



## **Publications Office**

### **TED Website - Notice Viewer WS**

#### **Technical Specifications Document - Appendix D - NoticeViewer WS API**

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## REFERENCE AND APPLICABLE DOCUMENTS

This section contains the lists of all reference an applicable documents. When referring to any of the documents below, the bracketed reference will be used in the text, such as [\[R01\]](#).

REFERENCE DOCUMENTS				
Ref.	Title	Reference	Version	Date
R01	Technical Documentation Document	TED-TSP	1.00	28/04/2010

*Table 1 Reference Documents*

# 1 INTRODUCTION

## 1.1 PURPOSE OF THE DOCUMENT

This document is an appendix of the technical documentation [R01]. Its purpose is to define in details the protocol used to perform the Notice Viewer transformations over the web service.

The objective is to provide and describe:

- The WSDL definition of the web service;
- The standalone notice viewer web-service server;
- The production server web-service server.

## 1.2 TARGET AUDIENCE

The present document is intended to be read by the following people:

- Members of the Infrastructure department of the Publications Office;
- Members of the Publications Office TED team;
- Service consumers.

## 1.3 STRUCTURE OF THE DOCUMENT

The document is organized as follows:

- Chapter 1: Introduction;
- Chapter 2: The Notice Viewer Service.

## 2 THE NOTICE VIEWER SERVICE

### 2.1 OVERVIEW

The Notice Viewer web-service API exposes a conversion service used to transform an input file (XML file) provided in the request to an output file format (PDF, HTML).

The notice viewer server is available in two distinct modes:

1. An “internet” mode: Apache Tomcat/MySQL version deployed on ted.europa.eu;
2. A “standalone” mode: Jetty/HSQL version ready to run on a local infrastructure.

### 2.2 NOTICE VIEWER COMMON

Both solutions share the same code to process the transformation from different XML formats and versions (INTERNAL\_OJS, TED\_EXPORT).

The notice viewer transformations support two output formats, the HTML output format and the PDF format. Two validations are performed by the notice viewer;

- Verification of the compliance with the XML schema;
- UTF-8 validation of the file content.

Technically, the transformations are performed through XSLT for the generation of HTML files. For the generation of PDFs, we use XSL-FO as an intermediate format, and Apache FOP as the composition engine.

### 2.3 NOTICE VIEWER LOCAL SERVER

The standalone notice viewer service is based on a Jetty web application server and HSQL database server (both servers are light and implemented in Java).

The standalone server is packaged has an executable jar used to launch the Jetty server and the HSQL server.

The Jetty server hosts the web service and handles the request/response over the HTTP protocol.

The HSQL server holds the reference data descriptions used by the Transformation service.

### 2.4 NOTICE VIEWER PRODUCTION SERVER

The production infrastructure (<http://ted.europa.eu>) is used to deploy a new web application (TEDWS).

The web-service is available at the following URL <http://ted.europa.eu/TEDWS/noticeviewer/convert>.

## 2.5 NOTICE VIEWER WSDL DESCRIPTION

### 2.5.1 NOTICE VIEWER SOAP REQUEST

The notice viewer request is composed of several parameters listed in the following table:

Parameter	Type	Default value	Description
language	xs:token	original language	ISO code of expected transformation language (e.g. fr)
file	xs:base64	mandatory	base 64 encoding
filename	xs:token	mandatory	request file name (e.g 2010_457365.xml)
extended	xs:boolean	true	set if the HTML result file need to HTML extended or html compacted view (only for HTML format)
cover	xs:boolean	true	set if the result need to include a cover (only for INTERNAL_OJS xml)
fmtvalSum	xs:boolean	false	set if the FMTVAL summary must be generated
format	xs:token	mandatory	expected format (possible value: PDF/HTML)
compression	xs:token	mandatory	compression mode of the request file (possible value: gz/none)

```
<xs:complexType name="NoticeViewerRequestType">
  <xs:sequence>
    <!-- Language parameter of the translation if set to null the
    original language will be used -->
    <xs:element name="language" type="xs:token"/>
    <!-- File is the request file in base 64 coding may or not be
    compress see compression element-->
    <xs:element name="file" type="xs:base64Binary" nillable="false" />
    <!-- File name of the document -->
    <xs:element name="filename" type="xs:token" />
    <!-- Extended or compact version (only available for html format
    conversion) -->
    <xs:element name="extended" type="xs:boolean" default="true" />
    <!-- Cover or non cover will be generated (only available for
    Internal ojs document) -->
    <xs:element name="cover" type="xs:boolean" default="true" />
    <!-- Execute utf8 validation -->
    <xs:element name="utf8validation" type="xs:boolean" default="true" />
    <xs:element name="fmtvalSum" type="xs:boolean" default="false" />
    <!-- Transformation format html/pdf -->
    <xs:element name="format">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="html" />
          <xs:enumeration value="pdf" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <!-- compression of the binary file. Possible value none or gz-->
    <xs:element name="compression">
      <xs:simpleType>
        <xs:restriction base="xs:token">
```

```

        <xs:enumeration value="none" />
        <xs:enumeration value="gz" />
    </xs:restriction>
</xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>

```

## 2.5.2 NOTICE VIEWER SOAP RESPONSE

The notice viewer response is composed of the information described in the following table:

Element	Type	Default value	Description
format	xs:token	mandatory	expected format (possible value: PDF/HTML)
filename	xs:token	mandatory	result file name (e.g. 2010_457896.pdf)
file	xs:base64	mandatory	base 64 encoding
compression	xs:token	mandatory	compression mode of the request file (possible value: gz/none)

```

<!-- Notice Viewer Response -->
<xs:complexType name="NoticeViewerResponseType">
  <xs:sequence>
    <!-- Transformation type html/pdf -->
    <xs:element name="type">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="html" />
          <xs:enumeration value="pdf" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
    <!-- result file name -->
    <xs:element name="filename" type="xs:token" />
    <!-- File is the result file in base 64 coding may or not be
    compressed see compression element-->
    <xs:element name="file" type="xs:base64Binary" />
    <!-- compression of the binary file. Possible value none or gz-->
    <xs:element name="compression">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="none" />
          <xs:enumeration value="gz" />
        </xs:restriction>
      </xs:simpleType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

```

## 2.5.3 NOTICE VIEWER FULL WSDL

```
<?xml version="1.0" encoding="UTF-8"?><wsdl:definitions
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:schema="http://ted.europa.eu/api/ws/noticeviewer/1.0"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
targetNamespace="http://ted.europa.eu/api/ws/noticeviewer/1.0">
  <wsdl:types>
    <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:nv="http://ted.europa.eu/api/ws/noticeviewer/1.0"
elementFormDefault="qualified"
targetNamespace="http://ted.europa.eu/api/ws/noticeviewer/1.0">
      <xs:element name="NoticeViewerRequest"
type="nv:NoticeViewerRequestType"/>
      <xs:element name="NoticeViewerResponse"
type="nv:NoticeViewerResponseType"/>
      <xs:complexType name="NoticeViewerRequestType">
        <xs:sequence>
          <xs:element name="language" type="xs:token"/>
          <xs:element name="file" nillable="false" type="xs:base64Binary"/>

          <xs:element name="filename" type="xs:token"/>
          <xs:element default="true" name="extended" type="xs:boolean"/>
          <xs:element default="true" name="cover" type="xs:boolean"/>
          <xs:element default="true" name="utf8validation" type="xs:boolean"/>
          <xs:element name="fmtvalSum" type="xs:boolean" default="false" />
          <xs:element name="format">
            <xs:simpleType>
              <xs:restriction base="xs:token">
                <xs:enumeration value="html"/>
                <xs:enumeration value="pdf"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
          <xs:element name="compression">
            <xs:simpleType>
              <xs:restriction base="xs:token">
                <xs:enumeration value="none"/>
                <xs:enumeration value="gz"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="NoticeViewerResponseType">
        <xs:sequence>
          <xs:element name="type">
            <xs:simpleType>
              <xs:restriction base="xs:token">
                <xs:enumeration value="html"/>
                <xs:enumeration value="pdf"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:element>
          <xs:element name="filename" type="xs:token"/>
          <xs:element name="file" type="xs:base64Binary"/>
        </xs:sequence>
      </xs:complexType>
    </xs:schema>
  </wsdl:types>
</wsdl:definitions>
```



```
<xs:element name="compression">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="none"/>
      <xs:enumeration value="gz"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:sequence>
</xs:complexType>
</xs:schema>

</wsdl:types>
<wsdl:message name="NoticeViewerResponse">
  <wsdl:part element="schema:NoticeViewerResponse"
name="NoticeViewerResponse">
  </wsdl:part>
</wsdl:message>
<wsdl:message name="NoticeViewerRequest">
  <wsdl:part element="schema:NoticeViewerRequest"
name="NoticeViewerRequest">
  </wsdl:part>
</wsdl:message>

<wsdl:portType name="noticeviewer">
  <wsdl:operation name="NoticeViewer">
    <wsdl:input message="schema:NoticeViewerRequest"
name="NoticeViewerRequest">
    </wsdl:input>
    <wsdl:output message="schema:NoticeViewerResponse"
name="NoticeViewerResponse">
    </wsdl:output>
  </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="noticeviewerBinding" type="schema:noticeviewer">

  <soap:binding style="document"
transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="NoticeViewer">
    <soap:operation soapAction=""/>
    <wsdl:input name="NoticeViewerRequest">
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output name="NoticeViewerResponse">
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
<wsdl:service name="noticeviewerService">
  <wsdl:port binding="schema:noticeviewerBinding"
name="noticeviewerPort">
    <soap:address
location="http://ted.europa.eu/TEDWS/noticeviewer/convert"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```

## 2.6 NOTICE VIEWER SECURITY

The notice viewer security is based on a basic HTTP authentication and must be set according your SOAP client provider.

E.g. HTTP request.

```
GET /noticeviewer/convert HTTP/1.0
Host: localhost
Authorization: Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==
```

## 2.7 NOTICE VIEWER SOAP ENVELOPE EXAMPLES

### 2.7.1 SOAP REQUEST

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header />
  <SOAP-ENV:Body>
    <nv:NoticeViewerRequest xmlns:nv="http://ted.europa.eu/api/ws/noticeviewer/1.0">
      <nv:language>fr</nv:language>
      <nv:file>H4sIAAAAAAAAAAO1aS...</nv:file>
      <nv:filename>ws-in-file.xml</nv:filename>
      <nv:extended>true</nv:extended>
      <nv:cover>true</nv:cover>
      <nv:utf8validation>true</nv:utf8validation>
      <nv:fmtvalSum>true</nv:fmtvalSum >
      <nv:format>pdf</nv:format>
      <nv:compression>gz</nv:compression>
    </nv:NoticeViewerRequest>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

### 2.7.2 SOAP RESPONSE

```
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Header />
  <SOAP-ENV:Body>
    <nv:NoticeViewerResponse xmlns:nv="http://ted.europa.eu/api/ws/noticeviewer/1.0">
      <nv:type>pdf</nv:type>
      <nv:filename>ws-in-file.pdf</nv:filename>
      <nv:file>H4sIAAAAAAAAAAMy7...</nv:file>
      <nv:compression>gz</nv:compression>
    </nv:NoticeViewerResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```