



# Enhancing Organic Integrity

Monitoring of supply chain transactions based on grain yield

Gerald A. Herrmann, Kyiv, 25.09.2015





# Challenges in the supply chain:

- Certificate is basis for trade
  - Internal systems have to be maintained to manage the certificates
    - > Bureaucracy, time, challenges regarding time zones and languages
- Certificate is provided by the seller
  - Certificates provided on paper, scanned, pdf etc.
  - Has it still valid in terms of scope, products, status, validity
- Transparency in the supply chain is difficult to be achieved
  - Companies are investing into development of supply chains in terms of product quality, availability, price. Information need to be handled strictly confidential
  - As a buyer it is sometimes hard (if not impossible) to get required information
- Transparency needs to be improved without compromising the confidentiality of data and investment into the supply chain!

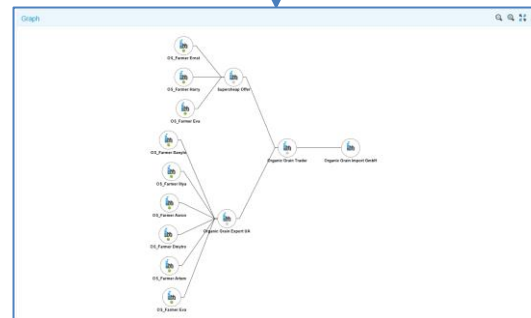


## The solution: Check Organic provides integrity data

- Improve the integrity of products AND respect the confidentiality of data
- Online platform allowing for verification of certification data. Worldwide in real time along the supply chain..
- Provides the buyer solid data raised by certification bodies (not provided by the seller!).
- These certification data can be linked to data of the supply chain (product, volume, buyer, seller, date, amount etc.).
- Plausibility checks and automated notifications can draw the attention to the areas where attention/action is needed and keep you sleep well in case the integrity is proven.

Login

## Volume Monitoring

[illegible]



## Basic information

- Information are based on
  - Certification information gathered from CBs
  - Transaction information gathered from traders
- Information are gathered via Excel upload, manual input or interface (XML web-service)
- All product information are based on a harmonized product nomenclature (based on international custom codes); this allows for data mapping in a multi-lingual data source
- B2B approach, access requires registration
- User pays according to service level; CBs receive a share of turnover based on their certification data



## Supply Chain Monitor

## Volume Monitoring

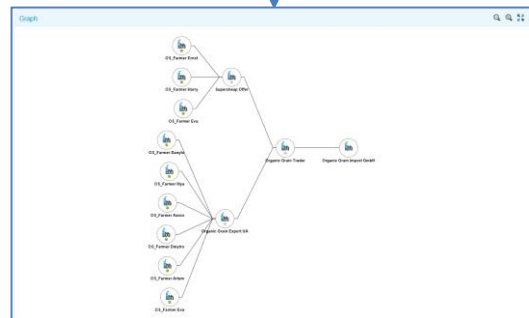
Name

ID

City

Country

Certification body

[illegible]

[www.organic-services.com](http://www.organic-services.com) | [www.check-organic.com](http://www.check-organic.com)




## Verification (single or list of suppliers)


- Find single suppliers by searching for number, name, product, CB. See information about certification (standard, CB, status, validity)
- Set up lists for supply chains and add suppliers to each list. See information about status in traffic light. Sort by status (colour of traffic light)
- Receive information via e-mail in case the status or the scope of certification for a supplier changes



# Supplier Monitor (single search)

 **Check Organic**  
global.supplychain.integrity.

THE GLOBAL ORGANIC  
INTEGRITY PLATFORM

a service offered by  **Organic Services**  
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### ADVANCED SEARCH

Name

ID

City

Country

Certification body

**SEARCH**

Search finished, 1959 items found.

Name	City	Country	Certification body	
Cascadia Creamery (00241243-093F-4283-9904-7B73EEB1ADC0)	98650 Trout Lake	United States	Oregon Tilth Certified Organic (OTCO)	<b>DETAILS</b>
Oregon Soap Company (005A9750-BA99-4B7D-8BFB-ABF8ACCD7F3F)	97293 Portland	United States	Oregon Tilth Certified Organic (OTCO)	<b>DETAILS</b>
Ty & Brooke Kliever (0066530B-A3F5-47A1-A743-CAB6E445E3AF)	97603 Klamath Falls	United States	Oregon Tilth Certified Organic (OTCO)	<b>DETAILS</b>
Tyler Distribution, 8-1 Corn Rd, Dayton, NJ (0070683F-	8810 Dayton	United	International Certification	<b>DETAILS</b>





# Verification (list)



Organic Grain Ukraine

Name, No.
Country
Product
Status
Search

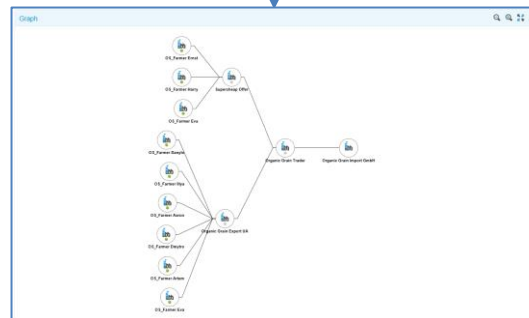
Suppliers
Clients
Monitoring list

Suppliers

Supplier stage	CO ID	Supplier	Address	Country	Status	Company details	Add supplier to sub level
Add new row							
Organic Grain SC Level 1		Organic Grain Trader	Street	TURKEY			+
Organic Grain SC Level 2		Supercheap Offer	strange	MOLDOVA, REPUBLIC OF			+
Organic Grain SC Level 3		OS_Farmer Eva	1258 street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Ernst	1258 street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Harry	1258 street	UKRAINE			+
Organic Grain SC Level 2		Organic Grain Export UA	Street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Artem	1258 street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Eva	1258 street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Dmytro	1258 street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Illya	1258 street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Aaron	1258 street	UKRAINE			+
Organic Grain SC Level 3		OS_Farmer Danylo	1258 street	UKRAINE			+
Organic Grain SC Level 1		Organic Grain Export UA	Street	UKRAINE			+

Login

## Volume Monitoring

[illegible]




# Supply Chain Monitor

- Build supply chains by simply adding suppliers and sub-suppliers.
- In case certification information is available in the system (from the respective CB) the certification status is displayed
- Real time updating through CBs allows for an up to date information about certification status of suppliers in the supply chain.
- All data exportable to Excel



# Supply Chain Monitor / dashboard


Main Menu
Organic Grain Import GmbH | Dashboard
ogi
ECERT

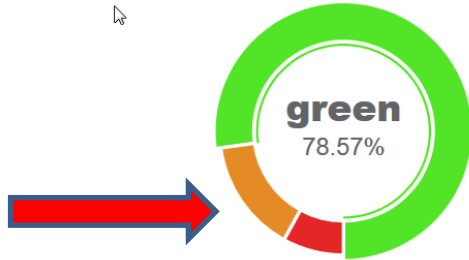
Dashboard
Supply chain list
Supply chain graph
My Profile

### My Company

Organic Grain Import GmbH  
Organic Street. 1-15  
34439 Willebadessen  
GERMANY

### Diagram

Supply chain: Organic Grain Ukraine



**green**  
78.57%

### Suppliers with invalid certification status

CO ID	Supplier	Standard	Status
	OS_Farmer Eva	SCM Standard All	<span style="color: yellow;">●</span>
	OS_Farmer Harry	SCM Standard All	<span style="color: red;">●</span>

### Clients

CO ID	Client	Standard	Status
-------	--------	----------	--------



Main Menu
Organic Grain Import GmbH | Supply chain graph

Dashboard
Supply chain list
Supply chain graph
My Profile

Save
Reset filter

Filter
Name, Number:
Supplier stage:
Client stage:
Supply chain: Organic Grain Ukraine
Supplier stage (Name):
Client stage (Name):
Search

Graph

Company info - Organic Grain SC Level 2
Organic Grain Export UA
Street:
City: UKRAINE
Phone:
Fax:
Email:

Suppliers


Name	CO ID	Street	Postal code, Town	Co
OS_Farmer Artem		street	1258 City	UKF
OS_Farmer Bue		street	1258 City	UKF
OS_Farmer Danylo		street	1258 City	UKF
OS_Farmer Illya		street	1258 City	UKF
OS_Farmer Aaron		street	1258 City	UKF
OS_Farmer Denys		street	1258 City	UKF

Clients

Name	CO ID	Street	Postal code, Town	Co
Organic Grain Trader		Street	Izmir	TUR



# Supply Chain Monitor / filter


Main Menu
 Organic Grain Import GmbH | Supply chain graph
 ogl **ECERT**

Dashboard
 Supply chain list
 **Supply chain graph**
My Profile

Save
 Reset filter

### Filter

Name, Number:
 Supplier stage:
 Client stage:

Supply chain: Organic Grain Ukraine  
 Supplier stage (Name): Organic Grain Ukraine  
 Client stage (Name): Organic Soy Eastern Europe

Search

### Graph

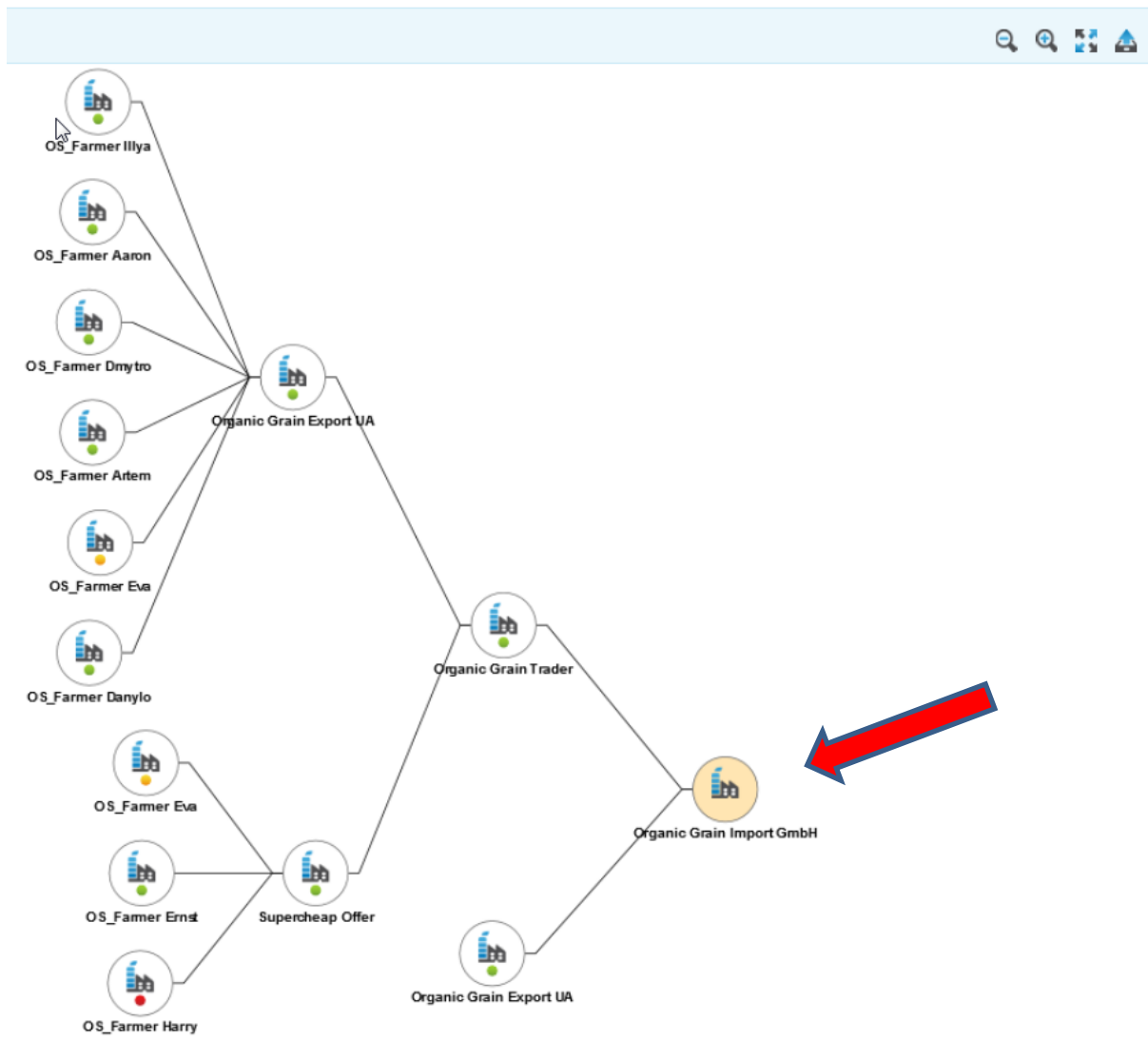
```

graph LR
    OG_EUA[Organic Grain Export UA] --- OS_Farmer_Ilyia[OS_Farmer Ilyia]
    OG_EUA --- OS_Farmer_Aaron[OS_Farmer Aaron]
    OG_EUA --- OS_Farmer_Dmytro[OS_Farmer Dmytro]
    OG_EUA --- OS_Farmer_Artem[OS_Farmer Artem]
    OG_EUA --- OS_Farmer_Eva[OS_Farmer Eva]
    OG_EUA --- OG_Trader[Organic Grain Trader]
    
```

### Company info

**Organic Grain Import GmbH**  
 Organic Street, 1-15  
 34439 Willebadessen  
 GERMANY

Phone:  
 Fax:  
 Email:



### Company info

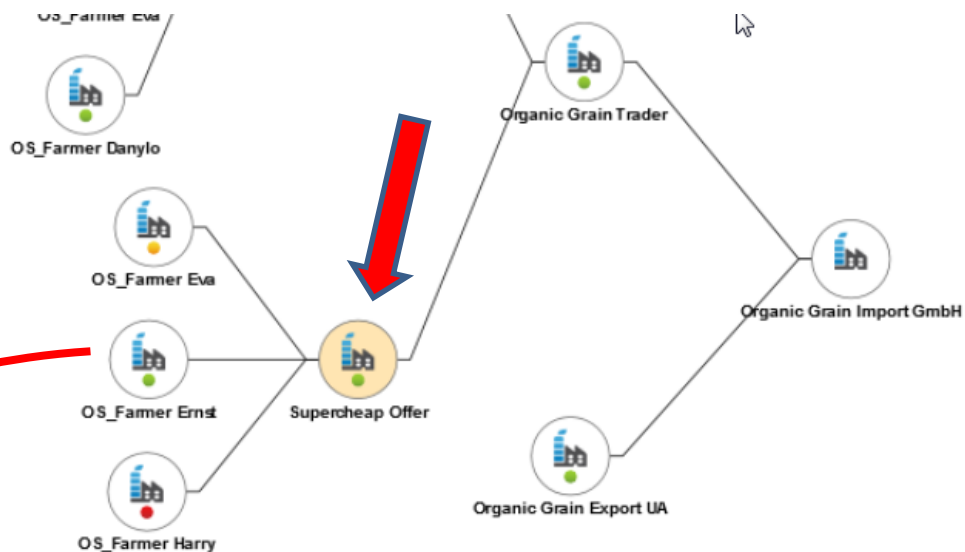
#### Organic Grain Import GmbH

Organic Street. 1-15  
34439 Willebadessen  
GERMANY

Phone:

Fax:

Email:



Suppliers			
Name	CO ID	Street	Postal code, Town
+ Add new row			
OS_Farmer Eva		street	1258 City
OS_Farmer Ernst		street	1258 City
OS_Farmer Harry		street	1258 City

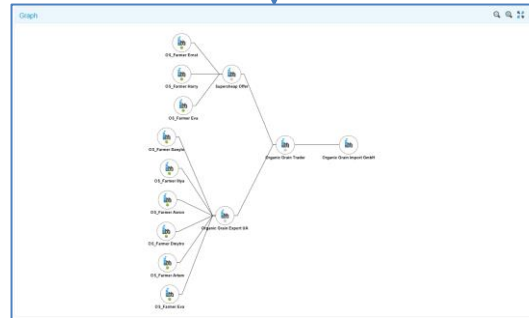
Clients	
Name	
Organic Grain Trader	



Login

## Supply Chain Monitor

## Volume Monitoring



Reason	Register	Productgroup	Product	Certification status
2015	2015			
Certification status supplier		Interpretation supplier		
Certification status customer		Interpretation customer		
<input type="button" value="Search"/>				<p><b>Information:</b></p> <ul style="list-style-type: none"> <li>☑ Always there is a valid certification</li> <li>☐ Some products have no valid certification</li> <li>☐ Some other products have a valid certification</li> <li>☐ No data supplied by CS</li> </ul> <p><b>Legend:</b></p> <ul style="list-style-type: none"> <li>☑ Always there is a valid certification</li> <li>☐ Some other products have a valid certification</li> <li>☐ No data supplied by CS</li> </ul>

Reason	Name	Address	Number of certificates	Interpretation	Productgroup	Product ID	Product description	Ordered amount	Buyer Name	Certification status	Interpretation status
2015	CS_Farmer Name	City street	4	Interpretation	10010000 - Danish wheat		Danish wheat	100 220 t/B	Buyer	☑	☑
					10011000 - Danish wheat		Danish wheat	97 202 t/B	Buyer	☑	☑
					10012000 - Danish wheat		Danish wheat	98 484 t/B	Buyer	☑	☑
					10013010 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	1 430 t/B	Buyer	☑	☑
					10013011 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	200 977 t/B	Buyer	☑	☑
					10013012 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	1 430 t/B	Buyer	☑	☑
					10013013 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	2 564 t/B	Buyer	☑	☑
					10013014 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	1 487 t/B	Buyer	☑	☑
2010	CS_Farmer Group	City street	4	Interpretation	10011000 - 10000100-Danish wheat		Danish wheat	129 776 t/B	Buyer	☑	☑
					10012000 - 10000100-Danish wheat		Danish wheat	289 288 t/B	Buyer	☑	☑
					10013000 - 10000100-Danish wheat		Danish wheat	200 962 t/B	Buyer	☑	☑
					10013010 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	144 760 t/B	Buyer	☑	☑
2015	CS_Farmer Group	City street	4	Interpretation	10011000 - 10000100-Danish wheat		Danish wheat	147 547 t/B	Buyer	☑	☑
					10012000 - 10000100-Danish wheat		Danish wheat	223 900 t/B	Buyer	☑	☑
					10013000 - 10000100-Danish wheat		Danish wheat	184 444 t/B	Buyer	☑	☑
					10013010 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	147 547 t/B	Buyer	☑	☑
					10013011 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	64 516 t/B	Buyer	☑	☑
					10013012 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	132 279 t/B	Buyer	☑	☑
					10013013 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	314 960 t/B	Buyer	☑	☑
					10013014 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	147 547 t/B	Buyer	☑	☑
2015	CS_Farmer Group	City street	4	Interpretation	10011000 - 10000100-Danish wheat		Danish wheat	102 220 t/B	Buyer	☑	☑
					10012000 - 10000100-Danish wheat		Danish wheat	97 202 t/B	Buyer	☑	☑
					10013010 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	184 444 t/B	Buyer	☑	☑
					10013011 - 10000100-Swedish wheat, whether or not bran		Swedish wheat	95 320 t/B	Buyer	☑	☑

a service offered by







# Supplier Volume Monitor

- Certification data are the basis of the system. They are gathered from CBs (and national platforms).
- In addition data are gathered from participating traders. Traders provide data mostly via interface from their ERP system at this time. Small traders may input data manually.
- Based on transactions the **mass balance** is calculated per trader in real time.
- The traffic light system shows certification **and** integrity status
- This system is operational in Italy under Federbio FIP







# Supplier Volume Monitor / traffic lights

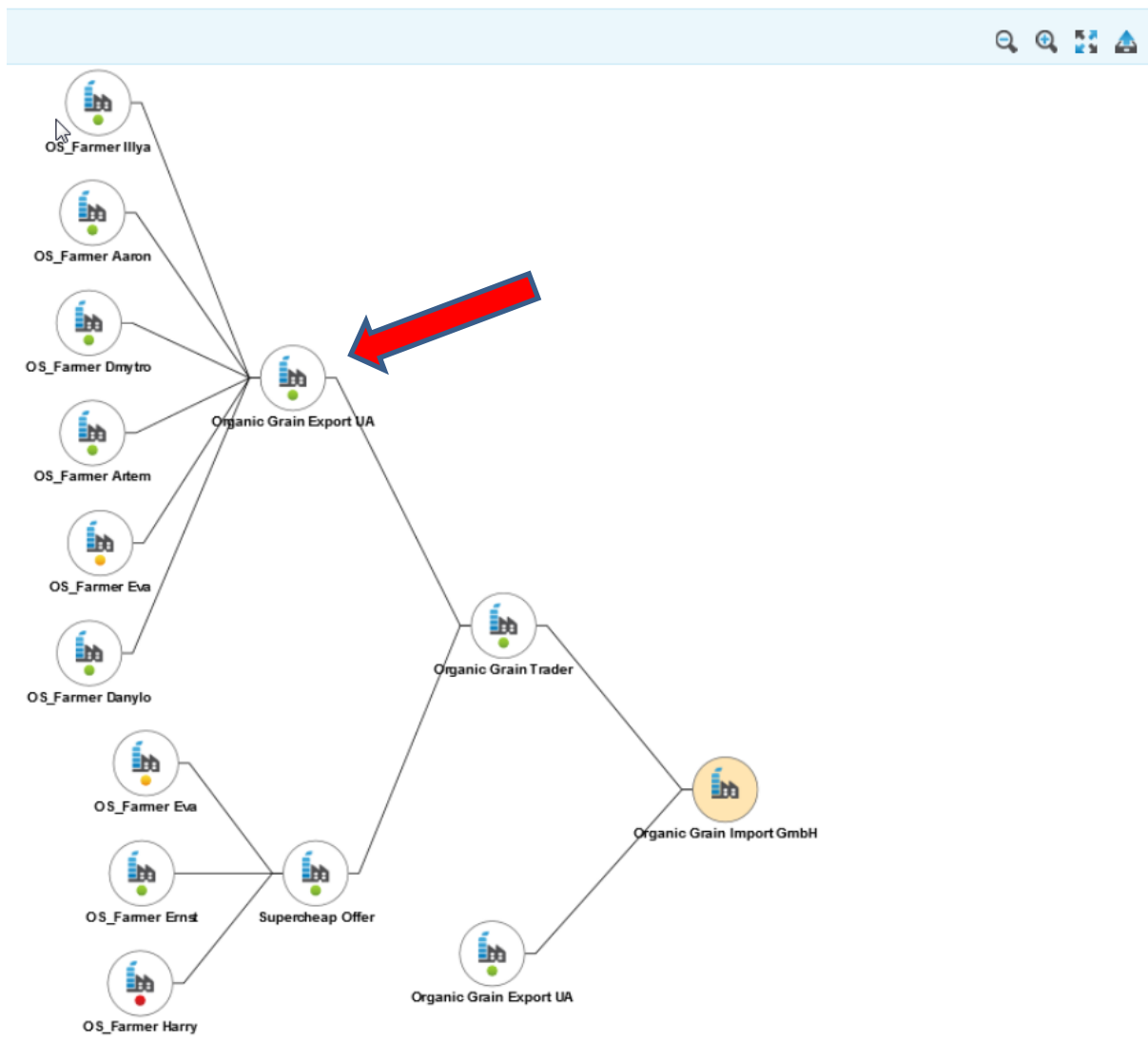
## Certification status:

-  All products have a valid certification.
-  One or more products have a not valid certification.
-  Non of the products have a valid certification.
-  No data submitted by CB.

---

## Integrity status:

-  The delivered amount is in range within the CB data.
-  At least on delivery exceeds the CB data.
-  The delivered amount exceeds the CB data an the tolerances.
-  No data submitted by CB.



#### Company info

##### Organic Grain Import GmbH

Organic Street. 1-15  
34439 Willebadessen  
GERMANY

Phone:

Fax:

Email:



# Organic Grain Export UA – Supplier overview

Season	Name	Address	Number of deliveries in season	Certificationstatus	Intrastat ID	Productgroup	Product ID	Product description	Delivered amount	Bio/Conv	Number of Deliveries	Certificationstatus	Integrity status
2015	OS_Farmer Aaron	City, street	4		10011900	10011900- Durum wheat		Durum wheat	103 220 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	97 320 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	184 484 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broker		Sunflower seed	169 320 kg	Bio	1		
2015	OS_Farmer Artem	City, street	4		10011900	10011900- Durum wheat		Durum wheat	303 973 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	1 131 429 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	334 590 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broker		Sunflower seed	147 587 kg	Bio	1		
2015	OS_Farmer Danylo	City, street	4		10011900	10011900- Durum wheat		Durum wheat	125 775 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	285 288 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	166 025 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broker		Sunflower seed	194 590 kg	Bio	1		
2015	OS_Farmer Dmytr	City, street	4		10011900	10011900- Durum wheat		Durum wheat	224 790 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	233 909 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	184 484 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broker		Sunflower seed	147 587 kg	Bio	1		
2015	OS_Farmer Eva	City, street	4		10011900	10011900- Durum wheat		Durum wheat	542 926 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	1 122 229 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	334 590 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broker		Sunflower seed	147 587 kg	Bio	1		
2015	OS_Farmer Illya	City, street	4		10011900	10011900- Durum wheat		Durum wheat	103 220 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	97 320 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	184 484 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broker		Sunflower seed	169 320 kg	Bio	1		



# OS\_Farmer Artem – Amount Account

Inspection body: ORGANIC STANDARD  
 Season:  \*  
 Supplier:  \*\*  
 Comment:

Farm no.   
 Association:

Crop	Q-Programme	QP-Status	More	Edit	Release area	Release quantity	Locked for interface	Delivered	Status	Certifier	Release at	Valid until	Comment
12019000-Soy beans	EU Organi	Bio				34 590 kg	<input type="checkbox"/>	334 590 kg	Certified		07/09/2015		
12060010-Sunflower seeds, whi	EU Organi	Bio				90 000 kg	<input type="checkbox"/>	147 580 kg	Certified		07/09/2015		
10011900- Durum wheat	EU Organi	Bio				40 000 kg	<input type="checkbox"/>	303 970 kg	Certified		07/09/2015		
10051090-Maize (corn)	EU Organi	Bio				1118000 kg	<input type="checkbox"/>	1 131 429 kg	Certified		07/09/2015		
★ ---	---	---					<input type="checkbox"/>		---				

**History**  

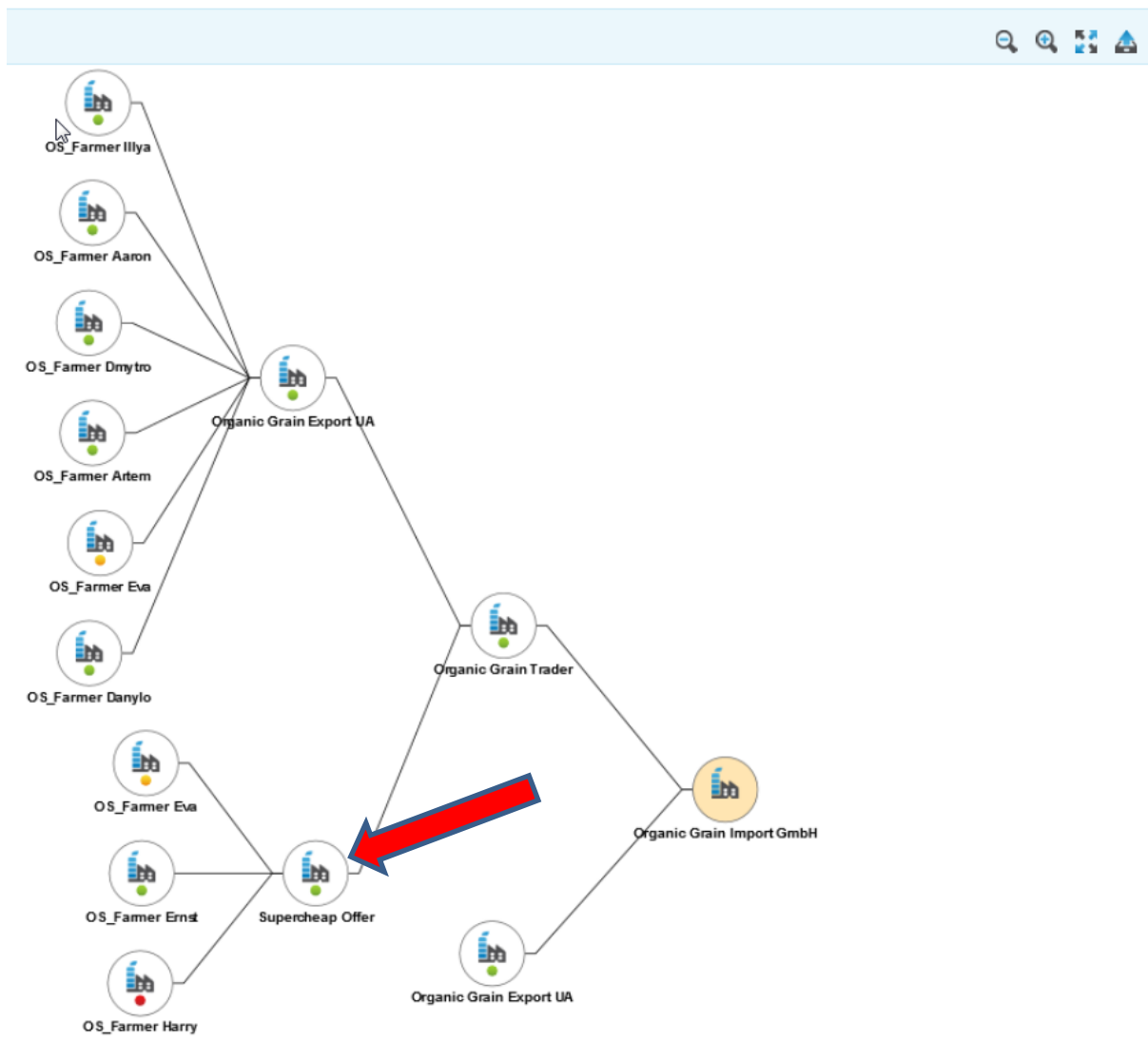
Crop	Q-Programme	QP-Status	More	Release area	Release quantity	Status	Certifier	Release at	Valid until	Comment	TimeStamp
10051090-Maize (corn)	EU Organic Standard	Bio			1 118 000 kg	Certified		07/09/2015			15/09/2015

<< < > >> [ Page 1 of 1 ] Hits: 1



# Organic Grain Export UA – Supplier overview

- OS\_Farmer Artem:
  - Maize (Corn): Integrity status is red, but certification status is green because he has a valid certification. As long as the certifier does not investigate/find out/notice the over-delivery, the status does not change.
- OS\_Farmer Eva
  - Durum wheat: Certification status is invalid (withdrawn), integrity status is automatically invalid → overall certification status is automatically yellow
  - Maize (corn) and soybeans: Integrity status is red because Eva delivered wrong amounts to Organic Grain Export UA



### Company info

#### Organic Grain Import GmbH

Organic Street. 1-15  
34439 Willebadessen  
GERMANY

Phone:
























Fax:

Email:





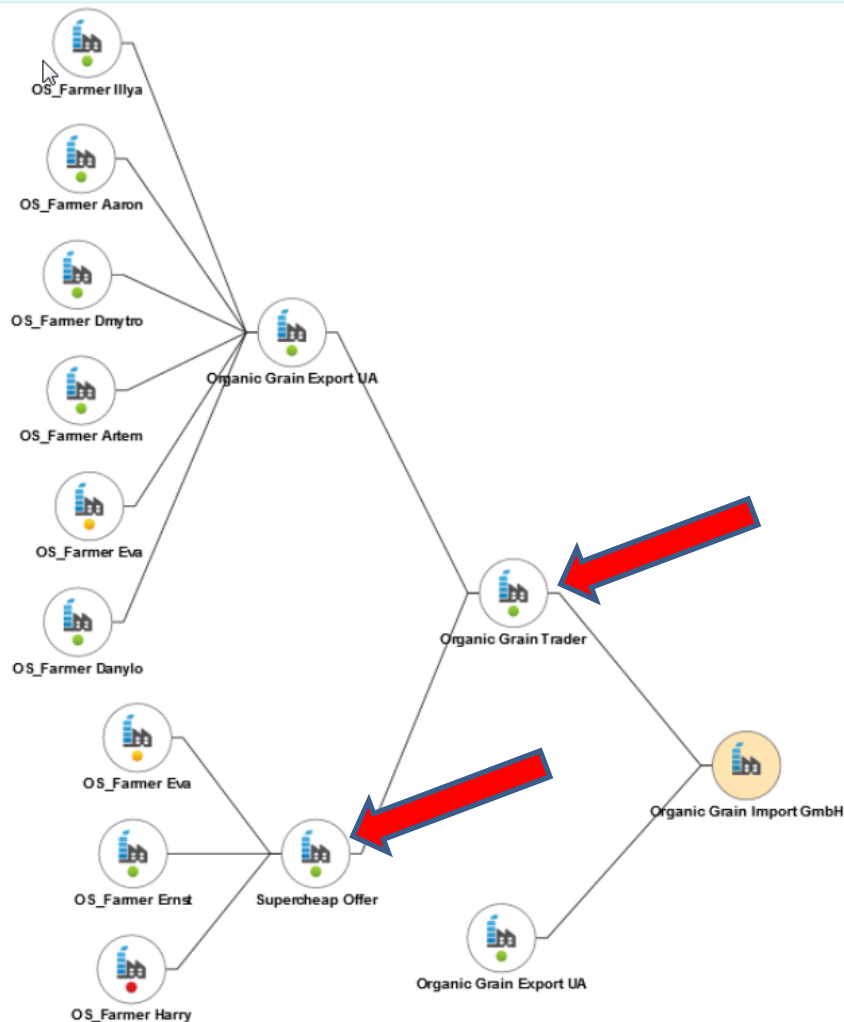
# Supercheap Offer – Supplier overview

Season	Name	Address	Number of deliveries in season	Certificationstatus	Intrastat ID	Productgroup	Product ID	Product description	Delivered amount	Bio/Conv	Number of Deliveries	Certificationstatus	Integrity status
2015	OS_Farmer Ernst	City, street	4		10011900	10011900- Durum wheat		Durum wheat	303 973 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	420 860 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	164 325 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not brol		Sunflower seed	147 587 kg	Bio	1		
2015	OS_Farmer Eva	City, street	2		10051090	10051090-Maize (corn)		Maize (corn)	627 210 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	229 760 kg	Bio	1		
2015	OS_Farmer Harry	City, street	4		10011900	10011900- Durum wheat		Durum wheat	224 790 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	233 909 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	184 484 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not brol		Sunflower seed	147 587 kg	Bio	1		



# Supercheap Offer – Supplier overview

- OS\_Farmer Eva:
  - Overall certification status is yellow (durum wheat has an invalid certification status)
  - Maize (corn) and Soybeans: Certification status is okay, delivery amount is too high
- OS\_Farmer Harry
  - All products: Certification status is invalid (withdrawn), integrity status is automatically invalid



### Company info

#### Organic Grain Import GmbH

Organic Street. 1-15  
34439 Willebadessen  
GERMANY

Phone:





Fax:

Email:





















# Supercheap - Inventory

## Organic Grain Trader Turkey – Supplier overview

Storage section	Store	Product	Quantity	Batch Number	Harvestseason	Integrity status
Supercheap Offer SC1		Soybeans, Bio	578 569 kg	CH380	2015	
Supercheap Offer SC1		Durum wheat, Bio	528 763 kg	CH378	2015	
Supercheap Offer SC1		Maize (corn), Bio	861 119 kg	CH386	2015	
Supercheap Offer SC1		Sunflower seed, Bio	295 174 kg	CH383	2015	
			2 263 625 kg			

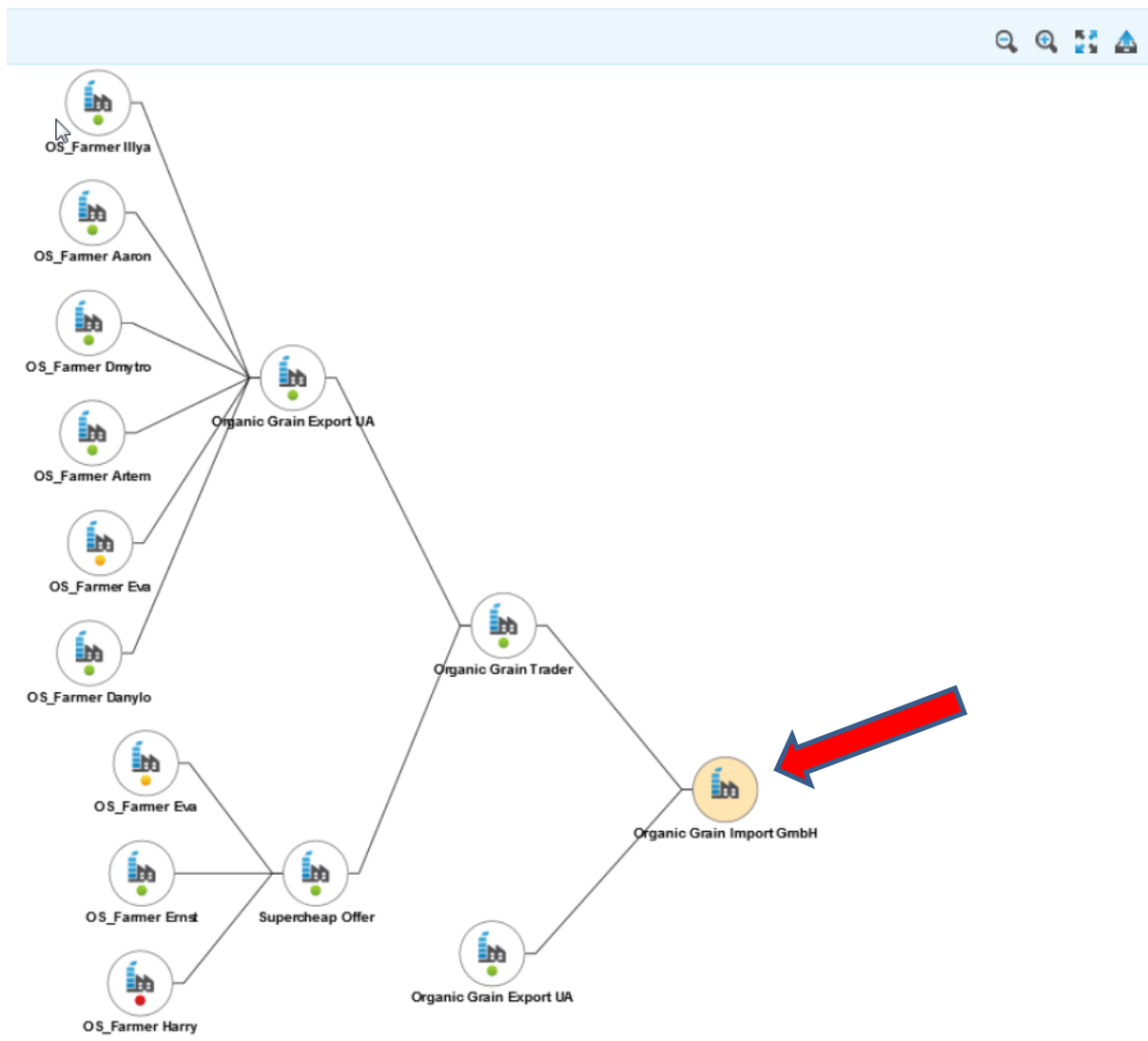
<< < > >> [ Page 1 of 1 ] Hits: 4

Season	Name	Address	Number of deliveries in season	Certificationstatus	Intrastat ID	Productgroup	Product ID	Product description	Delivered amount	Bio/Conv	Number of Deliveries	Certificationstatus	Integrity status
2015	Organic Grain Export UA T 01	12301 City 01, Street 01	4		10011900	10011900- Durum wheat		Durum wheat	1 350 000 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	2 960 000 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	1 350 000 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broken		Sunflower seed	900 000 kg	Bio	1		
2015	Supercheap Offer	Capetown, strange	4		10011900	10011900- Durum wheat		Durum wheat	450 000 kg	Bio	1		
					10051090	10051090-Maize (corn)		Maize (corn)	1 250 000 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	500 000 kg	Bio	1		
					12060010	12060010-Sunflower seeds, whether or not broken		Sunflower seed	300 000 kg	Bio	1		



# Organic Grain Trader Turkey – Supplier overview

- Organic Grain Export UA
  - Durum wheat: Eva's certification status is invalid (withdrawn), integrity status is automatically invalid
  - Maize (corn): Integrity status is yellow because Eva and Artem have an invalid integrity status
  - Soybeans: Integrity status is yellow because Eva has an invalid integrity status
- Supercheap Offer
  - Durum wheat, Maize (corn), Soybeans: Integrity status is yellow because Eva and Harry have an invalid integrity status
  - Sunflower: Red status because Supercheap Offer delivered more than he has bought



### Company info

#### Organic Grain Import GmbH

Organic Street. 1-15  
34439 Willebadessen  
GERMANY















Phone:

Fax:

Email:



# Organic Grain Import GmbH – Supplier overview

Season	Name	Address	Number of deliveries in season	Certificationstatus	Intrastat ID	Productgroup	Product ID	Product description	Delivered amount	Bio/Conv	Number of Deliveries	Certificationstatus	Integrity status
2015	Organic Grain Export UA T 01	12301 City 01, Street 01	2		10051090	10051090-Maize (corn)		Maize (corn)	50 000 kg	Bio	1		
					12019000	12019000-Soy beans		Soybeans	825 000 kg	Bio	1		
2015	Organic Grain Trader	Izmir, Street	8		10011900	10011900- Durum wheat		Durum wheat	1 775 000 kg	Bio	2		
					10051090	10051090-Maize (corn)		Maize (corn)	4 160 000 kg	Bio	2		
					12019000	12019000-Soy beans		Soybeans	1 835 000 kg	Bio	2		
					12060010	12060010-Sunflower seeds, whether or not broken		Sunflower seed	1 200 000 kg	Bio	2		



# Thank you

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