

Grid fee

This section contains and describes the different stages in grid fee management. From its registration and distribution to aggregation and possible requests.

[Market Process](#)

[BRS](#)

Filter: Retailer Grid owner ESCO Hub internal Balance Responsible

Business Requirement Specification (BRS)

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Grid owner

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Retailer

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Retailer

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Retailer

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Grid owner

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Grid owner

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Hub internal

Reviewed: 2020-09-17

Terminology

Would you like to learn more about the terminology? Download [Terms and definitions](#) ↓

Register grid fee

Purpose

This BRS describes how a grid owner registers a grid fee.

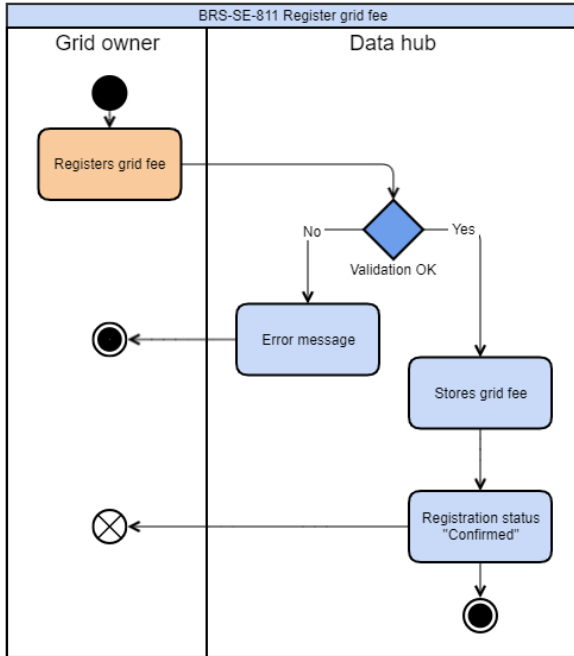


Figure. BRS-SE-811 Register grid fee

Constraints

Start conditions

Rule #	Description	Implemented
BRS811-1	A grid owner has registered a grid fee in the data hub	

Stop conditions

If accepted

Rule #	Description	Implemented
BRS811-2	The data hub has stored the grid fee	
BRS811-3	The data hub has responded with a successful response	

If rejected

Rule #	Description	Implemented
BRS811-4	The data hub has responded with an error message according to the business rules	

Business rules

Rule #	Description	Error message	Implemented
BRS811-11	The accounting point must exist in the data hub during the invoice line period	The specified accounting point does not exist in the data hub	
BRS811-12	The grid owner must be the owner of the metering grid area where the accounting point is located by the time of reporting	The specified accounting point is located in a metering grid area not owned by the reporting grid owner	
BRS811-13	The invoice line period must not overlap a delivery change, i.e. a retailer switch, a move out or a move in	The specified invoice line period overlaps a retailer switch, a move out or a move in	
BRS811-14	If the contract type is <i>designated delivery</i> the accounting point's status must be <i>active</i>	Grid fees can not be reported when the contract type is <i>designated delivery</i> and the accounting point's status is not <i>active</i>	

Flows

Normal flow

Rule #	Description	Implemented
BRS811-20	The grid owner registers a grid fee	
BRS811-21	The data hub responds with a successful response	

Exception flow

Rule #	Description	Implemented
BRS811-22	The data hub responds with an error message according to the business rule	

Content in information flows

From grid owner

From Terms and definitions	C	M
Accounting point ID	R	1
Invoice line ID	R	1..*
Invoice line period start	R	1..*
Invoice line period end	R	1..*
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Debit / Credit	R	1..*
Reference to invoice line ID	D	0..*
Invoice line text	R	1..*
Unit price	R	1..*
Price unit	R	1..*

From Terms and definitions	C	M
Quantity	R	1..*
Quantity unit	R	1..*
Amount excluding VAT	R	1..*
VAT rate	R	1..*
Specification	O	0..*

Alternative content in information flows

From grid owner

From Terms and definitions	C	M
Accounting point ID	R	1
Invoice ID	R	1
Invoice date	R	1
Amount excluding VAT (0% VAT)	R	1
Amount excluding VAT (25% VAT)	R	1
Total amount excluding VAT	R	1
Invoice line ID	R	1..*
Invoice line period start	R	1..*
Invoice line period end	R	1..*
Grid tariff ID	D	0..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Debit / Credit	R	1..*
Reference to invoice line ID	R	1..*
Invoice line text	R	1..*
Unit price	R	1..*
Price unit	R	1..*
Quantity	R	1..*
Quantity unit	R	1..*
Amount excluding VAT	R	1..*
VAT rate	R	1..*
Specification	R	1..*

Example:

Attribute	Data
Accounting point ID	73599994612341512
Invoice ID	4512315
Invoice date	2019-05-08
Amount excluding VAT (0% VAT)	0
Amount excluding VAT (25% VAT)	319

Attribute	Data
Total amount excluding VAT	319
Invoice line ID	77451515441
Invoice line period start	2019-04-01
Invoice line period end	2019-05-01
Grid tariff ID	51251
Grid tariff name	Lägenhet 20A
Grid tariff element ID	241515
Grid tariff element name	Årsavgift 20A
Debit / Credit	Debit
Reference to invoice line ID	
Invoice line text	Grundavgift 20 A
Unit price	570
Price unit	kr/år
Quantity	30
Quantity unit	dgr
Amount excluding VAT	46,85
VAT rate	0,25
Specification	
Invoice line ID	77451515442
Invoice line period start	2019-04-01
Invoice line period end	2019-05-01
Grid tariff ID	51251
Grid tariff name	Lägenhet 20A
Grid tariff element ID	241516
Grid tariff element name	Effektkostnad
Debit / Credit	Debit
Reference to invoice line ID	
Invoice line text	Effektavgift
Unit price	42,5
Price unit	kr/kW
Quantity	2,77
Quantity unit	kW
Amount excluding VAT	117,73
VAT rate	0,25
Specification	
Invoice line ID	77451515443
Invoice line period start	2019-04-01
Invoice line period end	2019-05-01
Grid tariff ID	51251
Grid tariff name	Lägenhet 20A
Grid tariff element ID	241517

Attribute	Data
Grid tariff element name	Normal energiskatt
Debit / Credit	Debit
Reference to invoice line ID	
Invoice line text	Energiskatt
Unit price	34,7
Price unit	öre/kWh
Quantity	445
Quantity unit	kWh
Amount excluding VAT	154,42
VAT rate	0,25
Specification	

Reviewed: 2020-09-21

The retailer receives grid fee

Purpose

This BRS describes how a retailer receives a registered grid fee.

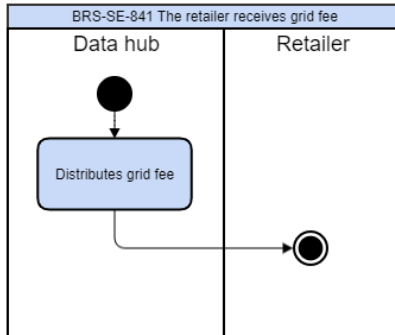


Figure. BRS-SE-841 The retailer receives grid fee

Constraints

Start conditions

Rule #	Description	Implemented
BRS841-1	BRS-SE-811 Register grid fee has been executed	

Stop conditions

Rule #	Description	Implemented
BRS841-2	A grid fee has been distributed to a retailer by the data hub	

Business rules

No validation will be done in the data hub for this process since all validation rules will be performed in other processes.

Flows

Normal flow

Rule #	Description	Implemented
BRS841-3	The data hub sends the grid fee to the retailer	

Content in information flow

From data hub

From Terms and definitions	C	M
Accounting point ID	R	1
Invoice line ID	R	1..*
Invoice line period start	R	1..*
Invoice line period end	R	1..*
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Debit / Credit	R	1..*
Reference to invoice line ID	D	0..*
Invoice line text	R	1..*
Unit price	R	1..*
Price unit	R	1..*
Quantity	R	1..*
Quantity unit	R	1..*
Amount excluding VAT	R	1..*
VAT rate	R	1..*
Specification	D	0..*

Reviewed: 2020-09-21

The retailer requests grid fee

Purpose

This BRS describes how a retailer requests a grid fee. The retailer specifies an invoice line date for a specific accounting point ID and the data hub responds with grid fees containing the specified invoice line date.

E.g. the retailer requests grid fees for 2019-03-05. The data hub will for this case respond with all invoice lines between *Invoice line period start* 2019-03-01 and *Invoice line period end* 2019-03-20. The *Invoice line period end* is 2019-03-20 because the retailer lost the delivery to another retailer at this date. If no transactions that affect the delivery are reported, the *Invoice line period end* will instead be 2019-04-01, i.e all of March.

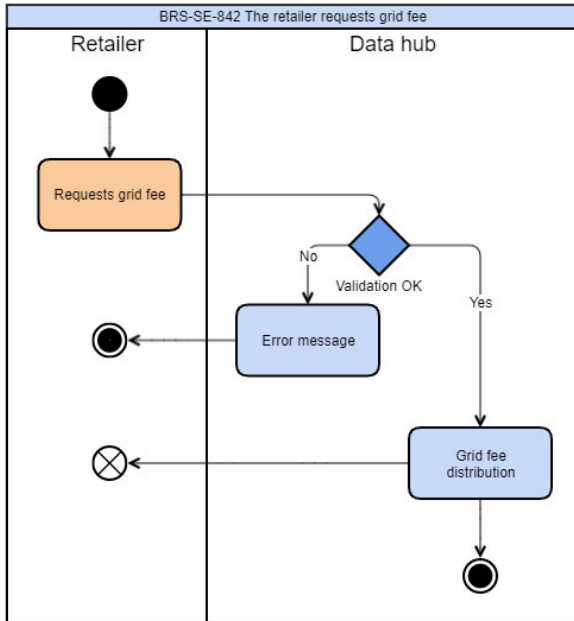


Figure. BRS-SE-842 The retailer requests grid fee

Constraints

Start conditions

Rule #	Description	Implemented
BRS842-1	A retailer has requested a grid fee	

Stop conditions

If accepted

Rule #	Description	Implemented
BRS842-2	The grid fee has been distributed to the retailer	

If rejected

Rule #	Description	Implemented
BRS842-3	The data hub has responded with an error message according to the business rules	

Business rules

Rule #	Description	Error message	Implemented
BRS842-11	The accounting point must exist in the data hub at the invoice line date	The specified accounting point does not exist in the data hub	
BRS842-13	The retailer must have an ongoing delivery for the accounting point at the requested invoice line date	The retailer does not have an ongoing delivery for the specified accounting point at the requested invoice line date	
BRS842-14	There must exist an invoice line at the specified invoice line date	No invoice line can be found at the specified invoice line date	

Flows

Normal flow

Rule #	Description	Implemented
BRS842-20	The retailer requests a grid fee	
BRS842-21	The data hub responds with the grid fee	

Exception flow

Rule #	Description	Implemented
BRS842-22	The data hub responds with an error message according to the business rule	

Content in information flow

From retailer

From Terms and definitions	C	M
Accounting point ID	R	1
Invoice line date	R	1

From data hub

From Terms and definitions	C	M
Accounting point ID	R	1
Invoice line ID	R	1..*
Invoice line period start	R	1..*
Invoice line period end	R	1..*
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Debit / Credit	R	1..*
Reference to invoice line ID	D	0..*
Invoice line text	R	1..*
Unit price	R	1..*
Price unit	R	1..*
Quantity	R	1..*
Quantity unit	R	1..*
Amount excluding VAT	R	1..*
VAT rate	R	1..*
Specification	D	0..*

Reviewed: 2020-09-21

The retailer requests aggregated grid fees

Purpose

This BRS describes how a retailer requests aggregated grid fees. The retailer specifies the calculation month and grid owner counterpart.

E.g. a retailer requests aggregated grid fees for the calculation month February 2019 and specifies the grid owner as counterpart. The data hub responds with aggregated grid fees containing grid fees that have been registered into the data hub between 2019-01-06 and 2019-02-05 that are related to the retailer's deliveries. For more information, see [BRS-SE-8000](#) The data hub aggregates grid fees.

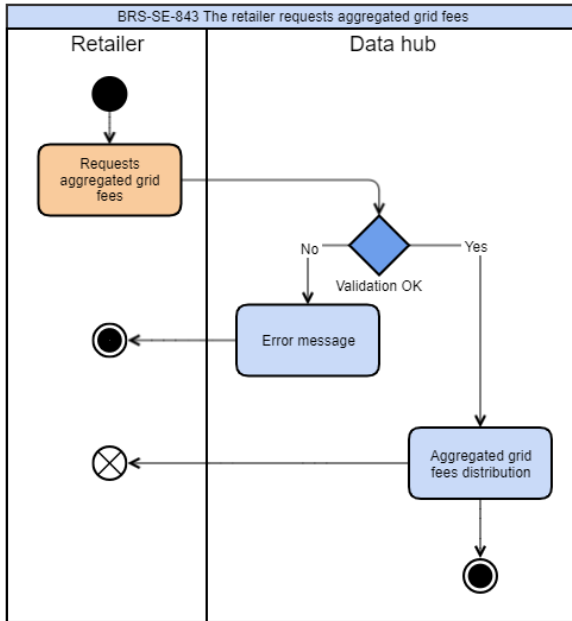


Figure. BRS-SE-843 The retailer requests aggregated grid fees

Constraints

Start conditions

Rule #	Description	Implemented
BRS843-1	A retailer has requested aggregated grid fees	

Stop conditions

If accepted

Rule #	Description	Implemented
BRS843-2	Aggregated grid fees have been distributed to the retailer	

If rejected

Rule #	Description	Implemented
BRS843-3	The data hub has responded with an error message according to the business rules	

Business rules

Rule #	Description	Error message	Implemented
BRS843-11	The calculation month must be in the past	The specified calculation month is in the future, it must be a month that has passed	
BRS843-12	The grid owner counterpart must exist in the data hub	The specified grid owner counterpart does not exist in the data hub	

Flows

Normal flow

Rule #	Description	Implemented
BRS843-20	The retailer requests aggregated grid fees	
BRS843-21	The data hub responds with aggregated grid fees	

Exception flow

Rule #	Description	Implemented
BRS843-22	The data hub responds with an error message according to the business rule	

Content in information flow

From retailer

From Terms and definitions	C	M
Counterpart grid owner ID	R	1
Calculation month	R	1

From data hub

From Terms and definitions	C	M
Grid owner ID	R	1
Retailer ID	R	1
Calculation month	R	1
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Aggregated amount excluding VAT	R	1..*
VAT rate	R	1..*
Invoice line ID	R	1..*

The retailer receives aggregated grid fees

Purpose

This BRS describes how the data hub distributes aggregated grid fees to concerned retailers.

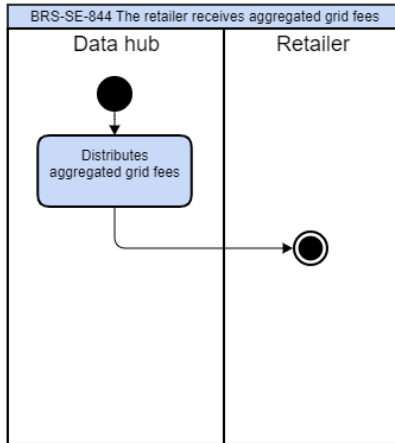


Figure. *BRS-SE-844* The retailer receives aggregated grid fees

Constraints

Start conditions

Rule #	Description	Implemented
BRS844-1	The data hub has executed BRS-SE-8000 The data hub aggregates grid fees	

Stop conditions

Rule #	Description	Implemented
BRS844-2	Aggregated grid fees have been distributed to the retailer	

Business rules

No validation will be done in the data hub for this process since all validation rules will be performed in other processes.

Flows

Normal flow

Rule #	Description	Implemented
BRS844-5	The data hub sends aggregated grid fees to the retailer	

Content in information flow

From data hub

From Terms and definitions	C	M
Aggregation ID	R	1
Grid owner ID	R	1
Retailer ID	R	1
Calculation month	R	1
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Aggregated amount excluding VAT	R	1..*
VAT rate	R	1..*
Invoice line ID	R	1..*

Example suggestion

Attribute	Data
Aggregation ID	854654135
Grid owner ID	14900
Retailer ID	63500
Calculation month	Januari 2019
Grid tariff ID	10001
Grid tariff name	Villa 25A
Grid tariff element ID	100051
Grid tariff element name	Årsavgift
Aggregated amount excluding VAT	324 500
VAT rate	25%
Invoice line ID	4545123
	4545128
	4545132
	4545136
	4545141
	4545144
Grid tariff ID	10001
Grid tariff name	Villa 25A
Grid tariff element ID	100052
Grid tariff element name	Överföring
Aggregated amount excluding VAT	254 321
VAT rate	25%
Invoice line ID	4545153

Attribute	Data
	4545156
	4545159
	4545162
	4545163
	4545168

Reviewed: 2020-09-17

The grid owner requests grid fee

Purpose

This BRS describes how a grid owner requests a grid fee. The grid owner specifies an invoice line date for a specific accounting point ID and the data hub responds with grid fees containing the specified invoice line date.

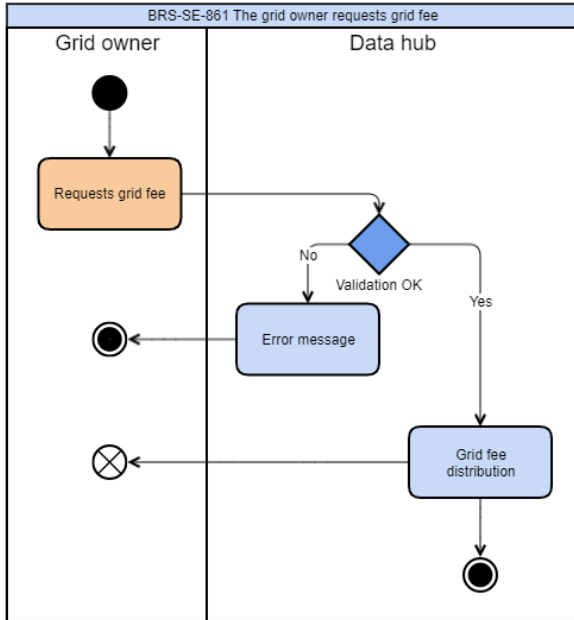


Figure. BRS-SE-861 The grid owner requests grid fee

Constraints

Start conditions

Rule #	Description	Implemented
BRS861-1	A grid owner has requested a grid fee	

Stop conditions

If accepted

Rule #	Description	Implemented
BRS861-2	The grid fee has been distributed to the grid owner	

If denied

Rule #	Description	Implemented
BRS861-3	The data hub has responded with an error message according to the business rules	

Business rules

Rule #	Description	Error message	Implemented
BRS861-11	The accounting point must exist in the data hub at the invoice line date	The specified accounting point does not exist in the data hub	
BRS861-13	The grid owner must, at the requested invoice line date, be the owner of the metering grid area where the accounting point is located	The specified accounting point is not located in a metering grid area owned by the grid owner at the requested invoice line date	
BRS861-14	There must exist an invoice line at the specified invoice line date	No invoice line can be found at the specified invoice line date	

Flows

Normal flow

Rule #	Description	Implemented
BRS861-20	The grid owner requests a grid fee	
BRS861-21	The data hub responds with the grid fee	

Exception flow

Rule #	Description	Implemented
BRS861-22	The data hub responds with an error message according to the business rule	

Content in information flows

From grid owner

From Terms and definitions	C	M
Accounting point ID	R	1
Invoice line date	R	1

From data hub

From Terms and definitions	C	M
Accounting point ID	R	1
Invoice line ID	R	1..*
Invoice line period start	R	1..*
Invoice line period end	R	1..*
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Debit / Credit	R	1..*
Reference to invoice line ID	D	0..*
Invoice line text	R	1..*
Unit price	R	1..*

From Terms and definitions	C	M
Price unit	R	1..*
Quantity	R	1..*
Quantity unit	R	1..*
Amount excluding VAT	R	1..*
VAT rate	R	1..*
Specification	R	0..*

Reviewed: 2020-09-17

The grid owner requests aggregated grid fees

Purpose

This BRS describes how a grid owner requests aggregated grid fees. The grid owner specifies the calculation month and retailer counterpart.

For more information, see [BRS-SE-8000](#) The data hub aggregates grid fees.

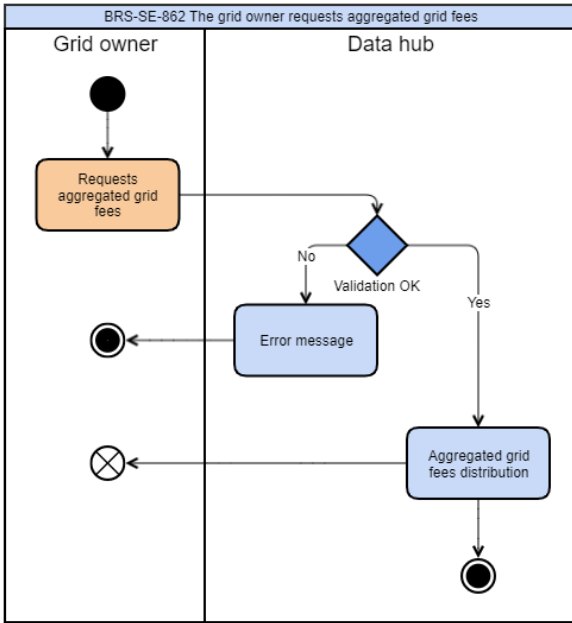


Figure. BRS-SE-862 The grid owner requests aggregated grid fees

Constraints

Start conditions

Rule #	Description	Implemented
BRS862-1	A grid owner has requested aggregated grid fees	

Stop conditions

If accepted

Rule #	Description	Implemented
BRS862-2	Aggregated grid fees have been distributed to the grid owner	

If denied

Rule #	Description	Implemented
BRS862-3	The data hub has responded with an error message according to the business rules	

Business rules

Rule #	Description	Error message	Implemented
BRS862-11	The calculation month must be in the past	The specified calculation month is in the future, it must be a month that has passed	
BRS862-12	The retailer counterpart must exist in the data hub	The specified retailer counterpart does not exist in the data hub	

Flows

Normal flow

Rule #	Description	Implemented
BRS862-20	The grid owner requests aggregated grid fees	
BRS862-21	The data hub responds with aggregated grid fees	

Exception flow

Rule #	Description	Implemented
BRS862-22	The data hub responds with an error message according to the business rule	

Content in information flows

From grid owner

From Terms and definitions	C	M
Counterpart retailer ID	R	1
Calculation month	R	1

From data hub

From Terms and definitions	C	M
Grid owner ID	R	1
Retailer ID	R	1
Calculation month	R	1
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Aggregated amount excluding VAT	R	1..*
VAT rate	R	1..*
Invoice line ID	R	1..*

The grid owner receives aggregated grid fees

Purpose

This BRS describes how the data hub distributes aggregated grid fees to the concerned grid owner.

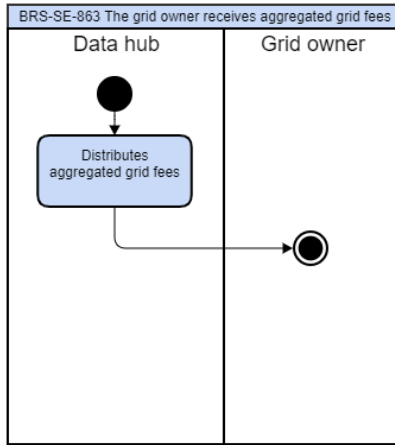


Figure. *BRS-SE-863* The grid owner receives aggregated grid fees

Constraints

Start conditions

Rule #	Description	Implemented
BRS863-1	The data hub has executed BRS-SE-8000 The data hub aggregates grid fees	

Stop conditions

Rule #	Description	Implemented
BRS863-2	Aggregated grid fees have been distributed to the grid owner	

Business rules

No validation will be done in the data hub for this process since all validation rules will be performed in other processes.

Flows

Normal flow

Rule #	Description	Implemented
BRS863-5	The data hub sends aggregated grid fees to the grid owner	

Content in information flows

From data hub

From Terms and definitions	C	M
Aggregation ID	R	1
Grid owner ID	R	1
Retailer ID	R	1
Calculation month	R	1
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Aggregated amount excluding VAT	R	1..*
VAT rate	R	1..*
Invoice line ID	R	1..*

Example suggestion

Attribute	Data
Aggregation ID	854654135
Grid owner ID	14900
Retailer ID	63500
Calculation month	Januari 2019
Grid tariff ID	10001
Grid tariff name	Villa 25A
Grid tariff element ID	100051
Grid tariff element name	Årsavgift
Aggregated amount excluding VAT	324 500
VAT rate	25%
Invoice line ID	4545123
	4545128
	4545132
	4545136
	4545141
	4545144
Grid tariff ID	10001
Grid tariff name	Villa 25A
Grid tariff element ID	100052
Grid tariff element name	Överföring
Aggregated amount excluding VAT	254 321
VAT rate	25%
Invoice line ID	4545153
	4545156
	4545159
	4545162

Attribute	Data
	4545163
	4545168

Reviewed: 2020-09-17

The data hub aggregates grid fees

Purpose

This BRS describes how the data hub aggregates grid fees. This is done the **sixth** day each month. The function aggregates all invoice lines received by the data hub since the last time this function was executed.

Aggregation is done per grid owner and retailer. The aggregated fees are used by the grid owner to invoice the retailer.

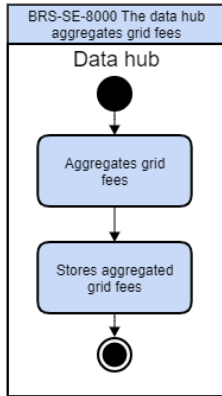


Figure. BRS-SE-8000 The data hub aggregates grid fees - 2

Constraints

Start conditions

Rule #	Description	Implemented
BRS8000-1	The system clock in the data hub has started the process	

Stop conditions

Rule #	Description	Implemented
BRS8000-2	The data hub has stored the aggregated result in the data hub	

Business rules

No validation will be done in the data hub for this process since all validation rules will be performed in other processes.

Flows

Normal flow

Rule #	Description	Implemented
BRS8000-3	The system clock in the data hub starts the process	

Content in information flow

The data hub stores the aggregated result

From Terms and definitions	C	M
Aggregation ID	R	1
Grid owner ID	R	1.
Retailer ID	R	1
Calculation month	R	1
Grid tariff ID	R	1..*
Grid tariff name	R	1..*
Grid tariff element ID	R	1..*
Grid tariff element name	R	1..*
Aggregated amount excluding VAT	R	1..*
VAT rate	R	1..*
Invoice line ID	R	1..*

Example suggestion

Attribute	Data
Aggregation ID	8697458
Grid owner ID	14900
Retailer ID	63500
Calculation month	January 2019
Grid tariff ID	10001
Grid tariff name	Villa 25A
Grid tariff element ID	100051
Grid tariff element name	Årsavgift
Aggregated amount excluding VAT	324 500
VAT rate	25%
Invoice line ID	4545123
	4545128
	4545132
	4545136
	4545141
	4545144
Grid tariff ID	10001
Grid tariff name	Villa 25A
Grid tariff element ID	100052
Grid tariff element name	Överföring
Aggregated amount excluding VAT	254 321
VAT rate	25%
Invoice line ID	4545153

Attribute	Data
	4545156
	4545159
	4545162
	4545163
	4545168

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