



Standard Sample Description for food and feed and the EFSA's Data Collection Framework

Stefano Cappè, Francesco Vernazza

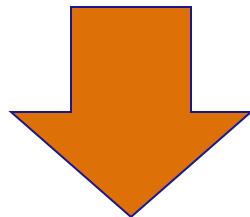
Sofia, Bulgaria, 14-15 May 2012

Standard Sample Description for food and feed

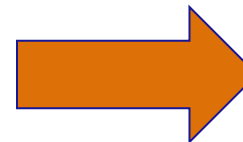
1. *Introduction*
2. Description
3. Guidance documents
4. Formats and requirements
5. How to submit data
6. Validation and SSD elements
7. Maintenance of the SSD
8. FoodEx2
9. Conclusions

Before Standard Sample Description

- No official format specified
- Poor data quality
- Difficult to manage high volumes of data
- Different formats



Harmonised way to
collect data on
chemical contaminants
and residues needed



**Implementation
of a Standard**

Objectives of SSD:

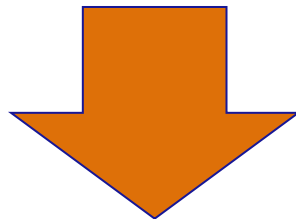
- **Harmonising** chemical occurrence and pesticide residue data collection in the EU
- **Make efficient** the data transmission between Member States and EFSA
 - Optimising human resource employed
 - Quality of data transmitted
 - Capacity of managing high volumes of data
 - Capacity to analyse the data and to produce valuable reports for different stakeholders
 - Flexibility to meet needs of many data collections now and in the future

Standard Sample Description for food and feed

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What is the Standard Sample Description (SSD) ?

- A *list of data elements* that are standardised and can be conveniently used by both data providers and data recipients to fully **describe** samples and analytical parameters for evaluation purposes.
- The SSD includes controlled terminologies and validation rules to guarantee data quality (in data export, transmission and storage).



- A model to *harmonise* the collection of a wide range of measurements in the area of food and feed safety assessment.

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Guidance documents (1)

- Guidance on Standard Sample Description for food and feed:
<http://www.efsa.europa.eu/en/efsajournal/pub/1457.htm>

Specifications aimed at harmonising the collection from Member States of analytical measurement data for the presence of harmful or beneficial chemical substances in food, feed and water.

- Reviewed by networks end 2009; published Jan 2010
- Contains:
 1. Variables (sample description, laboratory, organisations, analytical result description)
 2. Catalogues: (Languages (ISO-639-1), Countries (ISO -3166-1-alpha-2), NUTS (Nomenclature des Unités Territoriales Statistiques) etc...

- *Guidance on Data Exchange:*
<http://www.efsa.europa.eu/de/efsajournal/pub/1895.htm>
 - Reviewed by network Sep 2009; Published Oct 2010
 - Complementary to the first guideline
 - Contains:
 - transmission mechanisms
 - File formats → XML schemas
 - Security requirements
 - Web services and FTP message exchange protocols (including validation messages) to be used for automatic exchange

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- SSD is a generic format for all data collections on contaminants and pesticides
- SSD defines 76 elements from which aprox 20 are mandatory elements to enable a unique description of the sample

mandatory data elements (generic +specific) must always be completed!



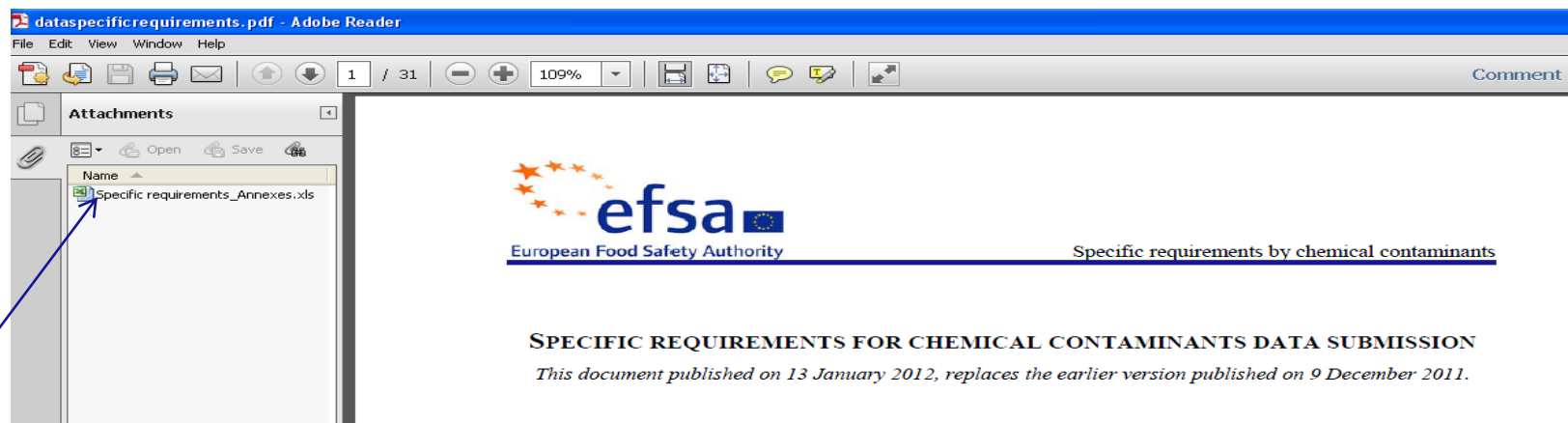
MANDATORY	OPTIONAL
Laboratory sample code	EFSA product code
Language	Product full text description
Country of sampling	Expression of result
Country of origin of the product	Product comment
Product code	Result LOQ
Product treatment	Percentage of fat in the original sample
Year of sampling	Result value corrected for recovery
Sampling strategy	Result value uncertainty
Programme type	Analytical method code
Sampling method	Analytical method text
Sampling point	Percentage of moisture in the original sample
Laboratory accreditation	Area of origin for fisheries or aquaculture activities code and text
Result code	Ingredient
Year of analysis	Comment of result
Parameter code	Packaging
Type of parameter	Result LOD
Result unit	Month of sampling
Type of result	Day of sampling
Evaluation of the result	Area of sampling
	Area of origin of the product
	...

Mandatory and optional fields in the SSD according to *SSD-Guidance, 2010*

Mandatory information not enough for all contaminants ...

- Discussions on 5th Meeting of Expert Group Chemical Occurrence Data (EFSA, June 2011)
- Previous calls for data on contaminants
- list of specific requirements: In order to collect all information necessary for EFSA to carry out analysis and exposure assessments
- Specific requirements amended by chemical contaminant included in the continuous call published on:

<http://www.efsa.europa.eu/en/datexcallsfordata/datexsubmitdata.htm>



DCF submissions and Business rules

- No new automatic BRs for current data collection (deadline 1 October 2012)

	transmissionSet	id	transmission date	original filename	status
<input type="checkbox"/>	7199		16/01/2012		
<input type="checkbox"/>	7199	8570	16/01/2012	GRF_furan_final_up	Accepted, Valid, Current, Inserted, Fk Validation ok, BR validation OK
<input type="checkbox"/>	7020		18/11/2011		

but the new specific requirements should be taken into account when submitting data to EFSA

- SR data compliance checked by EFSA Data Managers
- New automatic BRs from 1 Nov 2012

<input type="checkbox"/>	7037		22/11/2011		
<input type="checkbox"/>	7037	8373	22/11/2011	DE_BVL_PAH_1111	Rejected, Valid, Current, Inserted, Fk Validation ok, Data deleted, BR validation errors
<input type="checkbox"/>	7020		18/11/2011		

Priority levels

Mandatory: information that is essential for performing data analysis or exposure assessment. In case the data element is not correctly compiled, the respective data transmission will be rejected.



Recommended: missing information of this type does not prevent from data analysis or exposure assessment; nevertheless it strongly affects the quality of the assessment.

Although the transmission will be accepted, it is strongly recommended to provide the information requested for this data element in order to avoid additional requests for clarification at a later



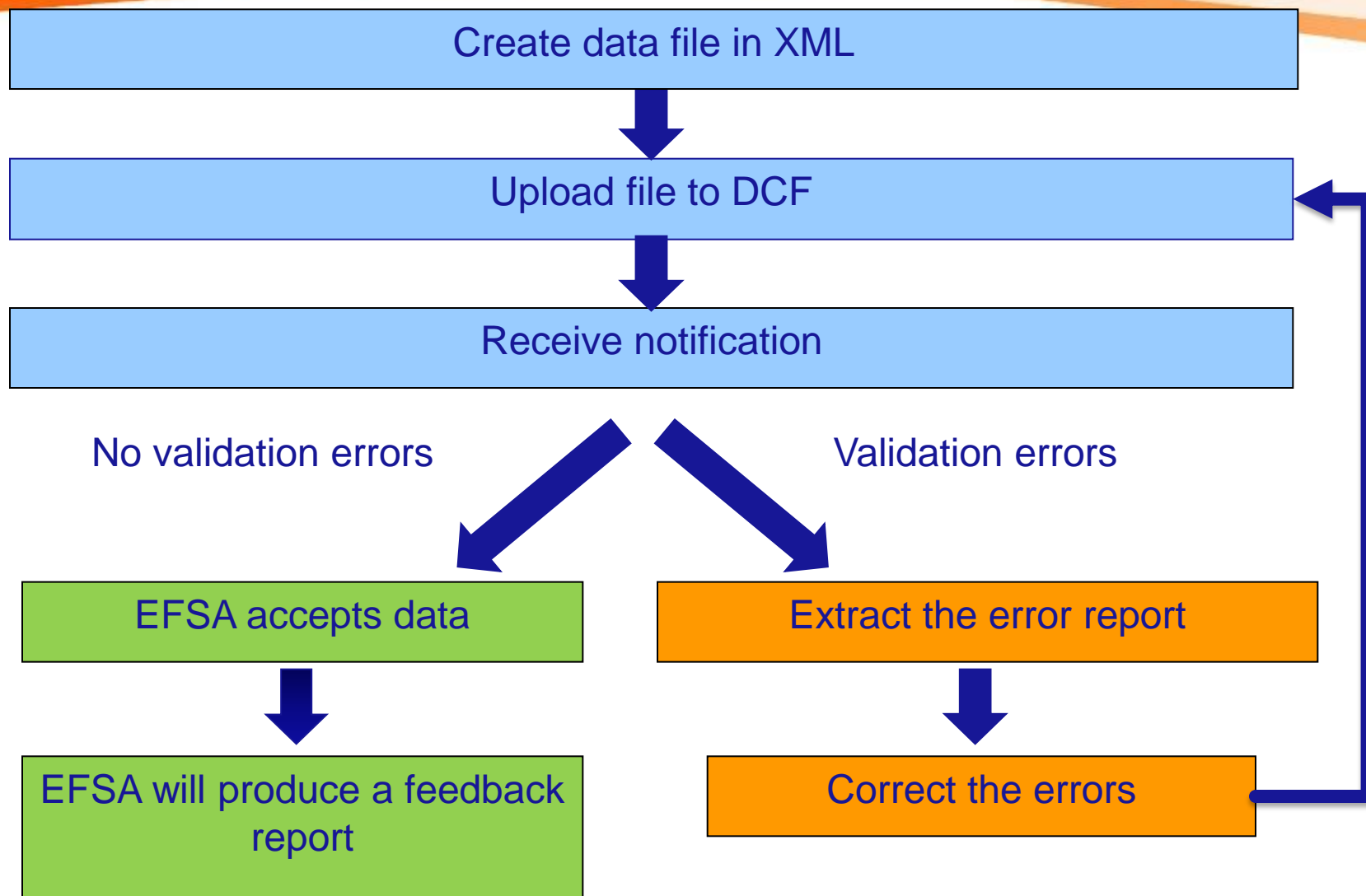
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How to submit your data

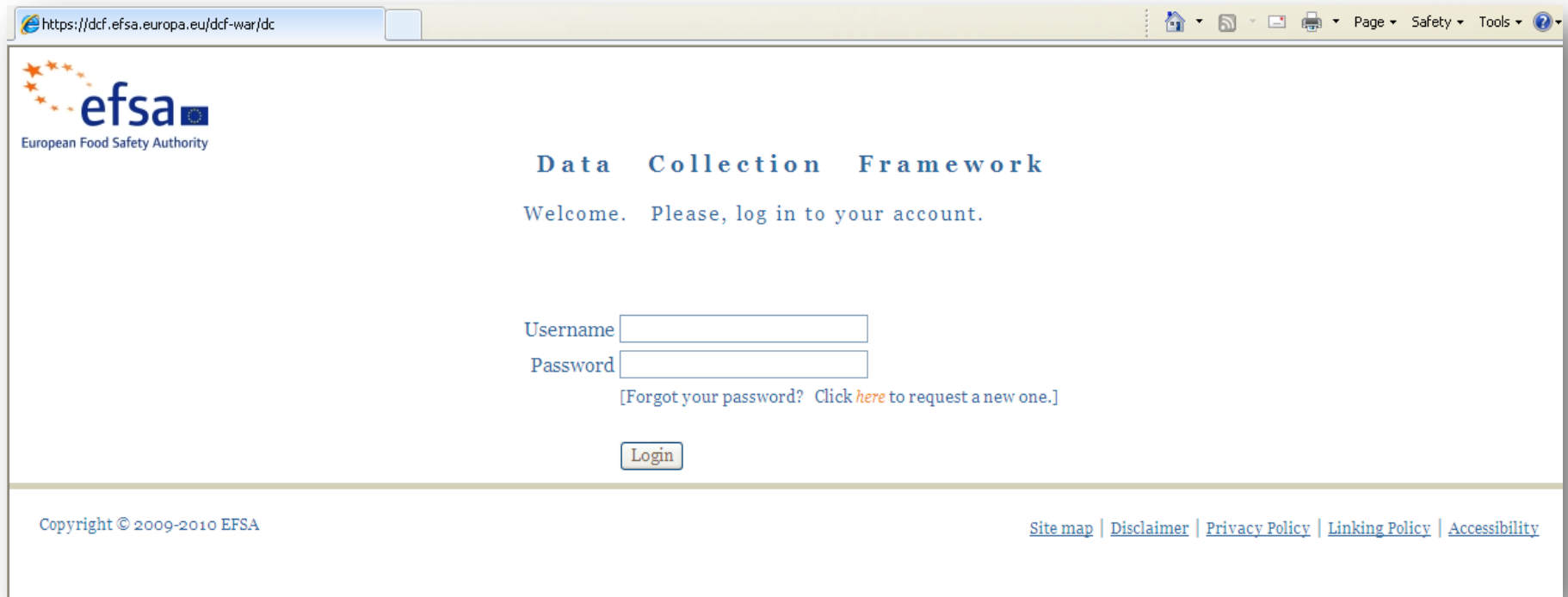
- The official file format for the Standard Sample Description is XML (eXtensible Markup Language)
- File in XML can be manually uploaded on the DCF or electronically transmitted to EFSA via FTP or SOAP protocols

Data uploading process



Login

<https://dcf.efsa.europa.eu/dcf-war>



The screenshot shows a web browser window with the address bar displaying <https://dcf.efsa.europa.eu/dcf-war/dcf-war>. The page header features the EFSA logo and the text "Data Collection Framework". Below this, a welcome message reads "Welcome. Please, log in to your account." The login section contains two input fields: "Username" and "Password". Below the password field is a link: "[Forgot your password? Click [here](#) to request a new one.]" and a "Login" button. The footer includes the copyright notice "Copyright © 2009-2010 EFSA" and a row of links: "Site map", "Disclaimer", "Privacy Policy", "Linking Policy", and "Accessibility".

<https://dcf.efsa.europa.eu/dcf-war/dcf-war>

efsa
European Food Safety Authority

Data Collection Framework

Welcome. Please, log in to your account.

Username

Password

[Forgot your password? Click [here](#) to request a new one.]

Login

Copyright © 2009-2010 EFSA

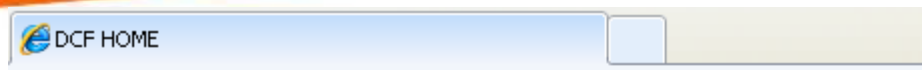
[Site map](#) | [Disclaimer](#) | [Privacy Policy](#) | [Linking Policy](#) | [Accessibility](#)

Uses same login and credentials system as ScienceNet

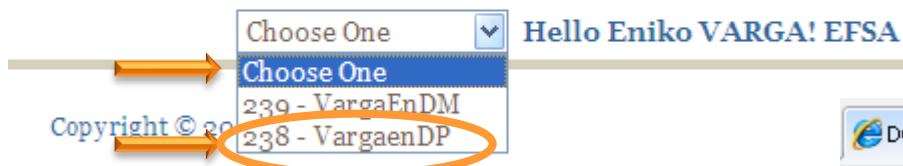
Uses same login and credentials system as ScienceNet

If you need additional DCF accounts for your team contact
contaminants@efsa.europa.eu
(max 3 people per organisation)
Request by 10th December

Data collection group



"The fir



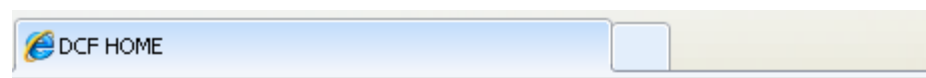
OCC_TEST: test data collection for occurrence

OCC_GROUP1: for dioxins and DL PCBs, non-DL PCBs, BFRs, PFAS, mineral oil hydrocarbons, melamine and analogues, organ chlorine compounds etc...

OCC_GROUP2: for 3MPCD esters. Ethyl carbamate, PAHs, furan, acrylamide

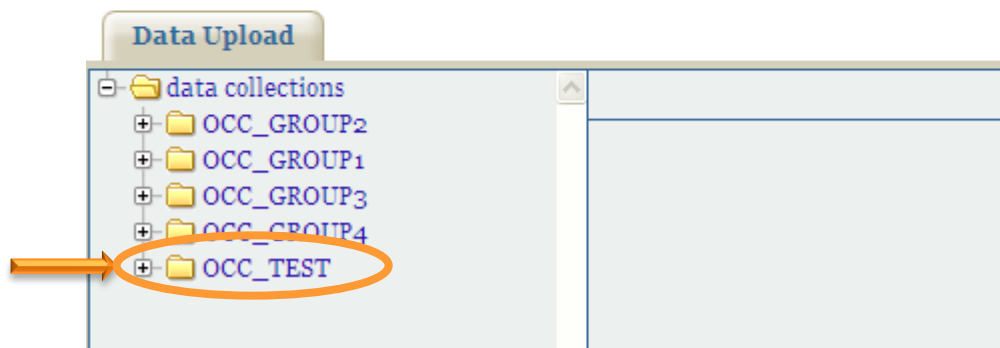
OCC_GROUP3: for marine biotoxins, mycotoxins, plant toxicants and other biological origin toxicants (e.g. Biogenic amines)

OCC_GROUP4: for metals and other substances not included above (Nitrates, lead, cadmium, arsenic, mercury, fluorine, nitrite etc...)



"The fir

238 - VargaenDP ▾ Hello Eniko VARGA! EFSA



- For the pilot phase of this article 36 project:
 - Transmit in OCC_TEST
 - Check automatic validation (acknowledgment)
 - When OK then ask to contaminants@efsa.europa.eu for an evaluation
 - Finally send to the correct group
- After pilot phase send directly to the correct group

Start new transmission

Data Collection Framework

"The first law of dietetics seems to be: If it tastes good, it's bad for you" (Is

238 - VargaenDP  Hello Eniko VARGA! EFSA

Data Upload

- data collections
 - OCC_GROUP2
 - OCC_GROUP1
 - OCC_GROUP3
 - OCC_GROUP4
 - OCC_TEST**
 - FR-AFFSA-o8
 - MT_MSA_o9
 - CY_SGL_o9
 - LV-PVD-o8
 - GR_EFET
 - PT_INSRJ
 - AT_AGES_o8
 - EFSA
 - SI_MKGP
 - UK-FSA-o8
 - LT_NMVRVI_o9
 - CZ_SZU_CHPR
 - RO_NSVFSA_10
 - HU_HFSO_o8
 - NL-RIVM-o8
 - BE-FASFS_o8

DC Organization

search

close

new transmission

Training Occurrence 2010 of 18/03/2010
Standard Sample Description Excel Mapper

search

download data

ID	DATA_ID	TRX_ID	prodText	progSampStrate	progSampStrate	resI
978,992	124	4,688	Fish meat	1	ST10A	1
978,993	124	4,688	Tuna	1	ST10A	1
978,994	124	4,688	Cod and whiting	1	ST10A	1
978,995	124	4,688	Sprat	1	ST10A	1

Select...

Data Collection Framework

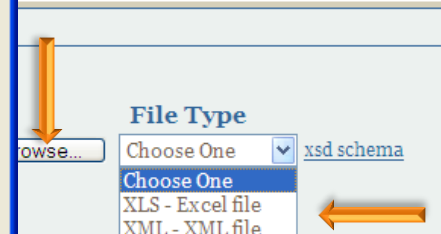
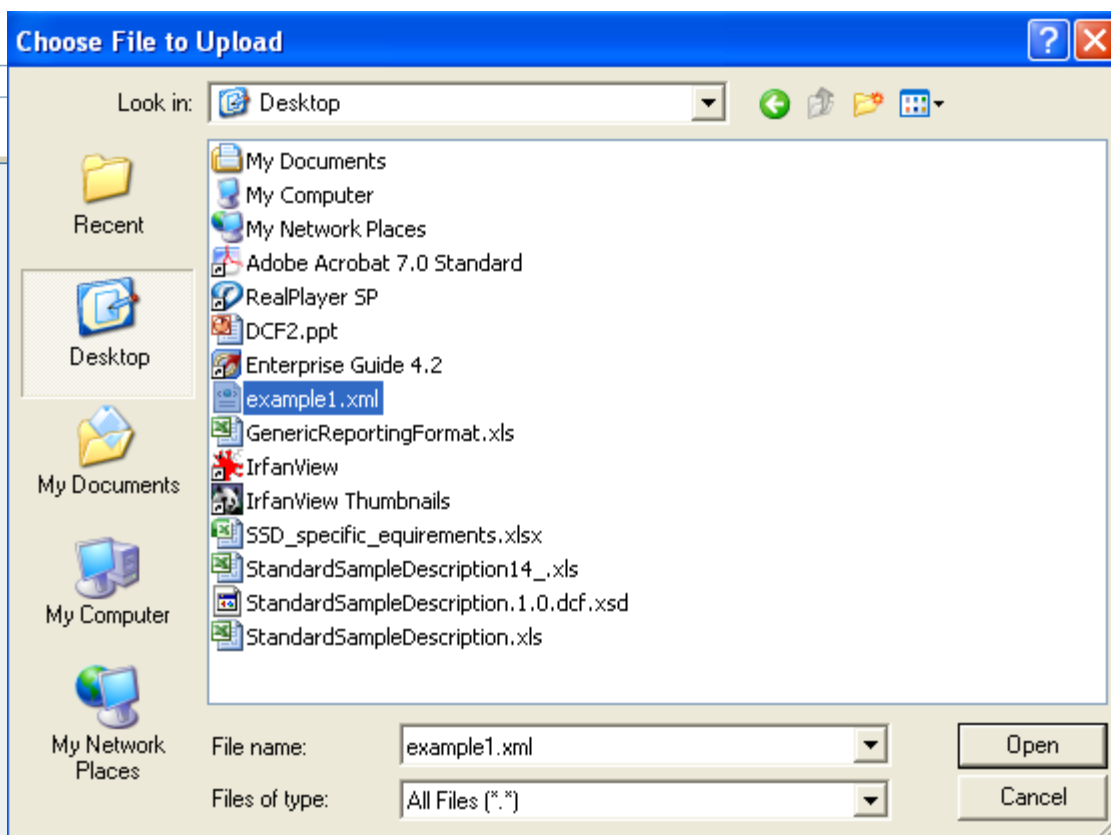
"The first law of dietetics seems to be: If it tastes good, it's bad for you" (Isaac Asimov)



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Data Upload

- data collections
 - OCC_GROUP2
 - OCC_GROUP1
 - OCC_GROUP3
 - OCC_GROUP4
 - OCC_TEST**
 - NL-RIVM-o8
 - AT_AGES_o8
 - HU_HFSO_o8
 - EE_VFB_o9
 - MT_MSA_o9
 - FI_EVIRA_o9
 - DE_BVL_o8
 - RO_NSVFSA_10
 - PT_INSRJ
 - GR_EFET
 - UK-FSA-o8
 - LV-PVD-o8
 - SE-SLV-o8
 - FR-AFFSA-o8
 - DK_DTU_o8
 - LT_NMVRVI_o9
 - EFSA
 - CZ_SZU_CHPR
 - SI_MKGP
 - CY_SGL_o9
 - BE_FASFC_o9
 - SK_VUP_o8



Finalise data transmission

Data Upload

data collections

- OCC_GROUP2
- OCC_GROUP1
- OCC_GROUP3
- OCC_GROUP4
- OCC_TEST**
 - SE-SLV-08
 - UK-FSA-08
 - PT_INSRJ
 - CY_SGL_09
 - FI_EVIRA_09
 - SI_MVGP

DC organization / Upload page

• Validation and insert request for transmissionSet number 7082 has been submitted

File name: TRAIN_OCCURRENCE_2010_4 - Training Occurrence 2010 of 18/03/2010

Input file:

File Type: XLS - Excel file

Validation and insert request for transmissionSet number 7082 has been submitted

'Upload notification' by e-mail

No validation errors

Validation errors

Upload notification

Upload notification

NoReply@efsa.europa.eu

Extra line breaks in this message were removed.

Sent: Wed 11/30/2011 12:07 PM

To: VARGA Eniko

Message | DCF20111130120725.zip (4 KB)

The following files have been processed:

ID: 8416

setID: 7080

Original file name: Example1_corr.xls

Unique generated file name:

IT231201111334120441831019231585676358936.xls

Sender user : vargaen: Eniko VARGA

Sender account name: VargaenDP Sender account

id: 238 Sender organization: EFSA



No validation errors

Upload notification

NoReply@efsa.europa.eu

Extra line breaks in this message were removed.

Sent: Fri 12/2/2011 3:58 PM

To: VARGA Eniko

Message | DCF20111202155813.zip (4 KB)

The following files have been processed:

ID: 8437

setID: 7101

Original file name: example1c.xml

Unique generated file name:

IT231201112336155143964075488767033744800.xml

Sender user : vargaen: Eniko VARGA

Sender account name: VargaenDP Sender account

id: 238 Sender organization: EFSA Anomalies

list:

Warning: Problems in the execution of the
validation script : example1c.xml. See
transmission's Error File for detail.

(7101/8437)



Validation errors

Viewing an error report

Data Collection Framework

"The first law of dietetics seems to be: If it tastes good, it's bad for you" (Isaac Asimov)



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Data Upload

data collections		Transmissions				
+ OCC_GROUP2		<input type="button" value="open"/> <input type="button" value="cancel"/> <input type="button" value="close"/> <input type="button" value="delete"/> <input type="button" value="download"/> <input type="button" value="download all"/>				
+ OCC_GROUP1						
+ OCC_GROUP3						
+ OCC_GROUP4						
- OCC_TEST						
+ SE-SLV-o8						
+ UK-FSA-o8						
+ PT_INSRJ						
+ CY_SGL_o9						
+ FI_EVIRA_o9						
+ SI_MKGP						
+ EE_VFB_o9						
- EFSA						
transmissions						
		transmissionSet	id	transmission date	original filename	status
		<input type="checkbox"/> 7081		30/11/2011		
		<input checked="" type="checkbox"/> 7081	8417	30/11/2011	Example1.xls	Proposed, Valid, Current, Partially inserted, Fk Validation failed, BR validation errors
		<input type="checkbox"/> 7080		30/11/2011		
		<input type="checkbox"/> 7080	8416	30/11/2011	Example1_corr.xls	Proposed, Valid, Current, Inserted, Fk Validation ok, BR validation OK
		<input type="checkbox"/> 7079		30/11/2011		
		<input type="checkbox"/> 7079	8415	30/11/2011	Example1.xls	Rejected, Valid, Deleted, Partially inserted, Fk Validation failed, BR validation errors

		<input type="button" value="open"/> <input type="button" value="cancel"/> <input type="button" value="close"/> <input type="button" value="delete"/> <input type="button" value="download"/> <input type="button" value="download all"/>				
		transmissionSet	id	transmission date	original filename	status
		<input type="checkbox"/> 7081		30/11/2011		
		<input checked="" type="checkbox"/> 7081	8417	30/11/2011	Example1.xls	Proposed, Valid, Current, Partially inserted, Fk Validation failed, BR validation errors

Viewing an error report

Data Upload

data collections

- OCC_GROUP2
- OCC_GROUP1
- OCC_GROUP3
- OCC_GROUP4
- OCC_TEST
 - AT_AGES_o8
 - DK_DTU_o8
 - CY_SGL_o9
 - HU_HFSO_o8
 - DE_BVL_o8
 - PT_INSRJ
 - SK_VUP_o8
 - SE-SLV-o8
 - NL-RIVM-o8
 - LT_NMVRVI_o9
 - SI_MKGP
 - CZ_SZU_CHPR
 - EFSA
 - transmissions
 - LV-PVD-o8

Transmissions / Mine Inserted Data List

- 1 rows of the file : SSD_EXPORT_E2_2.xls were not inserted (7078/8414)

0% of dcf-war/ from dcf.efsa.europa.eu Completed

ack message **detailed errors report**

File Download

Do you want to save this file?

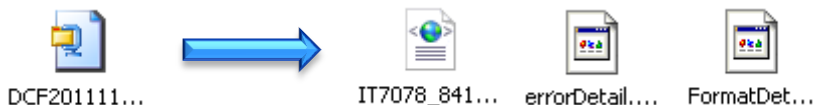
Name: DCF20111129163741.zip
Type: WinZip File, 3.83KB
From: dcf.efsa.europa.eu

Save Cancel

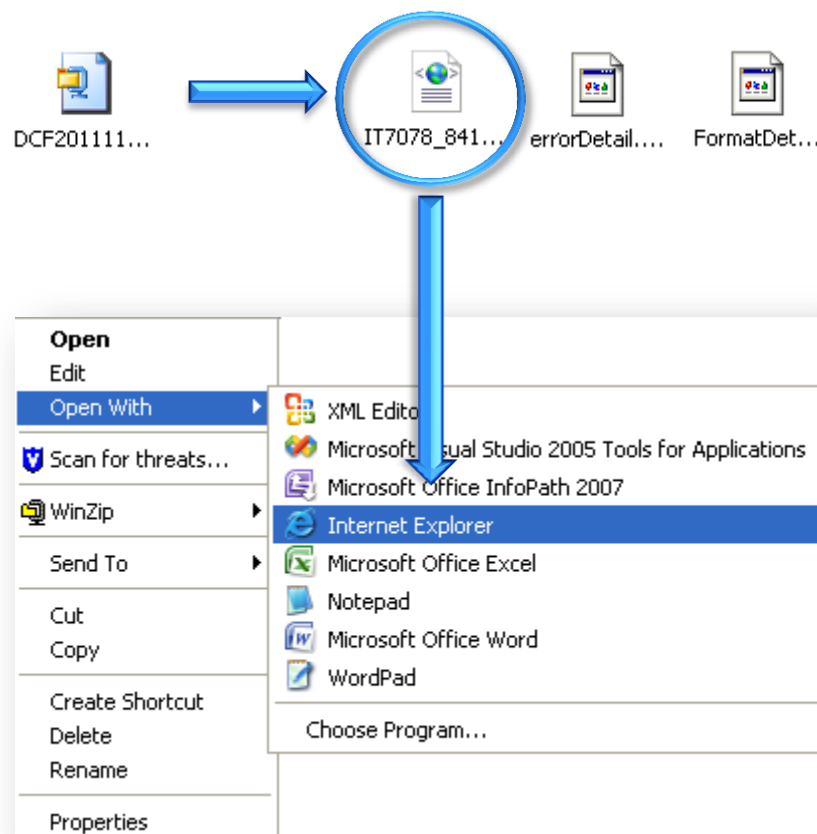
While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not save this file. [What's the risk?](#)

progrSampStrate	resEvaluation_I	resEvaluation	prodProdMet
ST10A			117
ST10A			117
ST10A			117
ST10A			117

- Read the report sent by DCF save the .zip file
- Extract the content



Viewing an error report



- Open the .xml file using the Internet Explorer

Viewing ack message

Standard Sample Description Acknowledgment

Header

Type	dcfmsg
Version	1.0
Code	Example1.xls
Receiver's Code	EFSA
Sender's Code	EFSA
Sent date	2011-11-30T12:16:37.505

Message

Message Receive Date	2011-11-30T12:18:48.146+01:00
Message Ack Date	2011-11-30T12:18:48.146+01:00
Transmission Ack Code	02
Sender's Transaction Code	Example1.xls
Receiver's Transaction Code	7081
Data Collection Code	OCC_TEST
Data Collection Name	OCC_TEST

Errors Details

Type	Rule code	Error code	Error Description	Variables	Example	Num Records
E	INSERT_FAIL	INSERT_FAIL	5 rows of the file - Example1.xls were not inserted (7081/8417)			5
E	BR03A	ER14B	The result LOD must be less than the LOQ	resLOD\$<=\$resLOQ	1\$<=\$.8	1
E	BR03A	ES28B	Sample year cannot be greater than the analysis year	sampY\$<=\$analysisY	2011\$<=\$2010	1
E	BR08A	ER07A	Parameter text should be completed if code is RF-XXXX-XXX-XXX	paramText\$paramCode\$="RF-XXXX-XXX-XXX"	\$RF-XXXX-XXX-XXX\$="RF-XXXX-XXX-XXX"	1
E	BR08A	ER11A	Analytical method text should be completed if method code is F001A	anMethText\$anMethCode\$="F001A"	\$F001A\$="F001A"	1
E	BR08A	ER14A	The result LOD must be completed if the result type is LOD	resLOD\$resType\$="LOD"	\$LOD\$="LOD"	1
E	BR08A	ER15A	The result LOQ must be completed if the result type is LOQ	resLOQ\$resType\$="LOQ"	\$LOQ\$="LOQ"	1
E	BR08A	ER24B	For fat weight results the percentage fat must be reported	fatPerc\$exprRes\$="B003A"	\$B003A\$="B003A"	1

Viewing Detailed Error Report

Standard Sample Description Detailed Error Report

Sequence Num	Type	Rule code	Error code	Error description	Variables	Variable values	Record code
1	E	BR12A	ES30D	The combination of sample day, month and year must be less than the analysis date	sampD\$sampM\$sampY<=\$analysisD\$analysisM\$analysisY	11\$11\$2011\$<=\$10\$10\$2011	R_Sample_Ergot_2011_7
2	E	BR12A	ES30D	The combination of sample day, month and year must be less than the analysis date	sampD\$sampM\$sampY<=\$analysisD\$analysisM\$analysisY	11\$11\$2011\$<=\$10\$11\$2010	R_Sample_dioxin_2011_4
3	E	BR03A	ES28B	Sample year cannot be greater than the analysis year	sampY<=\$analysisY	2011\$<=\$2010	R_Sample_dioxin_2011_4
4	E	BR03A	ER14B	The result LOD must be less than the LOQ	resLOD<=\$resLOQ	1\$<=\$.8	R_Sample_Ergot_2011_7
5	E	BR08A	ER07A	Parameter text should be completed if code is RF-XXXX-XXX-XXX	paramText\$paramCode\$="RF-XXXX-XXX-XXX"	\$RF-XXXX-XXX-XXX\$="RF-XXXX-XXX-XXX"	R_Sample_Ergot_2011_94
6	E	BR08A	ER11A	Analytical method text should be completed if method code is F001A	anMethText\$anMethCode\$="F001A"	\$F001A\$="F001A"	R_Sample_Cd_2011_1
7	E	BR08A	ER14A	The result LOD must be completed if the result type is LOD	resLOD\$resType\$="LOD"	\$LOD\$="LOD"	R_Sample_Ergot_2011_3
8	E	BR08A	ER15A	The result LOQ must be completed if the result type is LOQ	resLOQ\$resType\$="LOQ"	\$LOQ\$="LOQ"	R_Sample_Ergot_2011_5
9	E	BR08A	ER24B	For fat weight results the percentage fat must be reported	fatPerc\$exprRes\$="B003A"	\$B003A\$="B003A"	R_Sample_dioxin_2011_4

The simplified format

- To help data providers manually entering data in the SSD format, DCM unit has developed a simplified format:
 - Same data elements as the SSD: use label of variables (e.g. "Country of Sampling") instead of the variable name (e.g. sampCountry)
 - Use text descriptions (e.g. Italy) of the variables instead of codes (e.g. IT)
 - Provide some macro programs to browse and choose elements from the hierarchies in the SSD

The simplified format: Instructions

- The simplified format is located here:

<http://www.efsa.europa.eu/en/datexcallsfordata/datexsubmitdata.htm>

MS Excel ® Simplified Format

- Instructions:
 - Download (save as) the standardsampleddescription.xls
 - Download (save as) e.g. the simplified format (GenericReportingFormat.xls)
 - These two files must be in the same folder
 - Open the standardsampleddescription.xls and enable macros
 - Open GenericReportingFormat.xls and enable macros
 - Start fill out the form

Simplified format :Advantages and disadvantages

Advantages (+):

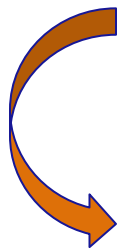
- Highlights mandatory fields
- Easy compilation following instructions (.xls format)

Disadvantages (-):

- No direct upload into the EFSA db
- Needs to be sent by email to contaminants@efsa.europa.eu → No immediate feedbacks
- EFSA data managers transform Simplified-format into SSD structure, validate and upload the file in the db → need for clarifications if missing mandatory information /validation errors

Data conversion before transmission to EFSA

- Processing Simplified Format files creates a considerable effort on EFSA side
- DCM available to provide support via article 36 projects to set up a procedure for converting data from Simplified format to XML directly at national level



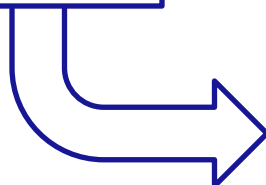
In the article 36 project therefore MS Excel ® Simplified format cannot be used to transmit your data to EFSA and only XML files through the DCF will be accepted (or Web services).

Example from Excel

	A	B	C
	labSampleCode	lang	sampCountry
1			
2	IT-2009-11-23-000001	en	IT
3	IT-2009-11-23-000001	en	IT
4	IT-2009-11-23-000002	en	IT
5	IT-2009-11-23-000002	en	IT
6	IT-2009-11-23-000002	en	IT
7	IT-2009-AD-000256	en	IT



Data are
transformed in
XML



```
<?xml version="1.0" encoding="UTF-8"?>
<message xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="StandardSampleDescription.xsd">
  <header>
    <type>dcfmsg</type>
    <version>0.41</version>
    <code>1</code>
    <receiverCode>EFSA</receiverCode>
    <senderCode>EFSA</senderCode>
    <sentDate>2010-01-27T22:40:27+01:00</sentDate>
  </header>
  <dataTrx opType="01" dcCode="OCC_TR2010">
    <dataset>
      <sample>
        <labSampCode>IT-2009-11-23-000001</labSampCode>
        <lang>en</lang>
        <sampCountry>IT</sampCountry>
        <sampArea>ITD52</sampArea>
        <origCountry>IT</origCountry>
        <origArea>ITD5</origArea>
        <procCountry>IT</procCountry>
        <prodCode>C03_2</prodCode>
        <prodText>Olive oil</prodText>
        <prodProdMeth>PD08A</prodProdMeth>
        <prodTreat>T106A</prodTreat>
```

**XML schema is published with the
guidance on data exchange:**

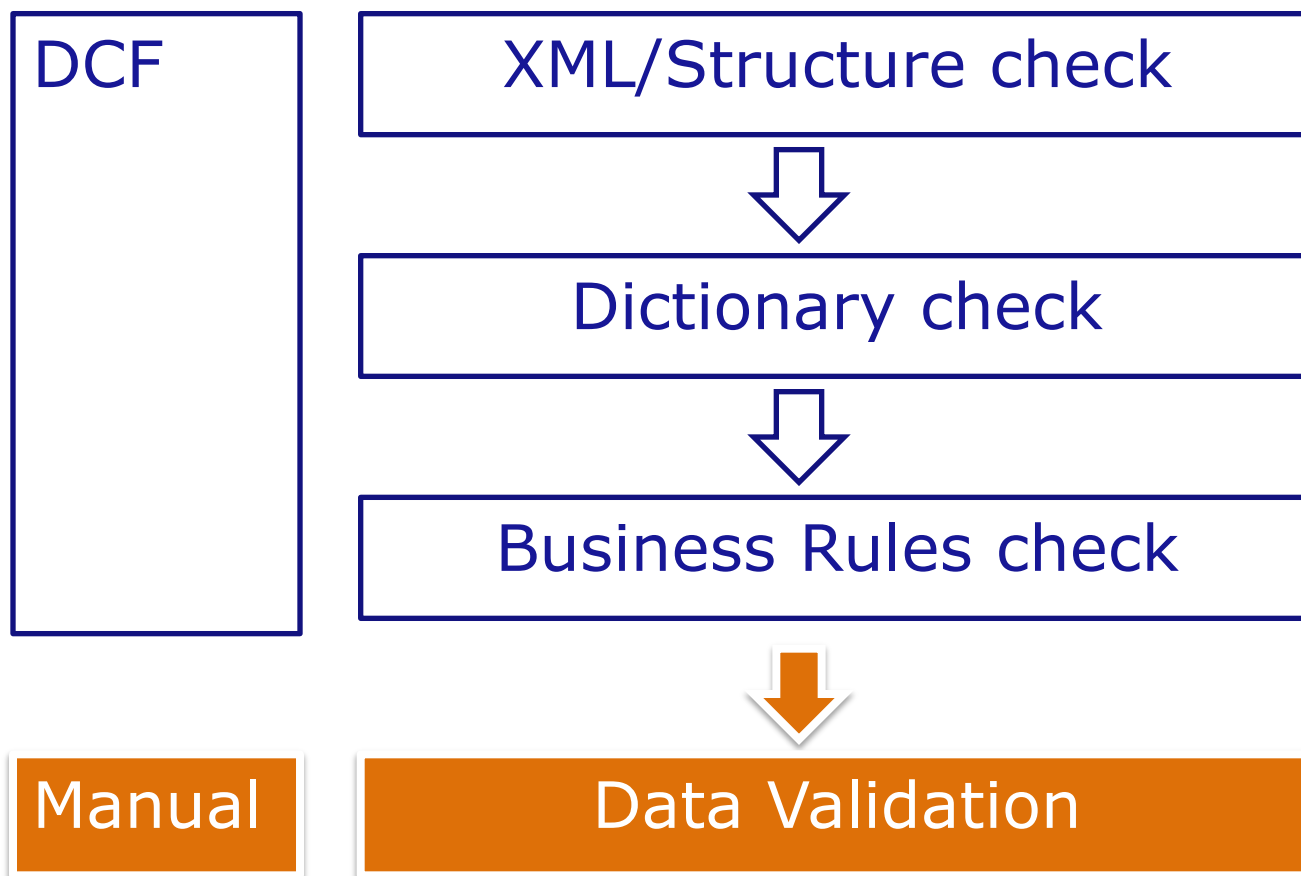
<http://www.efsa.europa.eu/en/scdocs/doc/1895ax1.zip>

**StandardSampleDescription.
1.0.xsd**

Standard Sample Description for food and feed

1. Introduction
2. Description
3. Guidance documents
4. Formats and requirements
5. How to submit data
6. *Validation and SSD elements*
7. Maintenance of the SSD
8. FoodEx2
9. Conclusions

Validation process



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- Standard Sample Description → live standard for transmitting data
- Challenge:
 - A standard should be **stable** so that Member States can implement it once and then use it for several years
 - A standard **has to change** to reflect a changing environment e.g new analytical methods

- Standard Sample Description data structure should change very little
- Standard terminologies may change and improve at defined time to allow the implementation in local system
- Maintenance window:
 - ✓ Oct - Nov each year where amendments should be proposed,
 - ✓ Jan - New version published

Terminology Name	Parameter			
Existent standard	Combined EFSA internal lists and FASFC - Belgium			
Browse				
code	name	validFrom	validTo	lastUpdate
RF-00000130-CHE	Trimethylarsine	01/01/2010		24/11/2011
RF-00000131-CHE	Trimethylarsine oxide	01/01/2010		24/11/2011
RF-00000133-CHE	Methylarsonate (MA)	01/01/2010		24/11/2011
RF-00000134-CHE	Methylarsonite (MA(III))	01/01/2010		24/11/2011
RF-00000136-CHE	Dimethylarsinate (DMA))	01/01/2010		24/11/2011
RF-00000137-CHE	Dimethylarsinite (DMA(III))	01/01/2010		24/11/2011
RF-00000140-CHE	Arsenobetaine	01/01/2010		24/11/2011
RF-00000141-CHE	Arsenocholine	01/01/2010		24/11/2011
RF-00000138-CHE	Arsenate - As(V)	01/01/2010		24/11/2011
RF-00000139-CHE	Arsenite - As(III)	01/01/2010		24/11/2011
RF-00000170-CHE	Total mercury	01/01/2010		22/07/2011
RF-00000193-CHE	Tin (Sn) (Total)	01/01/2010		04/08/2011
RF-00000148-TOX	Ochratoxin A	01/01/2010		24/11/2011
RF-00000161-TOX	T-2 toxin	01/01/2010		24/11/2011
RF-00000162-TOX	HT-2 toxin	01/01/2010		24/11/2011
RF-00000165-TOX	Deoxynivalenol	01/01/2010		24/11/2011
RF-00000166-TOX	Nivalenol	01/01/2010		28/11/2011
RF-00000167-TOX	3- and 15-acetyldeoxynivalenol	01/01/2010		24/11/2011
RF-00000168-TOX	3-acetyldeoxynivalenol	01/01/2010		24/11/2011
RF-00000169-TOX	15-acetyldeoxynivalenol	01/01/2010		24/11/2011
RF-00000170-TOX	Zearalenone	01/01/2010		28/11/2011
RF-00000171-TOX	Zearalenol	01/01/2010		28/11/2011
RF-00000172-TOX	Zearalenol alpha	01/01/2010		28/11/2011
RF-00000173-TOX	Zearalenol beta	01/01/2010		28/11/2011
RF-00000182-TOX	Zearalanone	01/01/2010		28/11/2011
RF-00000183-TOX	Zearalanol	01/01/2010		28/11/2011
RF-00000184-TOX	Zearalanol alpha	01/01/2010		28/11/2011
RF-00000185-TOX	Zearalanol beta (Taleranol)	01/01/2010	01/12/2010	28/11/2011
RF-00000206-TOX	Alternaria alternata f. sp. lycopersici toxins	14/10/2010		08/06/2011
RF-00000210-TOX	Phomopsisins	14/10/2010		24/11/2011

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Additions in the SSD catalogues

- Possible addition of new elements in the terminologies to support new data collections (new substances, analytical methods, sampling methods..)
- EFSA can provide you with a new code of missing elements but urgent inclusions cannot be of entire branches e.g. All additives

- An ad-hoc WG is looking to extending SSD to:
 - Zoonoses
 - Additive
 - FoodEx2 food classification: Common food classification to all risk assessment areas
- Draft expected in November 2012 for kick off meeting of the new article 36 project GP/EFSA/DCM/2012/01
- Draft will be submitted to relevant EFSA networks for comments

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Food classification:

Organisation of terms identifying different food items into groups . The groups are defined based on commonalities or similarities identified from the point of view of the users.

Food classification is needed in two contexts:

1. Data analysis - presentation
2. Browsing (providing a structured way to find the best term to identify a food, during coding)

Data analysis is the dominant driver

Food description:

Collection of terms recording all relevant characteristics of a food item. The information may be concatenated in the name or structured in different ways.

Food description is used while coding, in order to keep as much as possible of the useful information available on the food being considered.

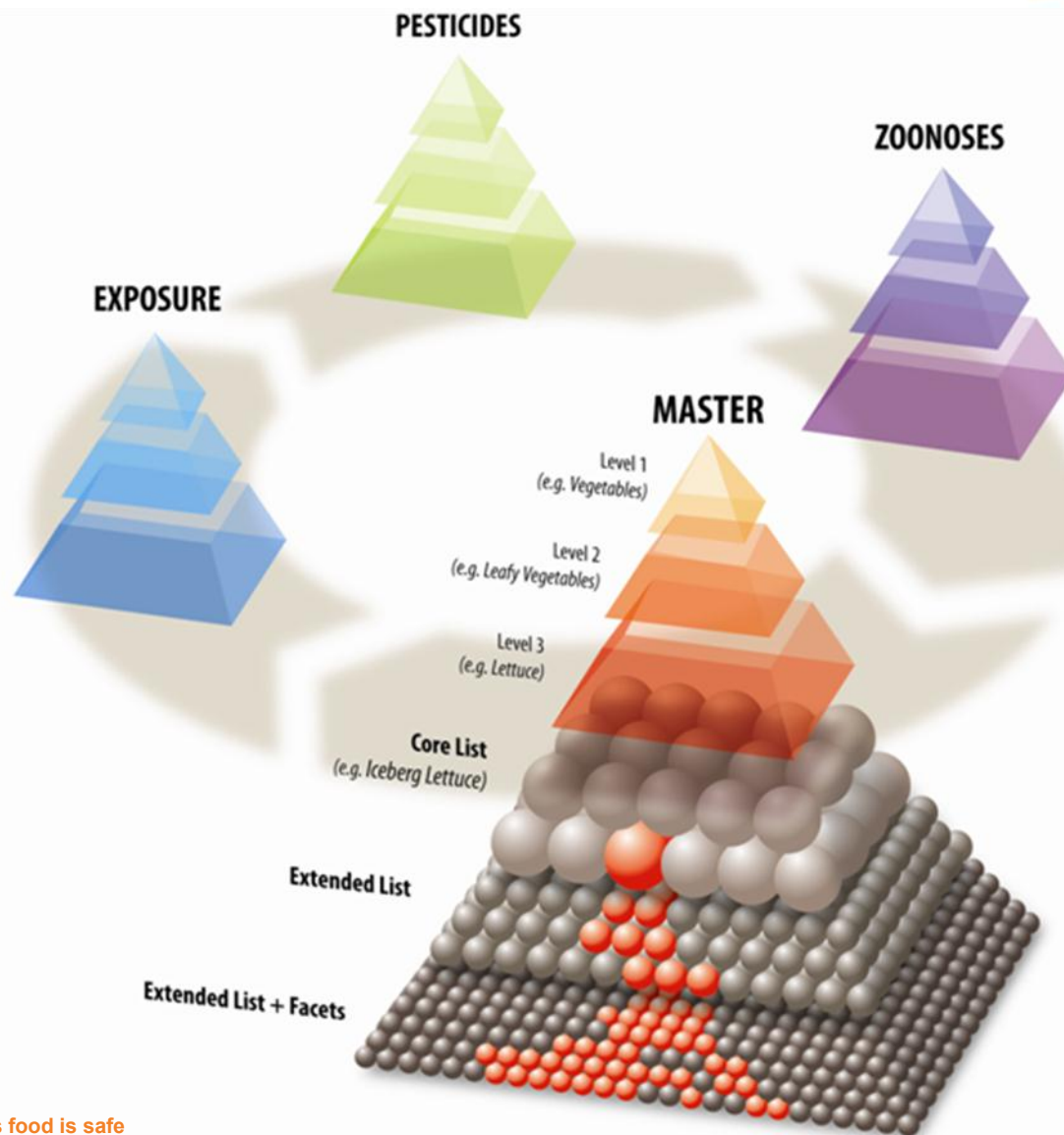
Food description is also used while analysing data, to discriminate based on specific criteria

Both, data coding and data analysis may need food description

A system to classify/describe food in a perfect way for all needs **does not exist**

A **pragmatic compromise** addressing many different needs in a satisfactory way is a reasonable target. This system is necessarily a **combination of classification and description**

Description of the proposal



Description of the proposal

Core foods



Hierarchy of food according to use

Fresh meat



Processed meat



Offal



Hierarchy of food according to species

Cattle



Pigs



Chicken



- I. The higher the level of detail, the better the food description “fits” to all areas whereas broad groups tend on the contrary to be area-specific



Detailed food items are common to all areas, while each area follows the preferred hierarchical grouping

Common vs area-specific

- ☐ ▲ Milk and dairy products [A02LR]
 - ☐ ▲ Milk and cream [A02LS]
 - Flavoured milks [A02MP]
 - ☐ ▲ Whey and whey based beverages [A02MQ]
 - Whey, sweet [A02MR]
 - Whey, sour [A02MS]
 - Flavoured whey [A02MT]
 - ☐ ● Buttermilk [A02MV]
 - ☐ ▲ Fermented milk or cream [A02MZ]
 - ☐ ▲ Sour cream products [A02NA]
 - Sour cream, plain [A02NB]
 - Crème fraîche and other mild variants of sour cream [A02NC]
 - Flavoured sour cream [A02ND]
 - ☐ ▲ Yoghurt [A02NE]
 - ☐ ▲ Yoghurt, cow milk [A02NF]
 - Yoghurt, cow milk, plain [A02NG]
 - Yoghurt, cow milk, flavoured [A02NH]
 - ☐ ▲ Yoghurt, sheep milk [A02NJ]
 - ☐ ▲ Yoghurt, goat milk [A02NM]
 - Yoghurt drinks, sweetened and/or flavoured [A02NQ]
 - ☐ ▲ Probiotic milk-like drinks [A02NR]
 - ☐ ▲ Traditional sour milk products [A02NT]
 - ☐ ▲ Milk and dairy powders and concentrates [A02PD]
 - ☐ ▲ Dairy dessert and similar [A02PT]
 - ☐ ▲ Cheese [A02QE]
 - ☐ ▲ Eggs and egg products [A031E]
 - ☐ ▲ Sugar, confectionery and water-based sweet desserts [A032F]
 - ☐ ▲ Animal and vegetable fats and oils [A036M]

II. Exposure assessment is calculated based on the Food consumption database. This database is common to all areas



A specific hierarchy, including **minimum and/or preferred level of detail for coding**, is proposed.

Occurrence data collected to perform exposure assessment must be compatible with this hierarchy

Minimum/preferred coding level

Exposure hierarchy									
Code	Lev	Level1	Level2	level3	level4	level5	level6	level7	
A000J	1	Grains and grain-based products							
A000K	2		Cereals and similar						
A000L	3			Cereal and cereal-like grains					
A000M	4				Amaranth grain				
A000N	4				Buckwheat grain				
A000P	4				Barley grain				
A000S	4				Maize grains (p)				
A000T	5					Maize grain			
A000V	5					Popcorn kernels			
A000X	5					Teosinte grain			
A000Y	4				Millet grain (p)				
A000Z	5					Millet grain, barnyard			
A001A	5					Millet grain, bulrush			
A001B	5					Millet grain, common			
A000A	5					Teff grain			
A000B	5					Millet grain, finger			
A000C	6						African millet grain		
A000D	5					Millet grain, foxtail			
A000E	5					Millet grain, little			
A000F	4				Oat grains (p)				
A000G	5					Oat grain			
A000H	5					Oat grain, red			
A001C	4				Rice grains (p)				

III. For some specific food safety areas, food descriptors and groups are defined by Legislation



The “view” of the system for regulated areas shall provide the food groups as defined in the regulatory acts. Additional detail may be provided, if needed.

Specific legislation

Choose: ☒ Hierarchies ☐ Facets Pesticide residues hierarchy ... View terms: ☒ In use in this d

- [-] Fruit, fresh or frozen, nuts (p) [A04HL]
 - [+] Fruit, citrus [A01BT]
 - [+] Tree nuts [A014C]
 - [+] Pome fruit [A01DG]
 - [+] Stone fruit [A01GE]
 - [+] Berries and small fruit [A01DT]
 - [+] Miscellaneous tropical and sub-tropical fruits [A01HD]
- [-] Vegetables fresh or frozen (p) [A04JC]
 - [+] Root and tuber vegetables (p) [A04JD]
 - [+] Bulb vegetables [A00GX]
 - [+] Fruiting vegetables [A00HN]
 - [+] Brassica vegetables [A00FK]
 - [+] Leafy vegetables and fresh herbs (p) [A04JE]
 - [+] Legumes, vegetable fresh [A00PB]
 - [+] Vegetables, stalk and stem [A00RR]
 - [+] Fungi [A00TC]
 - [+] Marine algae [A00VA]
- [+] Pulses (dry) [A012R]
- [+] Oilseeds and oilfruits [A015E]
- [+] Cereals and similar [A000K]
- [+] Tea, coffee, herbal infusions and cocoa (p) [A04JF]
- [+] Hops (dried), including hop pellets and unconcentrated powder (humulus lupulus) [A00YZ]
- [+] Spices (p) [A04JG]
- [+] Sugar plants [A010R]
- [+] Products of animal origin - terrestrial animals [A04HM]
- [+] Fish, fish products, shell fish, molluscs and other marine and freshwater food products [A04HZ]

IV. The name of any food group may be interpreted by different persons in a different way, due to the intrinsic ambiguity of language



the system is based on codes, whose scope must be accurately described. The names attributed to the codes in the different languages are tentative and may be refined, provided that the scope of the food entry remains unchanged

c farmed mammals fresh meat [A01QT]
mammals fresh meat [A01RZ]
fresh meat [A01SN]
birds fresh meat [A01TE]
fresh meat [A01TM]
meat dried [A022L]
als and other slaughtering products (e) [A04MQ]
d whole meat products [A04ND]

V. Data are collected and reported by Member States since years in different food safety areas



The system aims to be compatible with as many as possible of the reporting systems, including GEMS-Food (Codex). Backwards compatibility is also a priority.

Additional codes

State		Corex
Raw Agricultural Commodity (RAC) ▼		Hierarchy ▼
Term Code		
A00FK		
Term Name		
Brassica vegetables		
Correlated Codes		
Code	Catalogue	
VB0040	GEMS	
P0240000	MATRIX	
A.01.000350	FOODEX1	

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- **SSD supports the collection** of risk assessment data in different areas
- Easy submit **high quality data** on contaminants and pesticide residues in food
- **Cooperation** with all organisations
- Stimulate **network approach** at national level (use of a common format for collecting data, efficiency in retrieving missing information and clarifications)

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- Ruth Roldan
- Eniko Varga

Questions



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