



**GENERAL SECRETARIAT OF INFORMATION SYSTEMS**

## **CUSTOMS WEB SERVICES IMPLEMENTATION**

### **ICISnet**

#### **WEB SERVICES**

**WEB SERVICES FOR THE DOCUMENTS ELECTRONIC SUBMISSION APPLICATION**

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**OPERATIONAL  
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## WEB SERVICES FOR THE ELECTRONIC DOCUMENTS SUBMISSION APPLICATION

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## Introduction

### 1.1. The Purpose

The purpose of this document is to describe the implementation of the Web Services of the ICISnet. This specific presentation is consisted of the following three basic units:

- **The implementation and Security Technologies:** It comprises a concise report of the technologies used for the development of the web services, as well as the implementation of the security mechanism provided by the electronic document submission application so as to ensure the safe transmission of SOAP messages from and to the client software.
- **The Web Services Description:** It comprises all the Web Services which are provided from the electronic document submission application for the exchange of messages from and to the four different subsystems of the application (Import/Export Systems, Import Control System, Excise Movement and Control System and New Computerised Transit System).
- **The Appendix with examples of sent SOAP messages:** In this unit, examples of exchanged SOAP messages are provided.

#### 1.1.1. To whom this manual is referred to

This manual is referred to two categories of users:

- To systems architects, analysts and programmers who would like to incorporate the provided web services in their own applications.
- To advanced users who would like to bypass the web interface of the electronic document submission application and directly submit XML type messages via specially for that purpose, developed applications.

## 2. The Implementation and Security Technologies

### 2.1. In general

The web services are provided by the electronic document submission application as three WSDL type files. These files are available from the following URL:

Test environment:

<https://www2.gsis.gr/wsicisnet/MessageProcessorService?wsdl>

<https://www2.gsis.gr/wsicisnet/MovementRetrievalService?wsdl>

<https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?wsdl>

Production environment:

<https://www1.gsis.gr/wsicisnet/MessageProcessorService?wsdl>

<https://www1.gsis.gr/wsicisnet/MovementRetrievalService?wsdl>

<https://www1.gsis.gr/wsicisnet/DateMovementRetrievalService?wsdl>

### Figure 2-1: The URL of WSDL type files

The provided web services give the opportunity to users to fully exploit the functionality of the electronic document submission application by exchange messages according the SOAP protocol, as it is defined in the W3C recommendation (<http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>).

The specific web services are based on the use of the JAX-WS technology. The use of the autogeneration tools (wsgen) is recommended for the automatic creation of code for these services. Alternatively, the user can use any other technology (e.g. SAAJ <https://saaj.dev.java.net/>) provided the sent SOAP messages meet the XSDs specifications that are described within the services (see the XSDs type definition of each service described at the related wsdl and the related examples of sent SOAP messages in the appendix).

## 2.2. The Security Mechanism

In order to achieve a safe information exchange between a client application and the electronic document submission application in a web service session, the following mechanisms are applied. (Even though the digital signature mechanism is supported, it will not be used for the time being ):

- **The Connection through HTTPS (Secure HTTP)** – The G.S.I.S. 's site administrator has issued and installed security certifications of public key at the servers site. The connection of the client application has to be done using Secure http.  
This way the client can see the electronic signature of the identification authority and be ensured that the certification is valid and no malicious user has done any forgery.
- **The Connection with SOAP Security Extensions (WS-Security).** The intrinsic mechanism of the Weblogic Application Server will be used for the security of the web services which is based to the standard OASIS WS-Security (for more information see <http://www.oasis-open.org/committees/download.php/16790/wss-v1.1-spec-os-SOAPMessageSecurity.pdf> ).

Those extensions are specifications which are covered by the W3C recommendations:

- The XML Encryption which determines how to cipher the contents of an XML element XML-Encryption Syntax and Edit (W3C) <http://www.w3.org/TR/xmlenc-core/>.
- The XML Signature which determines an XML syntax for digital signatures as defined at the 'XML-Signature Syntax and Edit (W3C)' <http://www.w3.org/TR/xmldsig-core/>.

(The digital signature mechanism will not be used for the time being)

## 3. The Web Services for Electronic Document Submission Application

### 3.1. In General

The electronic document submission application provides to the Economic Operators three basic services:

- **The MessageProcessorService:** Web service for sending and receiving XML type messages to the different subsystems of the electronic document submission application (Import/Export, Import Control, Excise Movement & Control and New Computerised Transit Subsystems).
- **The MovementRetrievalService:** Web service for seeking and receiving movement messages based on MRN, LRN or ARC.
- **The DateMovementRetrievalService:** Web service for seeking and receiving movement messages based on time intervals. (date and time).

### 3.2. The Document Submission Service

#### 3.2.1. Description

The MessageProcessorService is responsible for sending XML type messages to the various subsystems of the application of the electronic documents submission. The XML type files included in the SOAP message should be in line with the relevant XSDs that specify the message structure. These specifications can be found at the G.S.I.S. site.

The replies from the Web Service are synchronous (direct answer) either the submission is successful or not. A submission is checked syntactically (syntactic: XML Validation and XSD Conformance) and semantically (semantic: Reference Data, Rules, Conditions and State Machine). The above mentioned controls must be successfully completed in order the submitted message to be considered correct and registered to the system.

The reply to a correct message submission is a SOAP message with the results of the registration of the submitted message. The reply to an erroneous submitted message is a SOAP error message common to all the web services. The specification of the error message is described in the relevant XSD of the web services.

#### 3.2.2. The MessageProcessorService Arguments Definition

The MessageProcessorService accepts as information the ProcessIncomingMessageRequest argument and returns the message processIncomingMessageResponse. In detail:

1. The Process Incoming Message Request Structure.

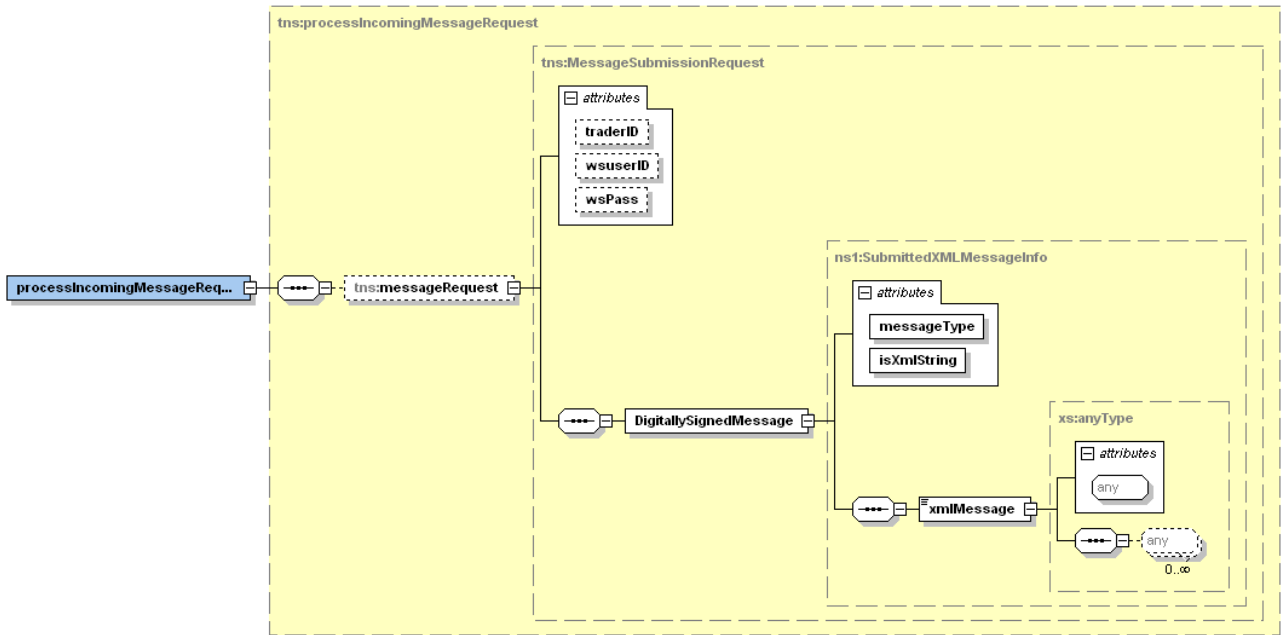


Figure 3-1: The ProcessIncomingMessageRequest Argument

2. The ProcessIncomingMessageResponse Structure

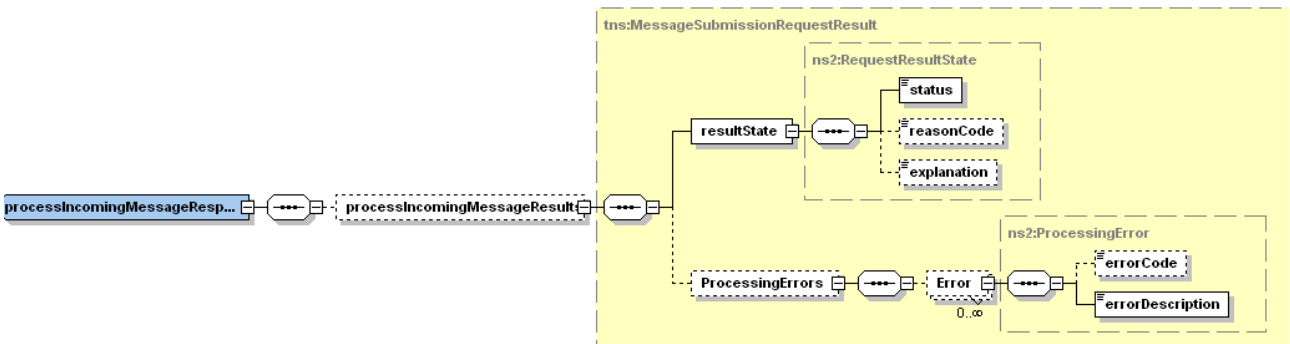


Figure 3-2: The ProcessIncomingMessageResponse Argument



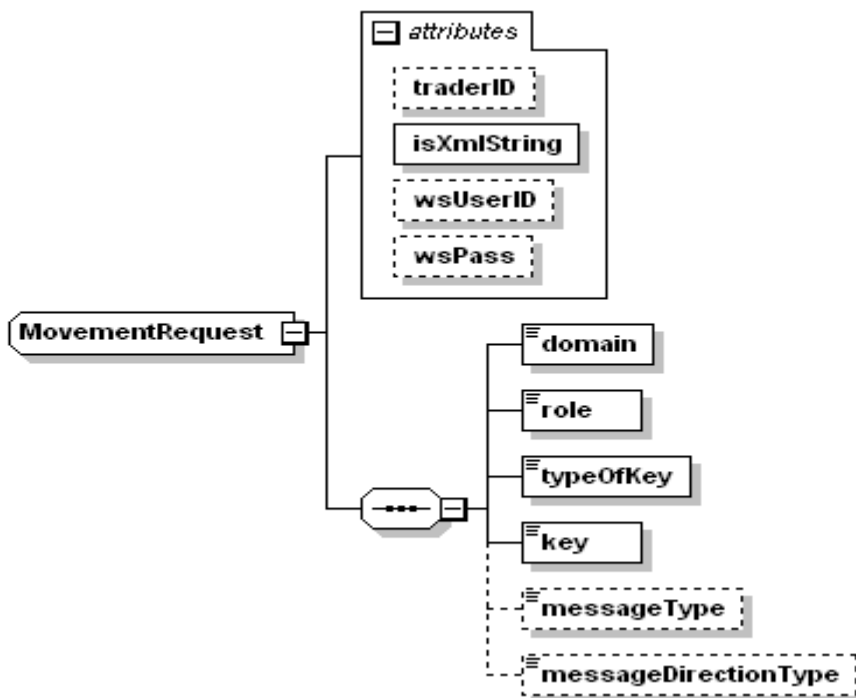
### 3.3. The Documents Retrieval Services

The services of this category allow the document retrieval based on criteria defined within their WSDL.

#### 3.3.1. The MovementRetrievalService

The MovementRetrievalService allows the retrieval of messages related to a given LRN or MRN/ARC. Particularly for retrievals using ARC at the EMCS, the retrieval criterion is ARC or ARC +sequence number. This document retrieval web service is completed with two messages: the RetrieveMovementRequest and the RetrieveMovementResponse.

##### 1. The Structure of the RetrieveMovementRequest Message



#### XML Example:

```

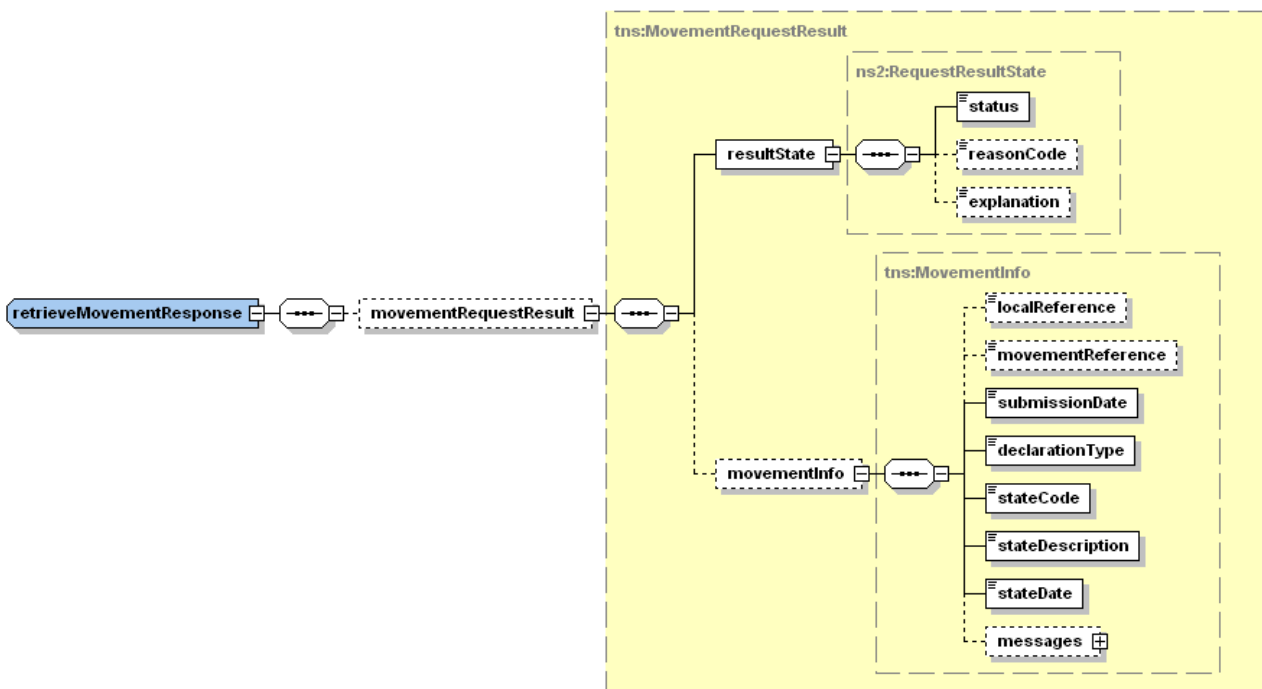
<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XMLSpy v2010 rel. 3 (http://www.altova.com)-->
<tns:retrieveMovementRequest xsi:schemaLocation="http://icis.externaldomain.services.ws
http://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3"
  
```

```

xmlns:tns="http://icis.externaldomain.services.ws" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <tns:movementRequest wsPass="String" traderID="String" wsuserID="String" isXmlString="true">
    <domain>NCTS</domain>
    <role>Dep</role>
    <typeOfKey>LRN</typeOfKey>
    <key>String</key>
  </tns:movementRequest>
</ tns: retrieveMovementRequest >

```

2. The RetrieveMovementResponse Message Structure.



XML Example:

```

<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XMLSpy v2010 rel. 3 (http://www.altova.com)-->
<tns:retrieveMovementResponse xsi:schemaLocation="http://icis.externaldomain.services.ws
https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3" xmlns:tns="http://icis.externaldomain.services.ws"
xmlns:n1="http://www.altova.com/samplexml/other-namespace" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <movementRequestResult>
    <resultState requestId="String">
      <status>IncompleteResults</status>
      <reasonCode>Other</reasonCode>
      <explanation>String</explanation>

```

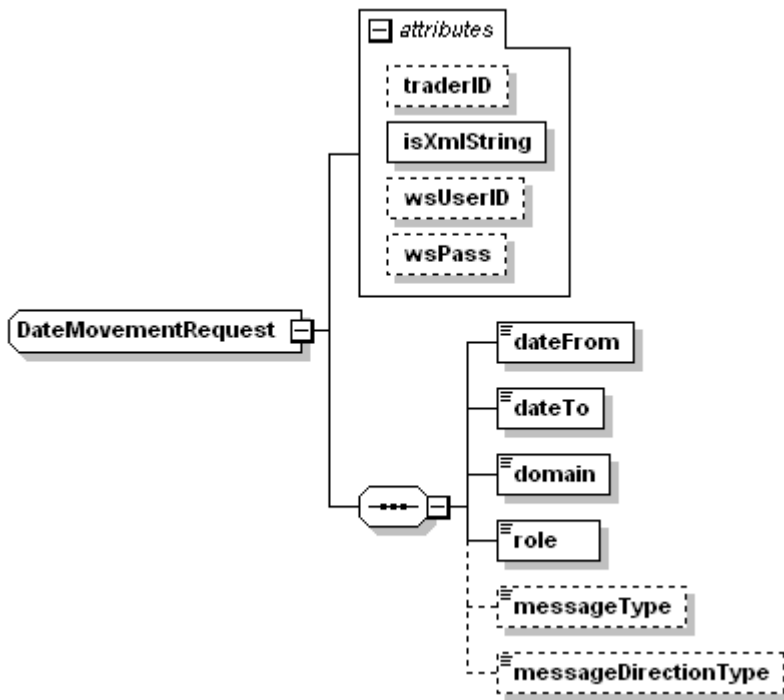
```
</resultState>
<movementInfo>
  <localReference>String</localReference>
  <movementReference>String</movementReference>
  <submissionDate>2001-12-17T09:30:47Z</submissionDate>
  <declarationType>TIR</declarationType>
  <stateCode>String</stateCode>
  <stateDescription>String</stateDescription>
  <modificationDate>2001-12-17T09:30:47Z</modificationDate>
  <messages>
    <messageExchanged>
      <submissionDate>2001-12-17T09:30:47Z</submissionDate>
      <IEMessage messageType="String">
        <xmlData>String</xmlData>
        <n1:auto-generated_for_wildcard/>
      </IEMessage>
    </messageExchanged>
  </messages>
</movementInfo>
</movementRequestResult>
</tns:retrieveMovementResponse>
```

### 3.3.2. The Date Movement Retrieval Service

#### 3.3.2.1 Description

The DateMovementRetrievalService allows the retrieval of messages related to the economic operator based on date and time. The retrieval returns up to **150** movements. In case the movements are more, the first 150 appeared with a message mentioning: "not all messages found". This document retrieval web service is completed with two messages: The DateRetrieveMovement and the DateRetrieveMovementResponse.

1. The DateRetrieveMovement Message Structure.



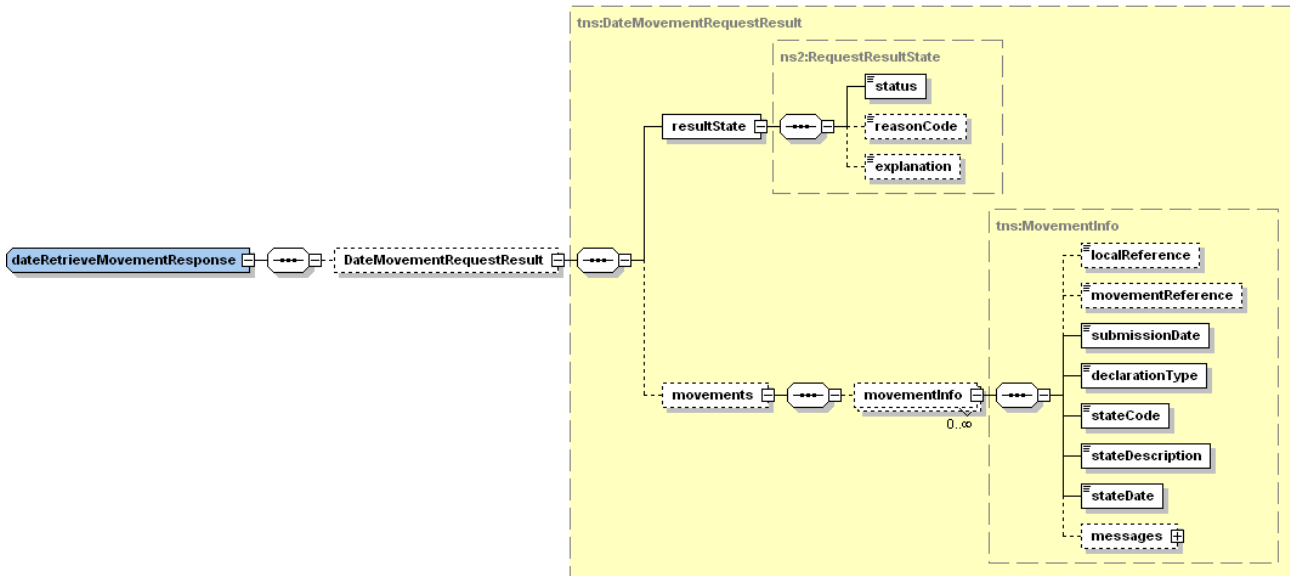
**XML Example:**

```

<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file generated by XMLSpy v2010 rel. 3 (http://www.altova.com)-->
<tns:dateRetrieveMovement xsi:schemaLocation="http://icis.externaldomain.services.ws
https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3" xmlns:tns="http://icis.externaldomain.services.ws"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <tns:dateMovementRequest wsPass="String" traderID="String" wsuserID="String" isXmlAttribute="true">
    <dateFrom>2001-12-17T09:30:47Z</dateFrom>
    <dateTo>2001-12-17T09:30:47Z</dateTo>
    <domain>NCTS</domain>
    <role>AnyRole</role>
  </tns:dateMovementRequest>
</tns:dateRetrieveMovement>
    
```

**Figure 3-3: XML DateRetrieveMovement Example**

2. The DateRetrieveMovementResponse Message Structure



**XML Example:**

```

<?xml version="1.0" encoding="UTF-8"?>
<!-- Sample XML file generated by XMLSpy v2010 rel. 3 (http://www.altova.com) -->
<tns:dateRetrieveMovementResponse xsi:schemaLocation="http://icis.externaldomain.services.ws
https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3" xmlns:tns="http://icis.externaldomain.services.ws"
xmlns:n1="http://www.altova.com/samplexml/other-namespaces" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <DateMovementRequestResult>
    <resultState requestId="String">
      <status>OtherError</status>
      <reasonCode>InvalidMessageContent</reasonCode>
      <explanation>String</explanation>
    </resultState>
    <movements>
      <movementInfo>
        <localReference>String</localReference>
        <movementReference>String</movementReference>
        <submissionDate>2001-12-17T09:30:47Z</submissionDate>
        <declarationType>T2</declarationType>
        <stateCode>String</stateCode>
        <stateDescription>String</stateDescription>
        <modificationDate>2001-12-17T09:30:47Z</modificationDate>
        <messages>
          <messageExchanged>
            <submissionDate>2001-12-17T09:30:47Z</submissionDate>
            <IEMessage messageType="String">
              <xmlData>String</xmlData>
              <n1:auto-generated_for_wildcard/>
            </IEMessage>
          </messageExchanged>
        </messages>
      </movementInfo>
    </movements>
  </DateMovementRequestResult>
</tns:dateRetrieveMovementResponse>
    
```

## 4. Appendices / Reports

### 4.1. Examples of sent SOAP Messages

#### 4.1.1. The Process Incoming Message Request

This example shows the SOAP messages ( four cases) of sending a document at the ICS (Import Control System) - Entry summary declarations domain (**DCL**).

##### 4.1.1.1 String like

```
<?xml version="1.0" encoding="utf-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
S:mustUnderstand="1">
      <wsse:UsernameToken xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" wsu:Id="unt_XSusV97nquD0i9KC">
        <wsse:Username>someuser</wsse:Username>
        <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-1.0#PasswordText">12345678</wsse:Password>
        <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-1.0#Base64Binary">/kXSj7KKhfsDTITd5KNR+9fpX389SAxW/syaNmimfVo=</wsse:Nonce>
        <wsu:Created>2011-04-07T07:29:43Z</wsu:Created>
        </wsse:UsernameToken>
        <wsu:Timestamp xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
          <wsu:Created>2011-04-07T07:29:43Z</wsu:Created>
          <wsu:Expires>2011-04-07T07:30:43Z</wsu:Expires>
        </wsu:Timestamp>
      </wsse:Security>
    </S:Header>
    <S:Body>
      <ns2:processIncomingMessageRequest xmlns:ns2="http://icis.externaldomain.services.ws">
        <ns2:messageRequest traderID="045580187" wsPass="12345678" wsUserID="testApp1">
          <DigitallySignedMessage isXmlString="true" messageType="DCL_IE315">
            <xmlMessage xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="xs:string">&lt;?xml version="1.0" encoding="UTF-8"?&gt;
&lt;CC315A&gt;
&lt;MesSenMES3&gt;TRADER.GR&lt;/MesSenMES3&gt;
&lt;MesRecMES6&gt;NICA.GR&lt;/MesRecMES6&gt;
&lt;DatOfPreMES9&gt;101103&lt;/DatOfPreMES9&gt;
&lt;TimOfPreMES10&gt;1353&lt;/TimOfPreMES10&gt;
&lt;TesIndMES18&gt;1&lt;/TesIndMES18&gt;
&lt;MesIdeMES19&gt;9928785225753&lt;/MesIdeMES19&gt;
&lt;MesTypMES20&gt;CC315A&lt;/MesTypMES20&gt;
&lt;CorIdeMES25&gt;1288785225752&lt;/CorIdeMES25&gt;
&lt;HEAHEA&gt;
&lt;RefNumHEA4&gt;ABC6487353663sdfsfsd&lt;/RefNumHEA4&gt;
&lt;TraModAtBorHEA76&gt;4&lt;/TraModAtBorHEA76&gt;
&lt;TotNumOfIteHEA305&gt;3&lt;/TotNumOfIteHEA305&gt;
&lt;TotNumOfPacHEA306&gt;31&lt;/TotNumOfPacHEA306&gt;
&lt;TotGroMasHEA307&gt;500.85&lt;/TotGroMasHEA307&gt;
&lt;DecPlaHEA394&gt;Malta&lt;/DecPlaHEA394&gt;
&lt;SpeCirIndHEA1&gt;A&lt;/SpeCirIndHEA1&gt;
&lt;TraChaMetOfPayHEA1&gt;A&lt;/TraChaMetOfPayHEA1&gt;
&lt;ComRefNumHEA&gt;IS123412&lt;/ComRefNumHEA&gt;
&lt;ConRefNumHEA&gt;OLY0145&lt;/ConRefNumHEA&gt;
&lt;PlaUnIGOOITE334&gt;IT2345ASDFF&lt;/PlaUnIGOOITE334&gt;
&lt;DecDatTimHEA114&gt;201011030000&lt;/DecDatTimHEA114&gt;
&lt;/HEAHEA&gt;
&lt;TRACONCO1&gt;
```

## WEB SERVICES FOR THE ELECTRONIC DOCUMENTS SUBMISSION APPLICATION

```

&lt;NamCO17&gt;sadasd&lt;/NamCO17&gt;
&lt;StrAndNumCO122&gt;DU PONT&lt;/StrAndNumCO122&gt;
&lt;PosCodCO123&gt;65234&lt;/PosCodCO123&gt;
&lt;CitCO124&gt;ROME&lt;/CitCO124&gt;
&lt;CouCO125&gt;IT&lt;/CouCO125&gt;
&lt;TINCO159&gt;GR300000570&lt;/TINCO159&gt;
&lt;/TRACONCO1&gt;
&lt;NOTPAR670&gt;
  &lt;TINNOTPAR671&gt;GR300000570&lt;/TINNOTPAR671&gt;
&lt;/NOTPAR670&gt;
&lt;GOOITEGDS&gt;
  &lt;IteNumGDS7&gt;1&lt;/IteNumGDS7&gt;
  &lt;UNDanGooCodGDI1&gt;0004&lt;/UNDanGooCodGDI1&gt;
  &lt;PRODOCDC2&gt;
    &lt;DocTypDC21&gt;N235&lt;/DocTypDC21&gt;
    &lt;DocRefDC23&gt;54783&lt;/DocRefDC23&gt;
  &lt;/PRODOCDC2&gt;
  &lt;SPEMENMT2&gt;
    &lt;AddInfCodMT23&gt;10600&lt;/AddInfCodMT23&gt;
  &lt;/SPEMENMT2&gt;
  &lt;COMCODGODITM&gt;
    &lt;ComNomCMD1&gt;010110&lt;/ComNomCMD1&gt;
  &lt;/COMCODGODITM&gt;
  &lt;PACGS2&gt;
    &lt;KinOfPacGS23&gt;VQ&lt;/KinOfPacGS23&gt;
    &lt;MarNumOfPacGSL21&gt;Mark111&lt;/MarNumOfPacGSL21&gt;
  &lt;/PACGS2&gt;
&lt;/GOOITEGDS&gt;
&lt;GOOITEGDS&gt;
  &lt;IteNumGDS7&gt;2&lt;/IteNumGDS7&gt;
  &lt;GooDesGDS23&gt;Potatos&lt;/GooDesGDS23&gt;
  &lt;CONNR2&gt;
    &lt;ConNumNR21&gt;98765&lt;/ConNumNR21&gt;
  &lt;/CONNR2&gt;
  &lt;PACGS2&gt;
    &lt;KinOfPacGS23&gt;NE&lt;/KinOfPacGS23&gt;
    &lt;NumOfPieGS25&gt;15&lt;/NumOfPieGS25&gt;
    &lt;MarNumOfPacGSL21&gt;Mark2&lt;/MarNumOfPacGSL21&gt;
  &lt;/PACGS2&gt;
&lt;/GOOITEGDS&gt;
&lt;GOOITEGDS&gt;
  &lt;IteNumGDS7&gt;3&lt;/IteNumGDS7&gt;
  &lt;GooDesGDS23&gt;Tomatos&lt;/GooDesGDS23&gt;
  &lt;PACGS2&gt;
    &lt;KinOfPacGS23&gt;AD&lt;/KinOfPacGS23&gt;
    &lt;NumOfPacGS24&gt;15&lt;/NumOfPacGS24&gt;
  &lt;/PACGS2&gt;
&lt;/GOOITEGDS&gt;
&lt;ITI&gt;
  &lt;CouOfRouCodIT1&gt;GR&lt;/CouOfRouCodIT1&gt;
&lt;/ITI&gt;
&lt;PERLODSUMDEC&gt;
  &lt;TINPLD1&gt;GR300000570&lt;/TINPLD1&gt;
&lt;/PERLODSUMDEC&gt;
&lt;SEID529&gt;
  &lt;SealdSEID530&gt;K244&lt;/SealdSEID530&gt;
&lt;/SEID529&gt;
&lt;CUSOFFFENT730&gt;
  &lt;RefNumCUSOFFFENT731&gt;GR001102&lt;/RefNumCUSOFFFENT731&gt;
  &lt;ExpDatOfArrFIRENT733&gt;201011261200&lt;/ExpDatOfArrFIRENT733&gt;
&lt;/CUSOFFFENT730&gt;
&lt;TRACARENT601&gt;
  &lt;TINTRACARENT602&gt;ATDF1234&lt;/TINTRACARENT602&gt;
&lt;/TRACARENT601&gt;
&lt;/CC315A&gt;
</xmlMessage>
  </DigitallySignedMessage>
</ns2:messageRequest>

```

```

</ns2:processIncomingMessageRequest>
</S:Body>
</S:Envelope>

```

**Figure 4-1: The SOAP ProcessIncomingMessageRequest Example String like**

#### 4.1.1.2 The Embedded XML like Structure

```

<?xml version="1.0" encoding="utf-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
S:mustUnderstand="1">
      <wsse:UsernameToken xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd" wsu:Id="unt_8Kr0VkrCsggP2AD5">
        <wsse:Username>someuser</wsse:Username>
        <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-
1.0#PasswordText">12345678</wsse:Password>
        <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-
security-1.0#Base64Binary">n+FypG44W4oWeRJR1sQqGc+bBxfquDq3ly9M3NasTg=</wsse:Nonce>
        <wsu:Created>2011-04-07T11:48:18Z</wsu:Created>
      </wsse:UsernameToken>
      <wsu:Timestamp xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
        <wsu:Created>2011-04-07T11:48:18Z</wsu:Created>
        <wsu:Expires>2011-04-07T11:49:18Z</wsu:Expires>
      </wsu:Timestamp>
    </wsse:Security>
  </S:Header>
  <S:Body>
    <ns2:processIncomingMessageRequest xmlns:ns2="http://icis.externaldomain.services.ws">
      <ns2:messageRequest traderID="045580187" wsPass="12345678" wsUserID="testApp1">
        <DigitallySignedMessage isXmlString="false" messageType="DCL_IE315">
          <xmlMessage>
            <CC315A>
              <MesSenMES3>TRADER.GR</MesSenMES3>
              <MesRecMES6>NICA.GR</MesRecMES6>
              <DatOfPreMES9>101103</DatOfPreMES9>
              <TimOfPreMES10>1353</TimOfPreMES10>
              <TesIndMES18>1</TesIndMES18>
              <MesIdeMES19>9928785225753</MesIdeMES19>
              <MesTypMES20>CC315A</MesTypMES20>
              <CorIdeMES25>1288785225752</CorIdeMES25>
              <HEAHEA>
                <RefNumHEA4>ABC6487353663sdhdfh</RefNumHEA4>
                <TraModAtBorHEA76>4</TraModAtBorHEA76>
                <TotNumOfIteHEA305>3</TotNumOfIteHEA305>
                <TotNumOfPacHEA306>31</TotNumOfPacHEA306>
                <TotGroMasHEA307>500.85</TotGroMasHEA307>
                <DecPlaHEA394>Malta</DecPlaHEA394>
                <SpeCirIndHEA1>A</SpeCirIndHEA1>
                <TraChaMetOfPayHEA1>A</TraChaMetOfPayHEA1>
                <ComRefNumHEA>IS123412</ComRefNumHEA>
                <ConRefNumHEA>OLY0145</ConRefNumHEA>
                <PlaUnlGOOITE334>IT2345ASDFF</PlaUnlGOOITE334>
                <DecDatTimHEA114>201011030000</DecDatTimHEA114>
              </HEAHEA>
            <TRACONCO1>
              <NamCO17>sadasd</NamCO17>
              <StrAndNumCO122>DU PONT</StrAndNumCO122>
              <PosCodCO123>65234</PosCodCO123>
              <CitCO124>ROME</CitCO124>
              <CouCO125>IT</CouCO125>
              <TINCO159>GR300000570</TINCO159>
            </TRACONCO1>
            <NOTPAR670>
              <TINNOTPAR671>GR300000570</TINNOTPAR671>
            </NOTPAR670>
          </xmlMessage>
        </DigitallySignedMessage>
      </ns2:messageRequest>
    </ns2:processIncomingMessageRequest>
  </S:Body>
</S:Envelope>

```



```

</NOTPAR670>
<GOOITEGDS>
  <IteNumGDS7>1</IteNumGDS7>
  <UNDanGooCodGDI1>0004</UNDanGooCodGDI1>
  <PRODOCDC2>
    <DocTypDC21>N235</DocTypDC21>
    <DocRefDC23>54783</DocRefDC23>
  </PRODOCDC2>
  <SPEMENMT2>
    <AddInfCodMT23>10600</AddInfCodMT23>
  </SPEMENMT2>
  <COMCODGODITM>
    <ComNomCMD1>010110</ComNomCMD1>
  </COMCODGODITM>
  <PACGS2>
    <KinOfPacGS23>VQ</KinOfPacGS23>
    <MarNumOfPacGSL21>Mark111</MarNumOfPacGSL21>
  </PACGS2>
</GOOITEGDS>
<GOOITEGDS>
  <IteNumGDS7>2</IteNumGDS7>
  <GooDesGDS23>Potatos</GooDesGDS23>
  <CONNR2>
    <ConNumNR21>98765</ConNumNR21>
  </CONNR2>
  <PACGS2>
    <KinOfPacGS23>NE</KinOfPacGS23>
    <NumOfPieGS25>15</NumOfPieGS25>
    <MarNumOfPacGSL21>Mark2</MarNumOfPacGSL21>
  </PACGS2>
</GOOITEGDS>
<GOOITEGDS>
  <IteNumGDS7>3</IteNumGDS7>
  <GooDesGDS23>Tomatos</GooDesGDS23>
  <PACGS2>
    <KinOfPacGS23>AD</KinOfPacGS23>
    <NumOfPacGS24>15</NumOfPacGS24>
  </PACGS2>
</GOOITEGDS>
<ITI>
  <CouOfRouCodITI1>GR</CouOfRouCodITI1>
</ITI>
<PERLODSUMDEC>
  <TINPLD1>GR300000570</TINPLD1>
</PERLODSUMDEC>
<SEAI529>
  <SealdSEAI530>K244</SealdSEAI530>
</SEAI529>
<CUSOFFFENT730>
  <RefNumCUSOFFFENT731>GR001102</RefNumCUSOFFFENT731>
  <ExpDatOfArrFIRENT733>201011261200</ExpDatOfArrFIRENT733>
</CUSOFFFENT730>
<TRACARENT601>
  <TINTRACARENT602>ATDF1234</TINTRACARENT602>
</TRACARENT601>
</CC315A>
</xmlMessage>
</DigitallySignedMessage>
</ns2:messageRequest>
</ns2:processIncomingMessageRequest>
</S:Body>
</S:Envelope>

```

**Figure 4-2: The SOAP ProcessIncomingMessageRequest Example DOM like**

### 4.1.1.3 The Digital Signature

The application supports **dsa\_sh1** and **rsa\_sha1** algorithms for the digital signature. Message submission examples XML String like and DOM object like messages having the digital signature active are cited below. (Mind that the digital signature is not available for the time being).

```
<?xml version="1.0" encoding="utf-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
S:mustUnderstand="1">
      <wsse:UsernameToken xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-
1.0.xsd" wsu:id="unt_PQxtsT0a8iV1KN2Y">
        <wsse:Username>someuser</wsse:Username>
        <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-
1.0#PasswordText">12345678</wsse:Password>
        <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-
security-1.0#Base64Binary">i03CXze0uilYG8+q8MhEMyHiMcL/NOpCwvEVpQ5xo+M=</wsse:Nonce>
        <wsu:Created>2011-04-07T11:54:34Z</wsu:Created>
        </wsse:UsernameToken>
        <wsu:Timestamp xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
          <wsu:Created>2011-04-07T11:54:34Z</wsu:Created>
          <wsu:Expires>2011-04-07T11:55:34Z</wsu:Expires>
        </wsu:Timestamp>
      </wsse:Security>
    </S:Header>
    <S:Body>
      <ns2:processIncomingMessageRequest xmlns:ns2="http://icis.externaldomain.services.ws">
        <ns2:messageRequest traderID="045580187" wsPass="12345678" wsUserID="testApp1">
          <DigitallySignedMessage isXmlString="true" messageType="DCL_IE315">
            <xmlMessage xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="xs:string">&lt;?xml version="1.0" encoding="UTF-8"?&gt;
&lt;CC315A&gt;
&lt;MesSenMES3&gt;TRADER.GR&lt;/MesSenMES3&gt;
&lt;MesRecMES6&gt;NICA.GR&lt;/MesRecMES6&gt;
&lt;DatOfPreMES9&gt;101103&lt;/DatOfPreMES9&gt;
&lt;TimOfPreMES10&gt;1353&lt;/TimOfPreMES10&gt;
&lt;TesIndMES18&gt;1&lt;/TesIndMES18&gt;
&lt;MesIdeMES19&gt;9928785225753&lt;/MesIdeMES19&gt;
&lt;MesTypMES20&gt;CC315A&lt;/MesTypMES20&gt;
&lt;CorIdeMES25&gt;1288785225752&lt;/CorIdeMES25&gt;
&lt;HEAHEA&gt;
&lt;RefNumHEA4&gt;ABC6487353663sdhdthfh&lt;/RefNumHEA4&gt;
&lt;TraModAtBorHEA76&gt;4&lt;/TraModAtBorHEA76&gt;
&lt;TotNumOfIteHEA305&gt;3&lt;/TotNumOfIteHEA305&gt;
&lt;TotNumOfPacHEA306&gt;31&lt;/TotNumOfPacHEA306&gt;
&lt;TotGroMasHEA307&gt;500.85&lt;/TotGroMasHEA307&gt;
&lt;DecPlaHEA394&gt;Malta&lt;/DecPlaHEA394&gt;
&lt;SpeCirIndHEA1&gt;A&lt;/SpeCirIndHEA1&gt;
&lt;TraChaMetOfPayHEA1&gt;A&lt;/TraChaMetOfPayHEA1&gt;
&lt;ComRefNumHEA&gt;IS123412&lt;/ComRefNumHEA&gt;
&lt;ConRefNumHEA&gt;OLY0145&lt;/ConRefNumHEA&gt;
&lt;PlaUniGOOITE334&gt;IT2345ASDFF&lt;/PlaUniGOOITE334&gt;
&lt;DecDatTimHEA114&gt;201011030000&lt;/DecDatTimHEA114&gt;
&lt;/HEAHEA&gt;
&lt;TRACONCO1&gt;
&lt;NamCO17&gt;sadasd&lt;/NamCO17&gt;
&lt;StrAndNumCO122&gt;DU PONT&lt;/StrAndNumCO122&gt;
&lt;PosCodCO123&gt;65234&lt;/PosCodCO123&gt;
&lt;CitCO124&gt;ROME&lt;/CitCO124&gt;
&lt;CouCO125&gt;IT&lt;/CouCO125&gt;
&lt;TINCO159&gt;GR300000570&lt;/TINCO159&gt;
&lt;/TRACONCO1&gt;
&lt;NOTPAR670&gt;
&lt;TINNOTPAR671&gt;GR300000570&lt;/TINNOTPAR671&gt;
&lt;/NOTPAR670&gt;
&lt;/GOOITEGDS&gt;

```

## WEB SERVICES FOR THE ELECTRONIC DOCUMENTS SUBMISSION APPLICATION

```

&lt;/IteNumGDS7&gt;1&lt;/IteNumGDS7&gt;
&lt;/UNDanGooCodGDI1&gt;0004&lt;/UNDanGooCodGDI1&gt;
&lt;/PRODOCDC2&gt;
  &lt;/DocTypDC21&gt;N235&lt;/DocTypDC21&gt;
  &lt;/DocRefDC23&gt;54783&lt;/DocRefDC23&gt;
&lt;/PRODOCDC2&gt;
&lt;/SPEMENMT2&gt;
  &lt;/AddInfCodMT23&gt;10600&lt;/AddInfCodMT23&gt;
&lt;/SPEMENMT2&gt;
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  &lt;/ComNomCMD1&gt;010110&lt;/ComNomCMD1&gt;
&lt;/COMCODGODITM&gt;
&lt;/PACGS2&gt;
  &lt;/KinOfPacGS23&gt;VQ&lt;/KinOfPacGS23&gt;
  &lt;/MarNumOfPacGSL21&gt;Mark111&lt;/MarNumOfPacGSL21&gt;
&lt;/PACGS2&gt;
&lt;/GOOITEGDS&gt;
&lt;/GOOITEGDS&gt;
  &lt;/IteNumGDS7&gt;2&lt;/IteNumGDS7&gt;
  &lt;/GooDesGDS23&gt;Potatos&lt;/GooDesGDS23&gt;
&lt;/CONNR2&gt;
  &lt;/ConNumNR21&gt;98765&lt;/ConNumNR21&gt;
&lt;/CONNR2&gt;
&lt;/PACGS2&gt;
  &lt;/KinOfPacGS23&gt;NE&lt;/KinOfPacGS23&gt;
  &lt;/NumOfPieGS25&gt;15&lt;/NumOfPieGS25&gt;
  &lt;/MarNumOfPacGSL21&gt;Mark2&lt;/MarNumOfPacGSL21&gt;
&lt;/PACGS2&gt;
&lt;/GOOITEGDS&gt;
&lt;/GOOITEGDS&gt;
  &lt;/IteNumGDS7&gt;3&lt;/IteNumGDS7&gt;
  &lt;/GooDesGDS23&gt;Tomatos&lt;/GooDesGDS23&gt;
&lt;/PACGS2&gt;
  &lt;/KinOfPacGS23&gt;AD&lt;/KinOfPacGS23&gt;
  &lt;/NumOfPacGS24&gt;15&lt;/NumOfPacGS24&gt;
&lt;/PACGS2&gt;
&lt;/GOOITEGDS&gt;
&lt;/ITI&gt;
  &lt;/CouOfRouCodIT1&gt;GR&lt;/CouOfRouCodIT1&gt;
&lt;/ITI&gt;
&lt;/PERLODSUMDEC&gt;
  &lt;/TINPLD1&gt;GR300000570&lt;/TINPLD1&gt;
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  &lt;/SealdSEID530&gt;K244&lt;/SealdSEID530&gt;
&lt;/SEID529&gt;
&lt;/CUSOFFFENT730&gt;
  &lt;/RefNumCUSOFFFENT731&gt;GR001102&lt;/RefNumCUSOFFFENT731&gt;
  &lt;/ExpDatOfArrFIRENT733&gt;201011261200&lt;/ExpDatOfArrFIRENT733&gt;
&lt;/CUSOFFFENT730&gt;
&lt;/TRACARENT601&gt;
  &lt;/TINTRACARENT602&gt;ATDF1234&lt;/TINTRACARENT602&gt;
&lt;/TRACARENT601&gt;
&lt;/Signature xmlns="http://www.w3.org/2000/09/xmldsig#"&gt;
  &lt;/SignedInfo&gt;
    &lt;/CanonicalizationMethod Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/&gt;
    &lt;/SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#dsa-sha1"/&gt;
    &lt;/Reference URI=""&gt;
    &lt;/Transforms&gt;
      &lt;/Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"/&gt;
    &lt;/Transforms&gt;
    &lt;/DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/&gt;
    &lt;/DigestValue&gt;pfFSPnlpXvn1MXMShwm/cXK6C5A=&lt;/DigestValue&gt;
  &lt;/Reference&gt;
&lt;/SignedInfo&gt;
&lt;/SignatureValue&gt;CTGTO0F17hczG1JZYoh1CeWjrDdgV4+6YMG+I01IJW6LmjQeOdfghQ==&lt;/SignatureValue&gt;
&lt;/KeyInfo&gt;
  &lt;/X509Data&gt;

```



```

<TRACONCO1>
  <NamCO17>sadasd</NamCO17>
  <StrAndNumCO122>DU PONT</StrAndNumCO122>
  <PosCodCO123>65234</PosCodCO123>
  <CitCO124>ROME</CitCO124>
  <CouCO125>IT</CouCO125>
  <TINCO159>GR300000570</TINCO159>
</TRACONCO1>
<NOTPAR670>
  <TINNOTPAR671>GR300000570</TINNOTPAR671>
</NOTPAR670>
<GOOITEGDS>
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  <UNDanGooCodGDI1>0004</UNDanGooCodGDI1>
  <PRODOCDC2>
    <DocTypDC21>N235</DocTypDC21>
    <DocRefDC23>54783</DocRefDC23>
  </PRODOCDC2>
  <SPEMENMT2>
    <AddInfCodMT23>10600</AddInfCodMT23>
  </SPEMENMT2>
  <COMCODGODITM>
    <ComNomCMD1>010110</ComNomCMD1>
  </COMCODGODITM>
  <PACGS2>
    <KinOfPacGS23>VQ</KinOfPacGS23>
    <MarNumOfPacGSL21>Mark111</MarNumOfPacGSL21>
  </PACGS2>
</GOOITEGDS>
<GOOITEGDS>
  <IteNumGDS7>2</IteNumGDS7>
  <GooDesGDS23>Potatos</GooDesGDS23>
  <CONNR2>
    <ConNumNR21>98765</ConNumNR21>
  </CONNR2>
  <PACGS2>
    <KinOfPacGS23>NE</KinOfPacGS23>
    <NumOfPieGS25>15</NumOfPieGS25>
    <MarNumOfPacGSL21>Mark2</MarNumOfPacGSL21>
  </PACGS2>
</GOOITEGDS>
<GOOITEGDS>
  <IteNumGDS7>3</IteNumGDS7>
  <GooDesGDS23>Tomatos</GooDesGDS23>
  <PACGS2>
    <KinOfPacGS23>AD</KinOfPacGS23>
    <NumOfPacGS24>15</NumOfPacGS24>
  </PACGS2>
</GOOITEGDS>
<ITI>
  <CouOfRouCodITI1>GR</CouOfRouCodITI1>
</ITI>
<PERLODSUMDEC>
  <TINPLD1>GR300000570</TINPLD1>
</PERLODSUMDEC>
<SEAI529>
  <SealIDSEAI530>K244</SealIDSEAI530>
</SEAI529>
<CUSOFFFENT730>
  <RefNumCUSOFFFENT731>GR001102</RefNumCUSOFFFENT731>
  <ExpDatOfArrFIRENT733>201011261200</ExpDatOfArrFIRENT733>
</CUSOFFFENT730>
<TRACARENT601>
  <TINTRACARENT602>ATDF1234</TINTRACARENT602>
</TRACARENT601>
<Signature:Signature xmlns="http://www.w3.org/2000/09/xmldsig#"
xmlns:Signature="http://www.w3.org/2000/09/xmldsig#"><SignedInfo><CanonicalizationMethod xmlns="
xmlns:ns5="http://www.w3.org/2000/09/xmldsig#" Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-

```

```

20010315"></CanonicalizationMethod><SignatureMethod xmlns="" xmlns:ns5="http://www.w3.org/2000/09/xmldsig#"
Algorithm="http://www.w3.org/2000/09/xmldsig#dsa-sha1"></SignatureMethod><Reference xmlns=""
xmlns:ns5="http://www.w3.org/2000/09/xmldsig#" URI=""><ns5:Transforms><ns5:Transform
Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature"></ns5:Transform></ns5:Transforms><ns5:DigestMethod
Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"></ns5:DigestMethod><ns5:DigestValue>pfFSPnlpXvn1MXMShwm/cXK6
C5A=</ns5:DigestValue></Reference></SignedInfo><SignatureValue>C7NkeKqeUrxGnuaBS+YvPIQVT3BybIP13at2KXEtaIHt
HpO8LXuKrQ==</SignatureValue><KeyInfo><X509Data><X509SubjectName>CN=Antypas
Ch,OU=Java,O=ii,C=GR</X509SubjectName><X509Certificate>MIICtjCCAnOgAwIBAgIES2x2ITALBgqhkJOOAQDBQAwPjEL
MAkGA1UEBhMCR1lxZzAJBGhVNBAAoT
AmpMQ0wCwYDVQQLEwRKYXZHMwEYDQDEwPBBnR5cGFzIENoMB4XDTEwNTA0NVowOjE1MDExMDE5NTA0NVowPjELMAkGA1UEBhMCR1lxZzAJBGhVNBAAoT
MRMwEQYDVQQDEwPBBnR5cGFzIENoMIIIBtZCCASwGBByqGSM44BAEwggEfAoGBAP1/U4EddRlP1U9K
nC7s5Of2EbdsPO9EAMMeP4C2USZpRV1AlIH7WT2NWPq/xfW6MPbLm1Vs14E7gB00b/JmYLdRmVCI
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SAHHAhUAI2BQjxUjC8yykrmCouuEC/BYHPUCgYEA9+GghdabPd7LvKtcNrhXuXmUr7v6OuqC+VdM
Cz0HgmdRWVveOutRZT+ZxBxCBGLRjFnEj6EwoFhO3zwyjMim4TwwEotUfl0o4KOUhiuzpnWRbqN/
C/ohNWLx+2J6ASQ7zKTxvqhRklmog9/hWuWfBpKLZI6Ae1UIZAFMO/7PSSoDgYQAaGAZkxkws63
gGdVF5th7MUoMnC+BnQyC3GiydhqE3mtNMd6qlnzKnWVm73Bdl1Og/cEU/02DZYV27dbFIVpM7pq
XjS/KTKNYIOrndrkKgGRy4E1H5zmsRMXuAxxqo0iBcY9FRi+DdLkG5W1FJ5V3I07dDexGbkHlYi
bcMCwZmNIC8wCwYHKOZlZjgEAWAAZAAAMC0CFDXyK106yDc2uF+kU3GoYC8VX6QvAhUAkpUnP08Y
pyF2ePcLT7GBWVMna.Y=</X509Certificate></X509Data></KeyInfo></Signature:Signature></CC315A></xmlMessage></Digi
tallySignedMessage></ns2:messageRequest></ns2:processIncomingMessageRequest></S:Body></S:Envelope>

```

#### 4.1.2. The RetrieveMovementRequest

This example shows a SOAP message in a document retrieval at the Import Control Subsystem (ICS) -\_Entry summary declarations (**DCL**), based on LRN ABC6487353663sdfsfsd, with the trader ID "045580187" and role: "Other".

```

<?xml version="1.0" encoding="utf-8" ?>
- <S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
- <S:Header>
- <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
S:mustUnderstand="1">
- <wsse:UsernameToken xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
wsu:Id="unt_ZBahGmd1aEtnpZ9l">
  <wsse:Username>someuser</wsse:Username>
  <wsse:Password Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-
1.0#PasswordText">12345678</wsse:Password>
  <wsse:Nonce EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-
1.0#Base64Binary">+YYVoOEex0jFINRq4dP4c1uwhgRkNAZpXpjbUFAsv4=</wsse:Nonce>
  <wsu:Created>2011-04-07T12:00:03Z</wsu:Created>
  </wsse:UsernameToken>
- <wsu:Timestamp xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
  <wsu:Created>2011-04-07T12:00:03Z</wsu:Created>
  <wsu:Expires>2011-04-07T12:01:03Z</wsu:Expires>
  </wsu:Timestamp>
  </wsse:Security>
</S:Header>
- <S:Body>
- <ns2:retrieveMovementRequest xmlns:ns2="http://icis.externaldomain.services.ws">
- <ns2:movementRequest isXmlString="true" traderID="045580187" wsPass="12345678" wsUserID="testApp1">
  <domain>DCL</domain>
  <role>Other</role>
  <typeOfKey>LRN</typeOfKey>
  <key>ABC6487353663sdfsfsd</key>
  <messageType>IE315</messageType>
  </ns2:movementRequest>
</ns2:retrieveMovementRequest>
</S:Body>
</S:Envelope>

```



### 4.1.3. The DateRetrieveMovement

This example shows a SOAP message in a document retrieval at the Excise Movement and Control System (EMCS), for a time interval defined by the arguments: dateFrom and dateTo with the trader ID "045580187" in the role: "AnyRole".

```
<?xml version='1.0' encoding='utf-8'?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <wsse:Security
      xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd"
      S:mustUnderstand="1">
      <wsse:UsernameToken
        xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd"
        wsu:Id="unt_mCOjEqtfEbbvF3gi">
          <wsse:Username>someuser</wsse:Username>
          <wsse:Password
            Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-token-profile-
1.0#PasswordText">12345678</wsse:Password>
          <wsse:Nonce
            EncodingType="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-soap-message-security-
1.0#Base64Binary">wMvzophWYguJWIIlgYPsuzYE5jZTp4Npva7x8MY782A=
          </wsse:Nonce>
          <wsu:Created>2011-04-07T12:04:58Z</wsu:Created>
        </wsse:UsernameToken>
        <wsu:Timestamp
          xmlns:wsu="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">
          <wsu:Created>2011-04-07T12:04:57Z</wsu:Created>
          <wsu:Expires>2011-04-07T12:05:57Z</wsu:Expires>
        </wsu:Timestamp>
      </wsse:Security>
    </S:Header>
    <S:Body>
      <ns2:dateRetrieveMovement xmlns:ns2="http://icis.externaldomain.services.ws">
        <ns2:dateMovementRequest isXmlAttribute="true"
          traderID="045580187" wsPass="12345678" wsUserID="testApp1">
          <dateFrom>2011-04-29T11:23:00</dateFrom>
          <dateTo>2011-04-28T17:38:43</dateTo>
          <domain>EMCS</domain>
          <role>AnyRole</role>
        </ns2:dateMovementRequest>
      </ns2:dateRetrieveMovement>
    </S:Body>
  </S:Envelope>
```

## 4.2. The Web Service Parameters Analysis

The related parameters analysis follows below. (The URL sites are for the Test environment. Production environment sites are located at <https://www1.gsis.gr/wsicisnet/...>)

Argument	Description	Type/Site
<b>Common</b>		
icisUserName	User's name for the ICISnet application	String
icisPassword	User's password for the ICISnet application	String
wsUserID	Additional user's name for the web services: It results from the application: <i>Authorisation/Safety Credentials</i>	String. Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3</a>
wsPass	Web services user's additional password: It results from the application: <i>Authorisation/Safety Credentials</i>	String. Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3</a>
<b>Document Submission Service</b>		
messageType	The message type: e.g: EMCS_GR815	Enumerated. Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2</a> Argument "MessageType"
traderID	The Registration Tax Number (RTN) (nine-digit number) or EORI of the active economic operator	Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3</a> "traderID" argument
isXmlString	The form of the message which will be submitted (XML String: true or DOM Object :false)	Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3</a>



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		<a href="#">Service?xsd=2</a>
xmlMessage	The message which will be submitted in XML form ( in string or object type, depending on the argument value isXmlString)	Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2</a>
<b><i>Documents Retrieval Service based on LRN or MRN/ARC</i></b>		
traderID	The Registration Tax Number (RTN) (nine-digit number) or EORI of the active economic operator	Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3</a>
isXmlString	The form of the message which will be submitted (XML string:true or DOM object: false)	Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3</a>
domain	The ICISnet subsystem to which the retrieval service is addressed to (e.g. DCL)	Data enumerated type. Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2</a> Argument " Domains"
key	The MRN/ARC or the LRN of the movement	String
typeOfKey	The retrieval key type for that specific service (e.g. LRN).	Data enumerated type, Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2</a> Argument " KeyTypes"
role	Roles for that specific service Dep: Departure messages domain, if there is any departure Des: Destination messages for any domain, if there is	Data enumerated type, Can be found at: (Dep/Des/AnyRole/Other) Can be found at:

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	<p>destination role</p> <p>AnyRole: Departure or Destination Messages</p> <p>Other: Other messages than the departure and destination messages</p>	<p><a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2</a></p> <p>"DomainRoles" argument</p>
messageDirectionType	<p>The parameter reports if the message will be incoming (to the user's application) or outgoing (from the user's application).</p> <p>Incoming/Outgoing</p>	<p>Can be found at:</p> <p><a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2</a></p> <p>" MessageDirectionTypes" argument</p>
messageType	<p>The message type e.g. GR815. Mind that you do not need to write the abbreviation of the subsystem (e.g. EMCS_)</p> <p>Enumerated data type.</p>	<p>String</p> <p>Can be found at:</p> <p><a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3</a></p>
<b><i>Documents retrieval service based on date</i></b>		
domain	<p>The ICISnet subsystem to which the retrieval service is addressed to ( e.g. DCL )</p>	<p>Data enumerated type. Can be found at:</p> <p><a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2</a></p> <p>" Domains" argument</p>
isXmlString	<p>The form of the message that will be submitted (XML String:true or DOM Object: false)</p>	<p>Can be found at:</p> <p><a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3</a></p>
traderID	<p>The Registration Tax Number (RTN) (nine-digit number) or EORI of the active economic operator</p>	<p>Can be found at:</p> <p><a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3</a></p>

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<p>role</p>	<p>Roles for that specific service</p> <p>Dep: Departure messages for any domain, if there is a departure role</p> <p>Des: Destination messages for any domain, if there is a destination role</p> <p>AnyRole: Departure and destination messages</p> <p>Other: Other messages than the departure and destination messages</p>	<p>Data enumerated type. Can be found at: (Dep/Des/AnyRole/Other)</p> <p>Can be found at: <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2</a></p> <p>Argument "DomainRoles"</p>
<p>messageDirectionType</p>	<p>The parameter reports if the message will be incoming (to the user's application) or outgoing (from the user's application).</p> <p>Incoming/Outgoing</p>	<p>Can be found at: <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2</a></p> <p>Argument " MessageDirectionTypes"</p>
<p>messageType</p>	<p>The message type e.g. GR815. Mind that you do not need to write the abbreviation of the subsystem (e.g. EMCS_)</p> <p>Enumerated data type.</p>	<p>String</p> <p>Can be found at: <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3</a></p>
<p>dateFrom</p>	<p>Starting retrieval date and time</p>	<p>Datetime</p> <p>Can be found at: <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3</a></p>
<p>dateTo</p>	<p>Stop retrieval date and time</p>	<p>Datetime</p> <p>Can be found at: <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3</a></p>

### 4.3. The Errors Management

(The URL sites are for the Test environment. Production environment sites are located at <https://www1.gsis.gr/wsicisnet/...>)

#### 4.3.1. The Server certifications

Specially for the traders test environment, you must deactivate the controls done for the security certificate. One way to achieve this, is by using the following described methods of java (if you use Java Client):

```
SSLUtilities.trustAllHostnames();  
SSLUtilities.trustAllHttpsCertificates();
```

that described analytically at the site: [http://en.wikibooks.org/wiki/WebObjects/Web\\_Services/How\\_to\\_Trust\\_Any\\_SSL\\_Certificate](http://en.wikibooks.org/wiki/WebObjects/Web_Services/How_to_Trust_Any_SSL_Certificate)

#### 4.3.2. The Synchronisation Server/Client

A necessary precondition for the right function of web services is the clock synchronisation of both client and server. The synchronization should be performed using the GMT time. The time difference between client and server should be less than one minute. In case that the difference is more than one minute the following error message appears :

```
A Java exception has occurred: Security token failed to validate.
```

```
weblogic.xml.crypto.wss.SecurityTokenValidateResult@45eca2[status: false][msg UNT Error:Message Created time past  
the current time even accounting for set clock skew]
```

In order to solve that problem, the synchronisation of the client's clock with that of the server's is required. The service that returns the server's time can be found at: <https://www2.gsis.gr/wsicisnet/TimeService?wsdl> (Test environment) or at <https://www1.gsis.gr/wsicisnet/TimeService?wsdl> (Production environment).

Alternatively, the synchronisation with an internet ntp time server is suggested.

#### 4.3.3. The Errors Logging

The errors are logged in four levels. The first level concerns the errors status

(<https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2>,  
<https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2>,  
<https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2>) and has the followed values:

- InvalidArgument
- ValError
- OtherError
- NothingFound
- NotAuthorized
- InvalidSignature
- IncompleteResults
- WrongState

The second level concerns the errors ReasonCode (

<https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2>,  
<https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2>,  
<https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2>) and has the following values:

- SyntacticValidationError
- RulesConditionasError
- RequestParameterError
- InvalidMessageContent
- PeriodError
- RoleError
- KeyTypeError
- InvalidMessageType
- WrongDeclaredMessageType

- NotSupportedMessageType
- NotSupportedDomain
- WrongCredentials
- CredentialsNotMatching
- NoTraderAuthorization
- NoSignatureFound
- WrongSignature
- StateNotAcceptsMessageType
- TechnicalProblem
- Other
- Failure

It should be noted that all the errors status are not connected with all the ReasonCodes (for instance the WrongState is connected only with the WrongMessageType reasonCode, as it is referred at the paragraph 4.3.3.2)

The next levels of errors recording are the Processing Error (it concerns only the MessageProcessorService and can be found at: <https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3>) and the Explanation (

<https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=1>,  
<https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=1>,  
<https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=1>).

The ErrorCode of the Processing Error, which is described at the site <https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=1>, is not in use.

#### 4.3.3.1 The Successful Message Submission

In case of successful message submission the Status has the value **OK**. The values of the rest fields are:

Reason Code	Processing Error	Explanation	Analysis/Description
Other	Not shown	OK message has been successfully submitted	The message has been successfully submitted

Grouping tables of errors based on all the combination of Status and the ReasonCode follow:

#### 4.3.3.2 The WrongState

The error concerns the service: MessageProcessorService.

Reason Code	Processing Error	Explanation	Analysis/Description
StateNotAcceptsMessageType	The Movement is in state [X] which does not allow for reception of message type [messageType]	Submitted message out of Sequence, wrong state. This message could not be received in current state.	Case A: The LRN of the message is not unique. It already exists in the dataBase  Case B: Failure to submit this message. The system waits message in a different status.

#### 4.3.3.3 The InvalidArgument

The current error concerns both the submission and retrieval message services. In case that a non xml message is sent, the following message appears:

**Status Code: INVALID\_ARGUMENT**  
**ReasonCode: WRONG\_DECLARED\_MESSAGE\_TYPE**  
**Explanation: Invalid Argument.Wrong Declared Message Type.**

(the message has erroneous messageType)

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Reason Code	Processing Error	Explanation	Analysis/Description
PeriodError	Not shown	InvalidArgument Request Parameter Error, Wrong Period.	It appears when the starting date is greater than the stop date at the DateMovementRetrievalService
WrongDeclaredMessageType	Not shown	Invalid Argument. Wrong Declared Message Type	A message with wrong messageType is being sent in relation with the one that has been defined at the argument MessageType that can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2</a> .
NotSupportedMessageType	Parameter [Invalid Message Type:] was passed an invalid argument with value [name]	Invalid Argument.This Release does not support this Message Type.	This message type is not supported at this version. (MessageType, Can be found at: <a href="https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2">https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=2</a> )
NotSupportedDomain	Not shown	Invalid Argument. This Release does not support this domain.	The declared subsystem (argument: Domains, at the site <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=2</a> or <a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=2</a> ) is not supported by the retrieval services.



NotSupportedMessageType	Not shown	Invalid Argument. This Release does not support this Message Type.	The declared message type (argument: messageType at the sites <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3</a> or <a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3</a> ) is not supported by the retrieval services.
RoleError	Not shown	InvalidArgument Request Parameter Error, Role is not supported for Domain.	The current subsystem (domain) is not connected with the present role (role). See 4.4 paragraph
KeyTypeError	Not shown	InvalidArgument Request Parameter Error key is not supported for Domain/role.	The current subsystem (domain) is not connected with the present key (keyType) See 4.4 paragraph
InvalidMessageType		Invalid Argument. Request Parameter Error, Invalid Message Type.	A wrong MessageType (argument: messageType at the sites <a href="https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/DateMovementRetrievalService?xsd=3</a> or <a href="https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3">https://www2.gsis.gr/wsicisnet/MovementRetrievalService?xsd=3</a> ) for the retrieval services.

#### 4.3.3.4 The ValError

The error concerns the message submission service.

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Reason Code	Processing Error	Explanation	Analysis/Description
SyntacticValidationError	The end-tag for element type "%element%" must end with a '>' delimiter.	Validation Error. Syntactic Validation Error	The end-xml tag of %element% of the submitted message is erroneous.
SyntacticValidationError	Null: The field %element% is necessary.	Validation Error. Syntactic Validation Error	The field %element% of the submitted message is missing.
SyntacticValidationError	The field %element% (num) should not have more than %number% characters.	Validation Error. Syntactic Validation Error	The field %element% should not have more than %number% characters.
SyntacticValidationError	Validation Error : invalid character on numeric Field: %element%	Invalid character on numeric Field: "%element%"	The numeric field %element% has an invalid character.
SyntacticValidationError	Validation Error : invalid character on numeric FieldValue %number% for hourOfDay must be in the range [0,23]	Validation Error : invalid character on numeric FieldValue 28 for hourOfDay must be in the range [0,23]	The value %number% is not a valid time. The value should be between 0 and 23.

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<p>SyntacticValidationError</p>	<p>Validation Error: invalid character on numeric FieldValue %number% for monthOfYear must be in the range [1,12]</p>	<p>Validation Error : invalid character on numeric FieldValue 99 for monthOfYear must be in the range [1,12]</p>	<p>The value %number% is an invalid month. The value should be between 1 and 12.</p>
<p>SyntacticValidationError</p>	<p>Processing Error: Validation Error: invalid character on numeric FieldValue %number% for dayOfMonth must be in the range [1,30]</p>	<p>Validation Error: invalid character on numeric FieldValue 40 for dayOfMonth must be in the range [1,30]</p>	<p>The value %number% is an invalid day.                  For the months January, March, May, July, August, October and December the value should be between 1 and 31.                  For the months April, June, September and November the value should be between 1 and 30.                  For February , the value should be between 1 and 28,with the exemption of a leap year, when the maximum value is 29.</p>
<p>SyntacticValidationError</p>	<p>XML document structures must start and end within the same entity.</p>	<p>Validation Error. Syntactic Validation Error</p>	<p>The submitted message structure is invalid (the start xml tag is different from the end xml tag)</p>

#### 4.3.3.5 OtherError

The current error concerns all three services. In the field: explanation a unique id of this form: "@numeric@" is added. In case of such an error, user should contact the helpdesk for further assistance.

Reason Code	Explanation	Analysis/Description
Technical Problem	id @number@ : Other Error.	Errors related to technical issues.
Other	id @number@ : Other Error.	Various general errors that are not associated with the application.
Failure	id @number@ : Other Error.	General errors, contact the system 's responsible

#### 4.3.3.6 NothingFound

The present error concerns the two retrieval messages services.

Reason Code	Explanation	Analysis/Description
OTHER	Nothing Found.	Retrieval did not recover any results.

#### 4.3.3.7 NotAuthorised

The present error concerns all the three services supported by the application. At first the validity of the username is examined (icisUserName) as well as his password (icisPassword). In case of an invalid username or password, the following message is received:

Failed to assert identity with UsernameToken.

Reason Code	Processing Error	Explanation	Analysis/Description
-------------	------------------	-------------	----------------------

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WRONG_CREDENTIALS	User is not authorized to use web services	User is Not Authorized. Wrong web services Credentials.	The user's additional username (argument: wsUserID at the site https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3) or the additional user's password (argument: wsPass at the site https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3) is invalid
CredentialsNotMatching	Not shown	Not_Authorised. The two Credentials are not Matching	The user's additional username (argument: wsUserID at the site https://www2.gsis.gr/wsicisnet/MessageProcessorService?xsd=3) has not been issued for the economic operator who is the user of ICISnet (icisUserName).
NoTraderAuthorisation	The user with ID [{0}] is not authorised to perform operation [{2}] on behalf of trader [{1}]	Not_Authorised. User is not Authorised for Trader	There is no appropriate authorisation.

#### 4.3.3.8 The InvalidSignature

The error concerns only the MessageProcessorService

Reason Code	Processing Error
NoSignatureFound	The problem concerns digital signature. Without digital signature, the message is wrongly submitted.

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WrongSignature	<p>The problem concerns digital signature.</p> <p>The digital signature sent along with the message is false.</p>
----------------	---

### 4.3.3.9 The IncompleteResults

The error concerns only the retrieval service based on dates.

Reason Code	Explanation	Analysis/Description
Not shown.	Number of retrieved movements exceeded the 150 threshold	It appears when the retrieval results are more than the maximum number of movements (max. number of movements = 150).

## 4.4. The Correlation of SubSystems/Roles & SubSustems/Keys

The allowed combinations between subsystems and roles are cited at the following table.

Substructures \ Roles	Dep	Des	Other	AnyRole
DCL - <b>Entry summary declarations</b>	NO	NO	YES	YES
EMCS	YES	YES	NO	YES
ECS	NO	NO	YES	YES
IMP – Imports	NO	NO	YES	YES

NCTS	YES	YES	NO	YES
------	-----	-----	----	-----

The allowed combinations between subsystems and keys are cited at the following table.

Keys \ Substructures	LRN	MRN	ARC
DCL	YES	YES	NO
EMCS (Dep)	YES	NO	YES
EMCS (Des)	NO	NO	YES
EMCS (AnyRole)	YES	NO	YES
ECS	YES	YES	NO
IMP	YES	YES	NO
NCTS	YES	NAI	NO

#### 4.5. The Authorisations

The authorisations circuit has been implemented according to the following principles:

- There is the entity *User* who is the person that is connected to the system and the entity *Active economic Operator* who is the person whom the user works for.
- A user can work for himself; in that case user and active economic Operator are identical.
- A non-authorized user can not send or receive messages for another economic Operator, but only for himself.
- An authorised user can send messages and retrieve only his submitted messages.
- An authorised user can not retrieve messages which are not submitted by himself.

- In case of lifting authorisation, the user can neither submit nor retrieve messages.

## 4.6. The Message Types

In this chapter the message types, supported by any domain, are cited. For the time being only Excise Duties and Import Control System are available. These systems cover the needs of the EMCS-FS1 και ICS Community projects with limited scale of messages. The Export Control System is available for test purposes only!

### 4.6.1. The Excise Duty Subsystem

Message	Action
<b>e-DA</b>	
GR815	Submission
GR813	Modification
GR810	Cancellation
<b>Delivery Report</b>	
GR818	Submission
<b>Reasons for Delay Delivery</b>	
GR837	Submission

Excise Duty Answering Messages
GR801
GR802



GR803
GR810
GR813
GR818
GR837
GR704
GR905

4.6.2. The Import Control Subsystem

Message	Action
<b>Entry Summary Declaration</b>	
IE315	Submission
IE313	Amendment
<b>International Diversion</b>	
IE323	Submission
<b>Arrival Notification</b>	
IE344	Submission
DA013	Amendment
<b>Subsequent Arrival Notification</b>	
IE347	Submission

DA413	Amendment
-------	-----------

Import Control Answering Messages
IE316
IE328
IE304
IE305
IE351
IE323
IE324
IE348
IE349
IE330
IE361
IE329
IE322
DA404
DA405
IE345
IE346
IE330
IE361
IE329
IE322

DA004
DA005

#### 4.6.3. The Export Control Subsystem

An exhaustive list of messages can be found on our portal: [http://www.gsis.gr/teloneia/ICISnet/ICISnet\\_ECStables.html](http://www.gsis.gr/teloneia/ICISnet/ICISnet_ECStables.html)