

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
	Ref: TARIC3-OUB-STP

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#### DOCUMENT HISTORY

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DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
	Ref: TARIC3-OUB-STP

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DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
TABLE OF CONTENTS	Ref: TARIC3-OUB-STP

## TABLE OF CONTENTS

DOCUMENT HISTORY .....	1
1. INTRODUCTION .....	5
1.1. Objective of this document .....	5
1.2. Structure of this document .....	5
1.3. Intended audience .....	5
1.4. Abbreviations and acronyms.....	5
1.5. Reference documents .....	6
1.6. Applicable documents.....	6
2. TEST ENVIRONMENT .....	7
2.1. Test scenario coverage.....	7
2.2. Naming conventions .....	7
2.3. Test case structure.....	8
2.4. General procedure.....	8
2.5. Timestamp.....	9
3. DATA MAINTENANCE.....	10
3.1. Test direction .....	10
3.2. Setup of the Reference Data .....	10
3.3. Transmission Items .....	10
3.3.1. Test case dm_tri_insert: Inserting a transmission item .....	10
3.3.2. Test case dm_tri_update: Updating a transmission item.....	11
3.3.3. Test case dm_tri_delete: Deleting a transmission item .....	12
3.4. Receivers.....	13
3.4.1. Test case dm_rec_insert: Inserting a receiver .....	13
3.4.2. Test case dm_rec_update: Updating a receiver .....	14
3.4.3. Test case dm_rec_delete: Deleting a receiver .....	15
3.5. Destination Filters.....	17
3.5.1. Test case dm_def_insert: Inserting a destination filter.....	17
3.5.2. Test case dm_def_update: Updating a destination filter .....	19
3.5.3. Test case dm_def_delete: Deleting a destination filter .....	21
4. OUTPUT BRIDGE INTERFACE.....	24
4.1. Test direction .....	24
4.2. Setup of the Reference Data .....	24

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
TABLE OF CONTENTS	Ref: TARIC3-OUB-STP

4.3.	Full Extraction .....	40
4.3.1.	Test case obde_full_extraction_request: Request of a full data extraction job.....	40
4.3.2.	Test case obde_full_extraction_data_file: Generation of full data extraction files. ....	42
4.4.	Incremental Extraction.....	48
4.4.1.	Test case obde_incremental_extraction_setup: Generation of the setup environment for the incremental data extraction job test cases.....	48
4.4.2.	Test case obde_incremental_extraction_request: Request of an incremental data extraction job. ....	51
4.4.3.	Test case obde_incremental_extraction_data_file: Generation of incremental data extraction files. ....	52
4.5.	Additional Tests.....	56
4.5.1.	Defect 7329 .....	56

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
INTRODUCTION	Ref: TARIC3-OUB-STP
OBJECTIVE OF THIS DOCUMENT	

## 1. INTRODUCTION

### 1.1. Objective of this document

This document defines the system test plan to be followed in order to verify the functions of the Output Bridge Satellite Module of TARIC3.

The test cases described here should be performed in order to evaluate proper implementation of the functionalities according to the requirements. From a practical point of view it is impossible to test all possible combinations of actions and data that the system is designed to handle and therefore the tests described have been chosen to cover a representative subset of such combinations. Nevertheless, this list of tests is not exhaustive and additional tests can be added.

### 1.2. Structure of this document

This document has 4 chapters after this introduction chapter. Chapter 2 describes the test environment and the naming conventions used in this system test file. Chapter 3 specifies the test cases related to the maintenance of Output Bridge data. Chapter 4 specifies the test cases related to the extraction of TARIC data through the Output Bridge.

### 1.3. Intended audience

This document is intended for people responsible for testing the business logic of the Output Bridge Satellite Module of TARIC3.

Representatives of the user community are also part of the intended audience. They can use this document as a reference to validate that the related test plan covers all key point aspects of the application according the functional specifications.

### 1.4. Abbreviations and acronyms

Acronym	Description
DEMCO	Name of the previous framework contract, also used to identify the general components of the technical framework
EDIFACT	Electronic Data Interchange For Administration
IDS	Interface Data Specification
MS	Member State
OUB	Output Bridge
TARIC	French acronym for "Tarif Intégré de la Communauté", meaning Integrated Tariff of the Community
XML	eXtensible Markup Language

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
INTRODUCTION	Ref: TARIC3-OUB-STP
REFERENCE DOCUMENTS	

### 1.5. Reference documents

Reference	Document Title
[TARIC3-OUB-PM]	TARIC3 OUB Process Model 2.00

### 1.6. Applicable documents

Reference	Document Title
[TARIC3-OUB-FTS]	TARIC3 Output Bridge Functional Test Scenarios 1.00
[TARIC3-OUB-UIS]	TARIC3 Output Bridge User Interface Specification 2.00
[TARIC3-OUB-FS]	TARIC3 Output Bridge Functional Specification 2.00
[TARIC3-OUB-MCS]	TARIC3 Output Bridge Message Conversion Specification XML to EDIFACT 2.00
[TARIC3-OUB-TMES]	TARIC3 Technical Message Exchange Specification 1.10
[TARIC3-OUB-UITP]	TARIC3 Output Bridge User Interface Test Plan 4.10

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
TEST ENVIRONMENT	Ref: TARIC3-OUB-STP
TEST SCENARIO COVERAGE	

## 2. TEST ENVIRONMENT

### 2.1. Test scenario coverage

The system test plan validates the business logic layer of the Output Bridge Satellite Module of TARIC3. It covers the test scenarios, which are defined in the [\[TARIC3-OUB-FTS\]](#) document.

The system test plan does not cover the test scenario for the user interfaces [\[TARIC3-OUB-UI\]](#). A specific test plan is defined for this [\[TARIC3-OUB-UITP\]](#).

### 2.2. Naming conventions

Each test case defined in the system test plan has a unique test identifier that has the following structure:

`<test-area>_<affected-data>_<description>`

where:

- `<test-area>` is the area of the test. Four areas are defined: *init* (initialisation), *dm* (data maintenance), *obde* (Output bridge data extraction), and *sec* (security).
- `<affected-data>` is the kind(s) of data affected by the test case. This can be: *tri* (transmission item), *rec* (receiver), *def* (destination filter), *ref\_data* (reference data) or any combination of them.
- `<description>` is a small description of the purpose of this test. Normally, the description would make reference to the process to be tested, e. g.: *Insertion*, *Update*, *Delete*, *Full extraction*, *incremental extraction*.

During the execution of a test case, several input messages can be sent to the Output Bridge Satellite Module. Those messages receive a name with the following format:

`<test-area>_<affected-data>_<description>_<no>[.sub_no].xml`

where:

- `<test-area>_<affected-data>_<description>` identifies the test case.
- `<no>` is a sequential number that identifies several messages constituting a test case. A special *setup* notation is used to identify a message that establishes the environment for a test case. These set-up messages must be properly processed in order to ensure the correct execution of the test case but they are not a test as such.
- `<sub-no>` is an optional sub-number. It is used to clarify the fact that several messages are processed in the same work package.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
TEST ENVIRONMENT	Ref: TARIC3-OUB-STP
TEST CASE STRUCTURE	

For each input message the expected output message is provided with a name being *<test-area>\_<affected-data>\_<description>\_<seq\_no>[.sub\_no][.cnt].out.xml*.

The optional *cnt* is used when the same input message is sent several times or when several output messages must be generated for a single input message.

### 2.3. Test case structure

A test case is composed of one or more messages that are specified in the following way:

- Message:** The name of the input message to be sent.
- Precondition:** All the required conditions that must be fulfilled before the execution of the test case.
- Content:** The description of the content of the input message.
- Expected output:** The expected result that the operator must verify.

### 2.4. General procedure

Each test case is given a unique identifier using the naming convention described in section 2.2. To execute a test case with a certain identifier all input messages related to this test case must be sent in sequence. There can be several input messages by test case. The tester must apply the prescriptions described in the input message specification to send the message. Moreover the precondition given in the test case must be respected.

For each test case, the steps below have to be executed:

- 1- The tester must send the input messages specified for the test case. The input messages are provided in the system test file. A user having the necessary profile must submit the messages to the system-to-system interface.
- 2- The system receives and processes the input messages, generates output messages and sends them back to the tester.
- 3- The tester receives the output messages and compares them with the expected output messages, which are specified in the test case specification. In addition, such expected output messages are provided in the system test file.

Unless a message cannot be decoded, all logical errors that can be detected are supposed to be reported.

A UNIX shell script is provided in the system test file to automate the processing of each test case.



DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
TEST ENVIRONMENT	Ref: TARIC3-OUB-STP
TIMESTAMP	

## 2.5. Timestamp

Obviously, the timestamps present on the actual output messages will differ from the timestamps in the expected output messages. Sometimes particular timestamps are expected, in these cases, expected results are described in the scenarios.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
TEST DIRECTION	

### 3. DATA MAINTENANCE

#### 3.1. Test direction

For the test cases of this section, the user should have the necessary profile to consult and manage the TARIC Output Bridge data.

#### 3.2. Setup of the Reference Data

**Message:** Init\_ref\_data\_setup\_01.xml

**Precondition:** Make sure the database is empty.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a valid stable language with code= 'EN', start date= '2000-01-01' (without multilingual descriptions due to the fact that there are no valid languages inserted yet).

Transaction 2: Insert a valid stable language with code= 'FR', start date= '2000-01-01' and with multilingual descriptions for all valid languages ('EN').

Transaction 3: Insert a valid stable language with code= 'NL', start date= '2000-01-01' and with multilingual descriptions for all valid languages ('EN' – 'FR').

Transaction 4: Insert a valid stable Measure type series='AA', start date='2008-01-01'.

Transaction 5: Insert a valid stable Measure type with id= '001', Measure type series= 'AA', start date='2008-01-01' and with multilingual descriptions for all valid languages.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to all the transactions: Status ok. The data was correctly inserted in the database.

#### 3.3. Transmission Items

##### 3.3.1. Test case dm\_tri\_insert: Inserting a transmission item

**Message:** dm\_tri\_insert\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the Init\_ref\_data\_setup\_01.xml message should be successfully processed by the system.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
TRANSMISSION ITEMS	

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a transmission item with id='10000' and description = 'Footnote type'.

Transaction 2: Query the transaction item inserted in transaction 1.

Transaction 3: Try to insert a transmission item with id='10000' and description = 'Footnote type'.

Transaction 4: Try to insert a transmission item with id='1a34@' and with a description longer than 500 characters.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The result set contains the information of the transaction item id = '10000'.

Reply to transaction 3: Status error. The status detail indicates that the ID of an entity must be unique.

Reply to transaction 4: Status error. The status detail indicates that the fields are wrongly formatted.

### 3.3.2. Test case dm\_tri\_update: Updating a transmission item

**Message:** dm\_tri\_update\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a transmission item with id='10000' and description = 'Test-transmission'.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

**Message:** dm\_tri\_update\_01.xml

**Precondition:** For this purpose, the *dm\_tri\_update\_setup\_01.xml* message should be successfully processed by the system.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
TRANSMISSION ITEMS	

**Content:** The message is composed of the following transactions:

Transaction 1: Update the transmission item with id='10000' by editing its description to 'Footnote type'.

Transaction 2: Query the transmission item updated in transaction 1.

Transaction 3: Try to update the transmission item with id='27000' and description = 'Nonexistent transmission'.

Transaction 4: Try to update the transmission item with id='10000' by editing its description with a text longer than 500 characters.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The result query shows the transmission item with id='10000' which description was updated.

Reply to transaction 3: Status error. The status detail indicates that when specified, the item indicated by the reference must exist.

Reply to transaction 4: Status error. The status detail indicates that the fields are wrongly formatted.

### 3.3.3. Test case dm\_tri\_delete: Deleting a transmission item

**Message:** dm\_tri\_delete\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_maintenance\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a transmission item with id='10000' and description = 'test- transmission'.

Transaction 2: Insert a transmission item with id='20000' and description = 'test-transmission'.

Transaction 3: Insert a destination filter with reference id = 'BE', transmission item reference id ='20000', for.update.extract value = '1', name='dest filter test'.

**Expected** The message is composed of transactions that reply to the original transactions:

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
RECEIVERS	

**output:**            Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

**Message:**            **dm\_tri\_delete\_01.xml**

**Precondition:**    For this purpose, the *dm\_tri\_delete\_setup\_01.xml* message should be successfully processed by the system.

**Content:**            The message is composed of the following transactions:

Transaction 1: Delete the transmission item with id='10000'.

Transaction 2: Query the transmission item with id='10000'.

Transaction 3: Try to delete the transmission item with id='27000'.

Transaction 4: Try to delete the transmission item with id='20000'.

**Expected output:**    The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The result set is empty.

Reply to transaction 3: Status error. The status detail indicates that when specified, the item indicated by the reference must exist.

Reply to transaction 4: Status error. The status detail indicates that an entity cannot be deleted when referenced by other entities.

### 3.4.        Receivers

#### 3.4.1.    Test case dm\_rec\_insert: Inserting a receiver

**Message:**            **dm\_rec\_insert\_01.xml**

**Precondition:**    Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:**            The message is composed of the following transactions:

Transaction 1: Insert a receiver with reference id='BE',

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
RECEIVERS	

format='XML' and description = 'Belgium'.

Transaction 2: Query the receiver inserted in the transaction 1.

Transaction 3: Try to insert a receiver with reference id='BE', format='EDIFACT3' and description = 'Belgium2'.

Transaction 4: Try to insert a receiver with reference id='0A', format='XML' and a description with a text longer than 500 characters.

Transaction 5: Try to insert a receiver with reference id='FR', format='HTML' and description = 'France'.

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The result set shows the data of the receiver inserted in transaction 1.

Reply to transaction 3: Status error. The status detail indicates that the ID of an entity must be unique.

Reply to transaction 4: Status error. The status detail indicates that the fields are wrongly formatted.

Reply to transaction 5: Status error. The status detail indicates that the format should be specified for the extraction output files. The format must be 'XML' or 'EDIFACT'.

### 3.4.2. Test case dm\_rec\_update: Updating a receiver

**Message:** dm\_rec\_update\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a receiver with reference id='BE', format='XML' and description = 'Belgium'.

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

**Message:** dm\_rec\_update\_01.xml

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
RECEIVERS	

**Precondition:** For this purpose, the *dm\_rec\_update\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Update the transmission item with id='BE' by editing its description to 'Belgique'.

Transaction 2: Query the receiver updated in transaction 1.

Transaction 3: Try to update the receiver with id='CO' and description = 'Testing'.

Transaction 4: Try to update the receiver with id='BE' by editing its description with a text longer than 500 characters.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The result query shows the receiver with id='BE' which description was updated.

Reply to transaction 3: Status error. The status detail indicates that when specified, the item indicated by the reference must exist.

Reply to transaction 4: Status error. The status detail indicates that the fields are wrongly formatted.

### 3.4.3. Test case dm\_rec\_delete: Deleting a receiver

**Message:** **dm\_rec\_delete\_setup\_01.xml**

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a receiver with id='BE' and description = 'Belgium'.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

**Message:** **dm\_rec\_delete\_01.xml**

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
RECEIVERS	

**Precondition:** For this purpose, the *dm\_rec\_delete\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Delete the receiver with id='BE'.

Transaction 2: Query the transmission item with id='BE'.

Transaction 3: Try to delete the receiver with id='XX'.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The result set is empty.

Reply to transaction 3: Status error. The status detail indicates that when specified, the item indicated by the reference must exist.

**Message:** **dm\_rec\_test\_format\_list.xml**

**Precondition:** For this purpose, the *init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert receivers with valid format lists:

- 'XML'
- 'EDIFACT3'
- 'XML' and 'EDIFACT3'
- 'EDIFACT3' and XML

Transaction 2: Insert receivers with invalid format lists:

- No format
- More than two formats: 'XML', 'XML', 'EDIFACT2', 'EDIFACT3'
- Two formats, but duplicates: 'XML' and 'XML'
- Wrong string: 'xml'

Transaction 3: Update receivers with valid format lists:

- 'EDIFACT3' and 'XML'
- 'XML' and 'EDIFACT3'
- 'EDIFACT3'
- 'XML'

Transaction 4: Update receivers with invalid format lists:

- Wrong string: 'xml'
- Two formats, but duplicates: 'XML' and 'XML'
- More than two formats: 'XML', 'XML', 'EDIFACT2',



DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
DESTINATION FILTERS	

'EDIFACT3'  
- No format

Transaction 5: Query receivers with valid format lists

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status error. The status detail indicates that the list of formats should not contain any duplicate values.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status error. The status detail indicates that the list of formats should not contain any duplicate values.

Reply to transaction 5: Status ok.

### 3.5. Destination Filters

#### 3.5.1. Test case dm\_def\_insert: Inserting a destination filter

**Message:** dm\_def\_insert\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a transmission item with id='10000' and description = 'Footnote type'.

**Expected output:** The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

**Message:** dm\_def\_insert\_01.xml

**Precondition:** For this purpose, the *dm\_def\_insert\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a destination filter with id='FR',

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
DESTINATION FILTERS	

transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '0'.

Transaction 2: Query the destination filter inserted in transaction 1.

Transaction 3: Try to insert a destination filter with id='FR',  
transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '1'.

Transaction 4: Try to insert a destination filter with id='BE',  
transmission item id='10000', name with a text longer than  
500 characters, for.update.extract value = '1'.

Transaction 5: Try to insert a destination filter with id = 'BE',  
two items in the transmission item list making reference to  
the same id='10000' for.update.extract value = '1'.

Transaction 6: Try to insert a destination filter with id = 'BE',  
transmission item id='10000' and two items in the language  
list making reference to the same language code = 'EN'.

Transaction 7: Try to insert a destination filter with id='BE',  
transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '1' and two items in the excluded  
Measure type list making reference to the same Measure type  
id='001'.

Transaction 8: Try to insert a destination filter with id='BE',  
transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '1' and two items in the excluded  
chapters list making reference to the same chapter = '01'.

Transaction 9: Try to insert a destination filter with id='BE',  
transmission item id='21500', name = 'test dest filter',  
for.update.extract value = '1'.

Transaction 10: Try to insert a destination filter with id='BE',  
transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '1' and one item in the excluded  
Measure type list making reference to the nonexistent  
Measure type id='009'.

Transaction 11: Try to insert a destination filter with id = 'BE',  
transmission item id='10000' and one item in the language  
list making reference to the nonexistent language code =  
'ES'.

Transaction 12: Try to insert a destination filter with id = 'BE',  
transmission item id='10000' and one item in the language  
list making reference to the nonexistent language code =  
'ES'.

**Expected**

The message is composed of transactions that reply to the  
original transactions:

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
DESTINATION FILTERS	

**output:**

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The system shows the information of the transaction item id = 'FR'.

Reply to transaction 3: Status error. The status detail indicates that the ID of an entity must be unique.

Reply to transaction 4: Status error. The status detail indicates that the fields are wrongly formatted.

Reply to transaction 5: Status error. The status detail indicates that in a list of references, a specific reference must occur only once.

Reply to transaction 6: Status error. The status detail indicates that in a list of references, a specific reference must occur only once.

Reply to transaction 7: Status error. The status detail indicates that in a list of references, a specific reference must occur only once.

Reply to transaction 8: Status error. The status detail indicates that in a list of references, a specific reference must occur only once.

Reply to transaction 9: Status error. The status detail indicates that the specified transmission item must be an existing one.

Reply to transaction 10: Status error. The status detail indicates that the specified Measure type must be an existing one.

Reply to transaction 11: Status error. The status detail indicates that the specified language must be an existing one.

Reply to transaction 12: Status error. The status detail indicates that the specified language must be an existing one.

### 3.5.2. Test case dm\_def\_update: Updating a destination filter

**Message:** dm\_def\_update\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a transmission item with id='10000' and description = 'Test-transmission'.

Transaction 2: Insert a destination filter with id='BE',

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
DESTINATION FILTERS	

transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '1'.

**Expected  
output:**

The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

**Message:**

**dm\_def\_update\_01.xml**

**Precondition:**

For this purpose, the *dm\_def\_update\_setup\_01.xml* message should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1: Update the destination filter with id='BE', transmission item id='10000', name = 'test dest filter', for.update.extract value = '1'.

Transaction 2: Query the destination filter updated in transaction 1.

Transaction 3: Try to update the destination filter with id='B3', transmission item id='10000', name with a text longer than 500 characters, for.update.extract value = 'X'.

Transaction 4: Try to update the destination filter with id = 'BE', name = 'test dest filter', for.update.extract value = '1'. It has two items in the transmission item list making reference to the same id='10000'.

Transaction 5: Try to update the destination filter with id='BE', transmission item id='10000', name = 'test dest filter', for.update.extract value = '1' and two items in the language list making reference to the same language code = 'EN'.

Transaction 6: Try to update the destination filter with id='BE', transmission item id='10000', name = 'test dest filter', for.update.extract value = '1' and two items in the excluded Measure type list making reference to the same Measure type id='001'.

Transaction 7: Try to update the destination filter with id = 'BE', name = 'test dest filter', for.update.extract value = '1'. It has two items in the transmission item list, one with id='10000' the other one with id='70000'.

Transaction 8: Try to update the destination filter with id = 'BE', name = 'test dest filter', for.update.extract value = '1'. It has one item in the excluded Measure types list with id='007'.

Transaction 9: Try to update the destination filter with id = 'BE',

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
DESTINATION FILTERS	

name = 'test dest filter', for.update.extract value = '. It has one item in the languages list with id='ES'.

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The system shows the information of the transaction item updated in the first transaction.

Reply to transaction 3: Status error. The status detail indicates that the fields are wrongly formatted.

Reply to transaction 4: Status error. The status detail indicates that in a list of references a specific reference must occur only once.

Reply to transaction 5: Status error. The status detail indicates that in a list of references a specific reference must occur only once.

Reply to transaction 6: Status error. The status detail indicates that in a list of references a specific reference must occur only once.

Reply to transaction 7: Status error. The status detail indicates that the specified transmission item must be an existing one.

Reply to transaction 8: Status error. The status detail indicates that the specified Measure type must be an existing one.

Reply to transaction 9: Status error. The status detail indicates that the specified language must be an existing one.

### 3.5.3. Test case dm\_def\_delete: Deleting a destination filter

**Message:** dm\_def\_delete\_setup\_01.xml

**Precondition:** This test case can be executed just after having tested the chapter 4 of the Output Bridge Interface.

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_01.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a transmission item with id='10000' and description = 'Footnote type'.

Transaction 2: Insert a destination filter with id='BE',

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
DESTINATION FILTERS	

transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '1'.

Transaction 3: Insert a destination filter with id='FR',  
transmission item id='10000', name = 'test dest filter',  
for.update.extract value = '1'.

**Expected  
output:**

The message is composed of transactions that reply to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

**Message:**

**dm\_def\_delete\_setup\_02.xml**

**Precondition:**

The *dm\_def\_delete\_setup\_01.xml* message should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 4: Generate in the background, a full extraction job request with destination filter identifier id = 'BE', transmission item ref id='10000'. Active date/time = '2009-01-01T00:00:00'.

**Expected  
output:**

The message is composed of transactions that reply to the original transactions:

Reply to transaction 4: Status ok.

**Message:**

**dm\_def\_delete\_01.xml**

**Precondition:**

For this purpose, the *dm\_def\_delete\_setup\_01.xml* and *dm\_delete\_setup\_02* messages should be successfully processed by the system and the full extraction job should have been done already.

**Content:**

The message is composed of the following transactions:

Transaction 1: Delete the destination filter with id = 'BE'.

Transaction 2: Query the destination filter with id = 'BE'.

Transaction 3: Try to delete the destination filter with id = 'XX'.

Transaction 4: Try to delete the destination filter with id='FR'.

**Expected  
output:**

The message is composed of transactions that reply to the original transactions:

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
DATA MAINTENANCE	Ref: TARIC3-OUB-STP
DESTINATION FILTERS	

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok. The result set is empty.

Reply to transaction 3: Status error. The status detail indicates that when specified, the item indicated by the reference must exist.

Reply to transaction 4: Status error. The status indicates that an entity cannot be deleted when referenced by other entities.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
TEST DIRECTION	

## 4. OUTPUT BRIDGE INTERFACE

### 4.1. Test direction

For the test cases of this section, a user having the necessary profile to request an extraction data file generation is needed. Be sure the system contains a representative set of TARIC data, and for that objective, the reference data must be inserted in the database.

### 4.2. Setup of the Reference Data

**Message:** Ref\_transmission\_items\_01.xml

**Precondition:** The database is empty.

**Content:** This message is composed of the following transactions:

Transaction 1: Insert a valid transmission item with id= 01000, description= 'Transmission Comment'.

Transaction 2: Insert a valid transmission item with id= 10000, description= 'Footnote Type'.

Transaction 3: Insert a valid transmission item with id= 10005, description= 'Footnote Type Description'.

Transaction 4: Insert a valid transmission item with id= 11000, description= 'Certificate Type'.

Transaction 5: Insert a valid transmission item with id= 11005, description= 'Certificate Type Description'.

Transaction 6: Insert a valid transmission item with id= 12000, description= 'Additional Code Type'.

Transaction 7: Insert a valid transmission item with id= 12005, description= 'Additional Code Type Description'.

Transaction 8: Insert a valid transmission item with id= 13000, description= 'Language'.

Transaction 9: Insert a valid transmission item with id= 13005, description= 'Language Description'.

Transaction 10: Insert a valid transmission item with id= 14000, description= 'Measure Type Series'.

Transaction 11: Insert a valid transmission item with id= 14005, description= 'Measure Type Series Description'.

Transaction 12: Insert a valid transmission item with id= 15000, description= 'Regulation Group'.

Transaction 13: Insert a valid transmission item with id= 15005,



DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

description= 'Regulation Group Description'.

Transaction 14: Insert a valid transmission item with id= 16000,  
description= 'Regulation Role Type'.

Transaction 15: Insert a valid transmission item with id= 16005,  
description= 'Regulation Role Type'.

Transaction 16: Insert a valid transmission item with id= 16010,  
description= 'Regulation Role Combination'.

Transaction 17: Insert a valid transmission item with id= 17000,  
description= 'Publication Sigle'.

Transaction 18: Insert a valid transmission item with id=20000,  
description= 'Footnote'.

Transaction 19: Insert a valid transmission item with id=20005,  
description= 'Footnote Description Period'.

Transaction 20: Insert a valid transmission item with id=20010,  
description= 'Footnote Description'.

Transaction 21: Insert a valid transmission item with id=20500,  
description= 'Certificate'.

Transaction 22: Insert a valid transmission item with id=20505,  
description= 'Certificate Description Period'.

Transaction 23: Insert a valid transmission item with id=20510,  
description= 'Certificate Description'.

Transaction 24: Insert a valid transmission item with id=21000,  
description= 'Measurement Unit'.

Transaction 25: Insert a valid transmission item with id=21005,  
description= 'Measurement Unit Description'.

Transaction 26: Insert a valid transmission item with id=21500,  
description= 'Measurement Unit Qualifier'.

Transaction 27: Insert a valid transmission item with id=21505,  
description= 'Measurement Unit Qualifier Description'.

Transaction 28: Insert a valid transmission item with id=22000,  
description= 'Measurement'.

Transaction 29: Insert a valid transmission item with id=22500,  
description= 'Monetary Unit'.

Transaction 30: Insert a valid transmission item with id=22505,  
description= 'Monetary Unit Description'.

Transaction 31: Insert a valid transmission item with id=23000,  
description= 'Duty Expression'.

Transaction 32: Insert a valid transmission item with id=23005,

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

description= 'Duty Expression Description'.

Transaction 33: Insert a valid transmission item with id=23500,  
description= 'Measure Type'.

Transaction 34: Insert a valid transmission item with id=23505,  
description= 'Measure Type Description'.

Transaction 35: Insert a valid transmission item with id=24000,  
description= 'Additional Code Type/Measure Type'.

Transaction 36: Insert a valid transmission item with id=24500,  
description= 'Additional Code'.

Transaction 37: Insert a valid transmission item with id=24505,  
description= 'Additional Code Description Period'.

Transaction 38: Insert a valid transmission item with id=24510,  
description= 'Additional Code Description'.

Transaction 39: Insert a valid transmission item with id=24515,  
description= 'Footnote Association - Additional Code'.

Transaction 40: Insert a valid transmission item with id=25000,  
description= 'Geographical Area'.

Transaction 41: Insert a valid transmission item with id=25005,  
description= 'Geographical Area Description Period'.

Transaction 42: Insert a valid transmission item with id=25010,  
description= 'Geographical Area Description'.

Transaction 43: Insert a valid transmission item with id=25015,  
description= 'Geographical Area Membership'.

Transaction 44: Insert a valid transmission item with id=27000,  
description= 'Goods Nomenclature Group'.

Transaction 45: Insert a valid transmission item with id=27005,  
description= 'Goods Nomenclature Group Description'.

Transaction 46: Insert a valid transmission item with id=27500,  
description= 'Complete Abrogation Regulation'.

Transaction 47: Insert a valid transmission item with id=28000,  
description= 'Explicit Abrogation'.

Transaction 48: Insert a valid transmission item with id=28500,  
description= 'Base Regulation'.

Transaction 49: Insert a valid transmission item with id=29000,  
description= 'Modification Regulation'.

Transaction 50: Insert a valid transmission item with id=29500,  
description= 'Prorogation Regulation'.

Transaction 51: Insert a valid transmission item with id=29505,

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

description= 'Prorogation Regulation Action'.

Transaction 52: Insert a valid transmission item with id=30000,  
description= 'Full Temporary Stop Regulation'.

Transaction 53: Insert a valid transmission item with id=30005,  
description= 'FTS Regulation Action'.

Transaction 54: Insert a valid transmission item with id=30500,  
description= 'Regulation Replacement'.

Transaction 55: Insert a valid transmission item with id=32000,  
description= 'Meursing Table Plan'.

Transaction 56: Insert a valid transmission item with id=32500,  
description= 'Meursing Heading'.

Transaction 57: Insert a valid transmission item with id=32505,  
description= 'Meursing Heading Text'.

Transaction 58: Insert a valid transmission item with id=32510,  
description= 'Footnote Association - Meursing Heading'.

Transaction 59: Insert a valid transmission item with id=33000,  
description= 'Meursing Subheading'.

Transaction 60: Insert a valid transmission item with id=34000,  
description= 'Meursing Additional Code'.

Transaction 61: Insert a valid transmission item with id=34005,  
description= 'Meursing Table Cell Component'.

Transaction 62: Insert a valid transmission item with id=35000,  
description= 'Measure Condition Code'.

Transaction 63: Insert a valid transmission item with id=35005,  
description= 'Measure Condition Code Description'.

Transaction 64: Insert a valid transmission item with id=35500,  
description= 'Measure Action'.

Transaction 65: Insert a valid transmission item with id=35505,  
description= 'Measure Action Description'.

Transaction 66: Insert a valid transmission item with id=36000,  
description= 'Quota Order Number'.

Transaction 67: Insert a valid transmission item with id=36010,  
description= 'Quota Order Number Origin'.

Transaction 68: Insert a valid transmission item with id=36015,  
description= 'Quota Order Number Excluded country'.

Transaction 69: Insert a valid transmission item with id=37000,  
description= 'Quota Definition'.

Transaction 70: Insert a valid transmission item with id=37005,

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

description= 'Quota Association'.

Transaction 71: Insert a valid transmission item with id=37010,  
description= 'Quota Blocking Period'.

Transaction 72: Insert a valid transmission item with id=37015,  
description= 'Quota Suspension Period'.

Transaction 73: Insert a valid transmission item with id=37500,  
description= 'Quota Balance Event'.

Transaction 74: Insert a valid transmission item with id=37505,  
description= 'Quota Unblocking Event'.

Transaction 75: Insert a valid transmission item with id=37510,  
description= 'Quota Critical Event'.

Transaction 76: Insert a valid transmission item with id=37515,  
description= 'Quota Exhaustion Event'.

Transaction 77: Insert a valid transmission item with id=37520,  
description= 'Quota Reopening Event'.

Transaction 78: Insert a valid transmission item with id=37525,  
description= 'Quota Unsuspension Event'.

Transaction 79: Insert a valid transmission item with id=37530,  
description= 'Quota Closed and Balance Transferred Event'.

Transaction 80: Insert a valid transmission item with id=38000,  
description= 'Ceiling'.

Transaction 81: Insert a valid transmission item with id=40000,  
description= 'Goods Nomenclature'.

Transaction 82: Insert a valid transmission item with id=40005,  
description= 'Goods Nomenclature Indent'.

Transaction 83: Insert a valid transmission item with id=40010,  
description= 'Goods Nomenclature Description Period'.

Transaction 84: Insert a valid transmission item with id=40015,  
description= 'Goods Nomenclature Description'.

Transaction 85: Insert a valid transmission item with id=40020,  
description= 'Footnote Associations - Goods Nomenclature'.

Transaction 86: Insert a valid transmission item with id=40025,  
description= 'Nomenclature Group Membership'.

Transaction 87: Insert a valid transmission item with id=40035,  
description= 'Goods Nomenclature Origin'.

Transaction 88: Insert a valid transmission item with id=40040,  
description= 'Goods Nomenclature Successor'.

Transaction 89: Insert a valid transmission item with id=41000,

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

description= 'Export Refund Nomenclature'.

Transaction 90: Insert a valid transmission item with id=41005,  
description= 'Export Refund Nomenclature Indent'.

Transaction 91: Insert a valid transmission item with id=41010,  
description= 'Export Refund Nomenclature Description  
Period'.

Transaction 92: Insert a valid transmission item with id=41015,  
description= 'Export Refund Nomenclature Description'.

Transaction 93: Insert a valid transmission item with id=41020,  
description= 'Footnote Association - ERN'.

Transaction 94: Insert a valid transmission item with id=43000,  
description= 'Measure'.

Transaction 95: Insert a valid transmission item with id=43005,  
description= 'Measure Component'.

Transaction 96: Insert a valid transmission item with id=43010,  
description= 'Measure Condition'.

Transaction 97: Insert a valid transmission item with id=43011,  
description= 'Measure Condition Component'.

Transaction 98: Insert a valid transmission item with id=43015,  
description= 'Measure Excluded Geographical Area'.

Transaction 99: Insert a valid transmission item with id=43020,  
description= 'Footnote Association - Measure'.

Transaction 100: Insert a valid transmission item with id=43025,  
description= 'Measure Partial Temporary Stop'.

Transaction 101: Insert a valid transmission item with id=44000,  
description= 'Monetary Exchange Period'.

Transaction 102: Insert a valid transmission item with id=44005,  
description= 'Monetary Exchange Rate'.

Transaction 103: Insert a valid transmission item with id=37020,  
description= 'Quota Extended Information'.

**Expected  
output:**

The message is composed of transactions that reply to the original transactions:

Reply to all the transactions: Status ok.

**Message:**

**Init\_ref\_data\_setup\_02.xml**

**Precondition:**

Be sure the list of transmissions items have been inserted and that it is the only existing data in the database.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

**Content:**

In order to be sure that the system contains a representative set of data, this message is composed of the following transactions:

Transaction 1: Insert a valid stable language with code= 'EN', start date= '2000-01-01' (without multilingual descriptions due to the fact that there are no valid languages inserted yet).

Transaction 2: Insert a valid stable language with code= 'FR', start date= '2000-01-01' and with multilingual descriptions for all valid languages ('EN').

Transaction 3: Insert a valid stable language with code= 'NL', start date= '2000-01-01' and with multilingual descriptions for all valid languages ('EN' – 'FR').

Transaction 4: Insert a valid country group with id='1010', start date= '1958-01-01', area code='1'.

Transaction 5: Insert a valid country group with id='2020', start date= '1984-01-01', area code='1'.

Transaction 6: Insert a valid country with id='BE', area code= '0' (country), start date= '1958-01-01' with country group membership='1010'.

Transaction 7: Insert a valid country with id='NL', area code= '0' (country), start date= '2000-01-01'.

Transaction 8: Insert a valid publication sigle with code type= 'MOU', code= 'EUR', publication code= '0', start date = '2008-01-01', validity end date='2020-01-01' and publication sigle id = 1110.

Transaction 9: Insert a stable Measure type series='AA', start date='2008-01-01' measure type combination = 0, with multilingual descriptions for all valid languages.

Transaction 10: Insert a stable additional code type id='E', start date = '2008-01-01', application code='0'.

Transaction 11: Insert a stable additional code type id='A', start date = '2008-01-01', application type='1'.

Transaction 12: Insert a stable Measure type with id= '002', Measure type series= 'AA', start date='2009-01-01' and with multilingual descriptions for all valid languages.

Transaction 13: Insert a stable Measure type with id= '003', start date='2008-01-01', end date= '2009-02-01', Measure type series= 'AA' and with multilingual descriptions for all valid languages.

Transaction 14: Insert a stable additional code with id='001', additional code type id = 'A' and start date = '2008-01-01'.

Transaction 15: Insert a stable measure action code with code=

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

‘300’, validity period start date = ‘2008-01-01’ and with multilingual descriptions for all valid languages.

Transaction 16: Insert a valid stable certificate type with code= ‘C’, validity period start date =‘2007-01-01’, end date=‘2007-12-31’ and with multilingual descriptions for all valid languages.

Transaction 17: Insert a valid stable certificate with certificate type code= ‘C’, certificate code= ‘SC1’, start date = ‘2007-01-01’, and a description period with multilingual descriptions for all valid languages.

Transaction 18: Insert a valid stable goods nomenclature id=‘0100000000’, start date=‘2008-01-01’.

Transaction 19: Insert a valid stable goods nomenclature id=‘0200000000’, start date=‘2008-01-01’, end date=‘2009-01-01’.

Transaction 20: Insert stable goods nomenclature id=‘0300000000’, start date=‘2009-01-01’, end date=‘2009-02-01’.

Transaction 21: Insert a stable legal regulation id=‘R0801010’.

Transaction 22: Insert a valid stable regulation role type with id= ‘1’, start date = ‘2008-01-01’ and with multilingual descriptions for all valid languages.

Transaction 23: Insert a valid stable measure condition code= ‘MC’ with start date=‘2008-01-01’.

Transaction 24: Insert stable measurement unit qualifier with code = ‘Q’, start date = ‘2008-01-01’.

Transaction 25: Insert a stable measurement unit with unit code= ‘SMU’, validity start date= ‘2008-01-01’ and with multilingual descriptions for all valid languages.

Transaction 26: Insert a stable footnote type id=‘SFT’, start date=‘2005-01-01’, application code=‘8’.

Transaction 27: Insert a stable footnote type id=‘FNT’, start date=‘2008-01-01’, end date=‘2008-12-01’, application code=‘9’.

Transaction 28: Insert a stable footnote id=‘00700’, with footnote type id=‘SFT’ and start date=‘2005-01-01’.

Transaction 29: Insert a stable footnote id=‘00800’, with footnote type id=‘FNT’ and start date=‘2008-01-01’, end date=‘2008-12-01’.

Transaction 30: Insert a stable Meursing table plan with id= ‘11’, start date= ‘2008-01-01’ a heading with validity start date =

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

‘2008-01-01’ containing a footnote association with footnote id= ‘00700’ and footnote type= ‘SFT’.

Transaction 31: Insert a stable Meursing Additional code with id = ‘111’, start date ‘2008-01-01’, end date = ‘2008-12-01’ with a table cell component for each subheading defined in the meursing table plan id = ‘11’.

Transaction 32: Insert a stable monetary unit with code= ‘EUR’ and multilingual descriptions for all valid languages, start date= ‘2007-01-01’.

Transaction 33: Insert a stable monetary unit with code= ‘USD’ and multilingual descriptions for all valid languages, start date= ‘2007-01-01’.

Transaction 34: Insert a stable monetary unit with code= ‘CZK’ and multilingual descriptions for all valid languages, start date= ‘2007-01-01’, end date=‘2008-12-01’.

Transaction 35: Insert a stable monetary exchange with monetary unit = ‘EUR’, exchange rate monetary unit= ‘USD’ with exchange rate = ‘1.4’, start date= ‘2009-01-01’.

Transaction 36: Insert a stable monetary exchange with monetary unit = ‘CZK’, exchange rate monetary unit= ‘EUR’ with exchange rate = ‘100’, start date= ‘2007-01-01’, end date=‘2008-12-01’.

Transaction 37: Insert a stable regulation groups with id = ‘SRG’, start date= ‘2008-01-01’.

Transaction 38: Insert a stable regulation groups with id = ‘AGR’, start date= ‘2008-01-01’.

Transaction 39: Insert a stable duty expression with id=‘33’, start date=‘2008-01-01’.

Transaction 40: Insert a stable export refund nomenclature with goods code= ‘0100000000’, product line= ‘80’, additional code type = ‘E’, export refund code= ‘010’, start date= ‘2008-01-01’, validity end date= ‘2009-02-01’, an indent with start date= ‘2008-01-01’ and a description period (start date = ‘2008-01-01’) with multilingual descriptions for all valid languages.

Transaction 41: Insert a stable base regulation with regulation id=‘R0801010’, regulation group id = ‘AGR’, regulation role type = ‘1’, start date=‘2008-01-01’ and end date = ‘2020-01-01’.

Transaction 42: Insert a valid stable measure type with id= ‘001’ with validity period start date = ‘2008-01-01’, measure type series id = ‘AA’, associated additional code=‘A’, associated regulation group=‘AGR’.



DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

Transaction 43: Insert a valid stable agricultural duty expression with id= '33' with validity period start date = '2008-01-01', reduction type ='N' and Measure type id = '001'.

Transaction 44: Insert a stable agricultural measure validation rule with Measure type= '001', geographical area= 'BE' and start date= '2008-01-01'.

Transaction 45: Insert a stable measure agricultural duty expression with Measure type= '001', geographical area= 'BE' and start date= '2008-01-01', end date='2009-02-01'.

Transaction 46: Insert a valid stable measure action code with id= '001' with validity period start date = '2008-01-01'.

Transaction 47: Insert a stable dynamic footnote association rule with type= 'FNT' and id= '00800', validity start date= '2008-01-01', end date='2008-12-01'.

Transaction 48: Insert a stable measure with goods nomenclature reference= '0100000000', product line= '80', Measure type='001', additional code type='A', additional code='001', order number='000008', regulation role type='1', generating regulation='R0801010', geographical area id='BE' and start date= '2008-01-01'.

Transaction 49: Insert a stable measure with goods nomenclature reference= '0200000000', Measure type='001', product line= '80', additional code type='A', additional code='001', order number='000008', regulation role type='1', generating regulation='R0801010', geographical area id='NL' and start date= '2008-01-01', end date='2009-02-01'.

Transaction 50: Insert a stable country with geographical area id='JP', area code='0' and start date= '1972-01-01'.

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to all the transactions: Status ok.

**Message:**

**Init\_ref\_data\_setup\_03.xml**

**Precondition:**

This message should be processed right after *Init\_ref\_data\_setup\_02.xml*.

**Content:**

In order to be sure that the system contains a representative set of data, this message is composed of the following transactions:

Transaction 1: Insert a destination filter with id='BE', name = 'extraction data', for.update.extract value = '1', , all transmissions items have been specified, language list includes the languages codes 'EN', 'NL' and 'FR'

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

Transaction 2: Insert a destination filter with id='FR', name = 'extraction data', for.update.extract value = '1', all transmissions items have been specified, language list includes the language code='EN', excluded chapter list = '01'.

Transaction 3: Insert a destination filter with id='IT', name = 'extraction data', for.update.extract value = '0', excluded Measure type id='001', language list includes the language code='EN'.

Transaction 4: Insert a destination filter with id='DE', name = 'extraction data', for.update.extract value = '0', all transmissions items have been specified, languages list includes: 'FR' and 'EN', excluded Measure types id='002' and id='003'.

Transaction 5: Insert a destination filter with id='PT', name = 'extraction data', for.update.extract value = '0', , languages list includes: 'EN', the transmission list is limited to: the IDs:

- '23500' (Measure type);
- '23505' (Measure type descriptions);
- '27000' (Goods nomenclature group);
- '27005' (Goods nomenclature group description);
- '35000' (Measure Condition Code);
- '40000' (Goods Nomenclature);
- '40005' (Goods Nomenclature Indent);
- '40010' (Goods Nomenclature Description Period);
- '40015' (Goods Nomenclature Description);
- '40020' (Footnotes Association - GN);
- '40025' (Goods Nomenclature Membership);
- '41000' (Export Refund Nomenclature);
- '41005' (Export Refund Nomenclature Indent);
- '41010' (Export Refund Nomenclature Description Period);
- '41015' (Export Refund Nomenclature Description);
- '41020' (Footnote Association - ERN);
- '43000' (Measure);
- '43005' (Measure Component).

Transaction 6: Insert a receiver with reference id='SP',

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

format='XML' and description = 'receiver-01'.

Transaction 7: Insert a receiver with reference id='GB', formats='EDIFACT3' and 'XML', description = 'receiver-02'.

Transaction 8: Insert a receiver with reference id='SL', format='XML' and description = 'receiver-03'.

Transaction 9: Insert a receiver with reference id='PT', format='XML' and description = 'receiver-04'.

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to all the transactions: Status ok.

**Message:**

**Init\_ref\_data\_setup\_04.xml**

**Precondition:**

This message should be processed right after *Init\_ref\_data\_setup\_11.xml*.

**Content**

The message is composed of the following transactions:

Transaction 1: Insert an order number:

IdOn\_codeStart\_date  
ON1 090002 2009-01-01  
Geographical Area Group 1020  
Quota Id 1

Transaction 2: Insert a quota:

ON 090002  
Val\_start 2009-01-01  
Volume 1000  
Unit EUR

Transaction 3: Insert a quota blocking period using the following values:

on	090002	val_start 2009-01-01
start_date	2009-01-01	val_end 2009-06-01
type	1	

Transaction 4: Insert a quota suspension period using the following values:

on	090002	val_start 2009-01-01
start_date	2009-01-01	val_end 2009-05-01

**Expected**

The message is composed of the replies to the original

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

**output:**

transactions:

Reply to transaction 1: Status ok. The order number is successfully inserted into the system.

Reply to transaction 2: Status ok. The quota is successfully inserted into the sytem.

Reply to transaction 3: Status ok. The quota blocking period is successfully inserted into the system.

Reply to transaction 4: Status ok. The quota suspension period is successfully inserted into the system.

**Message:**

**Init\_ref\_data\_setup\_05.xml**

**Content**

The message is composed of the following transactions:

Transaction 1: Insert the following order number:

Code 090003

Description ON1

Val\_start 2009-01-01

Geographical Area Group 1020

**Transaction 2: Insert the following quota:**

ON 090003

Val\_start 2009-01-01

Val\_end 2009-12-31

Volume 1000

Monetary Unit EUR

Max Precision 0

Transaction 3: Insert the following drawing request

Issuer BE

Reference BE-DREQ

Acceptance\_date 2009-01-01

Origin MG

Order Number 090003

Amount 1000

Unit code EUR

Action: Wait 3 seconds.

**Expected output**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok. The order number is inserted successfully into the system.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

Reply to transaction 2: Status ok. The quota is successfully inserted into the system.

Reply to transaction 3: Status ok. Drawing request is inserted.

Action: Done.

**Message:**      **Init\_ref\_data\_setup\_06.xml**

**Content**      The message is composed of the following transactions:

Transaction 1: Perform allocation with allocation date 2009-02-24 on quota id 1.

Transaction 2: Generate allocation files.

Transaction 3: Send allocation files.

Transaction 4: Unlock Quota2 CDCO system

**Expected output**      The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok. Quota2 CDCO system performs allocation with the date 2009-02-24 on quota 1 (090002).

Reply to transaction 2: Status ok. Quota2 CDCO generates the files.

Reply to transaction 3: Status ok. Quota2 CDCO system sends the files.

Reply to transaction 4: Status ok. Quota2 CDCO system unlocks application.

**Message:**      **Init\_ref\_data\_setup\_07.xml**

**Content**      The message is composed of the following transactions:

Transaction 1: Insert an order number using the following values:

Code 090001

Description ON1

Val\_start 2009-01-01

Order Number id 3

Transaction 2: Insert an order number origin using the following values:

Code 090001

Val\_start 2009-01-01

Val\_End 2009-12-31

Country Sid 77

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

Transaction 3: Insert an order number origin using the following values:

Code 090001

Val\_start 2009-01-01

Val\_End 2009-12-31

Geographical Area Group 2020

**Expected output**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok. The order number is inserted successfully into the system.

Reply to transaction 2: Status ok. The order number origin is inserted successfully into the system.

Reply to transaction 3: Status ok. The order number origin is successfully inserted into the system.

**Message:**

**Init\_ref\_data\_setup\_08.xml**

**Precondition:**

Be sure the list of transmissions items have been inserted and that it is the only existing data in the database.

**Content:**

In order to be sure that the system contains a representative set of data, this message is composed of the following transactions:

Transaction 1: Insert a stable country with id='CH', area code='0', start date= '1984-01-01' with country group membership='2020'.

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to all the transactions: Status ok.

**Message:**

**Init\_ref\_data\_setup\_09.xml**

**Content**

The message is composed of the following transactions:

Transaction 1: Insert an order number using the following values:

Code 777777

Val\_start 2010-01-01

Description ON1

Order Number Id 7

Transaction 2: Insert an order number origin using the following values:

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
SETUP OF THE REFERENCE DATA	

Order number ref: code='777777', start date='2010-01-01'

Code 777777

Val\_start 2010-01-01

Val\_End 2010-12-31

Geographical Area Group 2020

**Expected output**

The message is composed of transactions that reply to the original transactions:

**Reply to all the transactions:** Status ok.

**Message:** insert\_exclusions.sql

**Content** The script is composed of the following:

Transaction 1: Insert an order number origin exclusion with the following data:

Order number id: '7', excluded geo area code='CH' (country sid=100), stability flag='0'.

**Expected output**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok. The quota summary information is updated.

**Message:** Init\_ref\_data\_setup\_10.xml

**Precondition:** This message should be processed right after Init\_ref\_data\_setup\_02.xml.

**Content:** In order to be sure that the system contains a representative set of data, this message is composed of the following transactions:

Transaction 1: Insert a destination filter with id='GR', name = 'Greece', for.update.extract value = '1', all transmissions items have been specified (including transmission item id='36015' for 'Quota Order Number Excluded country'); language list includes the languages codes 'EN'.

Transaction 2: Insert a receiver with reference id='BG', formats='EDIFACT3', 'EDIFACT2' and 'XML' and description = 'Bulgary'.

**Expected output:**

The message is composed of transactions that reply to the original transactions:

Reply to all the transactions: Status ok.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

**Message:**            **Init\_ref\_data\_setup\_11.xml**

**Precondition:**    This message should be processed right after  
*Init\_ref\_data\_setup\_02.xml*.

**Content:**            In order to be sure that the system contains a representative set of  
data, this message is composed of the following transactions:

Transaction 3: Insert a country group with id='1020', start  
date='1972-01-01', description = 'Countries excluded from  
Reg. 1694/2002'.

Transaction 4: Insert a country id='MG', start date='1972-01-  
01', description = 'Madagascar', country sid='101', country  
group membership='1020'.

**Expected  
output:**            The message is composed of transactions that reply to the  
original transactions:

Reply to all the transactions: Status ok.

**Message:**            **obde\_quota\_summary\_request\_01.xml**

**Content**            The message is composed of the following transactions:

Transaction 1: Start a batch job to update the quota summary  
information.

**Expected  
output**            The message is composed of transactions replying to the original  
transactions:

Reply to transaction 1: Status ok. The quota summary information is  
updated.

#### 4.3.        Full Extraction

**4.3.1. Test case obde\_full\_extraction\_request: Request of a full data  
extraction job.**

**Message:**            **obde\_full\_extraction\_request\_01.xml**

**Precondition:**    Make sure the database is empty first. Then, load the testing  
reference data in the system. For this purpose, the  
*Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*,  
*Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*,  
*Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01*  
messages should be successfully processed by the system.

**Content:**            The message is composed of the following transactions:

Transaction 1: Try to request a full extraction job request with  
destination filter id='FR'. Active date = '2009-01-



DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

01T00:00:00', archive date= '2009-02-01T00:00:00'.

Transaction 2: Try to request a full extraction job request with destination filter id ='FR'. Active date = '2020-01-01T00:00:00'.

Transaction 3: Try to request a full extraction job request with destination filter id ='NL'. Active date = '2009-02-01T00:00:00'.

Transaction 4: Try to request a full extraction job request with destination filter id ='FR' but with date fields wrongly formatted.

Transaction 5: Try to request a full extraction job request with a nonexistent destination filter id ='CO' and active date = '2009-02-01T00:00:00'.

Transaction 6: Try to request a full extraction job request with a language list with nonexistent language code='ES' and the active date = '2009-02-01T00:00:00'.

Transaction 7: Try to request a full extraction job request with the active date = '2009-02-01T00:00:00', the language list has two items referencing the same language ('EN').

**Expected output:**

The message is composed of the replies to the original transactions:

Reply to transaction 1: Status error. The status detail indicates that when specified, the archive date must be less than the active date.

Reply to transaction 2: Status error. The status detail indicates that the active date cannot be in the future.

Reply to transaction 3: Status error. The status detail indicates that the languages and destination id are mutually exclusive.

Reply to transaction 4: Status error. The status detail indicates that the fields are wrongly formatted.

Reply to transaction 5: Status error. The status detail indicates that when specified, the item indicated by the reference must exist.

Reply to transaction 6: Status error. The status detail indicates that when specified, the item indicated by the reference must exist.

Reply to transaction 7: Status error. The status detail indicates that in a list of references, a specific reference must occur only once.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

#### 4.3.2. Test case obde\_full\_extraction\_data\_file: Generation of full data extraction files.

**Message:** obde\_full\_extraction\_data\_file\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system. Transactions 2 to 6 must be performed just after the complete execution of the full extraction job, which is to be done in the first transaction.

**Content:** The message is composed of the following transactions:

**Transaction 1:** Generate a full extraction job with destination filter identifier id = 'BE' and receiver id = 'PT'. Active date = '2009-01-28T00:00:00', archive date = '2009-12-01T00:00:00', extraction limit timestamp is 5 hours in the future.

**Expected output:** The message is composed of the replies to the original transactions:

**Reply to transaction 1:** Status ok. The process has generated separated XML files:

- Four of them contain the information which will still be active at 2009-02-28T00:00:00 (one contains the active language independent data; the other three contain the active language dependent data).
- Four of them contain archive data, it means the information that was active at 2008-12-01T00:00:00 but is not active anymore (one contains the archive language independent data; the other three contain the archive language dependent data).
- Review that the extracted data may be in the archive data files or in the active data files but not in both.
- The extraction file name has format `<aaaaaaaa><filetype>[<ll>].<format>` ([\[TARIC3-OUB-FS\]](#)) where:
  - `<aaaaaaaa>` is the application id as specified;
  - `<filetype>` is the file type (ARCH for archive data, ACT for static data);
  - `<ll>` is the language code;

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

- *<format>* is the message format (.xml or .edifact).

**Message:** obde\_full\_extraction\_data\_file\_02.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system. Transactions 2 to 6 must be performed just after the complete execution of the full extraction job, which is to be done in the first transaction.

**Content:** The message is composed of the following transactions:

Transaction 1: Perform a request of the full extraction details of the process done in transaction 1.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The reports contain the versioned information.

**Message:** obde\_full\_extraction\_data\_file\_03.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system. Transactions 2 to 6 must be performed just after the complete execution of the full extraction job, which is to be done in the first transaction.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate a full extraction job request with destination filter id = 'FR' and receiver id= 'PT'. Active date= '2009-01-01T00:00:00', extraction limit timestamp is 5 hours in the future.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The EDIFACT format of the extract data file keeps the standard format specified for TARIC3 ([\[TARIC3-OUB-MCS\]](#)). The extracted data

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

excludes all goods nomenclatures as well as related components and related records (or parent-child dependencies) as specified in the destination filter '*chapters to exclude*' list (goods nomenclature id excluded = '0100000000'). The data generated contains all the active information existent in the database according to the active date specified but consider only the descriptions in the languages as specified in the destination filter (language = 'EN').

**Message:** obde\_full\_extraction\_data\_file\_04.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system. Transactions 2 to 6 must be performed just after the complete execution of the full extraction job, which is to be done in the first transaction.

**Content:** The message is composed of the following transactions:

**Transaction 1:** Generate a full extraction job request with destination filter id = 'IT' and receiver id = 'PT'. Active date = '2009-01-01T00:00:00', extraction limit timestamp is 5 hours in the future.

**Expected output:** The message is composed of the replies to the original transactions:

**Reply to transaction 1:** Status ok. Make sure that:

- The data generated contains all the active information that exists in the database according to the active date specified but consider only the descriptions in the languages as specified in the destination filter (language = 'EN').
- The extracted data also excludes all Measure types and related records (or parent-child dependencies) as specified in the destination filter '*measures to exclude*' list. It also excludes all measure of Measure types as specified in the destination filter '*measures to exclude*'. It excludes all measure associated components related to measures of Measure types as specified in the destination filter '*measures to exclude*' (Measure type excluded = '001').
- The process has generated two XML files (one contains the active language independent data, and the other one

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

contains the active language dependent data).

**Message:** obde\_full\_extraction\_data\_file\_05.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system. Transactions 2 to 6 must be performed just after the complete execution of the full extraction job, which is to be done in the first transaction.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate a full extraction job request with destination filter id = 'DE' and receiver id = 'PT'. Active date = '2009-01-01T00:00:00', extraction limit timestamp is 5 hours in the future.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The extraction considers:

- The transmission items as specified in the list of transmission items *specified in the destination filter*.
- For each transmission item an XML record structure was built including the transaction identifier, the record code, subrecord code, record sequence number, update type (structure following the definition specified in [\[TARIC3-TMES\]](#)).
- The update type field of the data extracted for the full extraction is data which has an *update type* 'insert'.

**Message:** obde\_full\_extraction\_data\_file\_06.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Try to generate a full extraction job with active date = '2009-02-28T00:00:00'. No destination filter either

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

language list was specified. Extraction limit timestamp is 5 hours in the future.

**Expected output:**

The message is composed of the replies to the original transactions:

Reply to transaction 1: Status error. Either the receiver/destination parameter or the language list parameter must be specified.

**Message:**

**obde\_full\_extraction\_data\_file\_07.xml**

**Precondition:**

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1: Generate a full extraction job with active date = '2009-01-01T00:00:00'. Language list= 'FR', 'EN'. Export format list= 'EDIFACT3'. Extraction limit timestamp is 5 hours in the future.

**Expected output:**

The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The extraction data contains the information still active at 2009-01-01T00:00:00. All descriptions in the language list were considered and the exported format was 'EDIFACT3'.

**Message:**

**obde\_full\_extraction\_data\_file\_08.xml**

**Precondition:**

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_08.xml*, *Init\_ref\_data\_setup\_09.xml*, *Init\_ref\_data\_setup\_10.xml* and *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system.

The job *obde\_full\_extraction\_update\_file\_01.xml* must be successfully executed before the execution of this job.

No audit timestamp has been specified for this job, therefore, the *audit cutoff timestamp* taken into account for the job would be the one specified by default in the configuration setup (*export should not include previously inserted data*).

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
FULL EXTRACTION	

**Content:** The message is composed of the following transactions:

**Transaction 1:** Generate a full extraction job with active date = '2009-01-01T00:00:00'. Destination filter = 'DE', receiver='PT'. Extraction limit timestamp is the current time.

**Expected output:** The message is composed of the replies to the original transactions:

**Reply to transaction 1:** Status ok. The extraction contains no data.

**Message:** obde\_full\_extraction\_data\_file\_09.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_08.xml*, *Init\_ref\_data\_setup\_09.xml*, *Init\_ref\_data\_setup\_10.xml* and *obde\_quota\_summary\_request\_01* messages should be successfully processed by the system.

The job *obde\_full\_extraction\_update\_file\_01.xml* must be successfully executed before the execution of this job and after that, the STP is configured to sleep 120 seconds.

The *audit cutoff timestamp* taken into account for the job would be the one specified by default in the configuration setup, which by default is 2 minutes; therefore, the export would include all the records inserted in the job *obde\_full\_extraction\_update\_file\_01.xml*.

**Content:** The message is composed of the following transactions:

**Transaction 1:** Generate a full extraction job with active date = '2009-01-01T00:00:00'. Destination filter = 'DE', receiver='PT'. Extraction limit timestamp is the current time.

**Expected output:** The message is composed of the replies to the original transactions:

**Reply to transaction 1:** Status ok. The extraction data contains the information still active at 2009-01-01T00:00:00. Descriptions were exported in languages EN and FR. Exported format was 'XML'.

**Message:** obde\_full\_extraction\_data\_file\_10.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_08.xml*, *Init\_ref\_data\_setup\_09.xml* and *Init\_ref\_data\_setup\_10.xml*

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

messages and script *insert\_exclusions.sql* should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

**Transaction 1:** Generate a full extraction job with active date = '2010-01-02T00:00:00'. Destination filter = 'GR', receiver='BG'. Extraction limit timestamp is the current time.

**Expected output:**

The message is composed of the replies to the original transactions:

**Reply to transaction 1:** Status ok. The extraction data contains the information still active at 2010-01-02T00:00:00. The process generates some files where it is possible to review the following:

- The files exported are in the three formats: 'EDIFACT2', 'EDIFACT3' and 'XML';
- the files include just the descriptions in the language code='EN';
- For the files in format 'EDIFACT3' and 'XML', the quota data is present, including the transmission item '36015';
- For the file in format 'EDIFACT2', the transmission item '36015' was not taken into account.

#### 4.4. Incremental Extraction

**4.4.1. Test case obde\_incremental\_extraction\_setup: Generation of the setup environment for the incremental data extraction job test cases.**

**Message:**

**obde\_incremental\_extraction\_setup\_01.xml**

**Precondition:**

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Init\_ref\_data\_setup\_02.xml*, *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_03.xml*, *Init\_ref\_data\_setup\_04.xml*, *Init\_ref\_data\_setup\_05.xml*, *Init\_ref\_data\_setup\_06.xml*, *Init\_ref\_data\_setup\_07.xml* messages should be successfully processed by the system.

**Content:**

The message is composed of the following transaction:

**Transaction 1:** Generate a full extraction job'. Active date = '2008-12-31T24:00:00', there are four destinations specified: 'BE', 'FR', 'IT', 'DE'

**Expected output:**

The message is composed of the reply to the original transaction:



DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

Reply to transaction 1: Status ok.

**Message:** obde\_incremental\_extraction\_setup\_02.xml

**Precondition:** The obde\_incremental\_extraction\_setup\_01.xml message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Insert a valid country with id='LU', area code='0' (country), start date= '2000-01-01'.

Transaction 2: Insert a valid country with id='RU', area code='0' (country), start date= '2000-01-01', end date='2008-12-01'.

Transaction 3: Insert a valid stable country group with country group id = 'BENL', area code= '1' (country group), start date = '2008-01-01', validity end date '2009-01-01', a description period (start date = '2008-01-01') and multilingual descriptions for all valid languages.

Transaction 4: Insert a stable measure with goods nomenclature id='0200000000', product line = '80', start date='2008-01-01', geographical area='BE', additional code type='A', Measure type='001', regulation = 'R0801010' and regulation role type='1'.

Transaction 5: Insert a stable measure with goods nomenclature id='0300000000', product line = '80', start date='2008-01-01', geographical area='BE', additional code type='A', Measure type='001', regulation = 'R0801010' and regulation role type='1'.

Transaction 6: Insert a valid stable goods nomenclature id='0301000000', start date='2009-01-01', end date='2009-02-01'.

Transaction 7: Insert a valid stable monetary unit with code= 'GBP' and multilingual descriptions for all valid languages, start date= '2008-01-01'.

Transaction 8: Update the stable monetary exchange with monetary unit = 'EUR', exchange rate monetary unit= 'USD' with exchange rate = '1.6', start date= '2009-02-01'. Add another exchange rate monetary unit = 'GBP' with exchange rate = '1.3'.

Transaction 9: Update the multilingual descriptions of the stable Measure type with id= '001', Measure type series= 'AA', start date='2008-01-01'.

Transaction 10: Update the valid stable agricultural measure

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

validation rule with Measure type= '001', geographical area= 'BE' and start date= '2008-01-01'.

Transaction 11: Update the valid stable export refund nomenclature with goods code= '0100000000', product line= '80', additional code type = 'E', export refund code= '010', start date= '2008-05-01', an indent with start date= '2008-05-01' and a description period (start date = '2008-05-01') with multilingual descriptions for all valid languages.

**Expected output:**

The message is composed of the reply to the original transaction:

Reply to all the transactions: Status ok.

**Message:**

**obde\_incremental\_extraction\_setup\_03.xml**

**Content:**

Transaction 1: Insert the following order number and order number origin:

IdOn\_codeStart\_date  
ON10900042009-01-01

Transaction 2: Insert the following order number origin:

on\_code            090004   val\_start   2009-01-01  
Country            JP   val\_end   2009-12-31  
On\_start\_date       D

Transaction 3: Insert the following quota:

Q1  
ON   090003  
Val\_start2009-01-01  
Val\_end2009-12-31  
Volume 1000  
Unit   EUR

**Expected output:**

The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The order number is inserted into the system.

Reply to transaction 2: Status ok. The order number origin is inserted into the system.

Reply to transaction 3: Status ok. The quota is inserted into the system.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

#### 4.4.2. Test case *obde\_incremental\_extraction\_request*: Request of an incremental data extraction job.

**Message:** *obde\_incremental\_extraction\_request\_01a.xml / obde\_incremental\_extraction\_request\_01b.xml*

**Precondition:** The *obde\_incremental\_extraction\_setup\_02.xml*, *obde\_incremental\_extraction\_setup\_03.xml* and *obde\_quota\_summary\_request\_01* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

**Transaction 1:** Try to generate an incremental extraction job request with one destination filter with id='FR', one receiver id='SP'. Extraction date/time from= '01/01/2008' to='02-02-09-00:00'.

**Transaction 2:** Try to generate an incremental extraction job request with one destination filter with id='CO', one receiver id='IN'. Extraction date/time from='2009-01-01T00:00:00' to='2009-01-01T24:00:00'.

**Transaction 3:** Try to generate an incremental extraction job request with one destination filter with id='FR'. Extraction date/time from='2020-01-01T00:00:00' to='2020-01-01T24:00:00'.

**Transaction 4:** Generate an incremental extraction job request with one destination filter with id='IT', Extraction date/time from='2009-01-01T00:00:00' to='2009-01-01T24:00:00'.

**Transaction 5:** Generate a rerun of an incremental extraction job request with one destination filter with id='IT', Extraction date/time from='2009-01-01T00:00:00' to='2009-01-01T24:00:00'.

**Expected output:** The message is composed of the replies to the original transactions:

**Reply to transaction 1:** Status error. The status detail indicates that the fields are wrongly formatted, the representation of the date-time should be in the format: 'YYYY-MM-DDTHH-MM-SS'.

**Reply to transaction 2:** Status error. The status detail indicates that when specified, the item indicated by the destination filter must exist.

**Reply to transaction 3:** Status error. The status detail indicates that the extraction period 'to date/time' should be in the past (it should satisfy the following condition: '*to date/time*' ≤ *now*).

**Reply to transaction 4:** Status ok. Request done.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

#### 4.4.3. Test case *obde\_incremental\_extraction\_data\_file*: Generation of incremental data extraction files.

**Message:** *obde\_incremental\_extraction\_data\_file\_01.xml*

**Precondition:** The *obde\_incremental\_extraction\_setup\_02.xml*, *obde\_incremental\_extraction\_setup\_03.xml* and *obde\_quota\_summary\_request\_01* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with one destination filter with id='DE'. No extraction date/time was specified.

Transaction 2: Perform a request of the incremental extraction details of the process done in transaction 1.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. Review:

- The incremental extraction data file name is saved as *T<rr>.<dd><eee>.<format>* where:

- *<rr>* is the receiver reference
- *<dd>* is the destination filter reference;
- *<eee>* is the extraction period number;
- *<format>* is the message format (*.xml* or *.edifact*).

- The data extracted considers the changes done in the system through the *obde\_incremental\_extraction\_setup\_02.xml* message (exclusively).

- The data extracted considers only the descriptions in the languages as specified in the destination filter (language = 'EN' and 'FR').

- The data extracted contains the data inserted and updated in the message *obde\_incremental\_extraction\_setup\_01.xml* by exception of all associated components related to measures of Measure types as specified in the destination filter 'measures to exclude' (Measure type excluded = '002' and '003').

- As this one was the first extraction done in the system; the Extraction period "*from date/time*" must be equal to the *OUB.Initial.Extraction.Date* value. The "*to date/time*"

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

corresponds to the current timestamp +/- 10 minutes.

Reply to transaction 2: Status ok. A report is showed which includes the request parameters, the number of records per destination filter - transmission item combination and a description of the modifications done in the system.

**Message:** **obde\_incremental\_extraction\_data\_file\_02.xml**

**Precondition:** The *obde\_incremental\_extraction\_setup\_02.xml*, *obde\_incremental\_extraction\_setup\_03.xml* and *obde\_quota\_summary\_request\_01* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request without specifying destination filter, one receiver is listed with id='SP'. Extraction date/time from='2009-01-01T00:00:00'.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. Review:

- The data extracted considers the changes done in the system through the *obde\_incremental\_extraction\_setup\_02.xml* message (exclusively).
- The system creates a file for each destination filter defined, as there were not specified, the system has created two files generated which correspond to the destination filters with field '*for.update.extract*' set up as true (flag set to true='BE' and 'FR').
- One file is XML format and the other one is EDIFACT3.
- The data extracted also satisfy the limitation specified in the languages list. It means that the file with destination 'BE' has the descriptions in all the valid languages (EN, FR, NL) and, the destination filter 'FR' includes only the descriptions in language code 'EN'.
- The data extracted satisfy the rules regarding the excluded Measure types and the excluded chapters. It means that the file with destination 'FR' does not include the goods nomenclature which code starts with '01', either its related components.
- The incremental extraction data file name is saved as *T<rr>.<dd><eeee>.<format>*. Review that the extraction period number is a consecutive one corresponding to the next

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

one of the previous (generated in first transaction).

**Message:** obde\_incremental\_extraction\_data\_file\_04.xml

**Precondition:** The *obde\_incremental\_extraction\_setup\_02.xml*, *obde\_incremental\_extraction\_setup\_03.xml* and *obde\_quota\_summary\_request\_01* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with destination filter='IT', one receiver is listed with id='SP'. Extraction date/time from='2009-01-01T00:00:00'.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The process generates an XML file where it is possible to validate that:

- The data extracted considers the changes done in the system through the *obde\_incremental\_extraction\_setup\_02.xml* message (exclusively).
- The data extracted satisfies the limitation specified in the languages list. It means that the file includes just the descriptions in the language code 'EN'.
- The data extracted satisfy the rules regarding the excluded Measure types and the excluded chapters. It means that the file does not include the Measure type with id '001' or its related components.
- The incremental extraction data file name is saved as *T<rr>.<dd><eeee>.<format>*. Review that the extraction period number is a consecutive one corresponding to the next one of the previous.

**Message:** obde\_incremental\_extraction\_data\_file\_05.xml

**Precondition:** The *obde\_incremental\_extraction\_setup\_02.xml*, *obde\_incremental\_extraction\_setup\_03.xml* and *obde\_quota\_summary\_request\_01* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with destination filter='PT'. Extraction date/time from='2009-01-01T00:00:00' to='2009-03-01T23:59:59'.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
INCREMENTAL EXTRACTION	

**Expected output:**

The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The process generates an XML file where is possible to review the following:

- The data extracted considers the changes done in the system through the *obde\_incremental\_extraction\_setup\_02.xml* message (exclusively).
- The data extracted satisfies the limitation specified in the languages list. It means that the file includes just the descriptions in the language code= 'EN'.
- The file contains just data which satisfy the transmission item list for this specific filter (limited data according to list of domains).
- The incremental extraction data file name is saved as *T<rr>.<dd><eeee>.<format>*. Review that the extraction period number is a consecutive one corresponding to the next one of the previous.

**Message:**

**obde\_incremental\_extraction\_data\_file\_06.xml**

**Precondition:**

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *Ref\_transmission\_items\_01.xml*, *Init\_ref\_data\_setup\_08.xml*, *Init\_ref\_data\_setup\_09.xml* and *Init\_ref\_data\_setup\_10.xml* messages and script *insert\_exclusions.sql* should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with destination filter='GR', receiver='BG'.

**Expected output:**

The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The process generates three files where is possible to review the following:

- The files exported are in the three formats: 'EDIFACT2', 'EDIFACT3' and 'XML';
- For the files in format 'EDIFACT3' and 'XML', the quota data is present, including the transmission item '36015';
- For the file in format 'EDIFACT2', the transmission item '36015' was not taken into account.

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
ADDITIONAL TESTS	

## 4.5. Additional Tests

### 4.5.1. Defect 7329

**Message:** obde\_incremental\_extraction\_data\_file\_07.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *init\_ref\_data\_setup\_12.xml* message should be successfully processed by the system. The reference data insert certificates and data necessary to perform extractions.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with destination filter='EL', receiver='EL'.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The process generates three files where it is possible to review the following:

- The file exported is in one format: 'EDIFACT2';
- For the file in format 'EDIFACT2', the transmission items '20500' and '20505' were taken into account.

**Message:** obde\_incremental\_extraction\_data\_file\_08.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *init\_ref\_data\_setup\_13.xml* message should be successfully processed by the system. The reference data updates the bulgarian certificate description.

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with destination filter='EL', receiver='EL'.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The process generates three files where it is possible to review the following:

- The file exported is in one format: 'EDIFACT2';
- For the file in format 'EDIFACT2', the transmission items '20500' and '20505' were not taken into account.



DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
ADDITIONAL TESTS	

**Message:** obde\_incremental\_extraction\_data\_file\_08.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *init\_ref\_data\_setup\_14.xml* message should be successfully processed by the system. The reference data update the certificate (set an end date).

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with destination filter='EL', receiver='EL'.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The process generates three files where it is possible to review the following:

- The file exported is in one format: 'EDIFACT2';
- For the file in format 'EDIFACT2', the transmission items '20500' and '20505' were taken into account.

**Message:** obde\_incremental\_extraction\_data\_file\_08.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *init\_ref\_data\_setup\_15.xml* message should be successfully processed by the system. The reference data update the certificate (change the start date).

**Content:** The message is composed of the following transactions:

Transaction 1: Generate an incremental extraction job request with destination filter='EL', receiver='EL'.

**Expected output:** The message is composed of the replies to the original transactions:

Reply to transaction 1: Status ok. The process generates three files where it is possible to review the following:

- The file exported is in one format: 'EDIFACT2';
- For the file in format 'EDIFACT2', the transmission item '20500' was taken into account.

**Message:** obde\_incremental\_extraction\_data\_file\_08.xml

DG TAXUD – TARIC3 – Output Bridge - System Test Plan	
OUTPUT BRIDGE INTERFACE	Ref: TARIC3-OUB-STP
ADDITIONAL TESTS	

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, the *init\_ref\_data\_setup\_16.xml* message should be successfully processed by the system. The reference data delete the certificate.

**Content:** The message is composed of the following transactions:

**Transaction 1:** Generate an incremental extraction job request with destination filter='EL', receiver='EL'.

**Expected output:** The message is composed of the replies to the original transactions:

**Reply to transaction 1:** Status ok. The process generates three files where it is possible to review the following:

- The file exported is in one format: 'EDIFACT2';
- For the file in format 'EDIFACT2', the transmission items '20500' and '20505' were taken into account.