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Taxation Systems & Digital Governance

SOA Service Specification Document

VatRetrievalService - TEDB

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1 INTRODUCTION

1.1 DOCUMENT PURPOSE

The present document describes the `VatRetrievalService` service. This specific service is responsible for allowing 3rd party application to retrieve the Value Added Tax (VAT) rates from Tax in Europe DataBase (TEDB).

1.2 SERVICE INTERFACE SPECIFICATION

1.2.1 Operation `RetrieveVatRates`

| Operation attributes | Values |
|-----------------------|--|
| Name | <code>urn:ec.europa.eu:taxud:tedb:services:v1:VatRetrievalService/RetrieveVatRates</code> |
| Description | The action <code>RetrieveVatRates</code> allows to retrieve the VAT rates corresponding to some criterion. |
| Pre-conditions | The request must be well formed. |
| Inputs | <code>retrieveVatRatesReqMsg</code> ¹ <ul style="list-style-type: none">• <code>memberStates</code>:<ul style="list-style-type: none">○ <code>isoCode</code> (Max 1000): the Member State (MS) ISO Code (e.g. AT, BE, FR).• <code>situationOn</code>: the date on which the VAT rates must be applicable (e.g. 2020-12-31) - deprecated²;• <code>from</code>: the beginning of the date range on which the VAT rates must be applicable (e.g. 2020-12-31);• <code>to</code>: the end of the date range on which the VAT rates must be applicable (e.g. 2020-12-31);• <code>categories</code> (Optional):<ul style="list-style-type: none">○ <code>identifier</code> (Max 1000): the category's identifier of the VAT rates (See section 2.2 for the list of categories).• <code>cnCodes</code> (Optional):<ul style="list-style-type: none">○ <code>Value</code> (Max 1000): the CN Code of the VAT rates.• <code>cpaCodes</code> (Optional):<ul style="list-style-type: none">○ <code>Value</code> (Max 1000): the CPA Code of the VAT rates. |
| Outputs | <code>retrieveVatRatesRespMsg</code> <ul style="list-style-type: none">• <code>additionalInformation</code>: |

¹ The service will output the VAT rates for the given MS applicable at the given date restricted to any product matching at least one of the mentioned categories, CN codes and CPA Codes, if any. This means that as soon as a CN code and a CPA Code are mentioned, all rates applicable on the CN or CPA code in the requested location and date are returned.

² The `situationOn` is deprecated. It is kept for retro-compatibility purpose. As soon as the `from/to` are used, `situationOn` must not be used anymore.

| | |
|------------------------|---|
| | <ul style="list-style-type: none"> ○ countries: <ul style="list-style-type: none"> ▪ country (Multiple): <ul style="list-style-type: none"> ● isoCode: the MS ISO Code (e.g. AT, BE, FR); ● cnCodeProvided: indicate if the MS has provided CN codes; ● cpaCodeProvided: indicate if the MS has provided CPA codes. ● vatRateResults (Multiple): <ul style="list-style-type: none"> ○ memberState: the MS ISO Code (e.g. AT, BE, FR); ○ type: the type of the rate (STANDARD or REDUCED) ○ rate: <ul style="list-style-type: none"> ▪ type: the type of rate³; ▪ value (Optional): the value of the rate⁴. ○ situationOn: the date on which the rate start to be applicable; ○ cnCodes (Optional): <ul style="list-style-type: none"> ▪ Value (Multiple): the CN Code of the VAT rates. ○ cpaCodes (Optional): <ul style="list-style-type: none"> ● Value (Multiple): the CPA Code of the VAT rates. ○ category (Optional): <ul style="list-style-type: none"> ▪ identifier: the category's identifier of the VAT rates (See section 2.2 for the list of categories); ▪ description: the category's description of the VAT rates. ○ comment (Optional): the comment about the VAT rates. |
| Exceptions | <p>In case of an error, a SOAP Fault is retrieved. The faultString, contains the textual explanation of the error. In case of business validation error, an error code and a description are available in the detail tag of the fault message.</p> <p>Fault</p> <ul style="list-style-type: none"> ● faultCode: the code used to indicate a class of errors⁵; ● faultString: the text message explaining the error; ● detail (Optional): <ul style="list-style-type: none"> ○ retrieveVatRatesFaultMsg <ul style="list-style-type: none"> ▪ error (Multiple) <ul style="list-style-type: none"> ● code: the application error code (See section 2.1 for the list of errors); ● description: the application error description. |
| Post-conditions | N/A |
| Notes | N/A |

Table 1: Specification of getChanges

³ In case of standard rate, the type in the tag rate will be DEFAULT. Otherwise, if it is a reduced rate, the type in the tag rate can be REDUCED_RATE, SUPER_REDUCED_RATE, PARKING_RATE, NOT_APPLICABLE, OUT_OF_SCOPE or EXEMPTED.

⁴ The value of the rate is only available in case of a standard rate or a reduced rate, super reduced-rate or parking rate.

⁵ The faultCode is the standard SOAP error code (e.g. SOAP-ENV:Client)

2 ANNEX

2.1 ERROR CODES

| Error code | Description |
|------------|---|
| 00000 | An unexpected error occurs. |
| 00001 | The request does not comply with the XSD. |
| 00002 | The Member State ISO Code does not exist. |
| 00003 | The category does not exist. |
| 00004 | The CN Code does not exist. |
| 00005 | The CPA Code does not exist. |

Table 2: List of error codes

2.2 RATE CATEGORIES

| Identifier | Description |
|---------------------------|--|
| 100_YEARS_OLD | Goods, other than works of art or collector's items, which are more than 100 years old (CN code 9706 00 00) |
| ACCESSIBILITY_SERVICES | Services pursuant to contracts for works directly aimed at overcoming or removing architectural barriers |
| ACCOMMODATION | Accommodation provided in hotels and similar establishments, including the provision of holiday accommodation and the letting of places on camping or caravan sites |
| ADMISSION_SPORTING_EVENTS | Admission to sporting events |
| AGRICULTURAL_EQUIPMENT | Certain agricultural tools and equipment |
| AGRICULTURAL_INPUT | Agricultural input |
| AGRICULTURAL_PRODUCTION | Supply of goods and services of a kind normally intended for use in agricultural production but excluding capital goods such as machinery or buildings and, until 1 January 2032, supply of chemical pesticides and chemical fertilisers |
| ANTIQUES | Supply of works of art, collectors' items and antiques listed in Annex IX, Parts A, B and C |
| BICYCLES_ELECTRIC | Bicycles, including electric bicycles |

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| BICYCLES_RENTAL | Rental and repair of bicycles |
| BICYCLES_REPAIR | Minor repairs of bicycles |
| BICYCLES_SUPPLY | Supply of bicycles, including electric bicycles; rental and repairing services of such bicycles |
| BIOGAS | Biogas produced by the feedstock |
| BODY_CARE_SERVICES | Certain services consisting of the care of the human body |
| BOOKS | Books |
| BROADCASTING_SERVICES | Reception of radio and television broadcasting services and webcasting of such programmes provided by a media service provider; internet access services provided as part of digitalisation policy, defined by Member States |
| CANTEEN_FOOD_SUPPLY | Supply of food and drink in company and inter-company staff canteens, canteens of schools and food pantries |
| CARE_SERVICES_DEPENDENT | Telecare services, home help, day and night centre and residential care, for people in situations of dependency |
| CERAMICS | Individual pieces of ceramics executed entirely by the artist and signed by him |
| CERTAIN_AGRICULTURAL_INPUT | Certain agricultural inputs |
| CERTAIN_BROADCASTING_SERVICES | Reception of certain radio and television broadcasting services |
| CHEMICAL_FERTILISERS | Until 1 January 2032: Chemical fertilisers |
| CHEMICAL_PESTICIDES | Chemical pesticides and fertilisers (until 1 January 2032) |
| CHEMICAL_PESTICIDES_ENVIRONMENT | Until 1 January 2032: Chemical pesticides |
| CHILD_WEAR | Clothing, headgear, scarves, gloves and shoes for children under 14 years of age |
| CHILDREN_CAR_SEATS | Children's car seats |
| CHILDREN_CLOTHING | Children's clothing and footwear |
| CHILDREN_CLOTHING_FOOTWEAR | Children's clothing and footwear; supply of children's car seats |
| CHILDREN_FOOTWEAR | Children's clothing and footwear |

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| CLEANING_PRODUCT | Washing and cleaning preparations |
| CLOTHING_REPAIR | Clothing and household linen |
| COAL_FUEL | Coal and solid fuels made from coal; lignite and compressed lignite except jet; coke and semi-coke of coal, lignite or peat; uncalcined petroleum coke, used as fuel |
| CONCRETE_WORK | Concrete works |
| CONSTRUCTION | Supply and construction |
| CONSTRUCTION_CONTRACT_SERVICES | Services supplied under specific contracts relating to the construction of buildings |
| CONSTRUCTION_GOOD | Goods, excluding raw and semi-manufactured materials, supplied for the construction of certain buildings |
| COOPERATIVE_HOUSING_ALLOCATION | Allocations of certain residential property made by housing cooperatives and their consortia to their members |
| CREDIT_MANAGEMENT | Management of credits and credit guarantees by a person or body other than those who granted the credits |
| CULTURAL_EVENTS | Admission to shows, theatres, circuses, fairs, amusement parks, concerts, museums, zoos, cinemas, exhibitions and similar cultural events and facilities or access to the live-streaming of those events or visits or both |
| DOMESTIC_CARE | Domestic care services such as home help and care of the young, elderly, sick or disabled |
| DRIVING_INSTRUCTION | Instruction in the driving of mechanically propelled road vehicles |
| DWELLING_RENTAL | Assignment of a dwelling for use as a principal residence by a person other than the owner of the dwelling undergoing certain renovation works |
| ENAMELS | Enamels on copper, executed entirely by hand, limited to eight numbered copies bearing the signature of the artist or the studio, excluding articles of jewellery and goldsmith's and silversmith's wares |

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| EVENT_ACCESS | Granting of access to certain events and premises |
| EVENTS_ADMISSION | Admission to events |
| EVENTS_ADMISSION_LIVE | Access to live-streaming of events |
| EXEMPTION_SUPERREDUCED | Exemptions and super-reduced rates (Article 105a(1) of the of the VAT Directive) |
| FARMHOUSE_CONSTRUCTION | Supply and construction of certain rural houses used by farmers |
| FOOD_SERVICE | Restaurant and catering services, excluding services involving alcoholic beverages |
| FOODSTUFFS | Foodstuffs (including beverages but excluding alcoholic beverages) for human and animal consumption; live animals, seeds, plants and ... |
| FOSSIL_FUEL | Until 1 January 2030: Fossil fuels |
| FUEL_MINERAL_OIL | Solid mineral fuels; mineral oils and wood for use as fuel |
| FUNERAL | Services provided by undertakers and cremators |
| GREENHOUSE_GAS | Until 1 January 2030: Other goods with a similar impact on greenhouse gas emissions, such as peat |
| GREYHOUND_INSEMINATION_SERVICES | Supply of insemination services for greyhounds |
| HAIRDRESSING | Hairdressing |
| HEAT_COOLING_STEAM | Heat, cooling and steam, except heat supplied by means of certain heating networks |
| HIRING_SHORT_PERIOD | Hiring for short period |
| HOLIDAY_ACCOMMODATION | Transient accommodation of persons and the letting of holiday camps or camping sites |
| HOUSEHOLD | Household appliances |
| HOUSING | Immovable goods for residential purposes |
| HOUSING_PROVISION | Supply and construction, of housing, as part of a social policy, as defined by the Member States; renovation and alteration, including demolition and reconstruction, and repairing of |

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| | housing and private dwellings; letting of immovable property for residential use |
| IMPRESSIONS | Original engravings, prints and lithographs, being impressions produced in the limited numbers directly in black and white... |
| INTERNET_ACCESS | Internet access |
| JOCKEY_SERVICES | Services supplied by jockeys |
| LEGAL_SERVICES | Legal services supplied to people under a work contract and unemployed people in labour court proceedings, and legal services supplied under the legal aid scheme, as defined by Member States |
| LETTING | Letting |
| LIVE_EQUINES | Live equines and the supply services related to live equines |
| LIVE_GREYHOUNDS | Supply of live greyhounds |
| LIVE_STREAMING_SPORTING_EVENTS | Access to live-streaming of sporting events |
| LOAN_LIBRARIES | Supply, including on loan by libraries, of books, newspapers and periodicals either on physical means of support or supplied electronically, or both, (including brochures, leaflets and similar printed matter, children's picture, drawing or colouring books, music printed or in manuscript form, maps and hydrographic or similar charts), other than publications wholly or predominantly devoted to advertising and other than publications wholly or predominantly consisting of video content or audible music; production of publications of non-profit-making organisations and services related to such production |
| LOW_EMISSION_HEATING | Highly efficient low emissions heating systems |
| MARINE_SAFETY_SERVICES | Lightships, lighthouses, lifeboat services, navigational aids |
| MEDICAL_CARE | Provision of medical and dental care and thermal treatment in so far as those services are not exempt pursuant to points (b) to (e) of Article 132(1) |

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| MEDICAL_EQUIPMENT | Medical equipment, appliances, devices, items, aids and protective gear, including health protection masks, normally intended for use in health care or for the use of the disabled, goods essential to compensate and overcome disability, as well as the adaptation, repair, rental and leasing of such goods |
| MOBILE_HOME | Caravan or mobile home for use as residence |
| NAVIGATIONAL_AID_SERVICES | Supply of services in connection with the operation of lightships, lighthouses or other navigational aids and life-saving services including the organisation and maintenance of the lifeboat service |
| NEW_PARKING_RATE | Parking rates (Article 105a(3) of the of the VAT Directive) |
| NEWSPAPERS | Newspapers |
| NON_HOUSING | Immovable goods for non-residential purposes |
| NON_LUXURY_DWELLING_SUPPLY | Supply and construction of certain non-luxury private dwellings |
| NON_LUXURY_HOUSING | Supply and construction of non-luxury housing |
| NON_OWNED_RESIDENCY_RENOVATION | Certain renovation work carried out for the benefit of a dwelling used as a principal residence by a person other than the owner of the dwelling |
| NON_SOCIAL_HOUSING | Housing not being part of social policy |
| ORGANIC_AGRICULTURE_SUPPLY | Supplies of certain fertilisers and organisms considered useful for organic pest management in agriculture |
| PARKING | Temporary Parking Rates (Articles 118 and 119 of the VAT Directive) |
| PERIODICALS | Periodicals |
| PERIODICALS_PRODUCTION | Production of periodicals |
| PETROLEUM_FUEL | Coloured and marked petroleum and gas oil and fuel oil and its mixtures |
| PHARMACEUTICAL_PRODUCTS | Pharmaceutical products used for medical and veterinary purposes, |

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| | including products used for contraception and female sanitary protection, and absorbent hygiene products |
| PHOTOGRAPHIC_SUPPLY | Photographic and related supplies |
| PHOTOGRAPHS | Photographs taken by the artist, printed by him or under his supervision, signed and numbered and limited to 30 copies, all sizes and mounts included |
| PICTURES | Pictures, collages and similar decorative plaques, paintings, and drawings, executed entirely by hand by the artist... |
| PLANT | Live plants and other floricultural products, including bulbs, cotton, roots and the like, cut flowers and ornamental foliage |
| POSTAGE | Postage or revenue stamps, postmarks, first-day covers, pre-stamped stationery and the like, used, or if unused not current and not intended to be current (CN code 9704 00 00) |
| PRINTED_ADVERTISING_MATERIAL | Printed advertising material, trade catalogues and the like; tourist propaganda publications |
| PRIVATE_DWELLINGS | The renovation and repairing of public and other buildings used for activities in the public interest |
| PROTECTED_HOUSING_SUPPLY | Supply of housing classified administratively as officially protected; Leasing of buildings or parts thereof intended exclusively for dwellings classified administratively as officially protected |
| PUBLIC_BROADCASTING | Contribution to public broadcasting |
| RADIO_BROADCASTING_SUBSCRIPTION | Subscription to certain radio broadcasting services |
| RADIO_TV_BROADCASTING | Radio and television broadcasting/webcasting |
| REGION | Special reduced rate for specific regions (including Article 104 of the VAT Directive) |
| RENOVATED_BUILDING_SALE | Supply of renovated buildings sold by the undertakings that carried out the renovation work |
| RENOVATION | Renovation, alteration and repair |

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| RENOVATION_WORK | Certain renovation works |
| REPAIR_SERVICES | Certain repair and related services. |
| REPAIRING_SERVICES | Supply of repairing services of household appliances, shoes and leather goods, clothing and household linen (including mending and alteration) |
| RESCUE_EQUIPMENT | Tools and other equipment of a kind normally intended for use in rescue or first aid services when supplied to public bodies or non-profit-making organisations active in civil or community protection |
| RESIDENTIAL_RENOVATION | Certain creation and renovation work carried out for the benefit of a dwelling used as a principal residence by the owner of the dwelling |
| RESTAURANT | Restaurant and catering services, it being possible to exclude the supply of (alcoholic and/or non-alcoholic) beverages |
| ROYALTIES | Services provided by writers, composers and performers and the royalties due to them |
| SCULPTURE_CASTS | Sculpture casts the production of which is limited to eight copies and supervised by the artist or his successors in title... |
| SCULPTURES | Original sculptures and statuary, in any material, provided that they are executed entirely by the artists |
| SECURITY_MANAGEMENT | Custody and management of securities |
| SHOES_REPAIR | Shoes and leather goods |
| SOCIAL_WELLBEING | Supply of goods and services by organisations engaged in welfare or social security work as defined by Member States and recognised as being devoted to social wellbeing by Member States, in so far as those transactions are not exempt pursuant to Articles 132, 135 and 136 |
| SOLAR_PANELS | Supply and installation of solar panels on and adjacent to private dwellings, housing and public and other buildings used for activities in the public interest |
| SPECIFIC_ENERGY | Specific energy products |

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| SPORTING_EVENTS | Admission to sporting events or access to the live-streaming of those events or both; use of sporting facilities, and the supply of sport or physical exercise classes also when live-streamed |
| SPORTING_FACILITIES | Use of sporting facilities |
| SPORTING_FACILITY_ACCESS | Granting the right of access to and use of sports facilities |
| STREET_CLEANING | Supply of services provided in connection with sewage, street cleaning, refuse collection and waste treatment or waste recycling, other than the supply of such services by bodies referred to in Article 13 |
| SUPER_TEMPORARY | Temporary Super-reduced Rates (Articles 110 and 114 of the VAT Directive) |
| SUPPLY_ELECTRICITY | Electricity |
| SUPPLY_GAS | Natural gas (until 1 January 2030) |
| SUPPLY_HEATING | District heating and district cooling |
| SUPPLY_WATER | Supply of water |
| SUSTAINABLE_ENERGY | Supply of electricity, district heating and district cooling, and biogas produced by the feedstock listed in Annex IX, Part A, to Directive (EU) 2018/2001 of the European Parliament and of the Council; supply and installation of highly efficient low emissions heating systems meeting the emission (PM) benchmarks laid down in Annex V to Commission Regulation (EU) 2015/1189 and in Annex V to Commission Regulation (EU) 2015/1185 and having been attributed an EU energy label to show that the criterion referred to in Article 7(2) of Regulation (EU) 2017/1369 of the European Parliament and of the Council is met; and, until 1 January 2030, natural gas and wood used as firewood |
| TAPESTRIES | Tapestries (CN code 5805 00 00) and wall textiles (CN code 6304 00 00) made by hand from original designs provided by artists... |

| | |
|--------------------------|--|
| TEMPORARY | Special temporary reduced rates (Articles 104a, 105, 112, 113, 115, 117, 122 of the VAT Directive) |
| TEMPORARY_EXEMPTION_RATE | Temporary Exemptions, super-reduced or reduced rates (Article 105a(2) of the of the VAT Directive) |
| THEATRE_PERFORMANCES | 140 first theatre and circus performances |
| TOUR_GUIDE_SERVICES | Services supplied by tour guides |
| TRANSPORT_PASSENGERS | Transport of passengers and the transport of goods accompanying them, such as luggage, bicycles, including electric bicycles, motor or other vehicles, or the supply of services relating to the transport of passengers |
| UNDERTAKERS_SERVICES | Supply of services by undertakers and cremation services, and the supply of goods related thereto |
| VETERINARY_SERVICES | Services supplied by veterinary surgeons |
| WASTE_TREATMENT | Sewage disposal and treatment and emptying of septic tanks and industrial tanks |
| WASTE_TREATMENT_REFUSAL | Refuse collection and waste treatment |
| WINDOW_CLEANING | Window cleaning and cleaning in private households |
| WINE | Wine from fresh grapes |
| WINE_FRESH_GRAPE | Wine of fresh grapes containing 13° or less of alcohol, with the exception of fortified wines, sparkling wines and liqueur wines |
| WINE_TABLE | Common table wines |
| WOOD | Until 1 January 2030: Wood used as firewood |
| WOOD_ARTICLE98 | Wood used as firewood (until 1 January 2030) |
| WRITERS_ROYALTIES | Royalties to writers, etc. |
| WRITERS_SERVICES | Supply of services by writers, composers and performing artists, or of the royalties due to them |
| WRITERS_SERVICES_NEW | Services of writers, etc. |
| ZERO_RATE | Zero Rate: Article 37 of the VAT Directive |

| | |
|-------------------|--|
| ZERO_REDUCED_RATE | Zero and Reduced Rates: Articles 109-122 (Title VIII, Chapter 4) of the VAT directive |
| ZOOLOGICAL | Collections and collector's pieces of zoological, botanical, mineralogical, ethnographic or numismatic interest (CN code 9705 00 00) |

Table 3: List of rate categories

2.3 EXAMPLE OF REQUEST/RESPONSE

Request:

```
<soapenv:Envelope
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"

xmlns:urn="urn:ec.europa.eu:taxud:tedb:services:v1:IVatRetrievalService"

xmlns:urn1="urn:ec.europa.eu:taxud:tedb:services:v1:IVatRetrievalService:types">
  <soapenv:Header/>
  <soapenv:Body>
    <urn:retrieveVatRatesReqMsg>
      <urn1:memberStates>
        <!--1 or more repetitions:-->
        <urn1:isoCode>AT</urn1:isoCode>
      </urn1:memberStates>
      <urn1:situationOn>2016-01-01</urn1:situationOn>
      <!--Optional:-->
      <urn1:categories>
        <!--1 or more repetitions:-->
        <urn1:identifier>100_YEARS_OLD</urn1:identifier>
      </urn1:categories>
      <!--Optional:-->
      <urn1:cnCodes>
        <!--1 or more repetitions:-->
        <urn1:value>1201</urn1:value>
      </urn1:cnCodes>
      <!--Optional:-->
      <urn1:cpaCodes>
        <!--1 or more repetitions:-->
        <urn1:value>93.12.10</urn1:value>
      </urn1:cpaCodes>
    </urn:retrieveVatRatesReqMsg>
  </soapenv:Body>
</soapenv:Envelope>
```

Response⁶:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
```

⁶ This response is an example and may differ on the production environment.


```

<env:Header/>
<env:Body>
  <ns0:retrieveVatRatesRespMsg
xmlns="urn:ec.europa.eu:taxud:tedb:services:v1:IVatRetrievalService:
types"

  xmlns:ns0="urn:ec.europa.eu:taxud:tedb:services:v1:IVatRetrievalService">
    <additionalInformation>
      <countries>
        <country>
          <isoCode>AT</isoCode>
          <cnCodeProvided>>false</cnCodeProvided>
          <cpaCodeProvided>>true</cpaCodeProvided>
        </country>
      </countries>
    </additionalInformation>
    <vatRateResults>
      <memberState>AT</memberState>
      <type>REDUCED</type>
      <situationOn>2016-01-01</situationOn>
      <rate>
        <type>REDUCED_RATE</type>
        <value>19.0</value>
      </rate>
      <category>
        <identifier>REGION</identifier>
        <description>Special reduced rate for specific
regions (including articles 104, 105 and 120 of the VAT
Directive)</description>
      </category>
      <comment>Jungholz, Mittelberg</comment>
    </vatRateResults>
    <vatRateResults>
      <memberState>AT</memberState>
      <type>STANDARD</type>
      <situationOn>2016-01-01</situationOn>
      <rate>
        <type>DEFAULT</type>
        <value>20.0</value>
      </rate>
    </vatRateResults>
  </ns0:retrieveVatRatesRespMsg>
</env:Body>
</env:Envelope>

```

2.4 SAMPLE OF CODE

A sample of code has been written in Java programming language demonstrating how a client application can use the SAOP Web Services. The source code is linked to this document (see [Linked Resources](#) folder). The entire source code is commented in order to let you understand each step.

Most of the code has been generated by jaxws directly from the WSDL (see the Apache Maven POM file). This way all the XSD entity are available in JAVA.

Some classes have been developed to show examples of how to use the web services. Three examples of request are available under the package *eu.europa.ec.taxud.tedb.example.soap.requests*:

- *Full.java*: contains all the code to do a full request on the web service. Meaning by using all the parameter available in the VAT search. The result is displayed directly in the console.
- *Minimum.java*: contains all the code to do the smallest request on the web service. Meaning by using only the mandatory parameters. The result is displayed directly in the console.
- *Error.java*: contains the code of a wrong request. Meaning that at least one error is raised by the webservice when the request is triggered.

All these examples are covering the main use cases of the web service. Please note that the code is a sample and should not be used as is for a production environment.

In order to execute the sample, Java 8 must be used, and the following command must be run:

- `java -jar tedb-ssd-sample-codes-1.0.0-jar-with-dependencies.jar`