

# ATWD XML Web Service Handbook



Version 1.9

**This handbook provides technical information to those organisations wishing to utilise the HMRC ATWD XML Web Service.**

## Table of Contents

<b>1</b>	<b>Introduction</b> .....	<b>4</b>
1.1	About this document.....	4
1.2	ATWD XML Web Service overview.....	4
<b>2</b>	<b>API</b> .....	<b>5</b>
2.1	SOAP Web Service.....	5
2.2	SOAP Messages.....	6
2.2.1	<i>SOAP Header</i> .....	6
2.2.2	<i>SOAP Body</i> .....	8
2.3	Operations.....	8
2.3.1	<i>submitWIDeclaration</i> .....	8
2.3.2	<i>submitWarrant</i> .....	9
2.3.3	<i>getWarrantStatus</i> .....	10
<b>3</b>	<b>Error Handling</b> .....	<b>11</b>
3.1	Overview.....	11
3.2	XML Validation Errors.....	11
3.3	Business Validation Errors.....	14
3.3.1	<i>submitWIDeclaration</i> .....	14
3.3.2	<i>submitWarrant</i> .....	17
3.3.3	<i>getWarrantStatus</i> .....	22
3.4	System errors.....	22
<b>4</b>	<b>Accessing the Service</b> .....	<b>23</b>
4.1	Transport and Security.....	23
4.2	Location of service.....	23
4.3	Service restrictions.....	23
<b>5</b>	<b>TPVS</b> .....	<b>26</b>
5.1	Overview.....	26
5.2	Accessing the test service.....	26
5.3	Test scenarios.....	26
5.3.1	<i>submitWIDeclaration</i> .....	26
5.3.2	<i>submitWarrant</i> .....	30
5.3.3	<i>getWarrantStatus</i> .....	35
<b>6</b>	<b>Support</b> .....	<b>38</b>
	<b>Appendix 1 XML schemas</b> .....	<b>39</b>
	<b>Appendix 2 Character set</b> .....	<b>40</b>

**Appendix 3 Document History.....41**

## 1 Introduction

### 1.1 About this document

This document provides technical information about the ATWD XML Web Service. It is intended for use by software vendors and other technical users of the service.

This Web Service (also known as the ‘XML channel’) is just one component in the ATWD (Alcohol and Tobacco Warehousing Declarations) system. Further information about the ATWD system can be obtained from the HMRC portal <http://www.hmrc.gov.uk/>.

### 1.2 ATWD XML Web Service overview

The ATWD XML Web Service provides a means for third-party software applications to make submissions of warehouse declarations (W1 returns) and warrants (W5, W5D, W6, and W6D) to HMRC, and to poll for the results of warrant submissions.

The ATWD XML Web Service follows the [World Wide Web Consortium \(W3C\)](#) definition of a system that enables clients and servers to communicate using XML messages that follow the [SOAP](#) standard. Associated with a web service is commonly a machine readable description of the operations supported by the server in the form of a WSDL (Web Services Description Language).

The ATWD XML Web Service is a synchronous document-style service that accepts an XML payload via each of its operations.

## 2 API

### 2.1 SOAP Web Service

The XML Channel is implemented as a SOAP web service that is synchronous and document style. Each of the request/response pairs for the three web service operations is backed by an XML schema.

The operations supported by the service are:

Operation	Description
submitW1Declaration	Submit a W1 Warehouse Declaration
submitWarrant	Submit a W5, W5D, W6 or W6D Warrant
getWarrantStatus	Obtain the status of a previously submitted Warrant

The service operations utilise the following schemas:

Operation	Schemas
submitW1Declaration	ATWDWarehouseReturn, ATWDWarehouseReturnResponse
submitWarrant	ATWDWarrantSubmission, ATWDWarrantSubmissionResponse
getWarrantStatus	ATWDWarrantStatusRequest, ATWDWarrantStatusResponse

Schema descriptions:

Schema	Description
ATWDWarehouseReturn.xsd	Schema defines XML format for submitting a W1 declaration to ATWD.
ATWDWarehouseReturnResponse.xsd	Schema defines the XML format for the response to the W1 submission.
ATWDWarrantSubmission.xsd	Schema defines XML format for submitting a warrant (W5, W5D, W6, W6D) to ATWD.
ATWDWarrantSubmissionResponse.xsd	Schema defines the XML format for the response to a Warrant submission.
ATWDWarrantStatusRequest.xsd	Schema defines the XML format for a request for the status of a Warrant submission.
ATWDWarrantStatusResponse.xsd	Schema defines the XML format for the response to a warrant status request.
The above schemas reference (import) ATWDTypeDefinitions.xsd	

## 2.2 SOAP Messages

The general form of a SOAP message that is embedded in an HTTP POST request is as follows:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <env:Header>
    ...
  </env:Header>
  <env:Body>
    ...
  </env:Body>
</env:Envelope>
```

### 2.2.1 SOAP Header

The ATWD SOAP header contains two parts, one mandatory, one optional

```
<env:Header>
```

```
<wsse:Security>
  <wsse:UsernameToken>
    <wsse:Username>[insert_userId]</wsse:Username>
    <wsse:Password>[insert_password]</wsse:Password>
  </wsse:UsernameToken>
</wsse:Security>
```

*mandatory*

```
<info:hmrclInfo xmlns:info="http://www.govtalk.gov.uk/hmrclinfo/">
  <info:VendorDetails>
    <info:VendorIdentity>
      <info:VendorName>[insert_vendorname]</info:VendorName>
      <info:VendorURI>[insert_vendorURI]</info:VendorURI>
      <info:VendorID>[insert_venddorID]</info:VendorID>
    </info:VendorIdentity>
    <info:VendorProduct>
      <info:VendorProductName>[insert_productname]</info:VendorProductName>
      <info:VendorProductVersion>[insert_productversion]</ info:VendorProductVersion>
    </info:VendorProduct>
  </info:VendorDetails>
</info:hmrclInfo>
```

*optional*

```
</env:Header>
```

### Security header

The mandatory Security header provides the credentials of the Government Gateway registered warehouse user. This will be used in conjunction with the warehouseID that is included in all three main body schemas in order to authenticate and authorise the request.

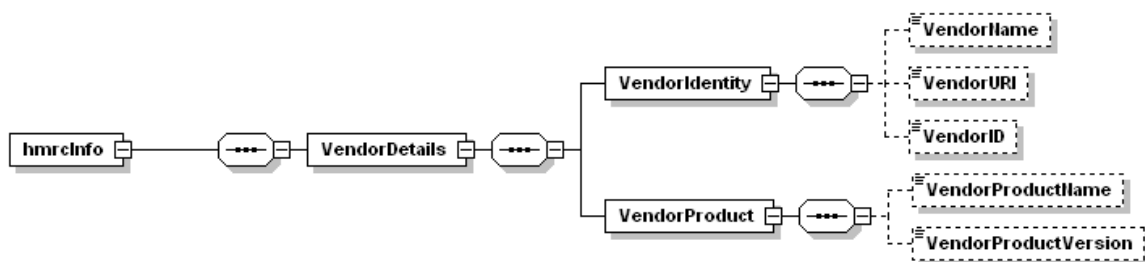
### hmrcInfo header

In order to provide HMRC specific metadata about the body of the soap requests an HMRC header is provided. This provides the calling application with the ability to specify information about the software vendor who implemented the client application and also key information about the caller. The HMRC header will be transmitted within the header element of the SOAP envelope. For this release of the ATWD XML Channel service all of the fields in the hmrcInfo header will be optional fields.

The following table provides a basic specification for the HMRC header

hmrcInfo	
Name	Description
VendorID	Unique identifier of the software vendor who implemented the client application used in the invocation of the web service operation. This will be provided during the vendor business registration process.
VendorURI	Vendors Resource Identifier. This will be agreed upon during the vendor business registration process.
VendorName	Name of the software vendor who provided the client application used in the invocation of the web service operation. This will be agreed upon during the vendor business registration process.
VendorProductName	Name of the client application software product used to create the original message and invoke the web service operation.
VendorProductVersion	Software version number of the software product, as specified in the <VendorProduct> element, that was to create the original message and invoke the web service operation.

Figure 1 below is a graphical representation of the HMRC header.



**Figure 1 : HMRC header**

## 2.2.2 SOAP Body

The SOAP message body contains the XML message pertaining to one of the three supported service operations. The XML message must be suitable encoded to avoid confusion with XML delimiters. This is normally done by the web-service client library when passing XML as a string parameter.

## 2.3 Operations

### 2.3.1 submitW1Declaration

submitW1Declaration is the Web Service operation invoked to submit an XML message that represents a W1 Warehouse declaration. Authentication against the Government Gateway is required for this operation; therefore it is mandatory for the SOAP header to include the Web Service Security element (see 2.2.1).

operation	submitW1Declaration			
parameters	name	style	type	location
	declaration	in	xsd:string	body
			ATWDWarehouseReturn	
return-param	name		type	location
	response		xsd:string	body
			ATWDWarehouseReturnResponse	
<b>Error conditions</b> (raised as a SOAPFaultException exception)				
faultcode	server			
faultString	submitW1Declaration method failed			
Outcome	No action will be taken other than the generation of this SOAP fault			

## 2.3.2 submitWarrant

submitWarrant is the Web Service operation invoked to submit an XML message that represents a W5, W5D, W6 or W6D warrant. Authentication against the Government Gateway is required for this operation; therefore it is mandatory for the SOAP header to include the Web Service Security element (see 2.2.1).

operation	submitWarrant			
parameters	name	style	type	location
	declaration	in	xsd:string ATWDWarrantSubmission	body
return-param	name		type	location
	response		xsd:string ATWDWarrantSubmissionResponse	body
<b>Error conditions</b> (raised as a SOAPFaultException exception)				
faultcode	server			
faultString	submitWarrant method failed			
Outcome	No action will be taken other than the generation of this SOAP fault			

### 2.3.3 getWarrantStatus

getWarrantStatus is the Web Service operation invoked to obtain the status of a previously submitted Warrant. Authentication against the Government Gateway is required for this operation; therefore it is mandatory for the SOAP header to include the Web Service Security element (see 2.2.1).

operation	getWarrantStatus			
parameters	name	style	type	location
	request	in	xsd:string ATWDWarrantStatusRequest	body
return-param	name		type	location
	response		xsd:string ATWDWarrantStatusResponse	body
<b>Error conditions</b> (raised as a SOAPFaultException exception)				
faultcode	server			
faultString	getWarrantStatus method failed			
Outcome	No action will be taken other than the generation of this SOAP fault			

## 3 Error Handling

### 3.1 Overview

There are three types of error that can occur when using the system. These are:

1. XML validation errors
2. Business validation errors
3. System errors

The following sections detail these errors.

### 3.2 XML Validation Errors

These errors are returned as a SOAP fault, e.g.:

```

...
<faultcode>env:Server</faultcode>
<faultstring>Exception during processing:
weblogic.xml.schema.binding.DeserializationException:
Line: 36 Column: 31, S012 - Element "taxType" with value "440" must be unique
within /LiabilityDetails/Alcohol
Line: 44 Column: 52, S020 - Element "OtherAlcoholProduct" has a non-unique
"xs:id" value "ID000001" for attribute "nillVATlink". This must be unique.
Line: 45 Column: 31, S012 - Element "taxType" with value "211" must be unique
within /LiabilityDetails/Alcohol
Line: 49 Column: 42, S021 - Element "noneDue" has an unrecognised "xs:idref"
value "ID000009" for attribute "nillVATlink". This must refer to a previously
defined unique "xs:id" for "nillVATlink".
</faultstring>
...

```

Error Code	Error Text	Cause
S001	Element “name” with value “value” does not match pattern “pattern”	When the cdata for an element does not match the defined pattern in the xsd (xs:pattern)
S002	Element “name” with value “value”	When the cdata for an element does not exceed the minimum length

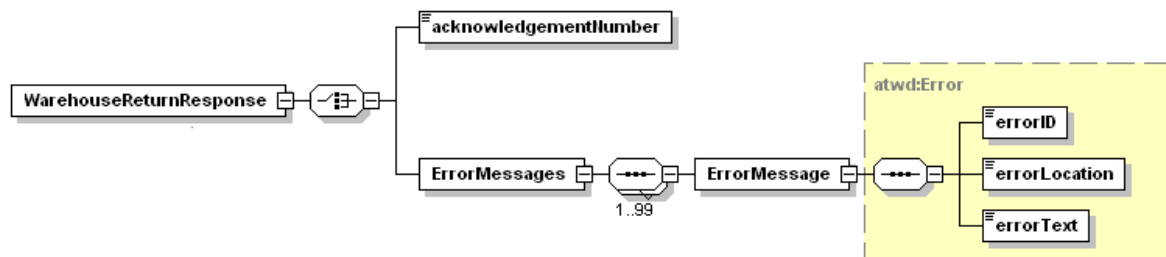
	should be at least N characters in length.	(xs:minLength)
S003	Element “name” with value “value” should be no more than N characters in length.	When the cdata for an element has exceeded the maximum length (xs:maxLength)
S004	Element “name” with value “value” should be exactly than N characters in length.	When the cdata for an element does not match the defined length (xs:length)
S005	Element “name” with value “value” can only be set to one of the following enumerations: A, B, C	When the cdata does not match any of the defined enumerations (xs:enumeration)
S006	Element “name” with value “value” must consist of no more than N digits	When the numer of digits has exceeded the total number of allowable digits (xs:totalDigits)
S007	Element “name” with value “value” must consist of no more than N fractional digits	When the number of fractional digits has exceeded the defined limit (xs:fractionDigits)
S008	Element “name” with value “value” cannot be less than N	When the cdata value is less than the defined limit (xs:minInclusive)
S009	Element “name” with value “value” cannot be less than or equal to N	When the cdata value is less than or equal to the defined limit (xs:minExclusive)
S010	Element “name” with value “value” cannot be greater than N	When the cdata value is greater than the defined limit (xs:maxInclusive)
S011	Element “name” with value “value” cannot be greater than or equal to N	When the cdata value is greater than or equal to the defined limit (xs:maxExclusive)
S012	Element “name” with value “value” must be unique within XPATH	When a unique constraint as defined by (xs:unique) has been violated.
S013	Element “name” is not recognised	When the named element is not recognised by the parser
S014	Element “name” with value “value” is not a valid TYPE	When the cdata associated with the element is incompatible with the defined type in the xsd.
S015	Element “name” can be included here no more than N times	When the element has been repeated too many times (xs:maxOccurs)
S016	Element “name” should contain the following child elements: A, B, C	When a complex element has not included all the elements defined in the sequence (xs:sequence)
S017	Element “name” cannot be included with any other element in the following list: A,	When more than one element has been

	B, C	defined within a choice (xs:choice)
S018	Element “name” must follow A, B, C	When the position of the named element does not match the defined sequence (xs:sequence)
S019	Element “name” cannot be repeated in this position	When an element has been repeated and the schema has constrained the XML to contain only one.
S020	Element “name” has a non-unique “xs:id” value “value” for attribute “attribute” this must be unique.	When more than one element has a non-unique attribute value constrained by xs:id.
S021	Element “name” has an unrecognised “xs:idref” value “value” for attribute “attribute” This must refer to a previously defined unique "xs:id" for "attribute".	When the value of an attribute constrained by xs:idref does not match any of the corresponding unique ids.
S022	Element “name” does not have a required attribute with name “attribute”	When an element does not have an attribute defined for it when the schema has defined it to be required (xs:attribute use=”required”)
S023	Element “name” should contain no more than N occurrences of the following child elements: A, B, C	When the schema has defined a sequence of choice with a maxOccurs constraint and the number of elements have exceeded that value (maxOccurs)
S024	Element “name” namespace URI with value “uri” does not match the expected value “expected uri”.	When the namespace uri defined in the XML does not match that of the schema.
S025	Element “name” does not define a namespace attribute. Expected xmlns=”uri”	When no namespace is defined in the XML.
S026	Element “name” is not recognised as a valid root element.	When the root element doesn’t match the schema.
S027	Element “name” cannot be used here. It is not defined in the sequence : A, B, C	When the named element is not part of the defined sequence.
S028	Element “name” cannot be used here. It is not defined in the choice : A, B, C	When the named element is not part of the defined choice.
S029	“cdata” character data is unexpected.	When the validator has encountered unexpected character data.

### 3.3 Business Validation Errors

These types of errors will be listed in the response message returned by a web service operation.

#### 3.3.1 submitW1Declaration



The errorLocation element is an algorithmic value for the source of the error in the submitted message. It is of the form

`<errorLocation> XPath </errorLocation>`

Values for errorID and errorText are listed in the following table.

errorID	errorText	Cause
1002	Date entered must be at least 2 months before today's date.	Date of dispatch on an AAD Line is less than 2 months old.
1003	Date entered must be at least 21 days before today's date.	Date of dispatch on an W8 Outstanding Line is less than 21 days old.
1011	System calculated closing stock is '@@'. Check figures entered are correct.	The values entered for a commodity type do not balance.
1016	This month's @@ opening stock does not match last month's closing stock, which is '@@'. Please check figures.	Opening balances for a commodity type do not agree with the closing balances of the previous period.
1017	@@ does not exist.	A value is found not to exist when validated (e.g. destination warehouse code not found).
1020	Owner registration number is not found.	When the owner reference does not exist.
1021	@@ is not current.	The warehouse code specified for the Outstanding W8 is not current.
1025	Warehouse information is not current.	The declaration period is within the effective/ineffective dates for the warehouse.
1027	Duty value must not be equal to zero.	If the duty line element contains zero for an AAD Outstanding, W8 Outstanding, or Returned Shortage W8.
1028	You have entered £0.00 has this been approved?	If the duty line element contains zero for a Returned Shortage AAD.

1029	You have not been registered for this commodity type.	The user is not authorised to submit products of the specified type (e.g. whisky)
1030	The warehouse type has not been approved for this movement of @@ goods	The warehouse type has not been approved for an entered regime type (e.g. Alcohol)
1031	The warehouse type @@ is not authorised for this commodity type	When warehouse type (e,g, gsd) is not authorised for this commodity type (e.g. beer).
1032	The Period From Date does not match that of the next open period	Unable to locate a time period matching the provided period start date.
1033	Declaration for time period @@ - @@ already submitted	When attempting to submit a Declaration that has already been submitted.
1034	The period is not open	Period end date of the declaration date is greater than current date.
1035	No match has been found on the system for the Discharged AAD based upon Reference Number and Date of Dispatch	The AAD which is being discharged in this declaration does not exist.
1036	The Period End Date is invalid	The period end date is invalid for the period start date submitted.
1037	A declaration saved via the paper channel cannot be submitted via the XML channel	The declaration already exists and was last updated by an HMRC internal user.
1038	This Reference Number and Date of Dispatch has appeared before on this W1 Return.	Duplicate AADs present in the declaration (where a duplicate is identified by the reference number AND dispatch entries).
1039	New Owner has appeared before on this W1 Return.	A duplicate owner reference has been submitted in the new owners list.
1040	Ceasing Owner has appeared before on this W1 Return.	A duplicate owner reference has been submitted in the ceased owners list.

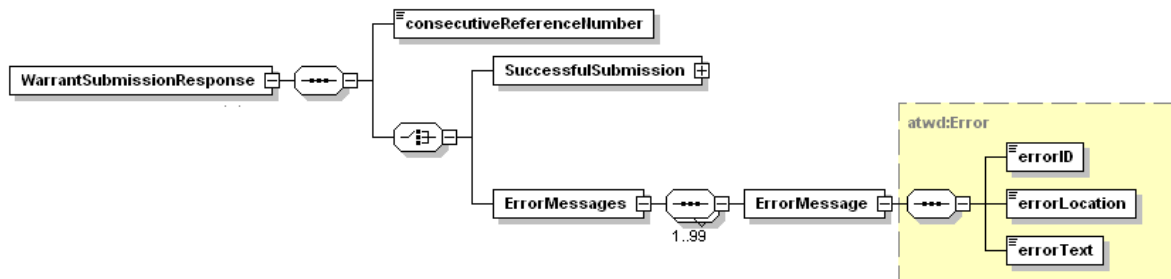
**Table 1 : Declaration error codes**

Values for errorLocation are as follows:

errorID	XPath
1002	/WarehouseReturn/OutstandingAADs/OutstandingAAD[n]/AADLine/dateOfDispatch
1003	/WarehouseReturn/OutstandingW8s/OutstandingW8[n]/W8Line/dateOfDispatch
1011	/WarehouseReturn/Products/Alcohol[0]/PeriodClosingStock/Quantity/cases /WarehouseReturn/Products/Alcohol[0]/PeriodClosingStock/Quantity/casks /WarehouseReturn/Products/Alcohol[0]/PeriodClosingStock/Quantity
1016	/WarehouseReturn/Products/Alcohol[2]/PeriodOpeningStock/Quantity /WarehouseReturn/Products/Alcohol[2]/PeriodOpeningStock/Quantity/cases /WarehouseReturn/Products/Alcohol[2]/PeriodOpeningStock/Quantity/casks
1017	/WarehouseReturn/ReturnedShortageW8s/ReturnedShortageW8[n]/W8Line/destinationWarehouseCode
1020	/WarehouseReturn/ChangedOwners/newOwner /WarehouseReturn/ChangedOwners/ceased
1021	/WarehouseReturn/OutstandingW8s/OutstandingW8[n]/W8Line/destinationWarehouseCode
1025	/WarehouseReturn
1027	/WarehouseReturn/OutstandingW8s/OutstandingW8[n]/W8Line/duty /WarehouseReturn/ReturnedShortageW8s/ReturnedShortageW8[n]/W8Line/duty /WarehouseReturn/OutstandingAADs/OutstandingAAD[n]/AADLine/duty
1028	/WarehouseReturn/ReturnedShortageAADs/ReturnedShortageAAD[n]/AADLine/duty
1029	/WarehouseReturn/Products/Alcohol[n]
1030	/WarehouseReturn
1031	/WarehouseReturn/Products/Alcohol[n] /WarehouseReturn/Products/Tobacco/Cigarettes /WarehouseReturn/Products/Tobacco/OtherTobacco
1032	/WarehouseReturn/periodStartDate
1033	/WarehouseReturn
1034	/WarehouseReturn/periodEndDate
1035	/WarehouseReturn/DischargedAADs/DischargedAAD[n]
1036	/WarehouseReturn/periodEndDate
1037	/WarehouseReturn
1038	/WarehouseReturn
1039	/WarehouseReturn/ChangedOwners/newOwner
1040	/WarehouseReturn/ChangedOwners/ceased

**Table 2 : Declaration error locations**

### 3.3.2 submitWarrant



The errorLocation element is an algorithmic value for the source of the error in the submitted message. It is of the form

```
<errorLocation>XPath</errorLocation>
```

Values for errorID and errorText are listed in the following table.

errorID	errorText	Cause
2003	'@@' cannot be a future date.	When 'date received', 'date from' or 'date to' are specified as future dates
2005	Please Check that the Date entered is from the last 40 days and is correct.	date from' is older than 40 days
2006	The warrant must not span two deferment periods.	When the 'date to' is after the period end date for that deferment period
2007	"'@@' must not be before '@@'.	When 'date to' is before 'date from'
2009	You cannot submit a warrant outside of the deferment period. Please change this warrant to a Remittance Warrant, and pay duty and vat due immediately	When today is after the (deferment period cut off day + 1 day)

2018	Please provide the processing unit with a letter of authorisation from the Deferment Account holder allowing for the clearance of W5D / W6D warrants using prefix B - temporary authority.	When a deferment is sent with a deferment number prefix of "B"
2024	A Value greater than zero must be entered for a duty line.	When the duty line quantity has been set to zero.
2025	Tax Rate must be entered for this Tax Type.	When tax rate has not been specified (or is 0) for a tax type that needs it
2026	The rate of duty entered must be within the valid range (@@ and @@).	When tax rate is not in the valid range
2029	This tax type requires both a Quantity and Retail Value to be entered.	When the tax type requires both a quantity and retail value to be entered
2036	Value for VAT must be greater than zero.	When the value for vat is 0
2037	There has been a duty rate change on the '@@', you must submit separate warrants when a change in duty rate occurs.	When a duty rate change has been made with an effective date between dateFrom / dateTo of the deferment
2038	There has been a VAT rate change on the '@@', you must submit separate warrants when a change in VAT rate occurs.	When a VAT rate change has been made with an effective date between dateFrom / dateTo of the deferment
2039	Warehouse code has been withdrawn.	When the warehouse could not be found matching the warehouse id
2040	This Consecutive Reference Number has been used before for this Declarant/Warehouse, in the same time period.	When the CRN has been used in the same time period (i.e. duplicate CRN)
2042	A Rejected Warrant exists with the same CRN already.	When a rejected warrant can be found with a matching CRN
2043	The Declarant Registration Number has been withdrawn.	When the registration number of the declarant could not be located.
2044	The Declarant Registration Number should be that of the Warehouse or the Authorised Warehousekeeper.	When a deferment has been submitted and the declarant is neither the warehouse or warehouse keeper.

2045	The Declarant Registration Number should be that of the Warehouse, the Authorised Warehousekeeper or the Proprietor.	When the declaration registration number is neither the warehouse, warehouse keeper nor proprietor for a remittance.
2049	Enter a valid Proprietor Registration Number. This is typically in the format of GBOG123456789 where the number is the Proprietor's VAT number.	When the proprietor registration number (WOWGR Registered) could not be located
2050	This VAT Registration Number cannot be classified as 'NON-WOWGR'.	When the VRN matches the VRN of a WOWGR-registered proprietor
2051	This VAT Registration Number is invalid.	When the VRN is not recognised to be a valid VRN for NON-WOWGR VAT Registered.
2052	The Proprietor Registration Number has been withdrawn.	When the proprietor is NOT the warehouse keeper and the registration number cannot be located.
2056	Tax type @@ is not recognised.	When the specified tax type is not recognised in the database.
2057	Tax type @@ can only be used for tobacco duty lines.	When the specified tax type has been included on an alcohol duty line and is only applicable for tobacco.
2057	Tax type @@ can only be used for alcohol duty lines.	When the specified tax type has been included on a tobacco duty line and is only applicable for alcohol.
2058	Warehouse GB@@ not found.	When the warehouse could not be found matching the warehouse id
2060	No tax rates could be found for DD/MM/YYYY.	When no tax rates could be found for the specified fromDate of the submission
2061	No VAT rate could be found for DD/MM/YYYY.	When no tax rates could be found for the specified fromDate of the submission
2064	Tax type @@ can only be used for @@ duty lines	When a variable rate tax type has been used on an OtherAlcoholProducts duty line or a fixed rate tax type has been used on a SmallBeer duty line
2065	The following characters cannot be used in this field and should be removed or amended: @@	When the proprietor name or address line fields contain characters that do not conform to the EDIFACT Level B Character Set

2066	This Consecutive Reference Number has been used before for this Warehouse, in the same time period.	When the CRN has been used in the same time period (i.e. duplicate CRN).
------	---	--

**Table 3 : Warrant error codes**

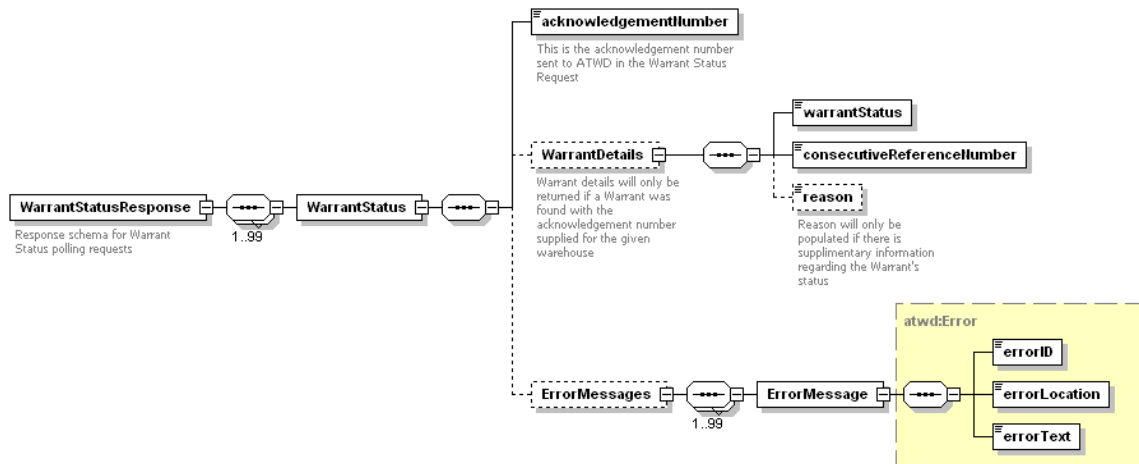
Values for errorLocation are as follows:

errorID	XPath
2003	/WarrantSubmission/DeclarationDetails/fromDate /WarrantSubmission/DeclarationDetails/PaymentType/Deferment/toDate
2005	/WarrantSubmission/DeclarationDetails/fromDate
2006	/WarrantSubmission/DeclarationDetails/PaymentType/Deferment/toDate
2007	/WarrantSubmission/DeclarationDetails/PaymentType/Deferment/toDate
2009	/WarrantSubmission/DeclarationDetails/PaymentType/Deferment/toDate
2018	/WarrantSubmission/DeclarationDetails/PaymentType/Deferment/dan
2024	/WarrantSubmission/LiabilityDetails/Alcohol/SmallBeer[i]/volume /WarrantSubmission/LiabilityDetails/Alcohol/OtherAlcholProduct[i]/volume /WarrantSubmission/LiabilityDetails/Tobacco/cigarettes[i]/quantity1000s /WarrantSubmission/LiabilityDetails/Tobacco/OtherTobaccoProduct[i]/kilos
2025	/WarrantSubmission/LiabilityDetails/Alcohol/SmallBeer[i]/rateOfDuty
2026	/WarrantSubmission/LiabilityDetails/Alcohol/SmallBeer[i]/rateOfDuty
2029	/WarrantSubmission/LiabilityDetails/Tobacco/cigarettes[i]/quantity1000s
2036	/WarrantSubmission/LiabilityDetails/Alcohol/VAT/StandardRate/valueForVAT /WarrantSubmission/LiabilityDetails/Tobacco/VAT/StandardRate/valueForVAT
2037	/WarrantSubmission/LiabilityDetails/Alcohol/SmallBeer[i]/taxType /WarrantSubmission/LiabilityDetails/Alcohol/OtherAlcholProduct[i]/taxType /WarrantSubmission/LiabilityDetails/Tobacco/Cigarettes[i] /WarrantSubmission/LiabilityDetails/Tobacco/OtherTobaccoProduct[i]/taxType
2038	/WarrantSubmission/LiabilityDetails/Alcohol/VAT/StandardRate/valueForVAT /WarrantSubmission/LiabilityDetails/Tobacco/VAT/StandardRate/valueForVAT
2039	/WarrantSubmission/warehouseID
2040	/WarrantSubmission/DeclarationDetails/consecutiveReferenceNumber
2042	/WarrantSubmission/DeclarationDetails/consecutiveReferenceNumber
2043	/WarrantSubmission/DeclarationDetails/DeclarantDetails
2044	/WarrantSubmission/DeclarationDetails/DeclarantDetails
2045	/WarrantSubmission/DeclarationDetails/DeclarantDetails
2049	/WarrantSubmission/DeclarationDetails/ProprietorDetails/WOWGRRegistered/wowgr RegistrationNumber
2050	/WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistere d/vatRegistrationNumber
2051	/WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistere d/vatRegistrationNumber

2052	/WarrantSubmission/DeclarationDetails/ProprietorDetails/WOWGRRegistered/wowgrRegistrationNumber
2056	/WarrantSubmission/LiabilityDetails/Alcohol/SmallBeer[i]/taxType /WarrantSubmission/LiabilityDetails/Alcohol/OtherAlcoholProduct[i]/taxType /WarrantSubmission/LiabilityDetails/Tobacco/OtherTobaccoProduct[i]/taxType
2057	/WarrantSubmission/LiabilityDetails/Alcohol/SmallBeer[i]/taxType /WarrantSubmission/LiabilityDetails/Alcohol/OtherAlcoholProduct[i]/taxType
2057	/WarrantSubmission/LiabilityDetails/Tobacco/OtherTobaccoProduct[i]/taxType
2058	/WarrantSubmission/warehouseID
2060	/WarrantSubmission/DeclarationDetails/fromDate
2061	/WarrantSubmission/DeclarationDetails/fromDate
2064	/WarrantSubmission/LiabilityDetails/Alcohol/SmallBeer[i]/taxType /WarrantSubmission/LiabilityDetails/Alcohol/OtherAlcoholProduct[i]/taxType
2065	/WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistered/NameAndAddress/name /WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistered/NameAndAddress/addressLine1 /WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistered/NameAndAddress/addressLine2 /WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistered/NameAndAddress/addressLine3 /WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistered/NameAndAddress/addressLine4 /WarrantSubmission/DeclarationDetails/ProprietorDetails/NonWOWGRVATRegistered/NameAndAddress/addressLine5 /WarrantSubmission/DeclarationDetails/ProprietorDetails/Unregistered/NameAndAddress/name /WarrantSubmission/DeclarationDetails/ProprietorDetails/Unregistered/NameAndAddress/addressLine1 /WarrantSubmission/DeclarationDetails/ProprietorDetails/Unregistered/NameAndAddress/addressLine2 /WarrantSubmission/DeclarationDetails/ProprietorDetails/Unregistered/NameAndAddress/addressLine3 /WarrantSubmission/DeclarationDetails/ProprietorDetails/Unregistered/NameAndAddress/addressLine4 /WarrantSubmission/DeclarationDetails/ProprietorDetails/Unregistered/NameAndAddress/addressLine5
2066	/WarrantSubmission/DeclarationDetails/consecutiveReferenceNumber

**Table 4 : Warrant error locations**

### 3.3.3 getWarrantStatus



The following codes can be returned:

Code	errorText	errorLocation
2062	Invalid acknowledgement number	WarrantStatusRequest/acknowledgementNumber

**Table 5 : Warrant status error codes**

### 3.4 System errors

These are caused by an unexpected system error. A typical SOAP response will be:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <env:Body>
    <env:Fault xmlns:fault="http://schemas.xmlsoap.org/soap/envelope/">
      <faultcode>fault:Server</faultcode>
      <faultstring>Service unavailable</faultstring>
      <faultactor>http://webservices.hmrc.gov.uk/ws/atwd/02102007/submitW1Declaration</faultactor>
    </env:Fault>
  </env:Body>
</env:Envelope>
```

## 4 Accessing the Service

### 4.1 Transport and Security

The service is accessible via SOAP/HTTP over an SSL v3.0 / TLS connection (“secure HTTP” or HTTPS) to ensure the confidentiality of requests and returned data. The ATWD XML Web Service is implemented using SOAP v1.1, which supports v1.1 SOAP clients.

Client authentication is based on Government Gateway credentials (userId and password). This should conform to the WS-Security (wsse) standards as detailed in ‘Web Services Security UsernameToken Profile 1.0, OASIS Standard 200401, March 2004’. Prior registration on the Government Gateway, thus obtaining a username and password combination, is required. Subsequent enrolment and activation of the ATWD XML Web Service is also necessary.

### 4.2 Location of service

The service is accessed via the following URL:

<https://webservices.hmrc.gov.uk/ws/atwd/service>

The WSDL for the service is located at

<https://webservices.hmrc.gov.uk/ws/atwd/service?WSDL>

### 4.3 Service restrictions

The following restrictions apply to the service:

Description	Value
userId / Password / warehouseID	The credentials of the Government Gateway registered warehouse user.
Max content length (bytes)	400,000
Max number of consecutive requests <sup>1</sup>	10 in any 5 minute period
Minimum consecutive request interval	10 seconds

<sup>1</sup> These restrictions are keyed by `userId` and `warehouseID` so requests for separate warehouses are controlled separately.

Exceeding these restrictions will result in a response of the form:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <env:Body>
    <env:Fault xmlns:fault="http://schemas.xmlsoap.org/soap/envelope/">
      <faultcode>fault:Server</faultcode>
      <faultstring>Consecutive requests can only be sent after 10 seconds.</faultstring>
      <faultactor>http://webservices.hmrc.gov.uk/ws/atwd/28022008/gateway</faultactor>
    </env:Fault>
  </env:Body>
</env:Envelope>
```

The actual error codes reported can be:

<b>faultcode</b>	<b>faultstring</b>	<b>faultactor</b>
fault:Server	Consecutive requests can only be sent after 10 seconds	<a href="http://webservices.hmrc.gov.uk/ws/atwd/28022008/gateway">http://webservices.hmrc.gov.uk/ws/atwd/28022008/gateway</a>
fault:Server	No more than 10 requests can be sent in a window of 300 seconds	<a href="http://webservices.hmrc.gov.uk/ws/atwd/28022008/gateway">http://webservices.hmrc.gov.uk/ws/atwd/28022008/gateway</a>
fault:Server	SOAP message content must not exceed 100000 bytes	<a href="http://webservices.hmrc.gov.uk/ws/atwd/28022008/gateway">http://webservices.hmrc.gov.uk/ws/atwd/28022008/gateway</a>
fault:FailedAuthentication	Authentication Failed: Invalid credentials	<a href="http://webservices.hmrc.gov.uk/ws/atwd/28022008/login">http://webservices.hmrc.gov.uk/ws/atwd/28022008/login</a>
fault:Server	Login failed for valid credentials.	<a href="http://webservices.hmrc.gov.uk/ws/atwd/28022008/login">http://webservices.hmrc.gov.uk/ws/atwd/28022008/login</a>
fault:Server	Service unavailable	<a href="http://webservices.hmrc.gov.uk/ws/atwd/28022008/login">http://webservices.hmrc.gov.uk/ws/atwd/28022008/login</a>
fault:Server	Unable to audit the submission request [audit component service is unavailable]	<a href="http://webservices.hmrc.gov.uk/ws/atwd/28022008/audit">http://webservices.hmrc.gov.uk/ws/atwd/28022008/audit</a>

## 5 TPVS

### 5.1 Overview

TPVS is a service provided to Third Party Suppliers to enable validation of their application against a test version of the ATWD XML Service.:

A limited number of scenarios are supported with a limited data set, which should give Third Party Suppliers a representative sample of possible responses that they may receive from the live ATWD XML service.

### 5.2 Accessing the test service

The service is available at:

<https://tpvs2.hmrc.gov.uk/ws/atwd/service?WSDL>

User credentials should be obtained from the SDS Team (see section 6 ).

### 5.3 Test scenarios

#### 5.3.1 submitW1Declaration

##### 5.3.1.1 Valid Warehouses

The following Warehouses are the only ones that can be used on the TPVS system:

Warehouse Code	Warehouse Name	Address	Postcode
GB000000000001	A WAREHOUSE	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GB000000000002	B WAREHOUSE	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GB000000000003	C WAREHOUSE	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GB000000000004	D WAREHOUSE	LINE1, LINE2, LINE3,	SS1 1AA

		LINE4, LINE5	
--	--	--------------	--

Warehouse Code	Effective From	Valid For W8	Current Warehouse
GB000000000001	01-01-2007	true	true
GB000000000002	01-01-2007	true	true
GB000000000003	01-01-2007	true	true
GB000000000004	01-01-2007	false	false

### 5.3.1.2 Period Tables

W1 periods are dynamically allocated in TPVS using the following algorithm :-

**Period Start Date:** Always the first day of the month

**Period End Date** Always the last day of the month

**Period Due Date** Always the 15<sup>th</sup> day of the month

### 5.3.1.3 Authorised Warehouses

The following table identifies commodity types that **are allowed** for all warehouses :-

Commodity Type Allowed
whisky
otherSpirits
wine
madeWine
cider
beer
lowAlcholBeverages
cigarettes
otherTobacco

### 5.3.1.4 Generating declaration errors

The following table provides hints on how to generate specific errors in TPVS (see also Table 1 : Declaration error codes):

errorID	Hint
1002	ensure that the dateOfDispatch element contains current date Notes:- 1025 warning is present whenever an error message is generated - it is a feature of the TPVS data.
1003	ensure that the dateOfDispatch element contains current date Notes:- 1025 warning is present whenever an error message is generated - it is a feature of the TPVS data.
1011	Ensure that the values for a commodity type (i.e. opening balances +/- adjustments + receipts - removals != closing balances)
1016	Cannot be tested in TPVS mode
1017	ensure that the destinationWarehouseCode element does not contain GB000000000000, GB000000000001, GB000000000002, GB000000000003, or GB000000000004 Notes:- This error is a warning so it is necessary to also generate an error in order to see it (in this case a 1003 was generated) 1025 warning is present whenever an error message is generated - it is a feature of the TPVS data.
1020	ensure that the newOwner element does not contain GB000000000000, GB000000000001, GB000000000002, GB000000000003, or GB000000000004
1021	ensure that the destinationWarehouseCode element contains GB000000000004 Notes:- 1021 is a warning, so it is necessary to also generate an error in order to see it (in this example 1027 was generated).
1025	generate any error message (example below generates a 1025) Notes:- 1025 is a warning, not an error. 1025 warning is present whenever an error message is generated - it is a feature of the TPVS data. The nature of the error/warnings generation mechanism is that warnings are only presented when an error is present in the response (otherwise it is a successful submission, and only the acknowledgement number is returned).
1027	ensure that the duty element contains zero Notes:- 1025 warning is present whenever an error message is generated - it is a feature of the TPVS data.
1028	ensure that the duty element contains zero Notes:- 1025 warning is present whenever an error message is generated - it is a feature of the TPVS data. As 1028 is only a warning it is necessary to also generate an error as well - in this example a 1002 was generated
1029	Submit Tobacco commodity type using this user/warehouse combination.
1030	Cannot be tested in TPVS mode

1031	Submit Tobacco commodity type - all TPVS warehouses are type GSD Notes:- Test data ensures that Tobacco is an invalid commodity type for warehouse type GSD
1032	Set periodStartDate to 2007-01-02
1033	Cannot be tested in TPVS mode
1034	Set periodEndDate to any date greater than current date
1035	Any DischargedAADs data will always generate a 1035 in TPVS mode
1036	Cannot be tested in TPVS mode
1037	Cannot be tested in TPVS mode
1038	ensure that duplicate AAD entries are made (duplicate fields referenceNumber AND dateOfDispatch)
1039	Repeat newOwner element with the same reference number
1040	Repeat ceasedOwner element with the same reference number

### 5.3.2 submitWarrant

#### 5.3.2.1 Valid Warehouses

The following Warehouses are the only ones that can be used on the TPVS system:

Warehouse Code	Warehouse Keeper's Number	Warehouse Keeper's TURN
GB000000000001	GBOG999251363	999251363
GB000000000002	GBOG999786605	999786605
GB000000000003	GBOG999113966	999113966
GB000000000004	GBOG999938707	999938707

Warehouse Code	Warehouse Name	Address	Postcode
GB000000000001	A WAREHOUSE	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GB000000000002	B WAREHOUSE	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GB000000000003	C WAREHOUSE	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GB000000000004	D WAREHOUSE	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA

#### 5.3.2.2 Owner of Goods (Proprietor)

The following Owner of Goods references are the only ones that are valid on the TPVS system.

Owner of Goods (Proprietor) WOWGR Reference	Name	Address	Postcode
GBOG999251363	AN OWNER	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GBOG999786605	AN OWNER	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GBOG999113966	AN OWNER	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA
GBOG999938707	AN OWNER	LINE1, LINE2, LINE3, LINE4, LINE5	SS1 1AA

### 5.3.2.3 Non WOWGR Trader VAT Registration Numbers

<b>VAT Number</b>
999136655
999383242
999582333
999566231
999556137
999094348
999716143
999865513
999892216
999926521
999442746
999936027
999654138
999432554
999977889
999878500
999195732
999245943
999212572

### 5.3.2.4 Tax Types

Tax Types, Rates and Units of Measure are available from the following HMRC web site:

[ATWD Budget 2010 rates](#)

### 5.3.2.5 Deferment Period

The deferment period is calculated dynamically based on the 'From Date' of the submission. The start date is always the 15<sup>th</sup> of the month.

If the day of the month of the 'From Date' is greater than the 15th, then month of the Deferment period is the same as the month in the 'From Date'. If the day of the month is before the 16<sup>th</sup>, then the month of the Deferment period is the month which precedes the month in the 'From Date'. The end date is always the 14<sup>th</sup> of the month following the Deferment period month. For example:

From Date 07/10/2007

Day of the month is the 7<sup>th</sup>, so the period is 15/09/2007 to 14/10/2007

From Date 23/10/2007

Day of the month is the 23<sup>rd</sup>, so the period is 15/10/2007 to 14/11/2007

The end of the Deferment grace period is four working days after the period end date. No account is taken of Bank Holidays.

### 5.3.2.6 Deferment Account Numbers

The following test Deferment Account Numbers (DANs) are recognised by the system :-

DAN	Description
9984195	When used in a W5D / W6D submission will always be approved in TPVS.
9984209	When used in a W5D / W6D submission will always be approved in TPVS.
9984217	When used in a W5D / W6D submission will always be approved in TPVS.
9984179	When used in a W5D / W6D submission will always be rejected in TPVS.
9984187	When used in a W5D / W6D submission will always be rejected in TPVS.

### 5.3.2.7 Generating warrant errors

The following table provides hints on how to generate specific errors in TPVS (see also Table 3 : Warrant error codes):

errorID	Hint
2003	Set fromDate to be 2099-11-25
2005	Set fromDate and toDate to be 2007-01-01 for a W5D / W6D submission

2006	Set fromDate to be 2007-01-01 and toDate to be 2007-01-17
2007	Set fromDate to be 2007-01-17 and toDate to be 2007-01-01
2009	Set fromDate to be 2007-01-01 and toDate to be 2007-01-12
2015	n/a
2016	n/a
2018	Include a deferment number with a prefix of "B" and force an error by setting the volume to be 0.00
2024	Set the volume to be 0.00 for one of the duty lines
2025	Set the rate of duty for a SmallBeer entry to 0.0000
2026	Set the rate of duty for a SmallBeer tax code 440 to 100.0000
2029	Not reproducible in TPVS
2035	n/a
2036	Set the valueForVAT to be 0.00
2037	Not reproducible in TPVS
2038	Not reproducible in TPVS
2039	Not reproducible in TPVS
2040	Make a submission with the CRN set to 7100501
2042	Make a submission with the CRN set to 7100601
2043	Not reproducible in TPVS
2044	Set the DeclarantDetails to be the proprietor
2045	Not reproducible in TPVS
2046	Not reproducible in TPVS
2048	n/a
2049	Set the WOWGR Registration number to be GB0G000000001
2050	Set the vatRegistrationNumber for NonWOWGRVATRegistered to be 999251363
2051	Set the vatRegistrationNumber for NonWOWGRVATRegistered to be 999999999
2052	Not reproducible in TPVS
2055	n/a
2056	Set taxType to be 999
2057	Set taxType to be 615 for OtherAlcoholProduct
2057	Set taxType to be 411 for OtherTobaccoProducts
2058	Set the warehouseID to be GB00000000005
2060	Not reproducible in TPVS
2061	Not reproducible in TPVS
2062	Make a warrant status request with W5-000000001 as the acknowledgement number
2063	Submit a W5D / W6D using either test DAN 9984179 or 9984187. Perform <u>two</u> status requests using the returned acknowledgement number. (First request should return PENDING, the second one should be REJECTED)

2064	Submit a W5 with a <code>VariableRateAlcoholProduct</code> entry using 411 as the tax type or Submit a W5 with an <code>OtherAlcoholProduct</code> entry using 440 as the tax type
2065	Insert one or more illegal characters to any of the name and address lines for a Non-WOWGR VAT Registered or unregistered proprietor.

### 5.3.3 `getWarrantStatus`

Successful warrant submissions in **TPVS** will be allocated a unique acknowledgement number. This number can be used in a subsequent warrant status request as follows :-

- The first warrant status request for a valid acknowledgement number will return a status of **pending**.
- A second warrant status request for the same acknowledgement number will return a status of **approved**.
- A third warrant status request for the same acknowledgement number will return an error indicating that the acknowledgement number is no longer recognised. This behaviour is specific to the TPVS environment (i.e. in the test environment, an acknowledgement number is only remembered for two separate warrant status requests).
- Warrant status requests must only be made against an acknowledgement number within 1 day of it being created. This behaviour is also specific to TPVS (i.e. in the test environment, an acknowledgement number is purged after 1 day).

#### 5.3.3.1 *Valid Warehouse Codes*

The table below shows the valid Warehouse codes that can be used with the TPVS system

<b>Warehouse Code</b>
GB000000000001
GB000000000002
GB000000000003
GB000000000004

#### 5.3.3.2 *Valid Acknowledgement Numbers*

A successful warrant submission will return an acknowledgement number which can be used for warrant status requests. More details on the behaviour of this in TPVS can be found in section 5.3.3.

#### 5.3.3.3 *Invalid Acknowledgment Numbers*

The table below shows the response the ATWD TPVS system will return to simulate querying a non existent Warrant.

Acknowledgement Number	Error ID	Error Location	Error Text
W5-800000001	2062		Invalid acknowledgement number W5-800000001
W6-800000002	2062		Invalid acknowledgement number W5-800000001
W5D-800000003	2062		Invalid acknowledgement number W5-800000001
W6D-800000004	2062		Invalid acknowledgement number W5-800000001

### 5.3.3.4 *nilVATlink*

The **nilVATlink** attribute is used specifically for remittance and deferment warrant (W5/W6/W5D/W6D) submissions and must have a unique value defined for the following elements included in the XML :-

- **<VariableRateAlcoholProduct>** (used for **W5/W5D** submissions)
- **<OtherAlcoholProduct>** (used for **W5/W5D** submissions)
- **<Cigarettes>** (used for **W6/W6D** submissions)
- **<OtherTobaccoProducts>** (used for **W6/W6D** submissions)

If the submission also includes **<Acquisition>** or **<noneDue> VATLine**, then these elements will also need to contain a **nilVATlink** attribute with a value which matches any one of the unique **nilVATlink** values defined in the liability elements above.

This is best explained by example :-

#### **Example 1**

Warrant submission with acquisition vat :-

```

<OtherAlcoholProduct nilVATlink="ID000220">
  <taxType>483</taxType>
  <volume>200.00</volume>
</OtherAlcoholProduct>
<OtherAlcoholProduct nilVATlink="ID000230">
  <taxType>485</taxType>
  <volume>200.00</volume>
</OtherAlcoholProduct>
<VAT>
  <Acquisition nilVATlink="ID000230">
    <valueForVAT>50.00</valueForVAT>
  </Acquisition>
</VAT>

```

## **Example 2**

Warrant submission with no vat :-

```
<OtherAlcoholProduct nillVATlink="ID000220">
  <taxType>483</taxType>
  <volume>200.00</volume>
</OtherAlcoholProduct>
<OtherAlcoholProduct nillVATlink="ID000230">
  <taxType>485</taxType>
  <volume>200.00</volume>
</OtherAlcoholProduct>
<VAT>
  <noneDue nillVATlink="ID000230"/>
</VAT>
```

## **Example 3**

Warrant submission with standard rate vat -

```
<OtherAlcoholProduct nillVATlink="ID000220">
  <taxType>483</taxType>
  <volume>200.00</volume>
</OtherAlcoholProduct>
<OtherAlcoholProduct nillVATlink="ID000230">
  <taxType>485</taxType>
  <volume>200.00</volume>
</OtherAlcoholProduct>
<VAT>
  <StandardRate>
    <valueForVAT>50.00</valueForVAT>
  </StandardRate>
</VAT>
```

**Note:** nillVATlink attribute not required on the <StandardRate> element.

## 6 Support

### Contact Points and Level of Support Provided

The SDS Team is the main point of contact within HM Revenue and Customs during the development and testing of your product. We provide the following services to software developers:

- issuing vendor IDs and testing credentials
- dealing with enquiries relating to the schema and validation rules
- provide feedback/advice during testing
- assistance with product recognition

The SDS Team can be contacted Monday to Friday 09:00 – 17:00 :

Tel: 01274 534666

e-mail: [sdsteam@hmrc.gsi.gov.uk](mailto:sdsteam@hmrc.gsi.gov.uk).

Online service software development details will be found at:

[http://www.hmrc.gov.uk/ebu/softw\\_index.htm](http://www.hmrc.gov.uk/ebu/softw_index.htm)

## Appendix 1 XML schemas

### Introduction

The ATWD schemas define a standard structure for XML data describing the details of Warehouse Declarations (W1) and Warrants (W5, W5D, W6, W6D), status requests and system responses.

There are six schemas as follows:

ATWDWarehouseReturn	Schema defines XML format for submitting a W1 declaration to ATWD.
ATWDWarehouseReturnResponse	Schema defines the XML format for the response to the W1 submission.
ATWDWarrantSubmission	Schema defines XML format for submitting a warrant (W5, W5D, W6, W6D) to ATWD.
ATWDWarrantSubmissionResponse	Schema defines the XML format for the response to a Warrant submission.
ATWDWarrantStatusRequest	Schema defines the XML format for a request for the status of a Warrant submission.
ATWDWarrantStatusResponse	Schema defines the XML format for the response to a warrant status request.

The following schema is referenced (imported) by these schemas:

ATWDTypeDefinitions	Schema defines the element types used by the six schemas.
---------------------	---

Schemas and sample data are available at [http://www.hmrc.gov.uk/ebu/softw\\_index.htm](http://www.hmrc.gov.uk/ebu/softw_index.htm)

## Appendix 2 Character set

The following table define the permissible character set (EDIFACT Level B):

Letters, upper case	A to Z
Letters, lower case	a to z
Numerals	0 to 9
Space character	
Full stop	.
Comma	,
Hyphen/minus sign	-
Opening parentheses	(
Closing parentheses	)
Oblique stroke (slash)	/
Apostrophe	'
Plus sign	+
Colon	:
Equals sign	=
Question mark	?
Exclamation mark	!
Quotation mark	"
Percentage sign	%
Ampersand	&
Asterisk	*
Semi-colon	;
Less-than sign	<
Greater-than sign	>

**Appendix 3** Document History

<b>Version No.</b>	<b>Date</b>	<b>Details</b>	<b>Author(s)</b>
1.8	Feb 2010	5.3.2.4 Tax Types Rates Table replaced with reference to published rates.	Andy Eltis
1.9	July 2010	5.3.2.4 Link updated	Andy Eltis