



FoodChain Lab Training, Luxembourg, 21st January 2020
16:00 – 16:30

A new tool for guided data extraction from RASFF notifications

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European Food Safety Authority (EFSA)
Assessment and Methodological Support Unit (AMU)

Trusted science for safe food



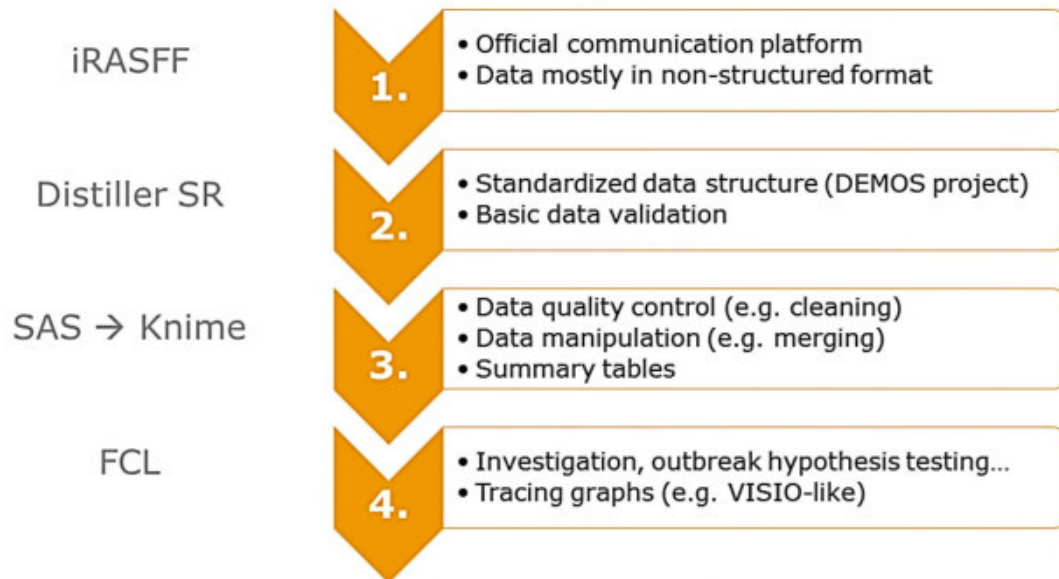
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Piloted and tested WORKFLOW in EFSA



WORKFLOW – pros and cons



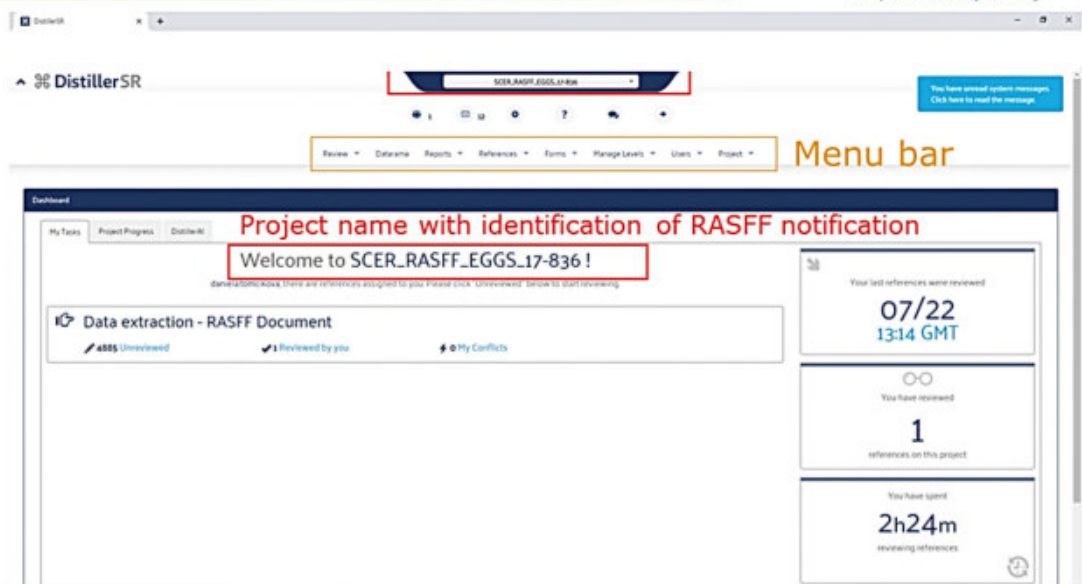
Advantages	Disadvantages
Structured data format	Doubled data insertion (MS into iRASFF and EFSA into DistillerSR)
Reproducible data analysis	Extra - licences for DistillerSR
Team-work in real-time (multiple users working on the same project in DistillerSR)	
Tools with user-friendly environment that are already used by EFSA or by some member states	
More efficient ROA support	

Distiller SR

- Proprietary software for literature reviews
- Ensures contemporary work of the entire team on one project
- User-defined hierarchical type of data model
- Data-storage and download of the (manually) inserted data in tabular format

Investigation

Investigation
= RASFF notification



Menu bar

Project name with identification of RASFF notification

Welcome to SCER_RASFF_EGGS_17-836 !

Data extraction - RASFF Document

4855 Unreviewed 1 Reviewed by you My Conflicts

Your last references were reviewed

07/22 13:14 GMT

You have reviewed

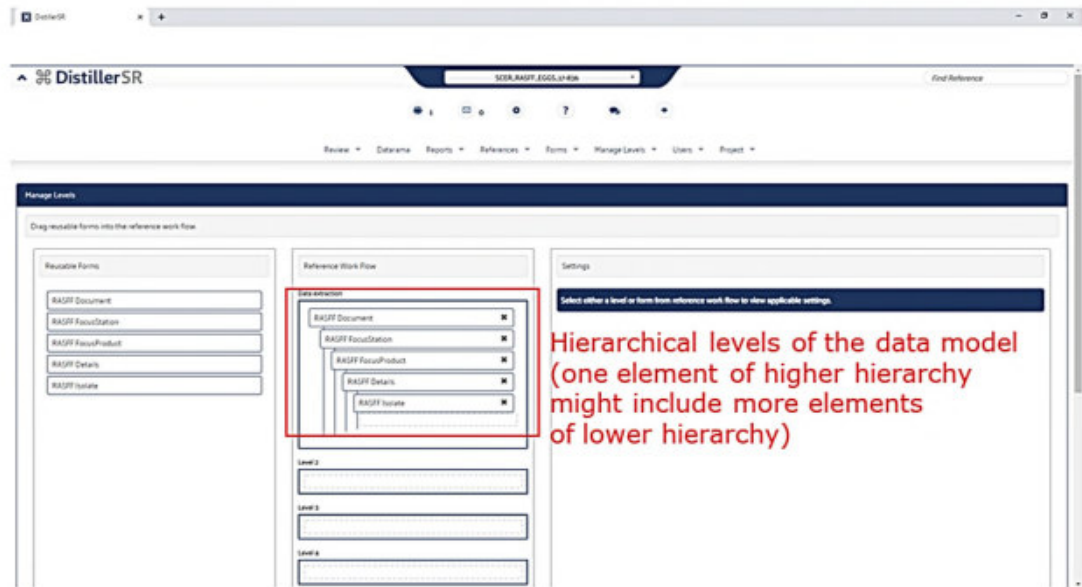
1 references on this project

You have spent

2h24m reviewing references

Hierarchical structure

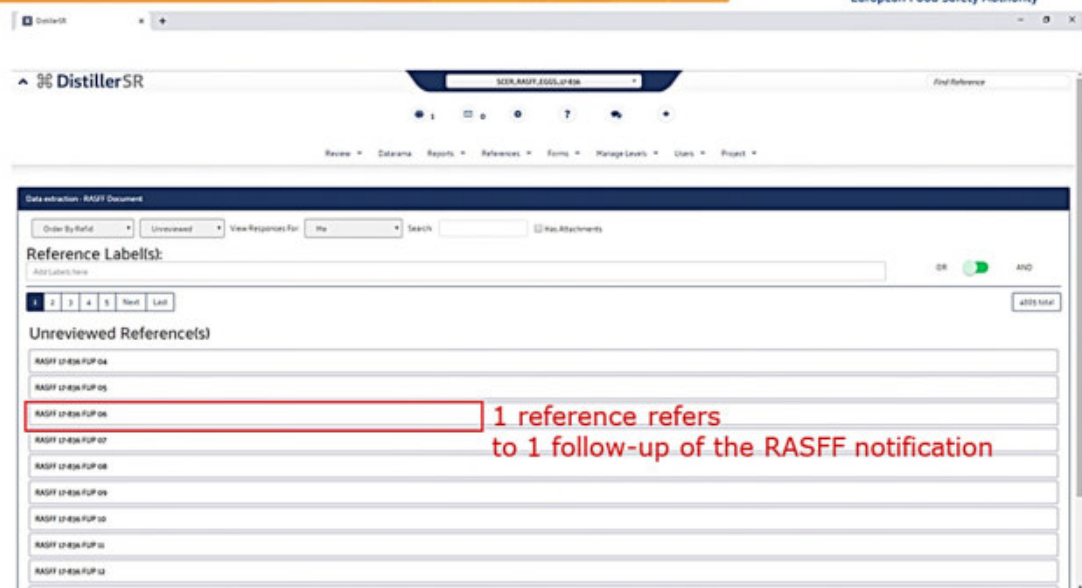
Hierarchical tables:
Document → Station
→ Product → Details
(→ Isolates)



Hierarchical levels of the data model (one element of higher hierarchy might include more elements of lower hierarchy)

Information (documents)

Information = Follow-up

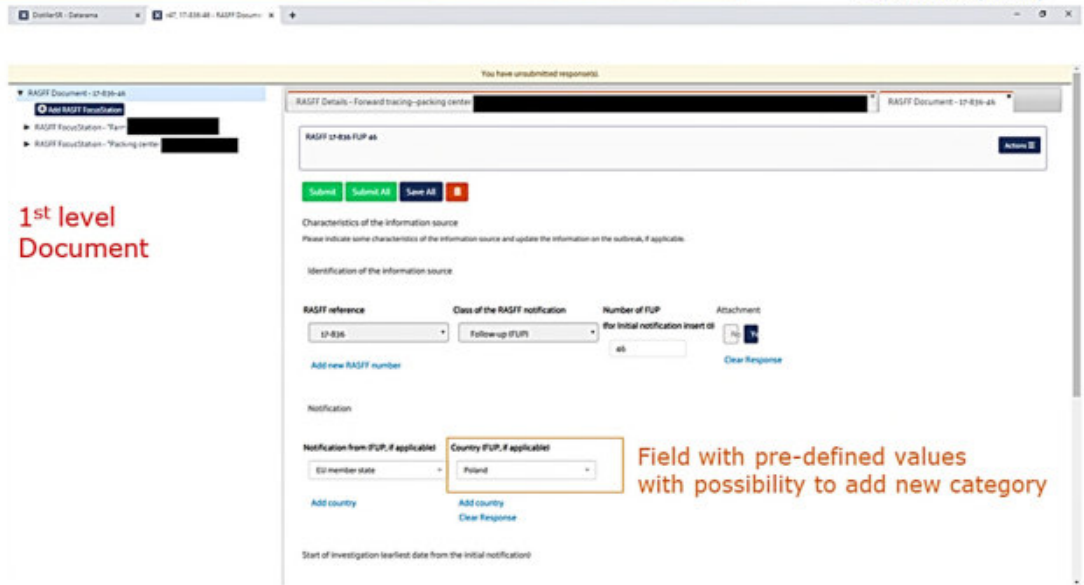


1 reference refers to 1 follow-up of the RASFF notification

Document (1/2)

Document:
RASFF no. / FUP no.
Country ...

1st level
Document



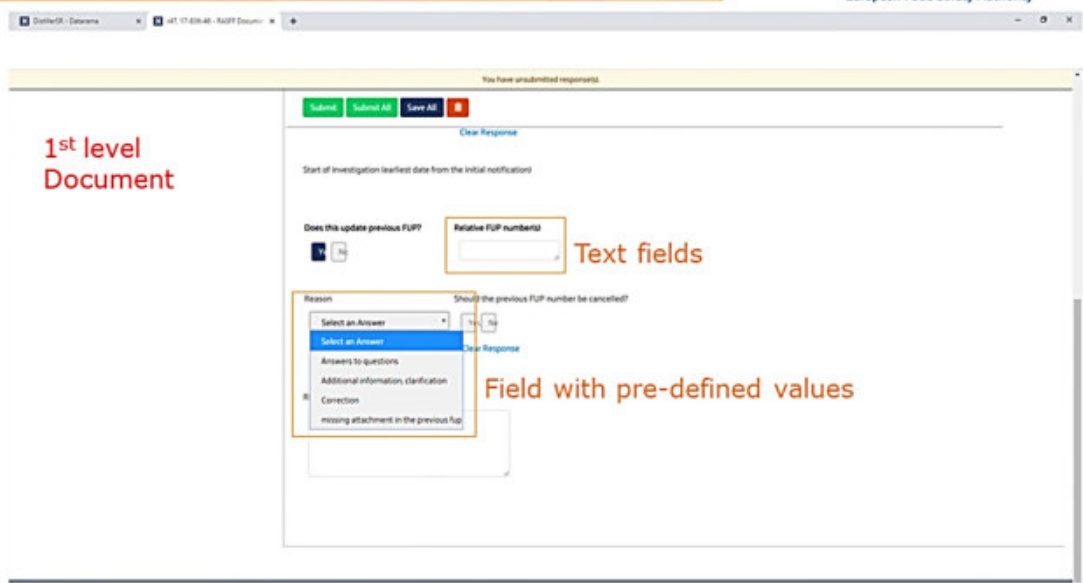
The screenshot shows the 'RASFF Details - Forward tracing-packing center' form. It includes a sidebar with navigation options, a top navigation bar, and a main content area. The main content area has several sections: 'RASFF 12-836 FUP as', 'Characteristics of the information source', 'Identification of the information source', 'Notification', and 'Start of investigation (earliest date from the initial notification)'. The 'Identification of the information source' section contains a table with columns: 'RASFF reference', 'Class of the RASFF notification', 'Number of FUP', and 'Attachment for initial notification insert of'. The 'Notification' section contains a table with columns: 'Notification from FUP, if applicable' and 'Country FUP, if applicable'. The 'Country FUP, if applicable' field is highlighted with a red box and labeled 'Field with pre-defined values with possibility to add new category'.

Field with pre-defined values
with possibility to add new category

Document (2/2)

Correction
Reason

1st level
Document



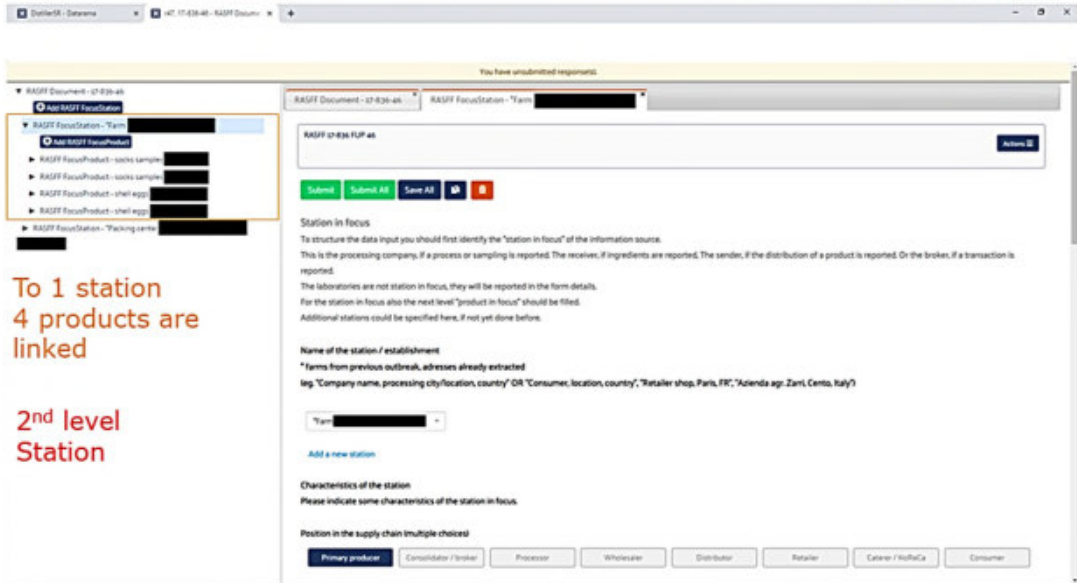
The screenshot shows the 'RASFF Details - Forward tracing-packing center' form, specifically the 'Correction Reason' section. It includes a sidebar, a top navigation bar, and a main content area. The main content area has several sections: 'Start of investigation (earliest date from the initial notification)', 'Does this update previous FUP?', 'Relative FUP number?', 'Reason', and 'Should the previous FUP number be cancelled?'. The 'Reason' section contains a dropdown menu with options: 'Select an Answer', 'Answers to questions', 'Additional information, clarification', and 'Correction'. The 'Correction' option is highlighted with a red box and labeled 'Field with pre-defined values'. The 'Relative FUP number?' field is highlighted with a red box and labeled 'Text fields'.

Text fields

Field with pre-defined values

Station (1/3)

Station:
Establishment, Case, ...



**To 1 station
4 products are
linked**

**2nd level
Station**

Station in focus
To structure the data input you should first identify the "station in focus" of the information source. This is the processing company, if a process or sampling is reported. The receiver, if ingredients are reported. The sender, if the distribution of a product is reported. Or the broker, if a transaction is reported.
The laboratories are not station in focus, they will be reported in the form details.
For the station in focus also the next level "product in focus" should be filled.
Additional stations could be specified here, if not yet done before.

Name of the station / establishment
*farms from previous outbreak, addresses already extracted
eg. "Company name, processing city/location, country" OR "Consumer, location, country", "Retailer shop, Paris, FR", "Azienda agr. Zari, Canto, Italy"

Position in the supply chain (multiple choice)
 Primary producer Consolidator / broker Processor Wholesaler Distributor Retailer Caterer / HoReCa Consumer

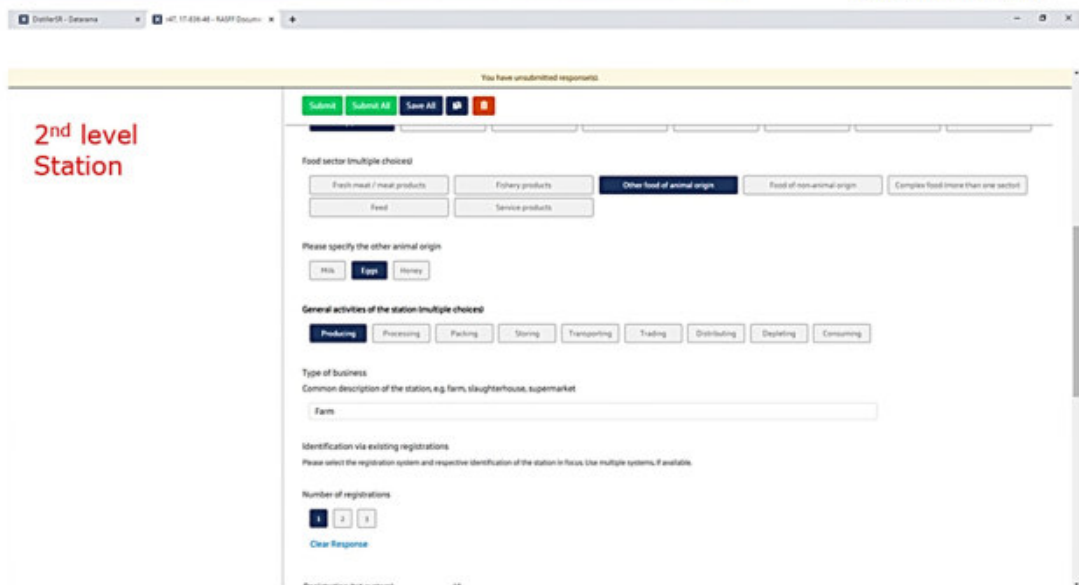
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Station (2/3)

Food sector
General activities
ID no.



**2nd level
Station**

Food sector (multiple choice)
 Fresh meat / meat products Fishery products Other food of animal origin Food of non-animal origin Complex food (more than one sector)

Please specify the other animal origin
 Milk Eggs Honey

General activities of the station (multiple choice)
 Packaging Processing Packing Storing Transporting Trading Distributing Displaying Consuming

Type of business
Common description of the station, e.g. farm, slaughterhouse, supermarket
Farm

Identification via existing registrations
Please select the registration system and respective identification of the station in focus. Use multiple systems, if available.

Number of registrations

[Clear Response](#)

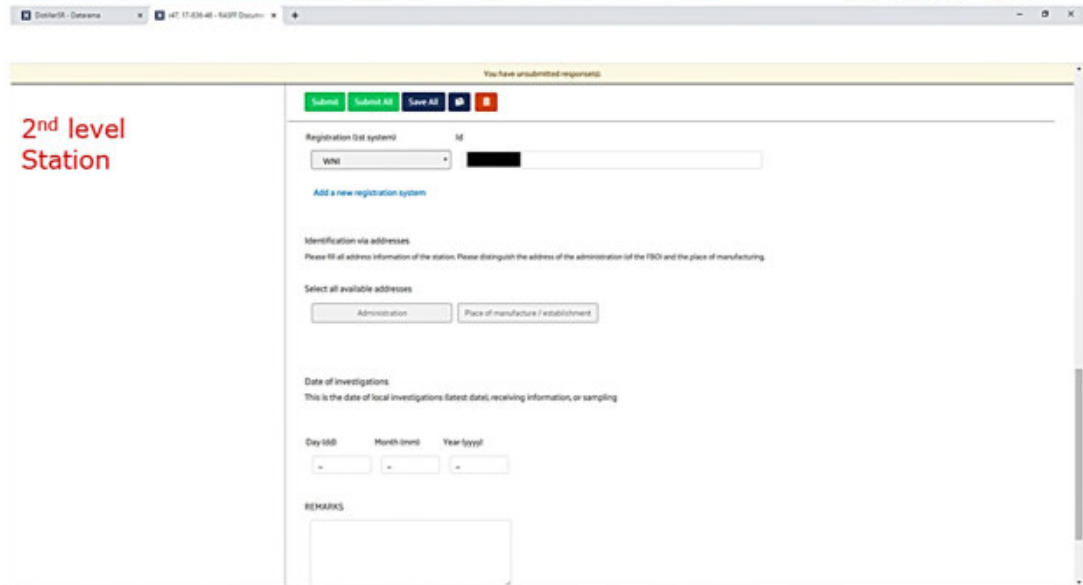
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Station (3/3)

Addresses (FBO, establishment)
Date of investigations



2nd level Station

You have unsubmitted responses

Submit Submit All Save All

Registration list system: M
WNI [redacted]

Add a new registration system

Identification via addresses
Please fill all address information of the station. Please distinguish the address of the administration of the FBO and the place of manufacturing.

Select all available addresses
 Administration Place of manufacture / establishment

Date of investigations
This is the date of local investigations (latest date, receiving information, or sampling)

Day MM Month MM Year YYYY
- - -

REMARKS

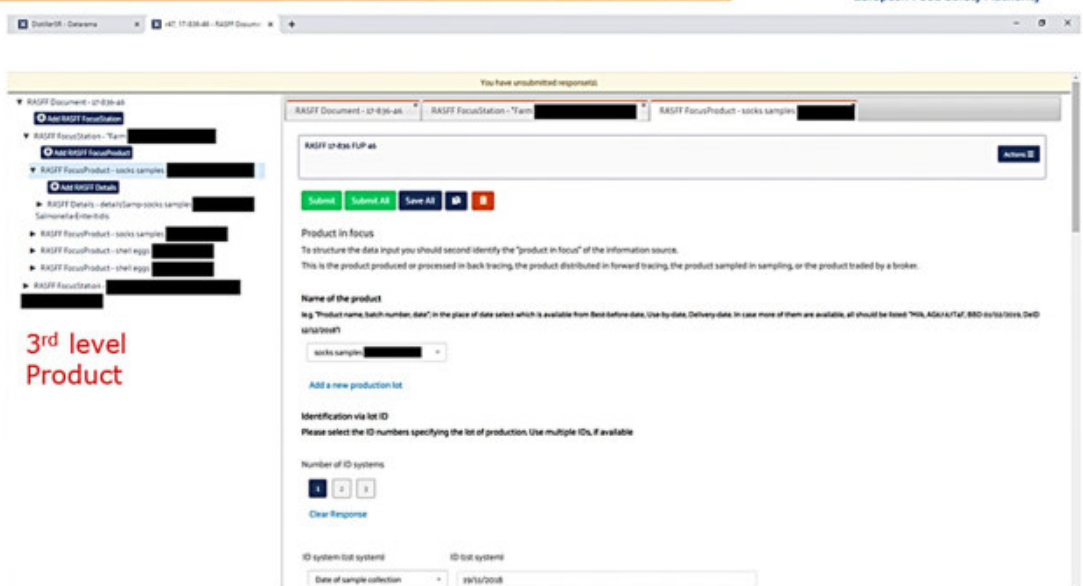
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Product (1/4)

Product:
Food, feed, samples
ID no.



3rd level Product

You have unsubmitted responses

RASF Document - 121830-48

RASF FocusStation - "Farm" [redacted]

RASF FocusProduct - socks sample [redacted]

RASF FocusStation - [redacted]

RASF FocusProduct - socks sample [redacted]

RASF FocusProduct - other eggs [redacted]

RASF FocusProduct - other eggs [redacted]

RASF FocusStation - [redacted]

RASF Document - 121830-48

RASF FocusStation - "Farm" [redacted]

RASF FocusProduct - socks sample [redacted]

RASF 121830-FUP as [redacted] [Action ID]

Submit Submit All Save All

Product in focus
To structure the data input you should second identify the "product in focus" of the information source.
This is the product produced or processed in back tracing, the product distributed in forward tracing, the product sampled in sampling, or the product traded by a broker.

Name of the product
Eg. "Product name, batch number, date" in the place of date select which is available from Best before date, Use by date, Delivery date. In case more of them are available, it should be listed "Y01, AGA14/14, BBD 10/10/2016, DED 10/10/2016".

socks sample [redacted]

Add a new production lot

Identification via lot ID
Please select the ID numbers specifying the lot of production. Use multiple IDs, if available.

Number of ID systems
1 2 3

Clear Response

ID system list system ID list system
Date of sample collection 19/10/2018

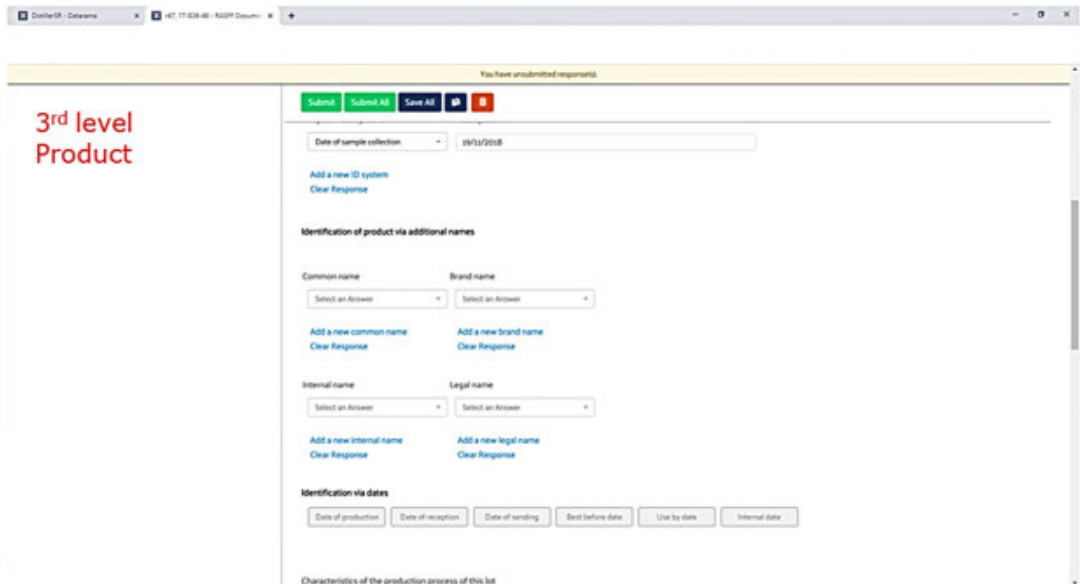
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Product (2/4)

Names
Dates



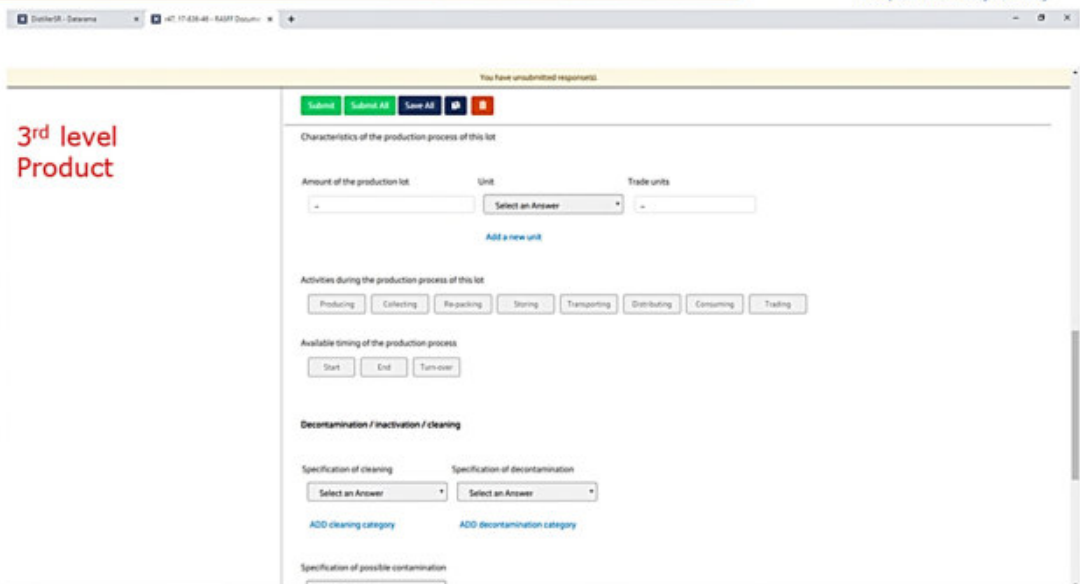
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Product (3/4)

Amount
Processing (Dates)
Decontaminations



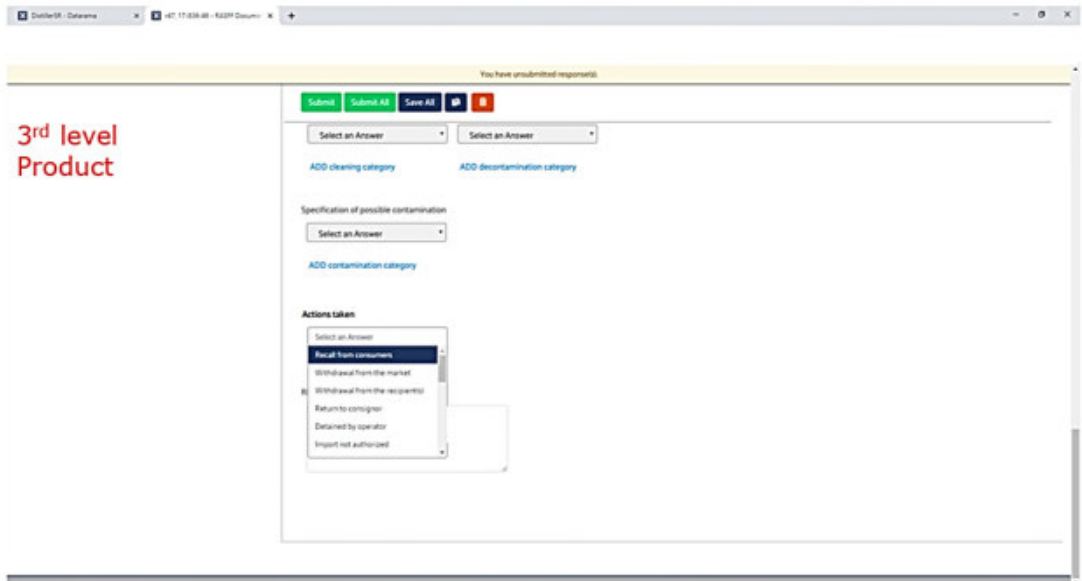
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Product (4/4)

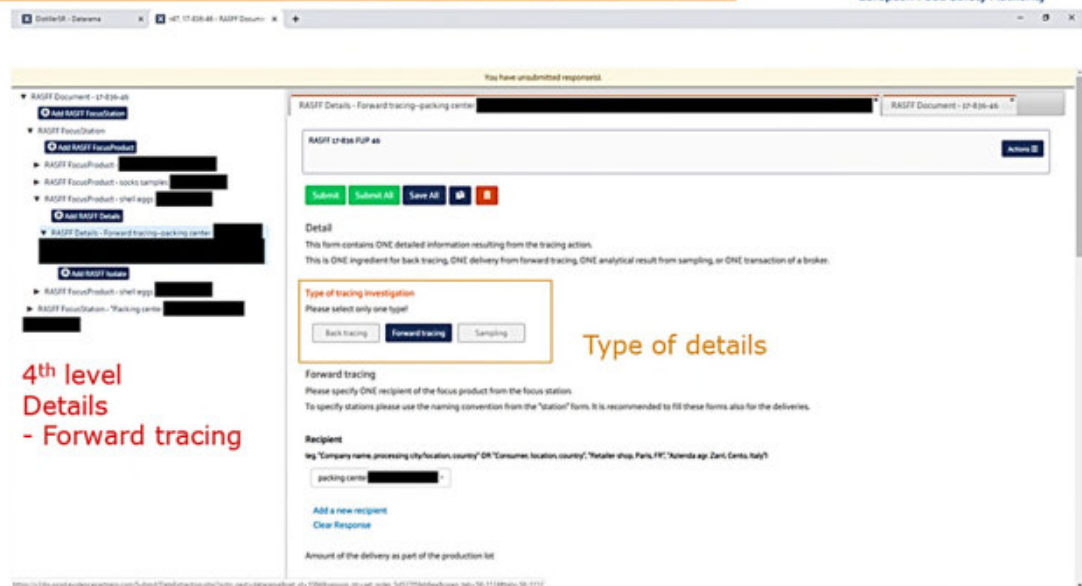
Actions taken (measures)



The screenshot shows the 'Product' page in the RASFF system. On the left, the text '3rd level Product' is displayed in red. The main form area contains several sections: 'ADD cleaning category', 'ADD decontamination category', 'Specification of possible contamination' with a 'Select an Answer' dropdown, 'ADD contamination category', and 'Actions taken'. The 'Actions taken' dropdown menu is open, showing options: 'Recall from consumers', 'Withdrawal from the market', 'Withdrawal from the recipient', 'Return to originator', 'Detained by operator', and 'Import not authorized'.

Details (1/10): Forward tracing

Details:
Forward tracing
Recipient

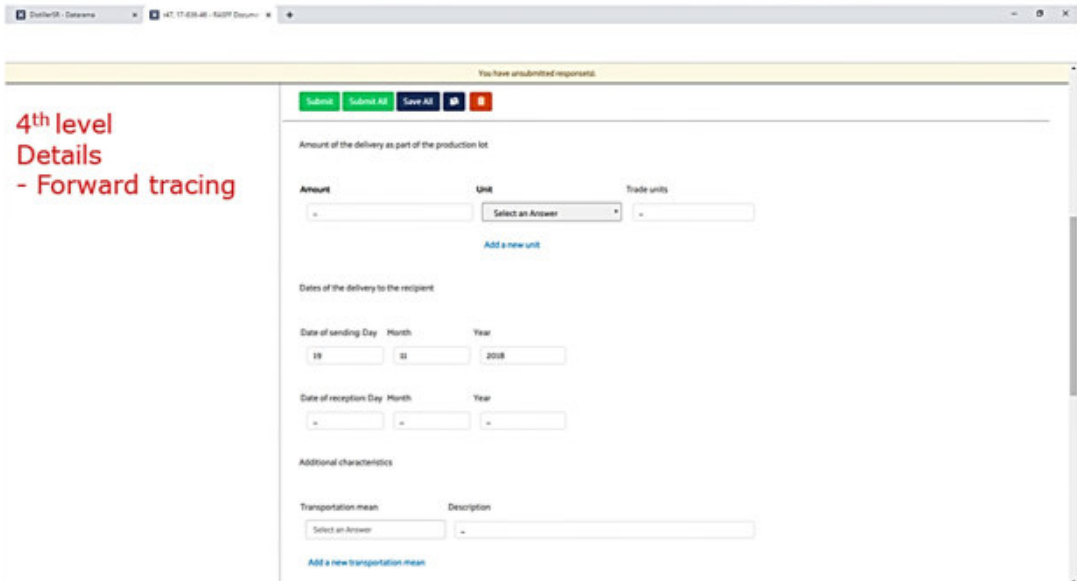


The screenshot shows the 'Details (1/10): Forward tracing' page in the RASFF system. On the left, the text '4th level Details - Forward tracing' is displayed in red. The main form area includes a 'RASFF Details - Forward tracing - packing centre' header, a 'RASFF 12-03-05' field, and a 'Detail' section. The 'Type of tracing investigation' section has radio buttons for 'Back tracing', 'Forward tracing' (which is selected), and 'Sampling'. Below this, the 'Forward tracing' section asks for the recipient and includes a 'Recipient' dropdown menu with 'packing centre' selected. There are also links for 'Add a new recipient' and 'Clear Response'.

Details (2/10): Forward tracing

Amount
Dates

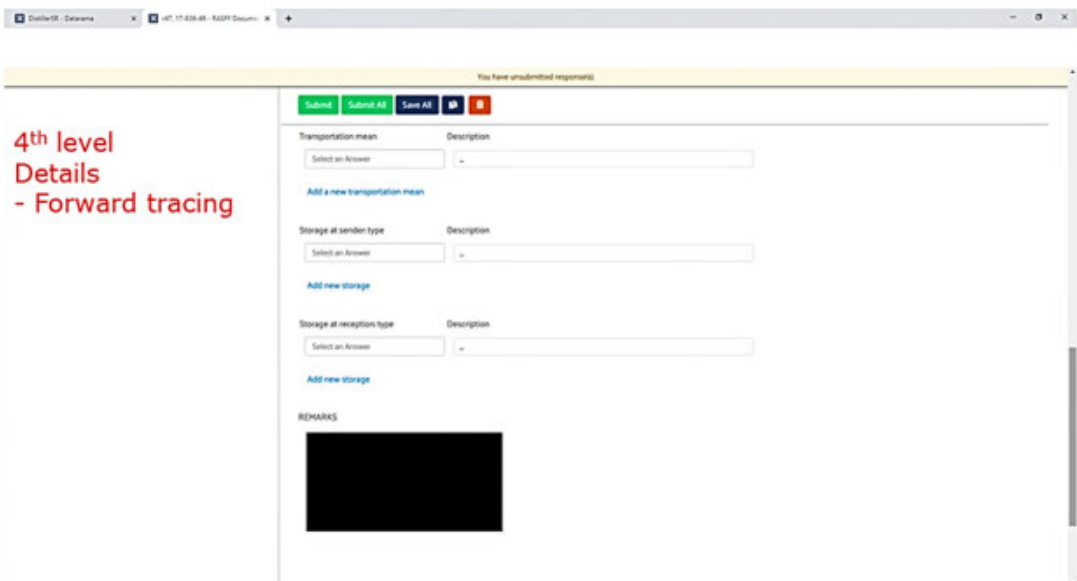
4th level
Details
- Forward tracing



Details (4/10): Forward tracing

Transportation
Storage
Remarks

4th level
Details
- Forward tracing



Details (4/10): Backward tracing

Details:
Back tracing
Supplier

4th level
Details
- Backward tracing

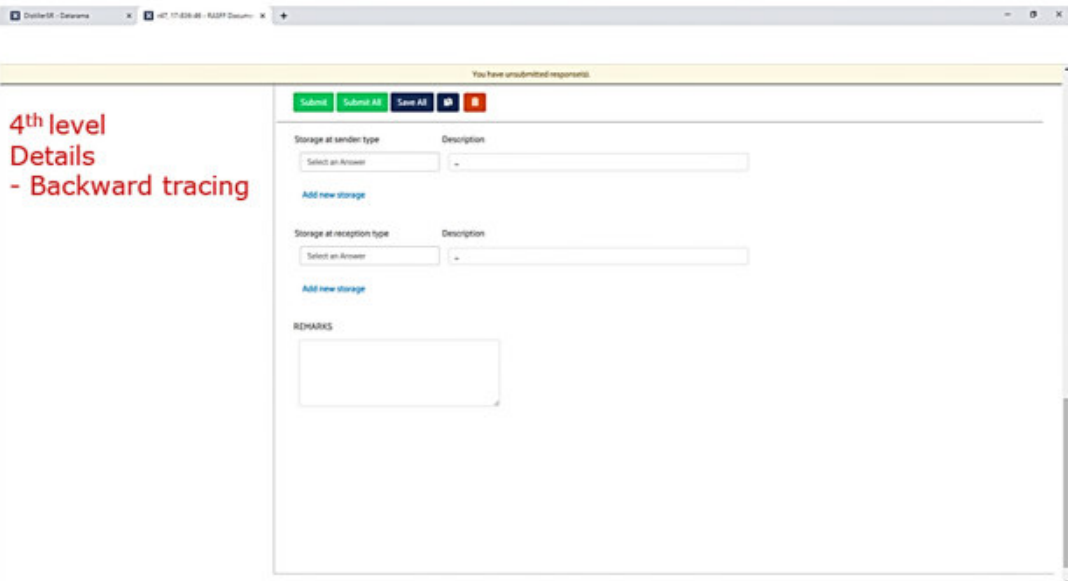
Details (5/10): Backward tracing

Ingredient
Amount
Dates

4th level
Details
- Backward tracing

Details (6/10): Backward tracing

Storage
Remarks

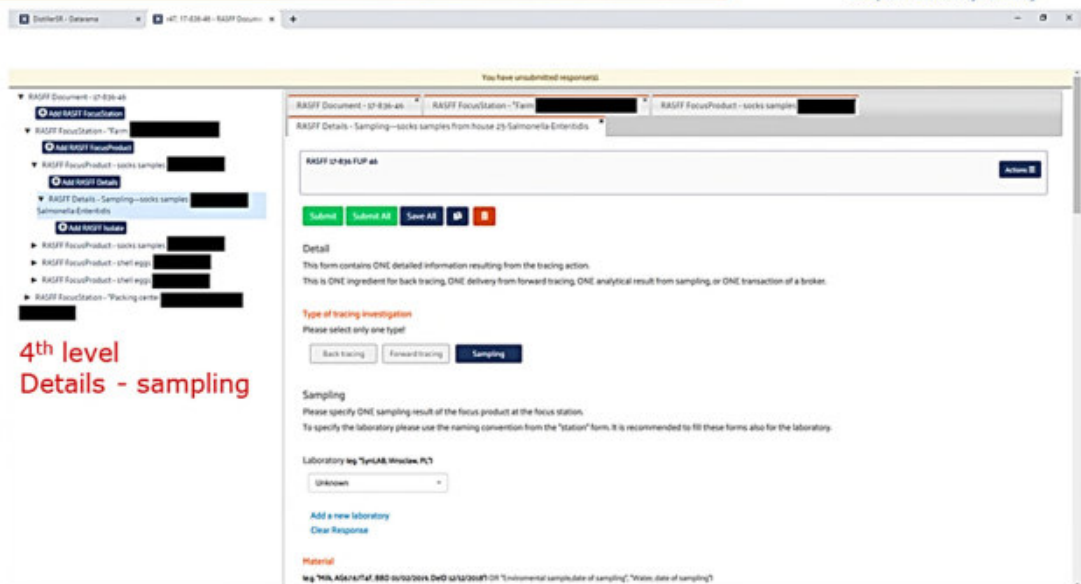


The screenshot shows a web browser window with the RASF workflow interface. The main content area is titled "4th level Details - Backward tracing". It features a navigation bar with "Submit", "Submit All", "Save All", and a red stop icon. Below this, there are two sections for storage information: "Storage at sender type" and "Storage at reception type". Each section has a "Select an Answer" dropdown menu and an "Add new storage" link. At the bottom, there is a "REMARKS" section with a text input area. The top of the browser window shows the URL "Dossier - Casanova" and the document ID "47-17-036-46 - RASF Dossier".

4th level
Details
- Backward tracing

Details (7/10): Sampling

Details:
Sampling
Laboratory



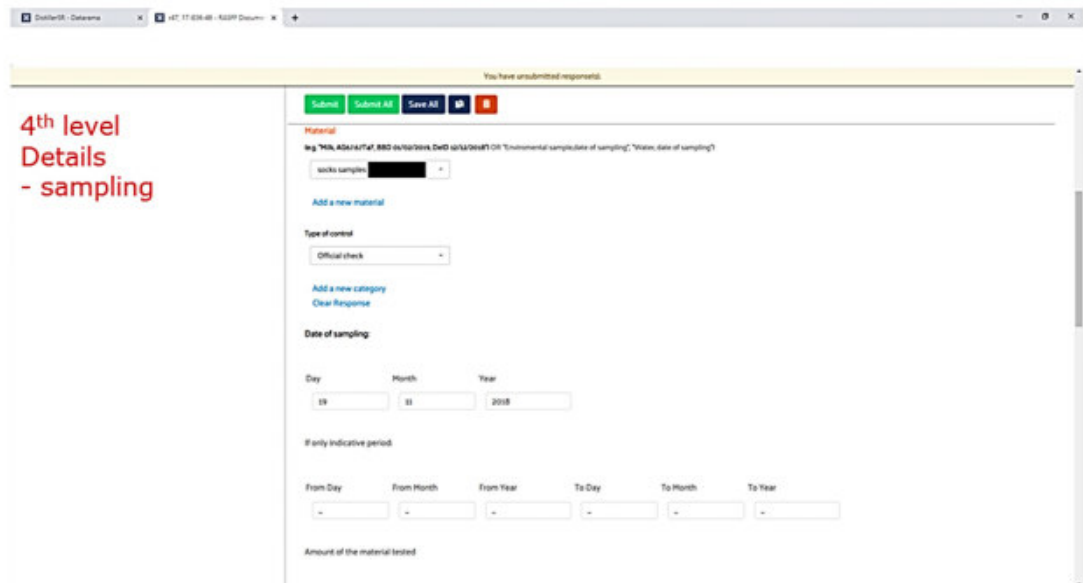
The screenshot shows a web browser window with the RASF workflow interface. The main content area is titled "4th level Details - sampling". It features a navigation bar with "Submit", "Submit All", "Save All", and a red stop icon. On the left, there is a sidebar menu with a tree view showing the workflow structure, including "RASFF FocusStation - Tyros", "RASFF FocusProduct - socks sample", and "RASFF Details - Sampling - socks sample". The main form area is titled "RASFF Details - Sampling - socks sample from house 25 Salmonella Enteritidis". It includes a "RASFF ID: ESI-FUP 44" field and a "Submit" button. Below this, there is a "Detail" section with a description: "This form contains ONE detailed information resulting from the tracing action. This is ONE ingredient for back tracing, ONE delivery from forward tracing, ONE analytical result from sampling, or ONE transaction of a broken." The "Type of tracing investigation" section has a "Please select only one type!" instruction and three radio buttons: "Back tracing", "Forward tracing", and "Sampling" (which is selected). The "Sampling" section has a "Please specify ONE sampling result of the focus product at the focus station." instruction and a note: "To specify the laboratory please use the naming convention from the 'Station' form. It is recommended to fill these forms also for the laboratory." The "Laboratory" section has a "Laboratory" field with a dropdown menu showing "Unknown". There are "Add a new laboratory" and "Clear Response" links. At the bottom, there is a "Material" section with a "Material" field containing the text: "474, 462/474, 885 00/02/0191 DetD 12/12/2018/1 DetD Environmental sample of sampling; *Date, date of sampling".

4th level
Details - sampling

Details (8/10): Sampling

Material
Type
Dates

4th level
Details
- sampling



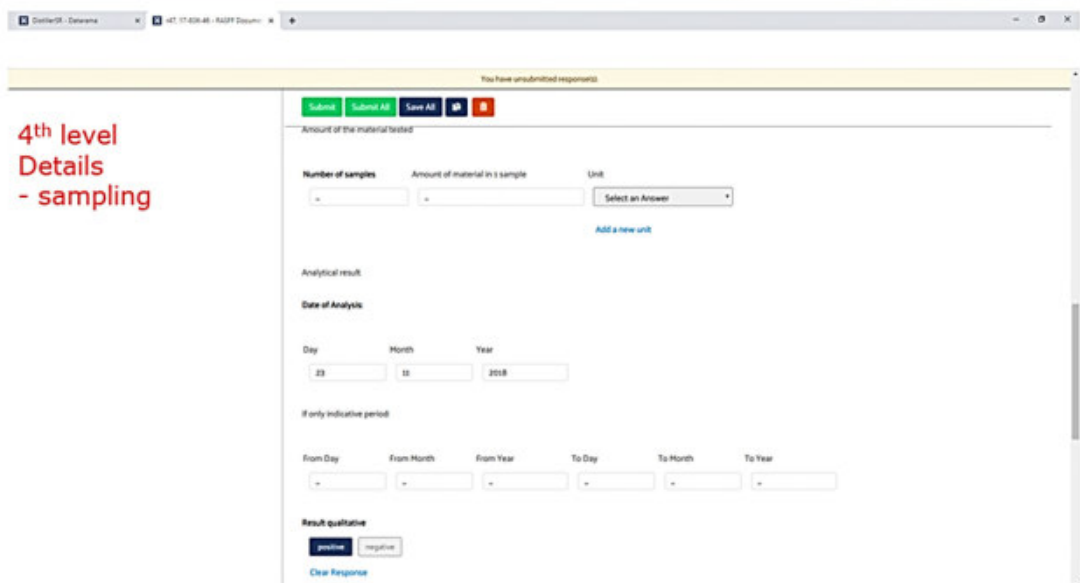
The screenshot shows a web browser window with the URL 'http://17.638.48 - RASF Docum...'. The page title is 'You have unsubmitted responses'. At the top, there are buttons for 'Submit', 'Submit All', 'Save All', and a red 'X' icon. The main content area is titled 'Material' and contains the following fields:

- Material:** A dropdown menu with 'socks samples' selected. Below it is a link 'Add a new material'.
- Type of control:** A dropdown menu with 'Official check' selected. Below it is a link 'Add a new category' and a 'Clear Response' button.
- Date of sampling:** Three input fields for 'Day', 'Month', and 'Year', with values '19', '11', and '2018' respectively.
- If only indicative period:** Six input fields for 'From Day', 'From Month', 'From Year', 'To Day', 'To Month', and 'To Year', all with dashes in them.
- Amount of the material tested:** A label with no input field.

Details (9/10): Sampling

Amount
Analysis
Dates

4th level
Details
- sampling



The screenshot shows a web browser window with the URL 'http://17.638.48 - RASF Docum...'. The page title is 'You have unsubmitted responses'. At the top, there are buttons for 'Submit', 'Submit All', 'Save All', and a red 'X' icon. The main content area is titled 'Amount of the material tested' and contains the following fields:

- Amount of the material tested:** Three input fields for 'Number of samples', 'Amount of material in a sample', and 'Unit'. The 'Unit' dropdown menu has 'Select an Answer' selected. Below it is a link 'Add a new unit'.
- Analytical result:** A label with no input field.
- Date of Analysis:** Three input fields for 'Day', 'Month', and 'Year', with values '23', '11', and '2018' respectively.
- If only indicative period:** Six input fields for 'From Day', 'From Month', 'From Year', 'To Day', 'To Month', and 'To Year', all with dashes in them.
- Result qualitative:** Two radio buttons labeled 'positive' and 'negative'. Below them is a 'Clear Response' button.

Details (10/10): Sampling

Causative agent
Result
Remarks

4th level
Details
- sampling

The screenshot shows the '4th level Details - sampling' form in the RASFF system. It includes fields for 'Causative agent - genus' (Salmonella) and 'Causative agent - species' (Enteritidis). There are buttons for 'Add a new category', 'Clear Response', and 'Submit'. A 'Quantitative results?' section has 'Yes' and 'No' radio buttons. A 'Was typing performed?' section has 'Yes' and 'No' radio buttons. A 'REMARKS' section contains a text box with a warning message: 'Eggs from this farmhouse were transported to company's washhouse by the same device from localities from an egg farm farmhouse [redacted]'. At the bottom, it says 'Warning: You are editing data on a form originally created by:'.

Isolate

Sampling / Isolate:
Markers
Outbreak strain

5th level
Isolate

The screenshot shows the '5th level Isolate' form in the RASFF system. It includes a tree view on the left with 'RASFF isolate' selected. The main form has a 'RASFF Document - 17-034-04' header and a 'RASFF isolate' sub-header. There are buttons for 'Submit', 'Submit All', 'Send All', and 'ID'. An 'Isolate ID' field is present. A 'Select the markers/profiles' section has buttons for 'serotyping', 'mlva', 'PFGE', 'virulence', 'ant', 'MLST', 'cgMLST', 'wgMLST', and 'SNPs'. An 'Overall assessment does the isolate match the outbreak strain?' section has 'confirmed', 'not confirmed', and 'probable' radio buttons. There are 'Clear Response' and 'Remarks on isolate' fields. A 'REMARKS on RASFF' section has a text box.

Collaboration among

AMU – Mosbach-Schulz O., Tomčíková D., Baù A., Verloo D.
SCER – Gervelmeyer A., Afonso A.
BIOMO – Rossi M., Sarno E., Amore G., Rizzi V.
DATA – EFSA catalogues team
BfR – FoodChainLab team

1. *Salmonella* Agona in RTE products - Pilot exercise – Jan 2019

- 1 iRASFF notification
- The workflow iRASFF-DistillerSR-SAS-FoodChainLab was tested

2. *Salmonella* Poona in infant formula – March 2019

- 1 iRASFF notification
- First real-case outbreak with EFSA-workflow

3. *L. monocytogenes* in smoked fish – April 2019

- 8 iRASFF notifications
- Graphs were uploaded / published in iRASFF (3 updates)

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Thank you for your attention



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