



DG Sante
Unit G3 "Official Controls"

Reference Data WebService V1

Trade Control and Expert System (TRACES) NT

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Revision	Date	Created by	Short Description of Changes
1.0	20/11/2019	AMELIO Francesco	Document Creation
1.1	29/01/2021	AMELIO Francesco	Added methods getLaboratoryCategories and getLaboratoryTests
1.2	03/06/2021	AMELIO Francesco	Added methods getClassificationSection and getMetadatas
1.3	31/03/2022	AMELIO Francesco	Added new method getClassificationTreeUpdates (available from version 6.4.0)

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TABLE OF CONTENTS

1 INTRODUCTION.....	5
1.1 Purpose and scope of this document	5
Definitions used in this document	5
2 AUTHENTICATION	5
3 SERVICE DESCRIPTION	5
3.1 Endpoints.....	6
3.2 WebService methods.....	6
3.2.1 Get list of available classification trees.....	6
3.2.2 Get a specific classification tree.....	6
3.2.3 Get details of a specific classification tree node.....	6
3.2.4 Get certificate model	6
3.2.5 Get laboratory categories	7
3.2.6 Get laboratory tests	7
3.2.7 Get classification sections.....	7
3.2.8 Get metadatas	7
4 ERRORS	7
5 APPENDIX: REFERENCES AND RELATED DOCUMENTS	9

1 INTRODUCTION

1.1 Purpose and scope of this document

This document is intended to provide some details for the TNT reference data service to connect via Web Services to the TRACES NT system as well as information on Acceptance and Production environments.

Note:	Please refer to the " TNT-WebServices-authentication " on how to configure the WebService authentication.
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Definitions used in this document

- **TRACES NT** is the EU information system used to manage veterinary certificates to and from the EU.
- **A Classification Tree** is a set of business rules used by TRACES-NT system to validate a particular certificate (i.e. a CHED document or an EU-Import certificate)

2 AUTHENTICATION

As indicated in the document "**TNT-WebServices-Authentication**" the SOAP message should include WS-Security elements and additional other elements in the header part in order for the client to correctly authenticate with TRACES NT Web Services.

This is a sample header:

```
<soapenv:Envelope>
  <soapenv:Header>

    <wsse:Security
      xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-
wssecurity-secext-1.0.xsd"
      xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-
utility-1.0.xsd">
      <wsse:UsernameToken wsu:Id="A3380A376973ABE6A6150840400087524">
        <wsse:Username>username</wsse:Username>
        <wsse:Password
Type="wsse:PasswordDigest">nuQbmp5F6bWH5AlQRLRRxWonQ=</wsse:Password>
        <wsse:Nonce>aaa3aSJqORu6x62BdNNczw==</wsse:Nonce>
        <wsu:Created>2017-10-19T08:44:51Z</wsu:Created>
      </wsse:UsernameToken>

      <wsu:Timestamp wsu:Id="TS-A3380A376973ABE6A6150840400087423">
        <wsu:Created>2017-10-19T09:10:40.874Z</wsu:Created>
        <wsu:Expires>2017-10-19T09:12:40.874Z</wsu:Expires>
      </wsu:Timestamp>
    </wsse:Security>

    <v3:LanguageCode>en</v3:LanguageCode>
    <v3:WebServiceClientId>clientId</v3:WebServiceClientId>

  </soap:Header>
  <soap:Body>
    ...
  </soap:Body>
</soap:Envelope>
```

3 SERVICE DESCRIPTION

This Web Service will be used by competent authorities or responsible for load to retrieve a list of business rules (described are a list of attributes). The business rules could allow automation of pre-validation of a specific document submission before sending it to the TRACES-NT system.

The list of business rules includes amongst many others, the list of Species/EPPO codes allowed for a specific commodity, the list of origin countries allowed and the list of commodity descriptors that are mandatory for a specific commodity.

The service allows also downloading an official certificate model, used mainly in EU-Import certificates.

3.1 Endpoints

Below the endpoints for the CHED Web service available in TRACES NT:

Environment	Endpoint
Acceptance	https://webgate.acceptance.ec.europa.eu/tracesnt/ws/ReferenceDataServiceV1?wsdl
Production	https://webgate.ec.europa.eu/tracesnt/ws/ReferenceDataServiceV1?wsdl

3.2 WebService methods

The following web methods are available to download the reference data from the TRACES-NT system.

3.2.1 Get list of available classification trees

Method name: **getClassificationTrees**

Description: Retrieves the list of available classification tree types (i.e. CHED-A, CHED-P, EU-Import etc)

Input: none

Output: A list of tree ids

Faults: *PermissionDeniedException*

3.2.2 Get a specific classification tree

Method name: **getClassificationTree**

Description: Retrieves the tree consisting of nested nodes.

Input: The classification tree id

Output: A tree of nested nodes representing the structure of the classification tree. Each node has a path, which uniquely identifies it in the tree.

Faults: *PermissionDeniedException*

3.2.3 Get a specific classification tree by last update date-time

Method name: **getClassificationTreeUpdates**

Description: Retrieves the tree consisting of nested nodes. Only the nodes that have been updated/inserted in the specified date-time range will be returned.

Input: The classification tree id and a date-time range

Output: A tree of nested nodes representing the structure of the classification tree. Each node has a path, which uniquely identifies it in the tree.

Faults: *PermissionDeniedException, IllegalParametersExceptionMessage*

3.2.4 Get details of a specific classification tree node

Method name: **getClassificationTreeNodeDetail**

Description: Retrieves a specific node of the classification tree.

Input: The tree id and a node path or a CN Code

Output: A node details element containing a list of attributes

Faults: *NodeNotFoundException, PermissionDeniedException*

3.2.5 Get certificate model

Method name: **getCertificateModel**

Description: Retrieves information about a specific Certificate Model

Input: The model ID or the model title (translated into a preferred language)

Output: A certificate model element, containing the HTML version of the model form and a structured list of Inputs contained in the model.

Faults: *ModelNotFoundException*, *PermissionDeniedException*

3.2.6 Get laboratory categories

Method name: **getLaboratoryCategories**

Description: Retrieves the list of available laboratory test categories

Input: Optional parent category code

Output: A list of laboratory test categories.

Faults: *LaboratoryTestCategoryNotFoundException*, *PermissionDeniedException*

3.2.7 Get laboratory tests

Method name: **getLaboratoryTests**

Description: Retrieves the list of available laboratory tests.

Input: Optional laboratory category code

Output: A list of laboratory tests, including internal ID, description, category code and list of test methods

Faults: *LaboratoryTestCategoryNotFoundException*, *PermissionDeniedException*

3.2.8 Get classification sections

Method name: **getClassificationSections**

Description: Retrieves the list of available classification sections.

Input: None

Output: A list of classification sections, including the list of operator activity types linked to the sections, the country group scope, a flag that indicates if the section is LMS and other details.

Faults: *PermissionDeniedException*

3.2.9 Get metadatas

Method name: **getMetadatas**

Description: Retrieves the list of metadata (i.e. Operator activity types)

Input: the type of metadata among the followings:

- OPERATOR_ACTIVITY_TYPE
- PACKAGE_TYPE
- PRODUCT_TYPE
- ACCOMPANYING_DOCUMENT_TYPE
- TREATMENT_TYPE
- ANIMAL_GENDER
- ANIMAL_SUB_CATEGORY
- BREED_CATEGORY
- IDENTIFICATION_SYSTEM_FOR_ANIMALS

Output: A list of metadata, each consisting of code and description translated.

Faults: *PermissionDeniedException*, *InvalidMetadataTypeException*

4 ERRORS

In case of error, the system will **always return one of the following SOAP Fault**.

- *PermissionDeniedException*
Fault returned in case the user does not have the sufficient permissions to retrieve the data.

- *IllegalParametersExceptionMessage*
Fault returned when any parameter specified in the request is not valid
- *NodeNotFoundException*
Fault returned in case the classification tree node does not exist.
- *ModelNotFoundException*
Fault returned in case the certificate model does not exist.

5 APPENDIX: REFERENCES AND RELATED DOCUMENTS

ID	Reference or Related Document	Source or Link/Location
TNT-WS-AUTH	TNT-WebServices-Authentication	CIRCA-BC
TNT-WS-SOAPUI	TNT-SoapUI-WS-Security-Configuration	CIRCA-BC