy exchanged with the grid per imbalance settlement period per grid area per BRP.

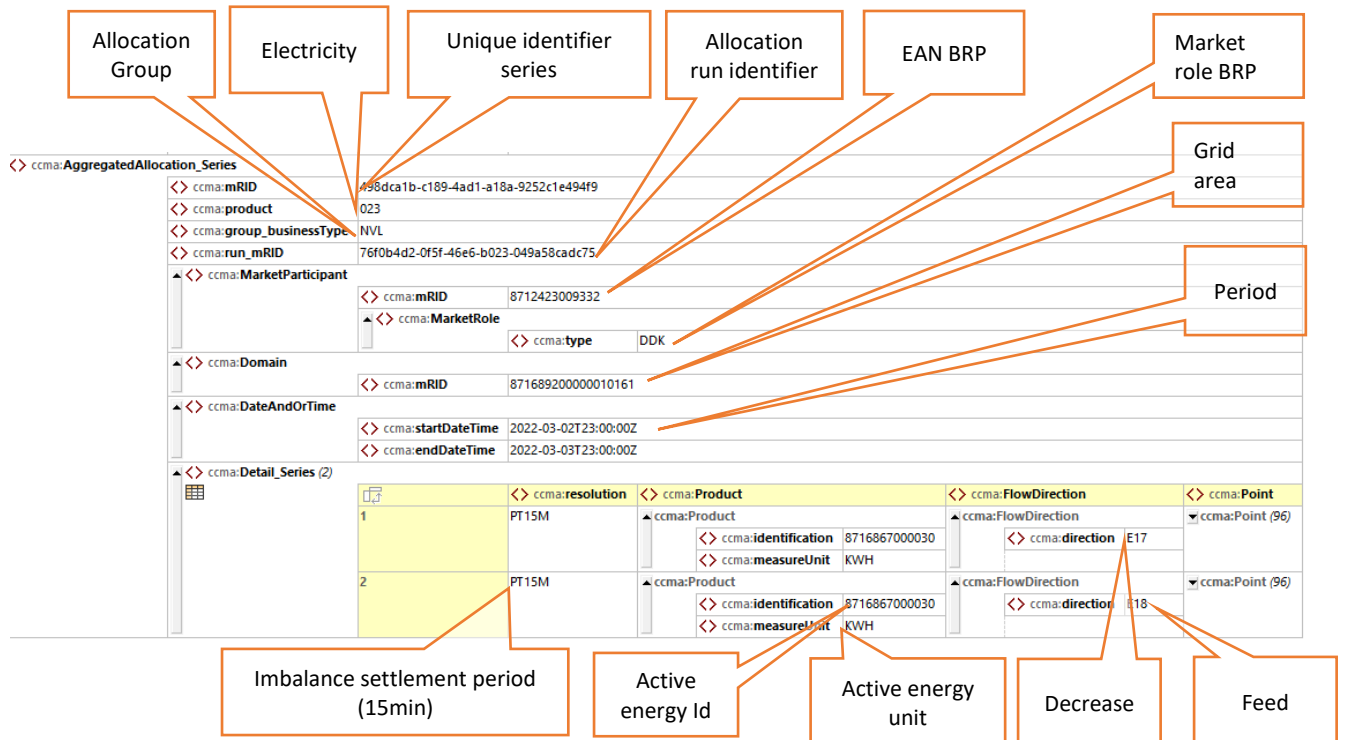
The following table summarizes the main principles:

Creation date/time of the message	2022-03-02T15:00:05Z
ProcessTypeID	N132: Daily Message "aggregated allocation data Grid loss (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	TenneT (EAN: 8716867999983)
BRP	Uniper (EAN: 8712423009332)
Allocation group	NVL
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

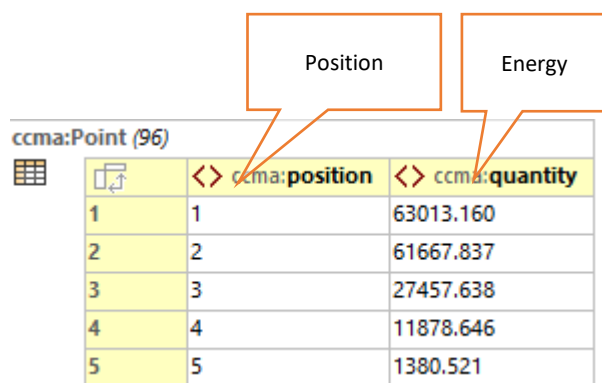
4.8.2 Schematic diagram full message



4.8.3 Schematic diagram AggregatedAllocation_Series



4.8.4 Schematic diagram Point- Consumption

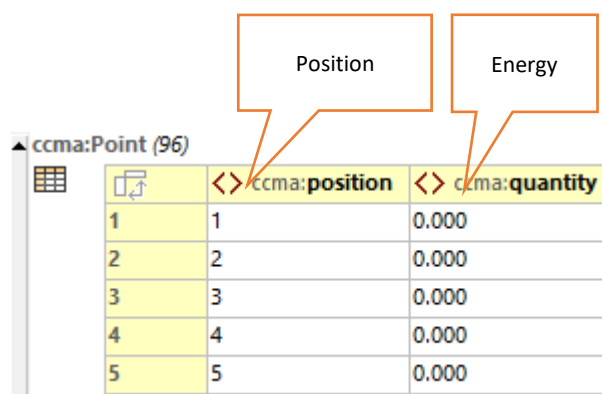


The diagram shows the structure of the `ccma:Point (96)` element. Callouts identify the following fields:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

ccma:Point (96)		
	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	63013.160
2	2	61667.837
3	3	27457.638
4	4	11878.646
5	5	1380.521

4.8.5 Schematic diagram Point – Feed-in



The diagram shows the structure of the `ccma:Point (96)` element. Callouts identify the following fields:

- Position**: `ccma:position`
- Energy**: `ccma:quantity`

ccma:Point (96)		
	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	0.000
2	2	0.000
3	3	0.000
4	4	0.000
5	5	0.000

4.9 UC A20.205 – Distribute allocation data DIM to BRP

File	AggregatedAllocationSeriesNotification-SOAP-a20.205.xml
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4.9.1 Note

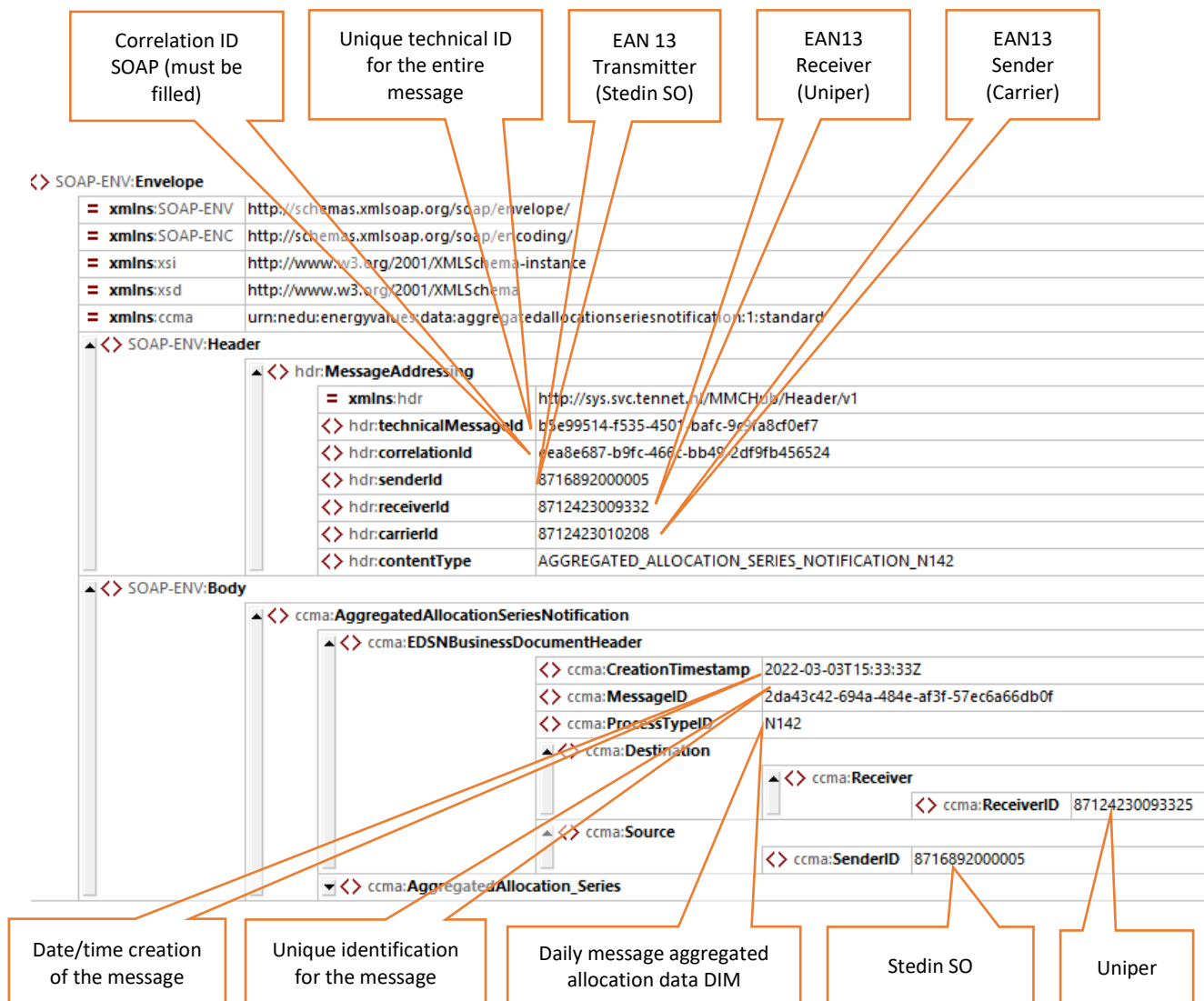
This sample message concerns the daily message with allocation data electricity DIM that is sent to the Uniper (BRP), where Stedin is the DSO and Vattenfall is the supplier.

The message contains the active energy that the supplier has exchanged via dimensioned allocation points in the grid area per imbalance settlement period.

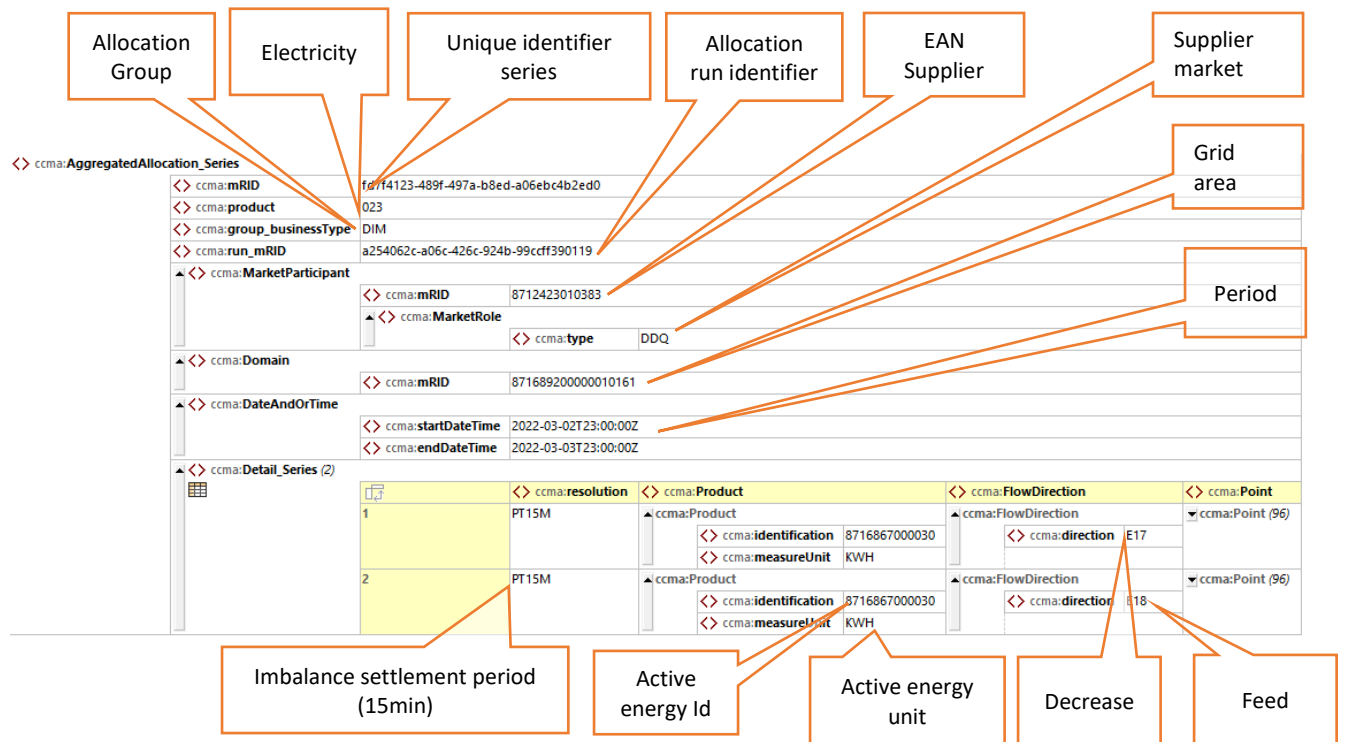
The following table summarizes the main principles:

Creation date/time of the message	2022-03-03T15:33:33Z
ProcessTypeID	N142: Daily Message "aggregated allocation data dimensioned allocation points (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Uniper (EAN: 8712423009332)
Supplier	Vattenfall (EAN: 8712423010383)
Allocation group	DIM
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

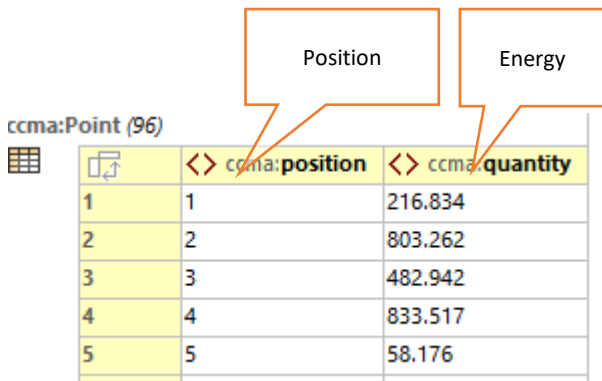
4.9.2 Schematic diagram full message



4.9.3 Schematic diagram AggregatedAllocation_Series



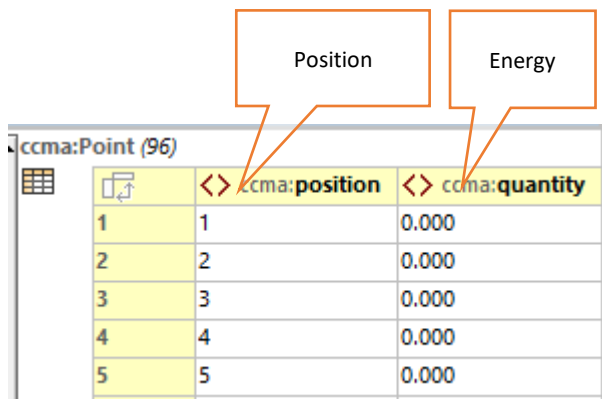
4.9.4 Schematic diagram Point- Consumption



The diagram shows the structure of the `ccma:Point (96)` element. It includes a table with columns for `ccma:position` and `ccma:quantity`.

ccma:position	ccma:quantity
1	216.834
2	803.262
3	482.942
4	833.517
5	58.176

4.9.5 Schematic diagram Point – Feed-in



The diagram shows the structure of the `ccma:Point (96)` element. It includes a table with columns for `ccma:position` and `ccma:quantity`.

ccma:position	ccma:quantity
1	0.000
2	0.000
3	0.000
4	0.000
5	0.000

4.10 UC A20.215 – Distribute DIM allocation data to TSO

File	AggregatedAllocationSeriesNotification-SOAP-a20.215.xml
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4.10.1 Note

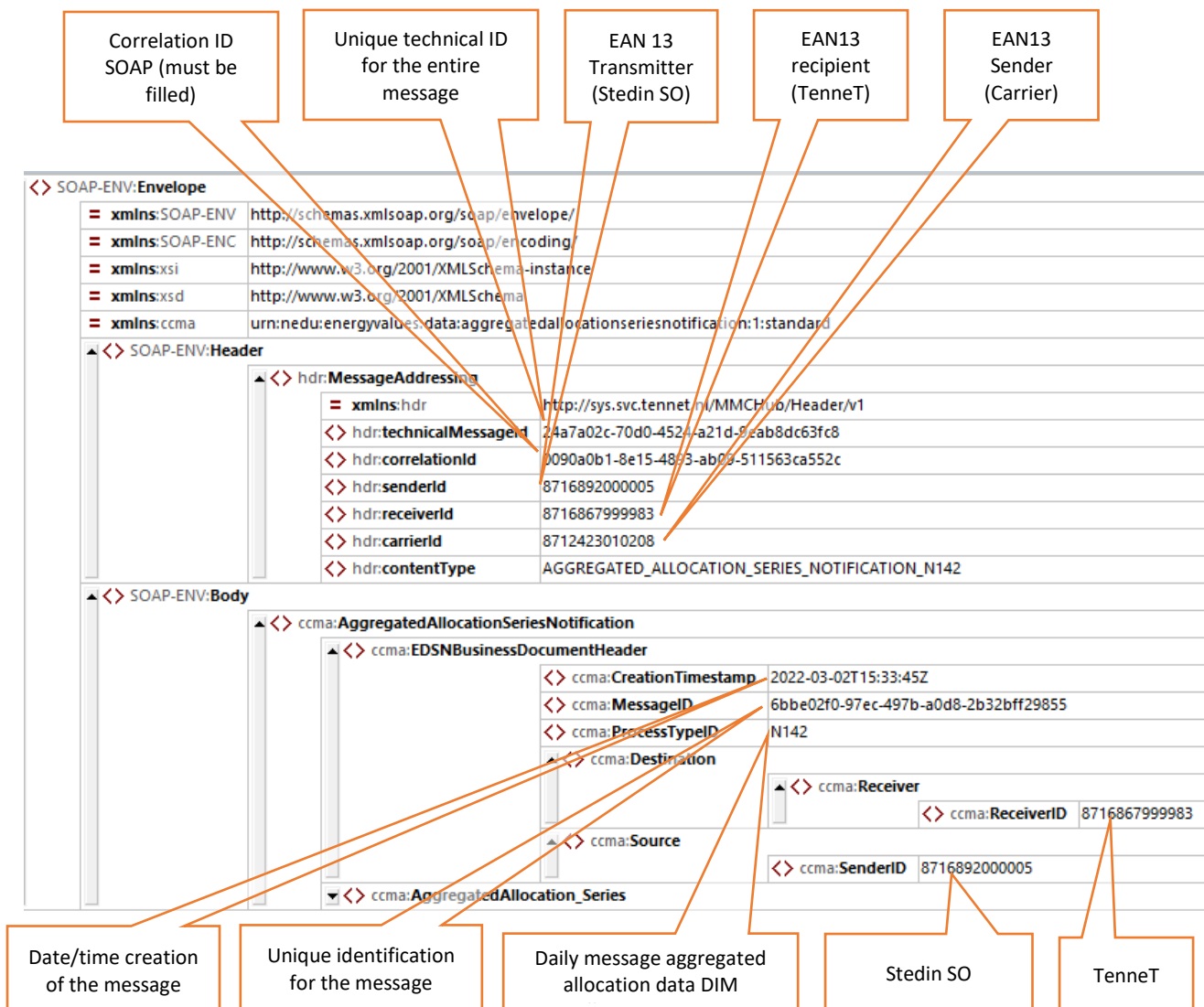
This sample message concerns the daily message with allocation data grid loss electricity that is sent to TenneT (TSO), where Stedin is the DSO and Uniper is the BRP.

The message contains the active energy that is exchanged for the BRP via dimensioned allocation points in the grid area per imbalance settlement period.

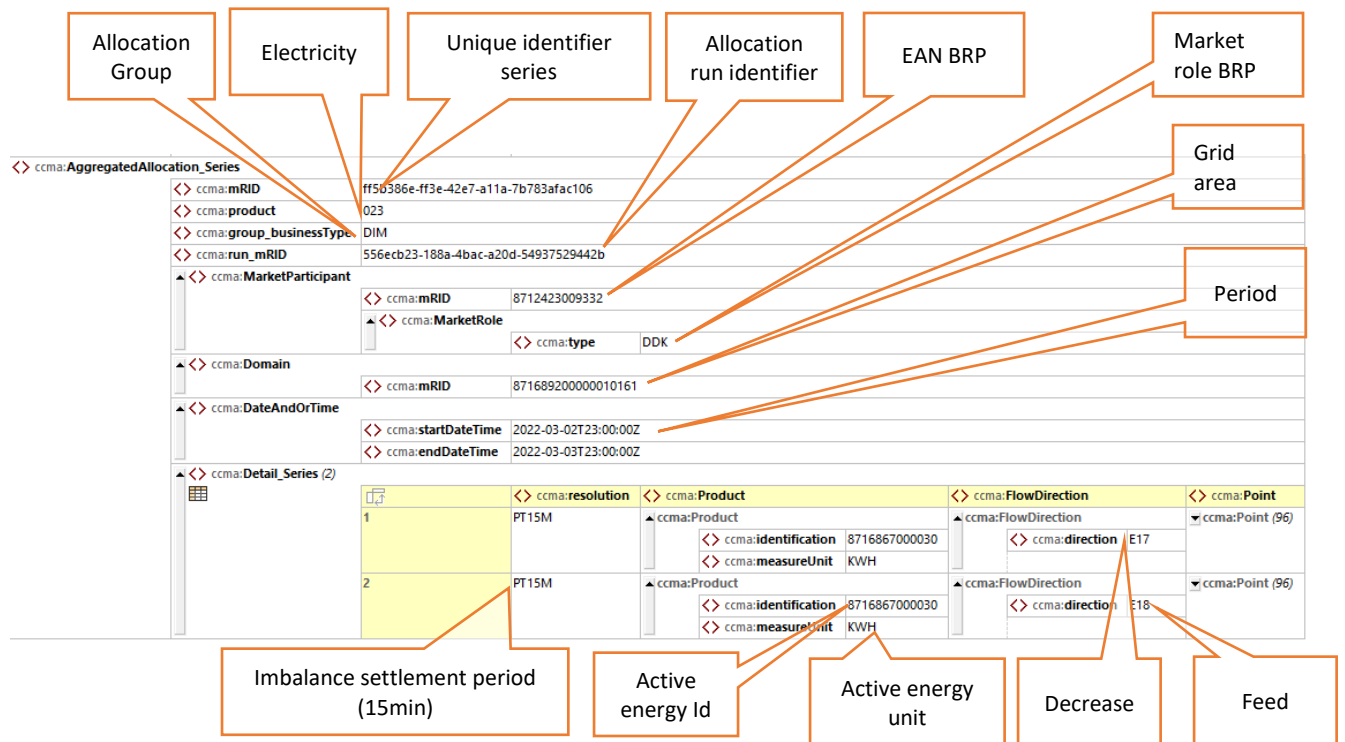
The following table summarizes the main principles:

Creation date/time of the message	2022-03-02T15:33:45Z
ProcessTypeID	N142: Daily Message "aggregated allocation data dimensioned allocation points (allocation method TMT)"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	TenneT (EAN: 8716867999983)
BRP	Uniper (EAN: 8712423009332)
Allocation group	DIM
Allocation point	N/A
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-02T23:00:00Z
Period until	2022-03-03T23:00:00Z
Active / reactive energy	Only active energy
Feed-in, consumption	Both energy feed-in and consumption

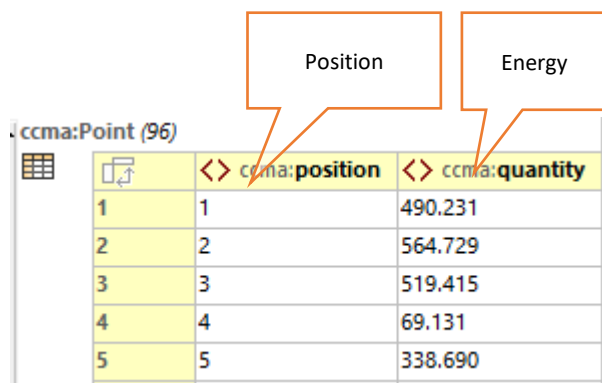
4.10.2 Schematic diagram full message



4.10.3 Schematic diagram AggregatedAllocation_Series



4.10.4 Schematic diagram Point- Consumption

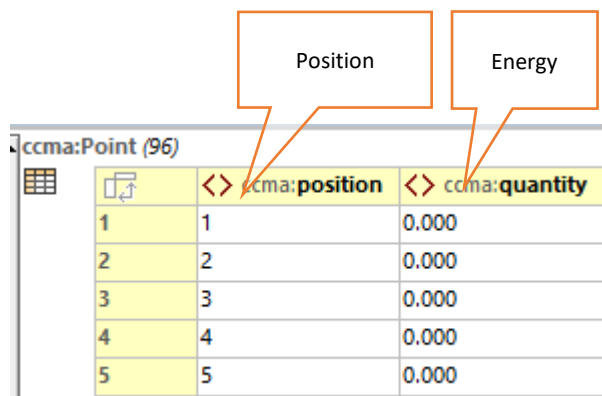


The diagram shows the structure of the `ccma:Point (96)` object. Callouts identify the following fields:

- `ccma:position`: Position
- `ccma:quantity`: Energy

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	490.231
2	2	564.729
3	3	519.415
4	4	69.131
5	5	338.690

4.10.5 Schematic diagram Point – Feed-in



The diagram shows the structure of the `ccma:Point (96)` object. Callouts identify the following fields:

- `ccma:position`: Position
- `ccma:quantity`: Energy

	<code>ccma:position</code>	<code>ccma:quantity</code>
1	1	0.000
2	2	0.000
3	3	0.000
4	4	0.000
5	5	0.000

5 Sample messages RCF and profile fractions

5.1 UC A20.206-207 – Distribute RCF and profile fractions to BRP

File	AllocationFactorSeriesNotification-SOAP-a20.206-207.xml
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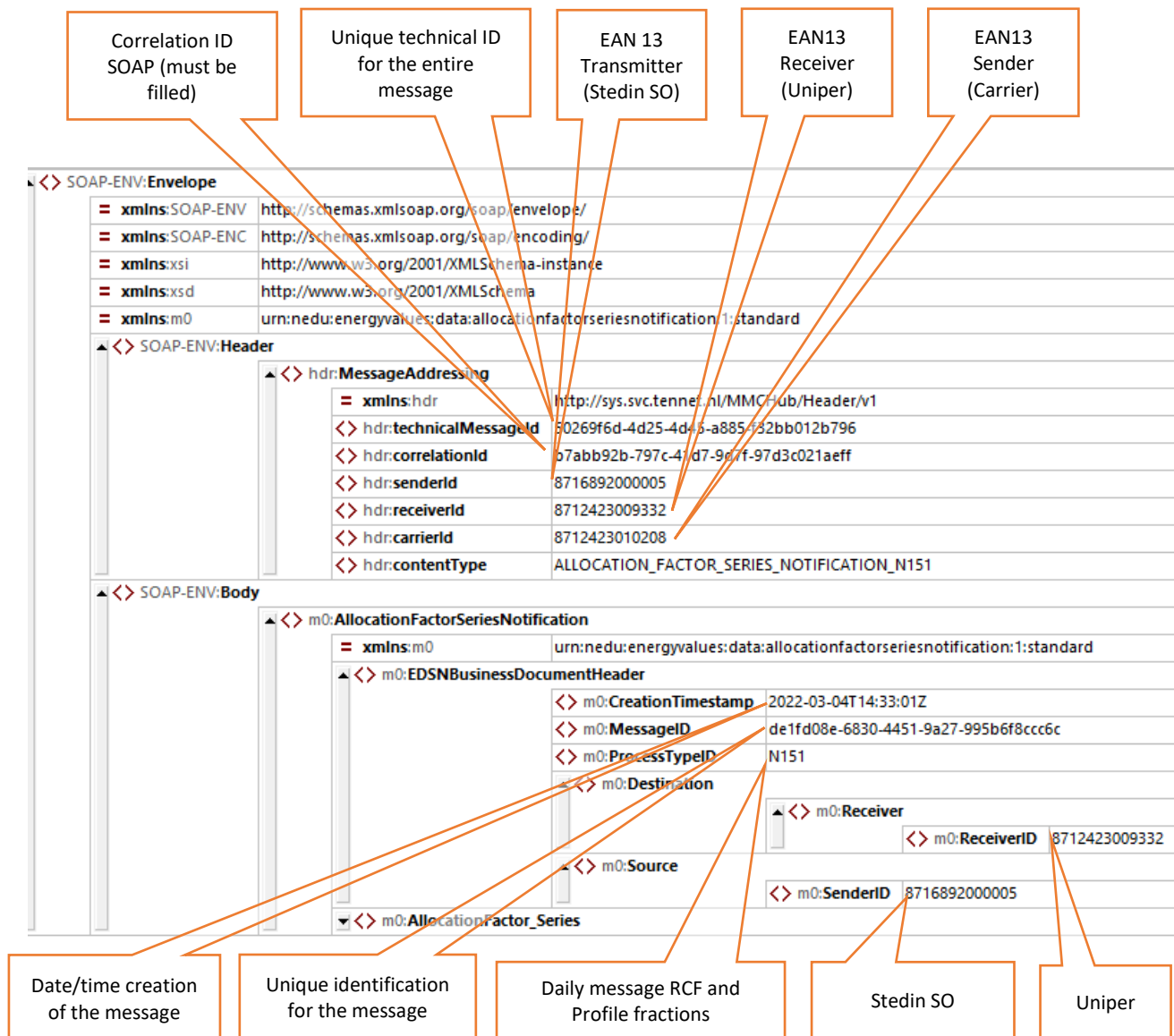
5.1.1 Note

This sample message is the daily message containing the Residual volume Correction Factor (RCF) and profile fractions sent to Uniper (BRP) for a grid area.

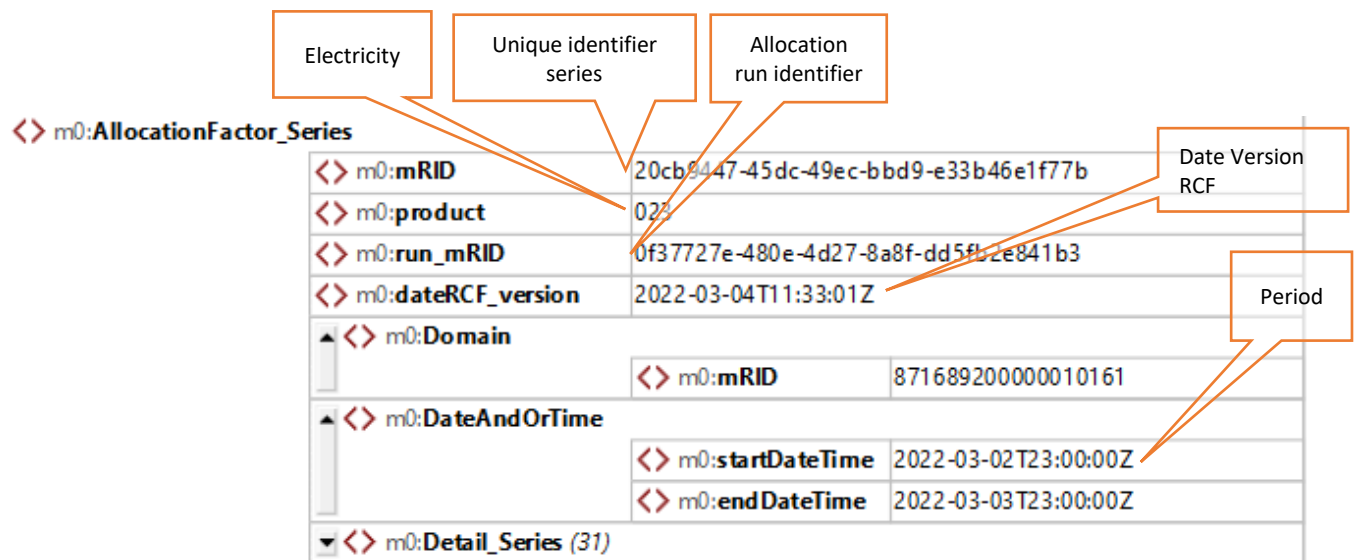
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T14:33:01Z
ProcessTypeID	N151: Daily Message "Residual volume Correction Factor (RCF) and Profile fractions by grid area"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	Uniper (EAN: 8712423009332)
Sender	EDSN (EAN: 8712423010208)
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-01T23:00:00Z
Period until	2022-03-02T23:00:00Z

5.1.2 Schematic diagram full message



5.1.3 Schematic diagram AllocationFactor_Series



5.1.4 Schematic diagram Detail_Series

Imbalance settlement period (15min)		Profile category	Determined energy consumption	Status profile fractions	Energy direction
m0.resolution	m0.profileCategory_objectAggregation	m0.determinedEnergyConsumption_objectAggregation	m0.profileStatus_quality	m0.FlowDirection	m0.Point
1	PT15M	E1A	AM	DIN	m0.FlowDirection
2	PT15M	E1A	AM	DIN	m0.direction E17
3	PT15M	E1A	AZ	DIN	m0.FlowDirection
4	PT15M	E1A	AM	DIN	m0.direction E17
5	PT15M	E1A	AZ	DIN	m0.FlowDirection
6	PT15M	E1B	AM	DIN	m0.direction E18
7	PT15M	E1B	AZ	DIN	m0.FlowDirection
8	PT15M	E1B	AM	DIN	m0.direction E17
9	PT15M	E1B	AZ	DIN	m0.FlowDirection
10	PT15M	E1C	AM	DIN	m0.direction E18
11	PT15M	E1C	AZ	DIN	m0.FlowDirection
12	PT15M	E1C	AM	DIN	m0.direction E17
13	PT15M	E1C	AZ	DIN	m0.FlowDirection
14	PT15M	E2A	AM	DIN	m0.direction E18
15	PT15M	E2A	AZ	DIN	m0.FlowDirection
16	PT15M	E2A	AM	DIN	m0.direction E17
17	PT15M	E2A	AZ	DIN	m0.FlowDirection
18	PT15M	E2B	AM	DIN	m0.direction E18
19	PT15M	E2B	AZ	DIN	m0.FlowDirection
20	PT15M	E2B	AM	DIN	m0.direction E17
21	PT15M	E2B	AZ	DIN	m0.FlowDirection
22	PT15M	E3A		DIN	m0.direction E18
23	PT15M	E3A		DIN	m0.FlowDirection
24	PT15M	E3B		DIN	m0.direction E17
25	PT15M	E3B		DIN	m0.FlowDirection
26	PT15M	E3C		DIN	m0.direction E18
27	PT15M	E3C		DIN	m0.FlowDirection
28	PT15M	E3D		DIN	m0.direction E17
29	PT15M	E3D		DIN	m0.FlowDirection
30	PT15M	E4A		DIN	m0.direction E18
31	PT15M	E4A		DIN	m0.FlowDirection

5.2 UC A20.216 – Distribute RCF and profile fractions to TSO

File	AllocationFactorSeriesNotification-SOAP-a20.216-217.xml
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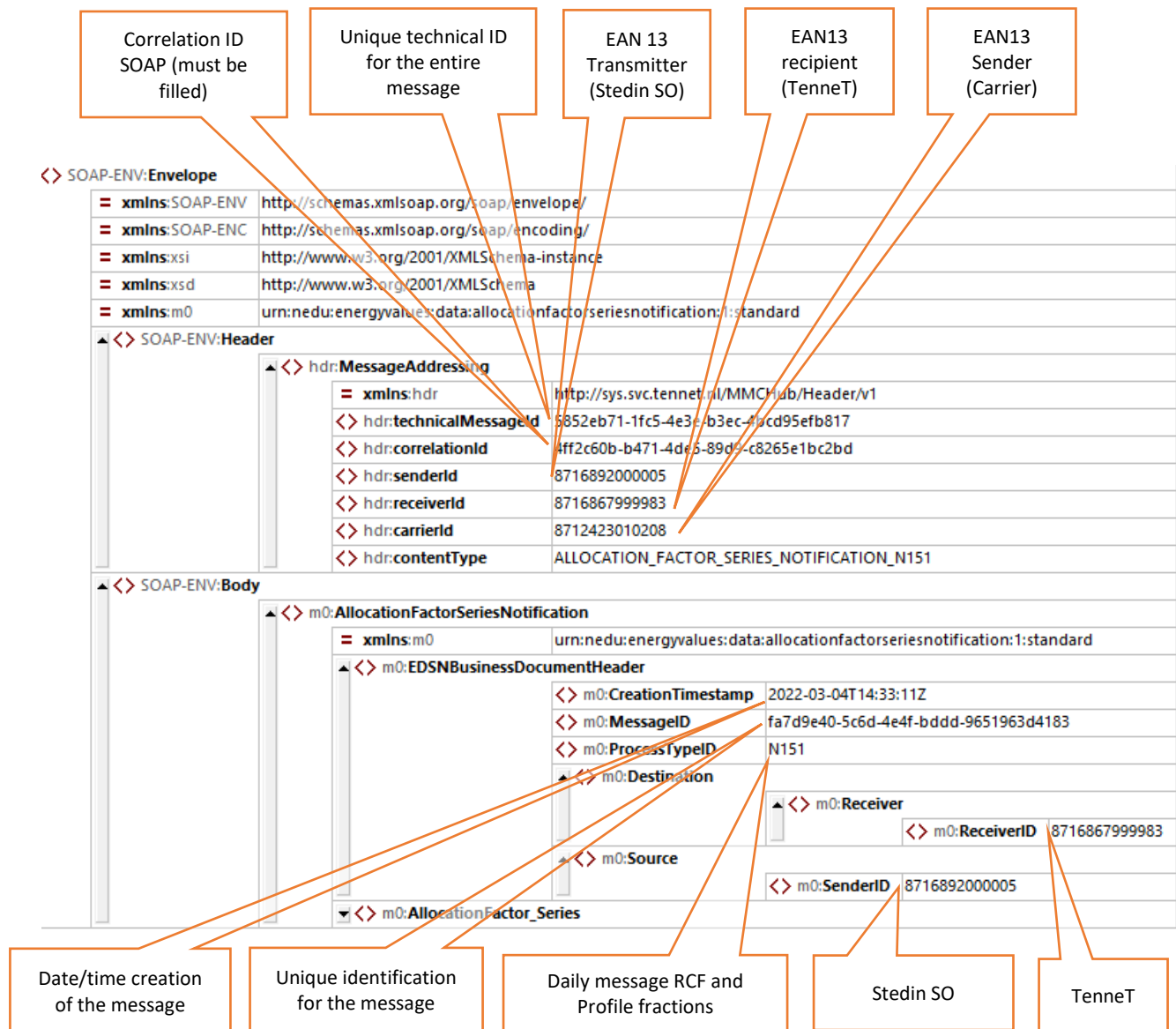
5.2.1 Note

This sample message is the daily message containing the Residual volume Correction Factor (RCF) and profile fractions sent to TenneT (TSO) for a grid area.

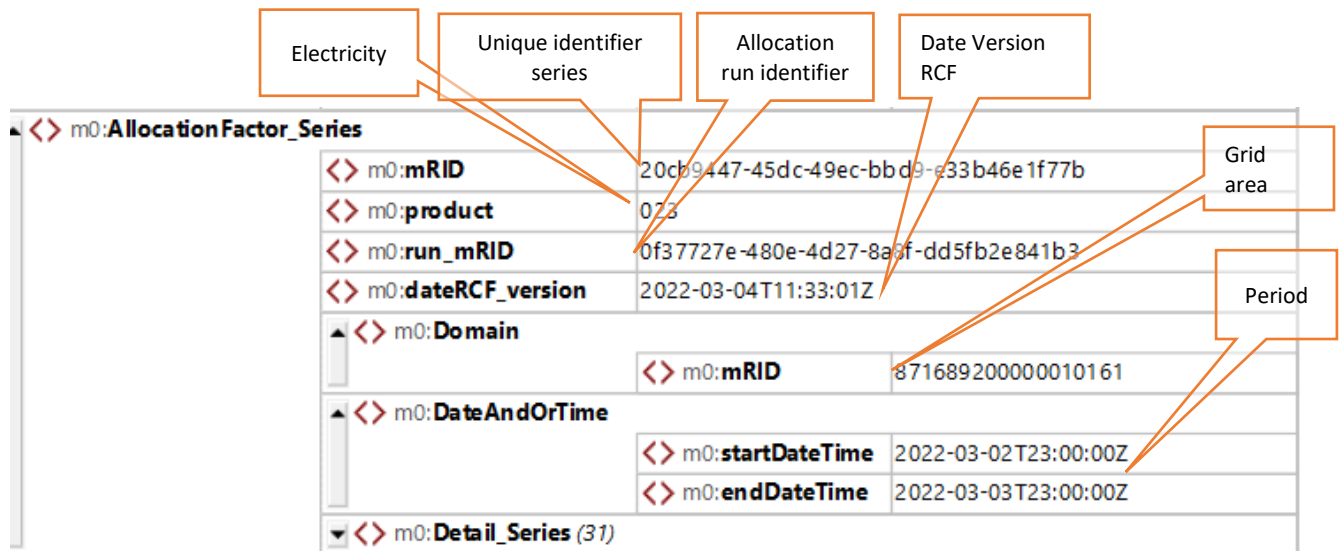
The following table summarizes the main principles:

Creation date/time of the message	2022-03-04T14:33:11Z
ProcessTypeID	N151: Daily Message "Residual volume Correction Factor (RCF) and Profile fractions by grid area"
Transmitter	Stedin SO (EAN: 8716892000005)
Recipient	TenneT (EAN: 8716867999983)
Sender	EDSN (EAN: 8712423010208)
Grid area	Stedin Zuid-Holland (EAN: 871689200000010161)
Period from	2022-03-01T23:00:00Z
Period until	2022-03-02T23:00:00Z

5.2.2 Schematic diagram full message



5.2.3 Schematic diagram AllocationFactor_Series



5.2.4 Schematic diagram Detail_Series

Imbalance settlement period (15min)		Profile category		Determined energy consumption		Status profile fractions		Energy direction			
m0:resolution		m0:profileCategory_objectAggregation		m0:determinedEnergyConsumption_objectAggregation		m0:profileStatus_quality		m0:Flow Direction		m0:Point	
1	PT15M	E1A		AMI		DYN		m0:FlowDirection		m0:Point(96)	
2	PT15M	E1A		AZI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
3	PT15M	E1A		AMI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
4	PT15M	E1A		AZI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
5	PT15M	E1A		AZI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
6	PT15M	E1B		AMI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
7	PT15M	E1B		AZI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
8	PT15M	E1B		AMI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
9	PT15M	E1B		AZI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
10	PT15M	E1C		AMI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
11	PT15M	E1C		AZI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
12	PT15M	E1C		AMI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
13	PT15M	E1C		AZI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
14	PT15M	E2A		AMI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
15	PT15M	E2A		AZI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
16	PT15M	E2A		AMI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
17	PT15M	E2A		AZI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
18	PT15M	E2B		AMI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
19	PT15M	E2B		AZI		DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
20	PT15M	E2B		AMI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
21	PT15M	E2B		AZI		DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
22	PT15M	E3A				DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
23	PT15M	E3A				DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
24	PT15M	E3B				DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
25	PT15M	E3B				DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
26	PT15M	E3C				DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
27	PT15M	E3C				DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
28	PT15M	E3D				DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
29	PT15M	E3D				DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	
30	PT15M	E4A				DYN		m0:FlowDirection	m0:direction E17	m0:Point(96)	
31	PT15M	E4A				DYN		m0:FlowDirection	m0:direction E18	m0:Point(96)	