CSP CDS Interface Specification

Customs Declaration API

Version 1.0.3

MCP plc
Port Community Systems

CNSI

Customs Declaration API

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2. Version Control

Date	Version	Reason	Author
February 2020	1.0.0	Document released	MCP/CNS
May 2020	1.0.1	Change reason for blank amendment revised by HMRC	MCP/CNS
June 2020	1.0.2	Add optional X-Submitter-Identifier request header to pass EORI	MCP/CNS
September 2024	1.0.3	Updated with Exports information	MCP

3. Overview

The Customs Declaration API allows the submission of any UCC declarations or additional messages, import and export, for asynchronous processing by a CSP and onwards transmission to HMRC's customs declarations service (CDS).

The CSP will validate the request against the DMS XSD schema as well as validating the X-Badge-ID and user authentication/authorization is correct. The CSP will then either respond with an appropriate error response or return a HTTP 202 accepted to confirm receipt of the request with the CSPs system.

The declaration will be asynchronously submitted to the inventory system for pre-checking where required and then onwards to the government gateway and DMS. All responses, including responses from the government gateway will be returned to the end user asynchronously via the new notification service.

All responses after the initial acceptance will be returned asynchronously using the notifications push or pull mechanism (based on the option chosen by the submitter). Multiple responses may be returned asynchronously for a single declaration submission. An Individual CSP may offer alternative mechanisms for sending out notifications but these will not be universally supported.

The API takes any UCC declaration payload.

Please see the end of this document for standard guidelines on versioning, error handling and base URL endpoints.

This API is based on the Customs Declarations API provided by HMRC's multi-digital tax platform (MDTP). Version numbers and message body content should follow the guidelines provided by HMRC on their developer hub.

https://test-developer.service.hmrc.gov.uk/api-documentation/docs/api/service/customs-declarations/

For exports, software vendors should send consolidation messages EAC (associate) and CST (shut) directly to the HMRC CDS Export Inventory Linking API. Alternatively, software vendor users who are customers of Destin8 can use on-screen transactions as required.

Notification

A CSP will receive notification responses from DMS for any declaration submitted via that CSP. The CSP will then use the returned headers which contain the badge under which the declaration was originally submitted to determine the original submitter. The CSP will not correlate this notification with the original created declaration or any subsequent amendments or cancellations that may have altered the declaration in DMS.

It is recommended that the software house makes use of the FunctionalReferenceID to relate notifications to the declarations in their systems. The FunctionalReferenceID should contain the LRN (Data Element 2/5). HMRC have not determined a format for the LRN other than it should be a maximum of 22 alpha-numeric characters and must be unique to the trader and usually provided by the software. The LRN must be unique, within DMS, per submitter, for each successfully created declaration within DMS, so a rejected submission can be re-sent with the same LRN. The uniqueness is not in regards to the CSP or mechanism by which the declaration is submitted and must be kept unique across all such methods of submitting a declaration. Note the functional reference is unique during creation and does not change for amendments and cancellations of the same declaration.

Notifications from DMS are intended as a replacement for both the CUSRES and CHIEF print EDIFACT message. There is not a direct one-to-one mapping between DMS notifications. The following has been taken from the document "CDS 03 CDS Declaration Submission Service Design Imports" and shows the DMS notifications as the mapping to the CHIEF equivalent:

DMS Code	Notification Type	Description	Sub-process Found	Mapping to CHIEF Equivalent
01	DMSACC	With this message the submitter is informed that the declaration has been legally accepted	Validate Declaration	Contained within E2 and X2
02	DMSRCV	With this message the submitter is informed that the message has been registered. This can apply to pre-lodged declarations as well as additional messages.	Validate Declaration	H2/P2
03	DMSREJ	With this message the submitter is informed that the received message has been rejected. This can apply to declarations and additional messages.	Validate Declaration	Cancellation Refusal: N3/S3
05	DMSCTL	This message informs the submitter that Customs intends to physically examine the goods. This will only be received when the goods are on hand.	Initiate Control	E1 (Imports) / X1 (Exports)
06	DMSDOC	This message informs the submitter that the declarant needs to present one or more documents related to the declaration.	Perform Control	Contained within E2 and X2
07	DMSRES	The submitter is informed that corrections have been applied to the declaration by the trader, or as a result of physical inspection by customs.	Clear Declaration	N/A
08	DMSROG	This message informs the submitter that the goods can now be released. Note that this is different to clearance as it implies that the debt calculated is not yet finalised.	Clear Declaration	Currently implied by N5 / IVL notification
09	DMSCLE	This message informs the submitter that the declaration is now cleared, and by implication, the goods can be released.	Clear Declaration	Contained in N5 report if non-inventory linked. If inventory linked, trader will receive a notification from the inventory system.
10	DMSINV	This message informs the submitter that the declaration has now been cancelled. This can be as a result of a trader-initiated invalidation, or system-initiated.	Invalidate Declaration	Cancellation Approval: N4/S4 Goods Disposal Advice: S9
11	DMSREQ	With this message the submitter is informed of the acceptance or denial of the additional message submitted to customs. In the case of a denial, the reason is indicated.	Handle Additional Message	N3/S3, N4/S4
13	DMSTAX	The submitter is informed of the duties liable with this message. It can either inform on what has been reserved against a deferment account or similar method of payment. Alternatively, it can be used as a payment instruction for immediate methods of payment. In the immediate payment scenario, a payment reference is also provided.	Handle Customs Debt	Contained within E2 and X2
14	DMSCPI	This message informs the submitter of the insufficient balance against a deferred method of payment. The relevant financial party will need to	Handle Customs Debt	E9 and X9

DMS Code	Notification Type	Description	Sub-process Found	Mapping to CHIEF Equivalent
		take action to rectify the situation before the goods can be released.		
15	DMSCPR	This message is a reminder regarding the need to take action on the insufficient balance against a deferred method of payment. It can also be used as a reminder to make an immediate payment.	Handle Customs Debt	N/A
16	DMSEOG	EXPORTS ONLY. The message informs the submitter that the goods have now exited the customs union.	Monitor After Release	Indicated by ECS via IE518
17	DMSEXT	This message informs the submitter that the declaration needs to be handled manually. Only used in exceptional circumstances where the system cannot handle the declaration.	Handle Irregularities	N/A
18	DMSGER	EXPORTS ONLY. This message informs the submitter that the exit results have not yet been received by the Export system. This could be a trigger to submit an alternative proof of exit.	Monitor After Release	S0

There is currently no requirement in CDS to produce or retain plain-text versions of DMS notifications. Therefore, at present the CSPs will not be producing any plain-text reports for CDS for declarations submitted via a software house. Please refer any business requirement impacts from this decision to HMRC.

4. API Overview

The APIs in this document are intended to relate to similar customs API's available on HMRC developer hub. Currently the only supported API's are for submitting, cancelling or amending customs declarations. Submission of a Goods Presentation message is also in scope for the customs declaration API.

5. Submit/Cancel/Amend a Customs Declaration

These methods allow for the submission of a new customs declaration or to cancel/amend a previously submitted declaration.

They correspond to the /customs/declarations, /customs/declarations/cancellation-requests and /customs/declarations/amend API's on the HMRC developer hub.

The primary changes from the developer hub are: That the Authorization header will now require the user credential held by the CSP; and the addition of an X-Badge-ID header that should contain the badge the CSP should use to submit the declaration to CDS.

The badge will need to be linked in HMRCs system to an EORI. Badges currently issued for CHIEF should be migrated by HMRC to link to the government gateway account associated with the EORI that it is currently linked to in CHIEF.

Http Method

`POST`

URL suffix

```
/cds/customs/declarations/
```

```
/cds/customs/declarations/cancellation-requests

/cds/customs/declarations/amend
```

Request Headers

Name	Value / Example	Description
Authorization required	Basic am9lYmxvZ2dzOnBhc3N3b3Jk	HTTP basic access authentication with value of the form `Basic <credentials>`, where credentials is the base64 encoding of username and password joined by a colon. Values for username and password are CSP specific
Accept required	application/vnd.hmrc.2.0+xml	Specifies the version of the API that you want to call. Aligned with HMRC versioning.
Content-Type required	application/xml application/xml; charset=utf-8	Specifies the format of the request body, which must be XML. UTF-8 is the only valid character set. Download schemas and example messages.
X-Badge-ID required	ABC	CSP assigned badge. This will match the CHIEF Agent Role for those who have already been issued with one.
User-Agent required	Vendor=Acme Software Vendor plc, Application=Your Application, Version=1.2.3, Badge=ABC, ClientID= A. B. Clearance Agents	See the User Agent section of the end of this document
X-Submitter-Identifier **Optional** (May become mandatory in later versions)	GB123456789012	Submitting agents EORI. When included, will populate the 'X-Submitter-Identifier' request header when submitting to CDS

Response Headers

Name	Value / Example	Description
X-CSP-ID	ABC-1234567890123	X-Badge-ID followed by current date/time in ms. Used to correlate request with subsequent notification once accepted by CDS. **Not to be used for declaration tracking purposes.**

Authorisation

This resource is user restricted – it requires an Authorization header containing authentication information specific to the receiving CSP. The CSP may additionally require enabling you to submit such request to this endpoint. Please check with your relevant CSP for specific implementation guidelines.

Request Payload

The request message body should contain an XML customs declaration following the IBM DMS message specification format. This is based on the WCO 3.6 data model and UCC dataset. UK specific implementation guidelines apply. Please reference documentation from HMRC directly for specific implementation guidelines and completion rules.

Example Declaration

```
<?xml version="1.0" encoding="UTF-8"?>
<md:MetaData xmlns:md="urn:wco:datamodel:WCO:DocumentMetaData-DMS:2"
xmlns="urn:wco:datamodel:WCO:DEC-DMS:2"
              xmlns:udt="urn:wco:datamodel:WCO:Declaration_DS:DMS:2">
    <md:WCODataModelVersionCode>3.6</md:WCODataModelVersionCode>
    <md:WCOTypeName>DEC-DMS</md:WCOTypeName>
    <md:ResponsibleCountryCode>GB</md:ResponsibleCountryCode>
    <md:ResponsibleAgencyName>Agency ABC</md:ResponsibleAgencyName>

<md:AgencyAssignedCustomizationVersionCode>v1.2</md:AgencyAssignedCustomizationVers
ionCode>
    <!--
    Import Declaration including:
    - DV1 elements
    - Quota / Preference (Add.Info with type "TRR", DutyTaxFee)
    - VAT transfer
    - Additional costs (DutyTaxFee)
    - Direct representation
    - Arrival transport means
    - Payer / Surety
    - UCR
    - Warehouse reference
    - CDIU document with quantity/amount
    - Special mention (Add.Info with type "CUS")
    - National classification
    - Relief amount (DutyTaxFee)
    - Method of payment
    - Supplementary units
    - Additional calculation units
    - Previous document
    -->
```

```
    <Declaration>
        <AcceptanceDateTime>
            <udt:DateTimeString
formatCode="304">20161207010101Z</udt:DateTimeString>
        </AcceptanceDateTime>
        <FunctionCode>9</FunctionCode>
        <FunctionalReferenceID>DemoUK20161207_010</FunctionalReferenceID>
        <TypeCode>IMZ</TypeCode>
        <DeclarationOfficeID>0051</DeclarationOfficeID>
        <TotalPackageQuantity>1</TotalPackageQuantity>
        <Agent>
            <ID>ZZ123456789001</ID>
            <FunctionCode>2</FunctionCode>
        </Agent>
        <CurrencyExchange> <!-- 1094 new section-->
            <RateNumeric>1.234</RateNumeric>
        </CurrencyExchange>
        <Declarant>
            <ID>ZZ123456789000</ID>
        </Declarant>
        <GoodsShipment>
            <ExitDateTime>
                <udt:DateTimeString
formatCode="304">20161207010101Z</udt:DateTimeString>
            </ExitDateTime> <!-- 1094 -->
            <TransactionNatureCode>1</TransactionNatureCode>
            <Buyer>
                <Name>Buyer name Part1Buyername Part2</Name>
                <Address>
                    <CityName>Buyer City name</CityName>
                    <CountryCode>NL</CountryCode>
                    <Line>Buyerstreet Part1BuyerStreet Part2 7C</Line>
                    <PostcodeID>8603 AV</PostcodeID>
                </Address>
            </Buyer>
            <Consignee>
                <ID>ZZ123456789002</ID>
            </Consignee>
            <Consignment>
                <ArrivalTransportMeans>
                    <Name>Titanic II</Name>
                    <TypeCode>1</TypeCode>
                </ArrivalTransportMeans>
                <GoodsLocation>
                    <Name>3016 DR, Loods 5</Name>
                </GoodsLocation>
                <LoadingLocation>  <!-- 1094 -->
                    <Name>Neverland</Name>
                    <ID>1234</ID>
                </LoadingLocation>
                <TransportEquipment>
                    <SequenceNumeric>1</SequenceNumeric>
                    <ID>CONTAINERNUMBER17</ID>
                </TransportEquipment>
                <TransportEquipment>
                    <SequenceNumeric>2</SequenceNumeric>
                    <ID>CONTAINERNUMBER22</ID>
                </TransportEquipment>
            </Consignment>
            <DomesticDutyTaxParty>
                <ID>ZZ123456789003</ID>
            </DomesticDutyTaxParty>
            <ExportCountry>
                <ID>CA</ID>
            </ExportCountry>
            <GovernmentAgencyGoodsItem>
                <SequenceNumeric>1</SequenceNumeric>
                <StatisticalValueAmount>1234567</StatisticalValueAmount>
```

```
                <AdditionalDocument>
                    <CategoryCode>I</CategoryCode>
                    <EffectiveDateTime>
                        <udt:DateTimeString
formatCode="304">201308120911l2Z</udt:DateTimeString>
                    </EffectiveDateTime> <!-- 1094 -->
                    <ID>I003INVOERVERGEU</ID> <!-- CDD-1094 an..70 -->
                    <Name>NAME_HERE</Name> <!-- CDD-1094 ADDED -->
                    <TypeCode>003</TypeCode>
                    <LPCOExemptionCode>123</LPCOExemptionCode> <!-- 1094 -->
                </AdditionalDocument>
                <AdditionalDocument>
                    <CategoryCode>N</CategoryCode>
                    <ID>N861UnivCertOrigin</ID>
                    <TypeCode>861</TypeCode>
                </AdditionalDocument>
                <AdditionalInformation>
                    <StatementCode>1</StatementCode><!-- not affiliated -->
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>3</StatementCode><!-- no price influence -->
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>5</StatementCode><!-- no approximate value -->
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>8</StatementCode><!-- special restrictions -->
                    <StatementDescription>Special
Restrictions</StatementDescription>
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>9</StatementCode><!-- no price conditions -->
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>11</StatementCode><!-- no royalties or license
fees -->
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>13</StatementCode><!-- no other revenue -->
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>16</StatementCode><!-- customs decisions -->
                    <StatementDescription>11NL12345678901234</StatementDescription>
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>17</StatementCode><!-- contract information -->
                    <StatementDescription>Contract 12123, 24-11-
2011</StatementDescription>
                    <StatementTypeCode>ABC</StatementTypeCode>
                </AdditionalInformation>
                <AdditionalInformation>
                    <StatementCode>90010</StatementCode>
                    <StatementDescription>VERVOERDER:
InterTrans</StatementDescription>
                    <StatementTypeCode>CUS</StatementTypeCode>
                </AdditionalInformation>
                <Commodity>
                    <Description>Inertial navigation systems</Description>
                    <Classification>
                        <ID>9014202090000000000</ID>
```

```
                        <IdentificationTypeCode>SRZ</IdentificationTypeCode>
                    </Classification>
                    <Classification>
                        <ID>9002</ID>
                        <IdentificationTypeCode>GN</IdentificationTypeCode><!--Not
representative for this commodity-->
                    </Classification>
                    <DutyTaxFee>
                        <AdValoremTaxBaseAmount
currencyID="EUR">900</AdValoremTaxBaseAmount>
                        <DutyRegimeCode>
                            100<!--Specified a Tariff Quota preference (not
representative)--></DutyRegimeCode>
                        <TypeCode>B00</TypeCode>
                        <Payment>
                            <MethodCode>M</MethodCode>
                        </Payment>
                    </DutyTaxFee>
                </Commodity>
                <GovernmentProcedure>
                    <CurrentCode>40</CurrentCode>
                    <PreviousCode>91</PreviousCode>
                </GovernmentProcedure>
                <GovernmentProcedure>
                    <CurrentCode>C30</CurrentCode>
                </GovernmentProcedure>
                <Origin>
                    <CountryCode>US</CountryCode>
                </Origin>
                <Packaging>
                    <SequenceNumeric>1</SequenceNumeric>
                    <MarksNumbersID>SHIPPING MARKS PART1 SHIPPING</MarksNumbersID>
                    <QuantityQuantity>9</QuantityQuantity>
                    <TypeCode>CT</TypeCode>
                </Packaging>
                <PreviousDocument>
                    <ID>X355ID13</ID> <!-- 1094 -->
                    <LineNumeric>1</LineNumeric>
                </PreviousDocument>
                <ValuationAdjustment>
                    <AdditionCode>155</AdditionCode>
                </ValuationAdjustment>
            </GovernmentAgencyGoodsItem>
            <Invoice>
                <ID>INVOICENUMBER</ID>
                <IssueDateTime>
                    <udt:DateTimeString
formatCode="304">20130812091112Z</udt:DateTimeString>
                </IssueDateTime>    <!-- 1094 -->
            </Invoice>
            <Payer>
                <ID>ZZ123456789003</ID>
            </Payer>
            <Seller>
                <Name>Seller name Part1Sellername Part2</Name>
                <Address>
                    <CityName>Seller City name</CityName>
                    <CountryCode>MX</CountryCode>
                    <Line>Sellerstreet Part1SellerStreet Part2 7C</Line>
                    <PostcodeID>8603 AV</PostcodeID>
                </Address>
            </Seller>
            <Surety>
                <ID>ZZ123456789003</ID>
            </Surety>
            <TradeTerms>
                <ConditionCode>CIP</ConditionCode>
                <CountryRelationshipCode>158</CountryRelationshipCode>
```

```
                <LocationName>Rotterdam</LocationName>
            </TradeTerms>
            <UCR>
                <ID>UN1234567893123456789</ID>
                <TraderAssignedReferenceID>P198R65Q29</TraderAssignedReferenceID>
            </UCR>
            <Warehouse>
                <ID>A123456ZZ</ID>
            </Warehouse>
        </GoodsShipment>
    </Declaration>
</md:MetaData>
```

Example Declaration Cancellation

```
<?xml version="1.0" encoding="UTF-8"?>
<md:MetaData xmlns:md="urn:wco:datamodel:WCO:DocumentMetaData-DMS:2"
xmlns="urn:wco:datamodel:WCO:DEC-DMS:2">
    <md:WCODataModelVersionCode>3.6</md:WCODataModelVersionCode>
    <md:WCOTypeName>DEC</md:WCOTypeName>
    <md:ResponsibleCountryCode>NL</md:ResponsibleCountryCode>
    <md:ResponsibleAgencyName>Duane</md:ResponsibleAgencyName>

<md:AgencyAssignedCustomizationVersionCode>v2.1</md:AgencyAssignedCu
stomizationVersionCode>
    <Declaration>
        <FunctionCode>13</FunctionCode>

<FunctionalReferenceID>Danielle_20180404_1154</FunctionalReferenceID
>
        <ID>18GBJFKYDPAB34VGO7</ID>
        <TypeCode>INV</TypeCode>
        <Submitter>
            <ID>NL025115165432</ID>
        </Submitter>
        <AdditionalInformation>
            <StatementDescription>This is a duplicate, please
cancel</StatementDescription>
            <StatementTypeCode>CUS</StatementTypeCode>
        </AdditionalInformation>
        <Amendment>
```

Example Nil/Blank Amendment

The below example represents a ‘nil/blank’ amendment whereby the trader would like to retrigger an inventory linking request with the CSP following an update to the inventory system or to resolve an inventory conflict (IRC other than 000). There are other scenarios where a ‘nil/blank’ amendment may be required, please consult the CDS 03 Declaration Submission Service Design Imports document for more information.

The ‘nil/blank’ refers to the fact that the declaration is left unchanged, the amendment message must not contain any actual amendments. In order to achieve this, the amendment must contain

pointers requesting to “amend” the Inventory Reference (MCR), but including the original inventory reference. In this example, the Inventory Reference (MCR) is being ‘amended’ to have a value of ‘123456789’ even though this value was already stated on the original declaration. Setting the ‘ChangeReasonCode’ to **31** (Nil amendment - please state reason) will result in the amendment passing through the CSP without any inventory pre-checks being carried out.

```
<md:MetaData xsi:schemaLocation=""
xmlns:ns2="urn:wco:datamodel:WCO:Declaration_DS:DMS:2"
xmlns:md="urn:wco:datamodel:WCO:DocumentMetaData-DMS:2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <md:WCODataModelVersionCode>3.6</md:WCODataModelVersionCode>
    <md:WCOTypeName>DEC</md:WCOTypeName>
    <ResponsibleCountryCode>GB</ResponsibleCountryCode>
    <md:ResponsibleAgencyName>HMRC</md:ResponsibleAgencyName>
<md:AgencyAssignedCustomizationVersionCode>v2.1</md:AgencyAssignedCu
stomizationVersionCode>
    <Declaration>
        <FunctionCode>13</FunctionCode>
        <FunctionalReferenceID>CBA321</FunctionalReferenceID>
        <ID>19GBANTQHMM69FGVR7</ID>
        <TypeCode>COR</TypeCode>
        <AdditionalInformation>
            <StatementDescription>MUCR</StatementDescription>
            <StatementTypeCode>AES</StatementTypeCode>
            <Pointer>
                <SequenceNumeric>1</SequenceNumeric>
                <DocumentSectionCode>42A</DocumentSectionCode>
            </Pointer>
            <Pointer>
                <SequenceNumeric>1</SequenceNumeric>
                <DocumentSectionCode>06A</DocumentSectionCode>
            </Pointer>
        </AdditionalInformation>
        <Amendment>
            <ChangeReasonCode>31</ChangeReasonCode>
            <Pointer>
                <SequenceNumeric>1</SequenceNumeric>
                <DocumentSectionCode>42A</DocumentSectionCode>
            </Pointer>
            <Pointer>
                <SequenceNumeric>1</SequenceNumeric>
                <DocumentSectionCode>67A</DocumentSectionCode>
            </Pointer>
            <Pointer>
                <SequenceNumeric>1</SequenceNumeric>
                <DocumentSectionCode>99A</DocumentSectionCode>
            </Pointer>
        </Amendment>
        <GoodsShipment>
            <PreviousDocument>
                <CategoryCode>Z</CategoryCode>
```

```
                <ID>123456789</ID>
                <TypeCode>MCR</TypeCode>
                <LineNumeric>1</LineNumeric>
            </PreviousDocument>
        </GoodsShipment>
    </Declaration>
</md:MetaData>
```

Example Goods Presentation Message

The below example represents a goods presentation message (also known as a goods arrival). It must only be used where the declaration is located at a Non-inventory Linked port (also known as Phase 1). For Inventory linked ports (also known as phase 2) the arrival notification is performed by the CSP. Any goods presentation messages submitted against an inventory linked declaration will be rejected (DMSREJ) with the statement description element indicating the reason for the rejection.

See CDS 03 CDS Declaration Submission Service Design for further information.

```
    <md:MetaData
      xmlns="urn:wco:datamodel:WCO:DEC-DMS:2"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:clm63055="urn:un:unece:uncefact:codelist:standard:UNECE:Agency
IdentificationCode:D12B"
      xmlns:ds="urn:wco:datamodel:WCO:MetaData_DS-DMS:2"
      xmlns:md="urn:wco:datamodel:WCO:DocumentMetaData-DMS:2"
      xsi:schemaLocation="urn:wco:datamodel:WCO:DocumentMetaData-
DMS:2 ../DocumentMetaData_2_DMS.xsd "
    >
      <md:WCODataModelVersionCode>3.6</md:WCODataModelVersionCode>
      <md:WCOTypeName>DEC</md:WCOTypeName>
      <md:ResponsibleCountryCode>GB</md:ResponsibleCountryCode>
      <md:ResponsibleAgencyName>HMRC</md:ResponsibleAgencyName>
      <md:AgencyAssignedCustomizationVersionCode>v2.1
      </md:AgencyAssignedCustomizationVersionCode>
      <Declaration
        xmlns="urn:wco:datamodel:WCO:DEC-DMS:2"

xmlns:clm5ISO42173A="urn:un:unece:uncefact:codelist:standard:ISO:ISO
3AlphaCurrencyCode:2012-08-31"

xmlns:clm63055="urn:un:unece:uncefact:codelist:standard:UNECE:Agency
IdentificationCode:D12B"
        xmlns:p1="urn:wco:datamodel:WCO:Declaration_DS:DMS:2"

xmlns:udt="urn:un:unece:uncefact:data:standard:UnqualifiedDataType:6
"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="urn:wco:datamodel:WCO:DEC-DMS:2
../WCO_DEC_2_DMS.xsd " >
        <FunctionCode>13</FunctionCode>
```

```
<FunctionalReferenceID>James${#TestCase#FunRef1}</FunctionalReferenc
eID>
        <ID>19GB34FG5NE2FX8PR2</ID>
        <TypeCode>GPR</TypeCode>
        <Submitter>
          <ID>GB025115100001</ID>
        </Submitter>
        <Amendment>
          <ChangeReasonCode>16</ChangeReasonCode>
          <Pointer>
            <SequenceNumeric>1</SequenceNumeric>
            <DocumentSectionCode>42A</DocumentSectionCode>
          </Pointer>
          <Pointer>
            <SequenceNumeric>1</SequenceNumeric>
            <DocumentSectionCode>67A</DocumentSectionCode>
          </Pointer>
          <Pointer>
            <SequenceNumeric>1</SequenceNumeric>
            <DocumentSectionCode>28A</DocumentSectionCode>
          </Pointer>
          <Pointer>
            <SequenceNumeric>1</SequenceNumeric>
            <DocumentSectionCode>64A</DocumentSectionCode>
            <TagID>L016</TagID>
          </Pointer>
        </Amendment>
        <Amendment>
          <ChangeReasonCode>16</ChangeReasonCode>
          <Pointer>
            <SequenceNumeric>1</SequenceNumeric>
            <DocumentSectionCode>42A</DocumentSectionCode>
          </Pointer>
          <Pointer>
            <SequenceNumeric>1</SequenceNumeric>
            <DocumentSectionCode>15A</DocumentSectionCode>
            <TagID>T014</TagID>
          </Pointer>
        </Amendment>
        <BorderTransportMeans>

<RegistrationNationalityCode>GB</RegistrationNationalityCode>
        </BorderTransportMeans>
        <GoodsShipment>
          <Consignment>
            <GoodsLocation>
              <Name>TILLONTIL</Name>
            </GoodsLocation>
          </Consignment>
        </GoodsShipment>
```

```
      </Declaration>
    </md:MetaData>
```

Success Response

The CSP will respond with a HTTP status of 202 (Accepted) once basic validation and authentication checks have been carried out by the CSP. This responds indicates only that the CSP has received the request and not that the declaration has been forward to HMRC's MDTP platform and onward to DMS.

CSP Http status

```
202 (Accepted)
```

MDTP Success Notification

Once the request has been successfully forwarded to HMRC's MDTP platform and on to DMS, the CSP also receives a 202 acceptance, which will result in a standard API type notification being returned, with the body set as below.

MDTP Http notification

```
<response><code>202</code><message>Accepted</message></response>
```

Error scenarios

The specific error responses have a consistently formed XML body, including:

Name	Type	Description
Code	String	A machine-readable error code. This is unique for each error scenario.
Message	String	A human-readable explanation for the error.

There might be other error-specific information (such as a list of fields that are in error).

Here is an example CSP API error response in XML format

```
<errorResponse>
  <code>INVALID_BADGE_ID</code>
  <message>Badge ID not associated with user account</message>

</errorResponse>
```

Status	Code	Scenario
403 (forbidden)	INVALID_BADGE_ID	The provided X-Badge-ID is not associated with the Authorization user account.
400 (Bad Request)	MALFORMED_XML	The CSP could not parse the request body since the XML is malformed.
400 (Bad Request)	MISSING_FIELD	The CSP could not find the required data element.
500 (Internal Server Error)	INTERNAL_SERVER_ERROR	The CSP encountered an unexpected error while processing the request. Please contact the relevant CSP helpdesk.

Other error scenarios may occur. Further details can be found here.

6. HMRC MDTP Errors

CSPs will handle sending the request to HMRC digital platform asynchronously. This will make it easier to manage transient errors, specifically around expired access tokens. This should also allow software houses to submit requests to the CSP quicker as the HTTP connection for each request will not be held open while waiting for the inventory pre-check and onwards forwarding to MDTP/CDS. This will also support the pre-check being made asynchronously to make it more aligned with inventory linking. As with CHIEF, CSPs may still choose to link the inventory record before sending to the HMRC MDTP to avoid concurrency errors.

In the case of non-transient errors or successful responses being returned by the MDTP or in the case of multiple retry errors where the CSP has been unable to deliver the request after multiple attempts – then the CSP will return a notification response containing the MDTP error response. In the event of a submission failing with an MDTP error notification the submission must be retried.

MDTP Error Notification

Here is an example MDTP API error response in XML format

```
<errorResponse>
<code>504</code>
<message>GATEWAY_TIMEOUT</message>
</errorResponse>
```

7. Inventory Linking

Inventory systems are provided to many airport and port operators by Community Systems Providers (CSPs). As well as fast and efficient customs clearance, inventory linking provides commercial benefits in reducing costs and speeding up the movement of goods through the airport or port. For HMRC, it provides benefits in greater visibility for the control of goods and allows an electronic link to the declaration processing system, which saves significant resources as the airport/port do not have to receive and store paper release removal notes.

All frontier declarations at an inventory linked location must be submitted through the CSP linked to that location as the airport/port require a system generated release removal note. Additionally, CSPs perform inventory pre-checking to verify that the declaration being submitted matches the consignment information held in the inventory system. This prevents invalid declarations reaching CDS.

In the CHIEF landscape, when inventory linking validation fails, an E0 print would be generated. In the event of a CHIEF inventory pre-check validation failure the CSP directly responds with a CUSRES rejection. For CDS both of these will be replaced with XML notifications corresponding to the DMS notification schema. The E0 will be a DMSRCV notification and inventory pre-check will be a DMSREJ notification. The CSP may also continue to produce a text version of the E0 as they do for CHIEF.

Both the DMSREJ and the DMSRCV CSP notifications will contain a validation result of CDS20001 in element Error/ValidationCode (related 'Inventory' movement not found).

Where a GPR is sent to a CSP it will also be checked. If found to be for an inventory linked declaration, a DMSREJ notification will be generated and contain a validation result of CDS12015 (existing declaration is not in a permissible state to process the request, 'declaration Inventory linked').

The CSP IRC code will now appear in element AdditionalInformation/StatementCode and the IRC description will be contained in element AdditionalInformation/StatementDescription, see appendix for details of CSP errors.

Note in the case of the E0 print, the notification is initiated from within DMS and the CSP will be required to enrich the message with their own IRC description.

Example pre-check failure (DMSREJ)

It should be noted that the following notification is an example of an inventory pre-check validation failure and the Declaration/ID (MRN) element will always be blank. The response will include the X-CSP-ID from the initial HTTP handshake.

```
<MetaData xmlns:ns2="urn:wco:datamodel:WCO:RES-DMS:2"
xmlns="urn:wco:datamodel:WCO:DocumentMetaData-DMS:2"
xmlns:ns4="urn:wco:datamodel:WCO:Declaration_DS:DMS:2"
xmlns:ns3="urn:wco:datamodel:WCO:Response_DS:DMS:2"
xmlns:ns5="urn:wco:datamodel:WCO:DEC-DMS:2">
     <WCODataModelVersionCode>3.6</WCODataModelVersionCode>
     <WCOTypeName>RES</WCOTypeName>
               <ResponsibleAgencyName>CSP</ResponsibleAgencyName>
     <ns2:Response>
          <ns2:FunctionCode>03</ns2:FunctionCode>
     <ns2:FunctionalReferenceID>123CBA</ns2:FunctionalReferenceID>
          <ns2:IssueDateTime>
               <ns3:DateTimeString
formatCode="304">20191122073841Z</ns3:DateTimeString>
          </ns2:IssueDateTime>
          <ns2:AdditionalInformation>
```

```
                  <ns2:StatementCode>CSP error
code</ns2:StatementCode>
                  <ns2:StatementDescription>CSP error
description</ns2:StatementDescription><ns2:Pointer>
                        <ns2:SequenceNumeric>1</ns2:SequenceNumeric>

      <ns2:DocumentSectionCode>07B</ns2:DocumentSectionCode>
                  </ns2:Pointer>
                  <ns2:Pointer>
                        <ns2:SequenceNumeric>1</ns2:SequenceNumeric>

      <ns2:DocumentSectionCode>53A</ns2:DocumentSectionCode>
                  </ns2:Pointer>
            </ns2:AdditionalInformation>

            <ns2:Error>
                  <ns2:ValidationCode>CDS20001</ns2:ValidationCode>
                  <ns2:Pointer>
      <ns2:DocumentSectionCode>42A</ns2:DocumentSectionCode>
                        <ns2:TagID>D026</ns2:TagID>
                  </ns2:Pointer>
            </ns2:Error>
            <ns2:Declaration>
      <ns2:FunctionalReferenceID>ABC123</ns2:FunctionalReferenceID>
                  <ns2:RejectionDateTime>
                        <ns3:DateTimeString
formatCode="304">20191122073841Z</ns3:DateTimeString>
                  </ns2:RejectionDateTime>
                  <ns2:VersionID>1</ns2:VersionID>
            </ns2:Declaration>
      </ns2:Response>
</MetaData>
```

8. Rate Limiting

Implementation of rate limiting may vary between CSPs and will also depend on the type of implementation at the client end.

When any limit is reached you will get a 429 (Too Many Requests) status code, until the start of the next rate limit period.

9. Versioning

When an API changes in a way that's backwards-incompatible, the version of the API will be bumped.

You can request a specific version of an API by using an Accept header.

For those APIs that mirror HMRC APIs the Accept header should have a media type of:

```
application/vnd.hmrc.[version]+[content-type]
```

For example:

```
application/vnd.hmrc.2.0+xml
```

For those APIs that do not mirror HMRC APIs (i.e. Notifications Pull API's) the Accept header should have a media type of:

```
application/vnd.csp.[version]+[content-type]
```

For example:

```
application/vnd.csp.1.0+json
```

Media types are specific to each API resource, so can change separately from one another.

10. Fraud Prevention

To prevent fraud, HMRC records certain types of audit data. For HMRC APIs a consistent set of headers can be used to pass additional audit data to them.

These headers can influence the processing of the API call, or support prosecutions for tax or duty fraud.

These headers are likely to become compulsory in the future.

Please refer to the HMRC developer hub for what headers can be set and for completion rules.

https://test-developer.service.hmrc.gov.uk/api-documentation/docs/reference-guide#fraud-prevention

Confirmation is required from HMRC on how these headers should be set for requests sent via a CSP.

The current design is that the CSP will forward unaltered any Gov-* HTTP headers provided by the software vendor. The CSP will append to the Forwarded header the CSP specific IP addresses alongside those provided by the software house.

11. User Agent

To enhance tracking capabilities and support, CSP's record certain types of audit data. For all APIs a single User-Agent header should be used to pass additional audit data to us. There is no intention to extract the data contained within the User Agent header for uses other than tracking.

This header is required for all CSP requests.

Where possible, the header is composed of:

Name	Description
Vendor	The company name of the software vendor
Application	The name of the software product

Version	The version number of the software product
Badge	The Clients X-Badge-ID formally referred to as CHIEF Agent Role.
ClientID	The company name of the client

Software vendors should provide the following data in the User-Agent header:

```
Vendor=[Vendor Company Name], Application= [Vendor Application Name], Version=[Application Version Number], Badge=[Same as X-Badge-ID], ClientID=[Client Name]
```

For example:

```
Vendor=Acme Software Vendor plc, Application=Your Application, Version=1.2.3, Badge=ABC, ClientID= A. B. Clearance Agents
```

12. Errors

Error responses have a 4xx or 5xx HTTP status code. Variations in CSP's digital platforms may result in variation in the response body for generic error conditions. For API specific error conditions, the CSP will provide a consistently formed JSON or XML body. See the API's documentation for the API specific response format and error conditions.

Errors in the 400 to 499 range will be returned as a result of a client error by your application.

Errors in the 500 to 599 range will be returned following a server error at either the CSP or CDS end.

13. API Access

API documentation will give relative paths for all API requests. The base URL to use will vary between CSPs and between production and testing systems. The following is a list of base URLs by environment type and CSP for both imports and exports.

Access credentials will be managed by the appropriate CSP as they are with the current SOAP interface.

Test APIs

Community Network Service Ltd

```
https://www.uat.cnsonline.co.uk/api/
```

MCP Plc

```
https://uat.destin8.co.uk/api/
```

Production APIs

Community Network Service Ltd

```
https://www.cnsonline.co.uk/api/
```

MCP Plc

```
https://www.destin8.co.uk/api/
```

14. Appendix – CSP Error details

MCP Inventory Pre-check error details

Error	Description	Scenario Information
61400	You are not authorised to access CDS	The provided X-Badge-ID is not configured to access CDS, please contact the MCP helpdesk
62447	No CDS device present for company, contact the helpdesk	The provided X-Badge-ID does not have a device configured for notifications, please contact the MCP helpdesk
62455	No EORI present for company – contact helpdesk	The provided X-Badge-ID does not have an EORI present in Destin8

62456	EORI does not match stored Company EORI	Where an EORI is supplied in the X-Submitter-ID field, it must match the EORI number present in Destin8
60636	Access to Destin8 denied – Please contact MCP Accounts Dept.	Your account may be locked, please contact the MCP accounts department
62145	XML message must be less than 10MB	Your declaration file size is too large and cannot be accepted by HMRC
61370	Message code invalid	The entry type declared is not one recognised by MCP, please contact the MCP helpdesk
60131	Invalid UCN	The UCN supplied is not valid in Destin8
60288	Vessel has not yet arrived	The declaration contains a declaration type for an arrived declaration in DE 1/2, however the matched vessel has not arrived. For an amendment the new UCN must not be arrived if the declaration was not arrived.
60421	Vessel already arrived	The declaration contains a declaration type for a non-arrived declaration in DE 1/2, however the matched vessel is already arrived. For an amendment the UCN must be arrived if the declaration was arrived.
60143	Port of import does not match inventory	The Port of import declared in DE 5/23 does not match the port of import for the UCN, please check the CDS location code for the berth using Destin8 transaction TVW
60008	Not authorised	The provided X-Badge-ID does not match the company code recorded as the Nominated Agent for the UCN
60103	Invalid UVI	The first 5 digits of the UCN supplied do not match a valid UVI on Destin8
60238	Split details exist	The UCN must be at the lowest level
60298	Customs entry/amendment in progress	The UCN has its entry in progress status set, please wait for the response or contact the MCP helpdesk
60237	Delete request outstanding	The UCN included on the entry is set to delete or purge, please check Destin8
60207	Manifest is not complete	The import manifest is not yet complete please contact the Shipping Line

60778	Entry/Removal not allowed for empty units	The UCN is manifested as empty
60789	Entry/Removal not allowed for Community Transit	The UCN is manifested as community goods
60224	Customs entry or status prohibits activity	The UCN has an entry or status already set on the inventory
60847	Transhipment Request has been entered for this consignment	The UCN has transhipment details entered against it, check Destin8
60149	Part of an Amalgamation	The UCN is part of an amalgamation, check Destin8
60889	Invalid entry number	For an amendment the MRN must be present
61211	You cannot amend a cleared entry	For an amendment the MRN must not reference a cleared UCN
60448	Packages incorrect	Packages declared must match the number manifested for the UCN
60775	Has not arrived	The declaration contains a declaration type for an arrived declaration in DE 1/2, however the UCN has not been arrived at the depot. For an amendment the arrival status of the depot UCN must match
60779	Already arrived	The declaration contains a declaration type for a non-arrived declaration in DE 1/2, however the UCN is already arrived at the depot. For an amendment the arrival status of the depot UCN must match

Additional (GPR) message validation error

Error	Description	Scenario Information
61287	Import inventory exists	The provided MRN on the Goods Presentation Notice is inventory linked, arrival must be performed by the inventory