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<p>SUBJECT:</p> <p>TARIC3-STP</p> <p>System Test Plan - Master</p>		

DOCUMENT HISTORY

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0	10	19/08/2008	Submitted for review to DG TAXUD.	Insert	All
1	00	12/09/2008	Submitted for acceptance to DG TAXUD.	Update	Some
1	10	05/06/2009	Split up document. Modified test cases to correspond with process model. Added test cases. Submitted for review to DG TAXUD.	Update	All
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1	11	01/12/2009	Additional test cases	Update	As requested
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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 TARIC3 CDCO system. This system test plan concerns only the system-to-system interface and is intended to validate the business logic layer of the TARIC3 CDCO system. The interactive interface (presentation logic) is covered by a separate test plan.

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 2 chapters after this introduction chapter. Chapter 2 describes the test environment and the naming conventions used in the system test file. Chapter 3 specifies the test cases related to the maintenance of TARIC data.

1.3. Intended audience

This document is intended for people responsible for testing the business logic layer of the TARIC3 CDCO system.

1.4. Abbreviations and acronyms

CDCO	Centrally Developed Centrally Operated
DDS	Data Dissemination System
JDBC	Java DataBase Connectivity
MS	Member State
SQL	Structured Query Language
TARIC	TARif Intégré Communautaire
TIN	Trader Identification Number
UNIX	Unix operation system
VAT	Value-Added Tax
VIES	VAT Information Exchange System
XML	eXtensible Markup Language

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REFERENCE DOCUMENTS	

1.5. Reference documents

- [TARIC3-FTS] “TARIC3 - Functional Test Scenarios 2.00”, Ref. TARIC3-FTS
- [TARIC3-ITP] “TARIC3 - Test Plan Introduction 7.10”, Ref. TARIC3-ITP
- [TARIC3-STP-P1] “TARIC3 – System Test Plan - Part 1”, Ref. TARIC3-STP-P1
- [TARIC3-STP-P2] “TARIC3 – System Test Plan - Part 2”, Ref. TARIC3-STP-P2
- [TARIC3-STP-P3] “TARIC3 – System Test Plan - Part 3”, Ref. TARIC3-STP-P3
- [TARIC3-STP-P4] “TARIC3 – System Test Plan - Part 4”, Ref. TARIC3-STP-P4
- [TARIC3-STP-P5] “TARIC3 – System Test Plan - Part 5”, Ref. TARIC3-STP-P5
- [TARIC3-STP-P6] “TARIC3 – System Test Plan - Part 6”, Ref. TARIC3-STP-P6
- [TARIC3-STP-P7] “TARIC3 – System Test Plan - Part 7”, Ref. TARIC3-STP-P7
- [TARIC3-STP-P8] “TARIC3 – System Test Plan - Part 8”, Ref. TARIC3-STP-P8
- [TARIC3-STP-P9] “TARIC3 – System Test Plan - Part 9”, Ref. TARIC3-STP-P9
- [TARIC3-STP-P10] “TARIC3 – System Test Plan - Part 10”, Ref. TARIC3-STP-P10

1.6. Applicable documents

- [ARCH] “Tariff Application Technical Architecture Framework 6.00”, Ref. TATAF
- [TARIC3-FS] “TARIC3 Functional Specifications 3.00”, Ref. TARIC3-FS
- [TARIC3-UI] “TARIC3-UIS - User Interface Specification 2.00 Ref. TARIC3-UI

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TEST SCENARIO COVERAGE	

2. TEST ENVIRONMENT

2.1. Test scenario coverage

The system test plan validates the business logic layer of the TARIC3 CDCO system. It covers the test scenarios, which are defined in the [\[TARIC3-FS\]](#) document.

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

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. Five areas are defined: *init* (initialisation), *dm* (data maintenance), *dc* (data consultation), *intf* (interfaces), and *sec* (security).
- *<affected-data>* is the kind(s) of data affected by the test case. This can be: *reg* (legal regulation), *bas* (base regulation), *mod* (modification regulation), *pror* (prorogation regulation), *fts* (full temporary stopped regulations), *abr* (abrogation regulation), *abract* (abrogation regulation action), *ear* (explicit abrogation regulation), *car* (complete abrogation regulation), *meas* (measure), *made* (measures-agricultural duty expression rule), *mt* (measure type), *mts* (measure type series), *de* (duty expression), *mcc* (measure condition code), *mac* (measure action code), *mu* (measurement unit), *muq* (measurement unit qualifier), *mou* (monetary unit), *moxr* (monetary exchange), *ce* (certificate), *cet* (certificate type), *nig* (goods nomenclature), *rt* (regulation role type), *rg* (regulation group), *ern* (export refund nomenclature), *acn* (additional code), *ct* (additional code type), *me* (meursing), *fo* (footnote), *fot* (footnote type), *dfar* (dynamic footnote association rules), *mtrg* (measure type regulation group link), *ctr* (country), *cg* (country group), *ade* (agricultural duty expression), *amvr* (agricultural measure validation rule), *ps* (publication sigle), *tc* (transmission comment), *la* (language), *mua* (Meursing additional codes) or any combination of them. It might also contain *ref* for referenced data.
- *<description>* is a small description of the purpose of the test.

During the execution of a test case, several input messages can be sent to the system-to-system interface. Those messages receive a name with the following format:

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

where:

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TEST CASE STRUCTURE	

- *<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.

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. Also 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 (see mapping in [\[TARIC3-ITP\]](#)) 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.

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- 3- The tester receives the output messages and compares them with the expected output messages, which are specified in the test case specification. Also 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.

2.5. Preliminary steps to complete before executing the test plan

Before unfolding the test plan, the tester must be sure that anything you will insert is not present in the system.

2.6. Testing reference data

The testing reference data must be present in the system before the execution of each test case. Here is the specification of the input messages that must be sent to the system to insert those testing reference data. All transactions must be executed without error. The user who sends this message must have sufficient privileges to manage reference data.

Message: **init_ref_setup_01.xml**

Precondition: Make sure the database is empty.

Content: Transaction 1: Insert the following stable languages

- code = 'EN', start date= '2007-01-01'
- code = 'FR', start date= '2007-01-01'
- code = 'NL', start date= '2007-01-01'

Transaction 2: Insert the following stable countries (countries)

- country id= 'BE', area type code= '0' (country), start date= '1900-01-01' and end date= '2020-01-01'
- country id= 'DE', area type code= '0' (country)
- country id= 'FR', area type code= '0' (country), start date= '2008-01-01' and end date= '2020-01-01'
- country id= 'IQ', area type code= '0', start date= '2009-01-01', end date= '2020-01-01'
- country id= 'AF', area type code= '0', start date= '2009-01-01'
- country id= 'IT', area type code= '0', start

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TESTING REFERENCE DATA	

date= '2000-01-01'

Transaction 3: Insert the following stable countries (areas)

- country id= 'XA', area type code= '2' (area)
- country id= 'XD', area type code= '2' (area), start date= '2008-01-01'

Transaction 4: Insert the following stable country groups

- country id= '1000', area type code= '1' (country group)
- country id= '1001', area type code= '1' (country group)
- country id= '1002', area type code= '1', start date= '2008-01-01' (country group)
- country id= '1011', area type code= '1', start date= '2008-01-01' (country group) containing countries 'IQ' and 'AF'

Transaction 5: Insert the following stable measure action codes

- code= '001', start date= '2008-01-01'
- code= '002', start date= '2009-01-01'
- code= '003', start date= '2008-01-01', end date= '2009-01-31'
- Code= 'AC', start date= '2008-01-01'

Transaction 6: Insert the following stable measure condition codes

- code= 'AA', start date= '2008-01-01'
- code= 'BB', start date= '2009-01-01'
- code= 'CC', start date= '2008-01-01', end date= '2009-01-31'

Transaction 7: Insert the following stable regulation groups

- id= 'gr1', start date = '2008-01-01'
- id= 'gr2', start date= '2009-01-01'
- id= 'gr3', start date= '2009-01-01'
- id= 'REX', start date= '2009-01-01'
- id= 'gp1', start date = '2008-01-01'
- id= 'AGR', start date = '1980-01-01'

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Transaction 8: Insert the following stable measure type series

- id= 'AA', meas typ combination= '0', start date = '2008-01-01'
- id= 'BB', meas typ combination = '1' start date= '2009-01-01'
- id= 'CC', meas typ combination = '0', start date= '2008-01-01', end date= '2009-01-31'

Transaction 9: Insert the following stable additional code types

- code= 'A', application code= '0' (Export refund nomenclature), start date= '2008-01-01'
- code= '1', application code= '1' (Additional codes), start date= '2008-01-01', end date = '2010-01-01'
- code= '2', application code= '4' (Export refund for processed agricultural goods), start date= '2008-01-01'
- code= '3', application code= '3' (Meursing additional codes), start date= '2008-01-01', end date = '2010-01-01'

Transaction 10: Insert the following stable additional codes

- code= '001', code type= 'A', start date= '2008-01-01'
- code= '001', code type= '1', start date= '2008-02-01'
- code= '003', code type= '4', start date= '2008-01-01'

Transaction 11: Insert the following stable Meursing additional codes

- code= '002', code type= 'M', start date= '2008-01-01'
- code= '777', code type= 'M', start date= '2008-01-01', end date= '2008-12-31'

Transaction 12: Insert the following stable measure types

- id= '001000', meas typ series= 'AA', reg group= 'gr1', regulation group association start date= '2008-04-01', explosion level= 6, component applicable code= '0', start date= '2008-01-01', associated additional code type= 'A', associated add code type component

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- applicable code= '0', start date= 2007-01-01, order number flag= 'mandatory'
- id= '002000', meas type series= 'BB', reg group= 'gr2', explosion level= 8, component applicable code= '0', start date= '2009-01-01'
 - id= '003000', meas type series= 'CC', reg group= 'gr3', explosion level= 10, component applicable code= '0', start date= '2008-01-01', order number flag= 'not permitted'
 - id= '004000', meas type series= 'AA', reg group= 'REX', component applicable code= '0', start date= '2008-01-01', associated additional code type= 'A'
 - id= '005000', component applicable code= '0', end date= '2009-01-31'
 - id= '006000', meas type series= 'AA', associated additional code type= 'M', associated add code type start date= 2009-01-01, component applicable code= '0', start date= '2009-01-01', end date= '2020-01-01'
 - id= '007000', meas type series= 'AA', associated additional code type= 'M', associated add code type start date= 2009-01-01, component applicable code= '0', start date= '2009-01-01'
 - id= '008000', component applicable code= '1'
 - id= '009000' component applicable code= '2'
 - id= '010000', meas type series= 'AA', reg group= 'gr1', explosion level= 6, component applicable code= '0', start date= '2008-01-01', associated additional code type= 'A', associated add code type component applicable code= '0', start date= 2009-01-01, order number flag= 'mandatory'
 - id= '011000' start date= '2000-01-01', end date= '2010-01-01' and regulation group id= 'AGR' (2002-01-01to 2008-01-01)
 - id='012000' start date='1980-01-01, end date='2020-01-01' and regulation group id='AGR' (1980-01-01 to 2020-01-01)

Transaction 13: Insert the following stable goods nomenclatures

- code= '0100000000', product line= '80'

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- code= '0101110000', product line= '10'
- code= '0101109010', product line= '80'
- code= '0101010101', product line= '80'
- code= '0200000000', product line= '80'
- code= '0300000000', product line= '80'
- code= '0400000000', product line= '80'
- code= '0401010101', product line= '80'
- code= '0201109010', product line= '80', start date= '2007-01-01', end date= '2008-01-01'

Transaction 14: Insert the following stable Agricultural Measure validation rules

- Measure type= '001000', geographical area= 'IQ', start date= '2009-01-01'
- Measure type= '001000', geographical area= 'IT', start date= '2008-01-01', end date= 2008-01-31
- Measure type= '001000', geographical area= 'AF', start date= '2008-01-01', max red ind.= '10'
- Measure type= '001000', geographical area= '1011', start date= '2008-01-01', max red ind.= '10'

Transaction 15: Insert the following stable Measure-agricultural duty expression rules

- Measure type= '001000', geographical area= 'IQ', start date= '2009-01-01'
- Measure type= '001000', geographical area= 'IT', start date= '2008-02-01', end date= '2008-02-29'
- Measure type= '001000', geographical area= 'AF', start date= '2009-01-01'

Transaction 16: Insert the following stable certificate types

- certificate type code= 'A', start date= '2008-02-01'
- certificate type code= 'B' start date= '2008-02-01'
- certificate type code= 'C', start date= '2009-

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Transaction 17: Insert the following stable certificates

- Certificate type= ‘A’, certificate code= ‘CE1’, start date= ‘2007-01-01’
- Certificate type= ‘B’, certificate code= ‘CE2’, start date= ‘2007-01-01’, end date= ‘2008-01-01’

Transaction 18: Insert the following stable monetary units

- Code= ‘EUR’, start date= ‘1970-01-01’
- Code= ‘USD’, start date= ‘1970-01-01’
- Code= ‘AAA’, start date= ‘2008-01-01’, end date= ‘2008-12-31’

Transaction 19: Insert the following stable role regulations

- role type id= ‘1’ (base regulation)
- role type id= ‘2’ (provisional anti-dumping regulation)
- role type id= ‘3’ (definitive anti-dumping regulation)
- role type id= ‘4’ (modification regulation)
- role type id= ‘5’ (prorogation regulation)
- role type id= ‘6’ (complete abrogation)
- role type id= ‘7’ (Explicit abrogation)
- role type id= ‘8’ (Full temporary stop)

Transaction 20: Insert the following stable publication sigles

- code type id= ‘DE’, code= ‘CEN’, start date= ‘2000-01-01’
- code type id= ‘GA’, code= ‘DTM’, start date= ‘2000-01-01’
- code type id= ‘COND’, code= ‘DTM’, start date= ‘2000-01-01’
- code type id= ‘ACT’, code= ‘DTM’, start date= ‘2000-01-01’
- code type id= ‘MOU’, code= ‘DTM’, start date= ‘2000-01-01’
- code type id= ‘MQC’, code= ‘DTM’, start

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date= '2000-01-01'

- code type id= 'MT', code= 'DTM', start date= '2000-01-01'
- code type id= 'NG', code= 'DTM', start date= '2000-01-01'
- code type id= 'RLTP', code= 'DTM', start date= '2000-01-01'

Transaction 21: Insert the following stable duty expressions

- duty expression id= '11', reduction type= 'N' (agricultural)
- duty expression id= '22', reduction type= 'R' (agricultural)
- duty expression id= '33', reduction type= 'N' (not agricultural)
- duty expression id= '44', reduction type= 'R' (not agricultural), validity start date= '2007-01-01', validity end date= '2009-01-01'
- duty expression id= '55', duty amount applicability= '1', monetary unit applicability= '1', measurement unit applicability= '1'
- duty expression id= '66', duty amount applicability= '2', monetary unit applicability= '2', measurement unit applicability= '2'
- duty expression id= '01', short description= '+additional info'

Transaction 22: Insert the following stable agricultural duty expressions

- duty expression id= '11', reduction type= 'N', start date= '2008-03-01', end date= '2008-03-31'
- duty expression id= '22', reduction type= 'R'

Transaction 23: Insert the following stable footnote types

- Type id= 'ANC', app code= '1' validity start date= '1980-01-01'
- Type id= 'ATN', app code= '2', validity start date= '1980-01-01'
- Type id= 'ACD', app code= '5', validity start

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date= '2007-01-01'

- Type id= 'ACA', app code= '5', validity start date= '2007-01-01', validity end date = '2010-01-01'
- Type id= 'ACF', app code= '5', validity start date= '2007-01-01' (ref by a footnote)
- Type id= 'ACG', app code= '5', validity start date= '2007-01-01' (ref by a footnote)
- Type id= 'FTA', app code= '7', validity start date= '2007-01-01' (ref by a footnote)
- Type id= 'FTB', app code= '7', validity start date= '2007-01-01' (ref by a footnote)
- Type id= 'FTC', app code= '6', validity start date= '2007-01-01' (ref by a footnote)
- Type id= 'FTD', app code= '7', validity start date= '2007-01-01'
- Type id= 'ERN', app code= '3', validity start date= '2007-01-01'
- Type id= 'MUR', app code= '8', validity start date= '2007-01-01'
- Type id= 'DFA', app code= '9' (dynamic footnote), validity start date= '2007-01-01'

Transaction 24: Insert the following stable footnotes

- Type code= 'ACF', id= '00700', start date= '2007-01-01', application code
- Type code = 'ACG', id= '00800', start date= '2007-01-01'
- Type code= 'ACG', id= '00900', start date= '2007-01-01', end date= '2007-12-31'
- Type code= 'FTA', id= '19000', start date= '2007-01-01', end date= '2008-01-01'
- Type code= 'FTB', id= '19000', start date= '2007-01-01'
- Type code= 'ANC', id= '00300', start date= '2000-01-01'
- Type code= 'MUR', id= '19100', start date= '2007-01-01', end date= '2008-01-01'
- Type code= 'MUR', id= '19100', start date=

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‘2007-01-01’

- Type code= ‘ERN’, id= ‘19800’, start date= ‘2007-01-01’

Transaction 25: Insert the following stable dynamic footnote association rules

- Footnote type= ‘ACF’ and footnote id= ‘FOC’, start date= ‘2009-03-01’, end date= ‘2009-12-31’ certificate type= ‘A’, certificate code= ‘CE1’.
- Footnote type= ‘ACF’ and footnote id= ‘FOC’, start date= ‘2007-03-01’, end date= ‘2007-12-31’ certificate type= ‘A’, certificate code= ‘CE2’.

Transaction 26: Insert the following stable measurement unit qualifiers

- code = ‘A’, validity start date= ‘2007-01-01’
- code = ‘B’, validity start date= ‘2007-01-01’ (ref by a measurement unit)
- code = ‘C’, validity start date= ‘2007-01-01’, end date= ‘2008-12-31’

Transaction 27: Insert the following stable measurement units

- code = ‘EUR’, validity start date= ‘2007-01-01’
- code = ‘KGM’, a qualifier code= ‘B’, qualifier required= ‘1’, validity start date= ‘2007-01-01’
- code = ‘LTR’, validity start date= ‘2007-01-01’, end date= ‘2008-12-31’

Transaction 28: Insert the following unstable Meursing tables plans

- id= ‘01’, validity start date= ‘2008-01-01’

Expected output: N/A.

Message: **init_ref_setup_02.xml**

Precondition: Make sure init_ref_setup_02 is processed.

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Content:

The message is composed of the following transactions:

Transaction 1: Insert the following unstable languages

- code = 'RO', start date= '2008-01-01'

Transaction 2: Insert the following unstable publication sigles

- code type id= 'DE', code= 'CTM'

Transaction 3: Insert the following unstable countries (areas)

- country id= 'XB', area type code= '2' (area)

Transaction 4: Insert the following unstable country groups

- country id= '1003', area type code= '1' (country group)
- country id= '1033', area type= '1' (country group)

Transaction 5: Insert the following unstable duty expressions

- duty expression id= '20', reduction type= 'N'
- duty expression id= '21', reduction type= 'R'

Transaction 6: Insert the following unstable agricultural duty expressions

- duty expression id= '20', reduction type= 'N'
- duty expression id= '21', reduction type= 'R'

Transaction 7: Insert the following unstable footnote types

- code = 'ACI', app code= '5', validity start date= '2007-01-01'
- code = 'ACO', app code= '3', validity start date= '2007-01-01'

Transaction 8: Insert the following unstable footnotes

- Type code = 'ACI', id= '015', start date= '2007-01-01'
- Type code = 'ACI', id= '016', start date= '2007-01-01'
- Type code = 'ACO', id= '020', start date= '2000-01-01'

Transaction 9: Insert the following unstable measurement unit qualifiers

- code = 'F', validity start date= '2007-01-01'

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Transaction 10: Insert the following unstable Meursing tables plans

- id= '10', validity start date= '2008-01-01'

Transaction 11: Insert the following unstable additional code types

- code= 'C', application code= '0', start date= '2008-01-01'

Transaction 12: Insert the following unstable measure type series

- code= 'D', start date= '2008-01-01'

Transaction 13: Insert the following unstable measure types

- id= '030000' start date= '2000-01-01', end date= '2010-01-01' and regulation group id= 'AGR' (2002-01-01to 2008-01-01)

Transaction 14: Insert the following unstable certificate types

- certificate type code= 'SU', start date= '2008-01-01'

Expected output: N/A.

2.7. 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.

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3. DATA MAINTENANCE

3.1. Test direction

For the test cases of this section, a user having the necessary profile to capture reference data submits the messages to the system-to-system interface.

3.2. Data domains

The test cases of the various TARIC data domains are described in different sub-documents. The following table defines in which sub-documents the various data domains test cases are presented.

Documents	Data domains
TARIC3-STP-P1 - System Test Plan - Part 1.doc	Country; Country group; Duty expression; Additional code type; Additional code; Agricultural duty expression; Agricultural measure validation rule.
TARIC3-STP-P2 - System Test Plan - Part 2.doc	Regulation role type; Regulation group; Export refund nomenclature; Monetary unit; Certificate type; Footnote type.
TARIC3-STP-P3 - System Test Plan - Part 3.doc	Footnote; Language; Dynamic footnote association rule; Measurement unit; Measurement unit qualifier; Publication sigle.
TARIC3-STP-P4 - System Test Plan - Part 4.doc	Nomenclature group; Legal regulation; Base regulation; Modification regulation;

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	Prorogation regulation.
TARIC3-STP-P5 - System Test Plan - Part 5.doc	Full temporary stop regulation; Explicit abrogation regulation; Complete abrogation regulation.
TARIC3-STP-P6 - System Test Plan - Part 6.doc	Goods nomenclature; Certificate; Measure action code; Measure condition code; Measure type series.
TARIC3-STP-P7 - System Test Plan - Part 7.doc	Measure type; Meursing table plan.
TARIC3-STP-P8 - System Test Plan - Part 8.doc	Measure (Part 1).
TARIC3-STP-P9 - System Test Plan - Part 9.doc	Measure (Part 2).
TARIC3-STP-P10 - System Test Plan - Part 10.doc	Measure agricultural duty expression; Meursing additional code; Monetary exchange; Security; Transmission comment ; Query Regulations ; Prorogation Regulation Replacement.