**Unique Student Identifier**

**Technical Service Contract for the Unique Student Identifier Web Service**

Comprising the following service operations:

Verify single USI

Verify multiple USIs

Create single USI

Create multiple USIs (processed asynchronously)

Retrieve the result of a request to create multiple USIs

Update Personal Details

Update Contact Details

Get Non DVS Document Types

Locate USI

Get Countries List

Contract Version 5.1

5.1 Revision History

| **Revision** | **Date** | **Author** | **Details** |
| --- | --- | --- | --- |
| 1.0 | 19 Dec 2012 | Malcolm Young | Final revision |
| 1.5 | 28 Mar 2013 | Ben Bildstein | Polish |
| 1.6 | 10 Apr 2013 | Luke Elliott, Trent Kerin | Actioning comments from USI Task Force |
| 1.7 | 11 Apr 2013 | Ben Bildstein | Polish |
| 1.8 | 9 May 2013 | Ben Bildstein, David Spencer | Incorporate David Spencer’s changes |
| 2.0 | 30 April 2015 | Harold Hotham | Updates for V2 of the services.   * New endpoint * PreferredContact * NonDvsDocumentTypeId * WSDL Location * TownCityOfBirth |
| 3.0 | October 2018 | USI IT & DM Team | Updates for V3 of the services.   * Changed endpoint * Namespace changes * Gender ‘X’ provided * ‘Preferred Names’ provided * ‘Get Countries’ service * Improved search functions * Improved data validation * Minimum age restriction removed * DVS Identity document changes (particularly Birth Certificate) |
| 3.1 | April 2020 | Jeff Smith | Updates for v3 MAS-ST enabled services   * Changed endpoint * Authentication service replacing AUSkey * DVS Identity document change - Centrelink cards provided as FoId * Correction to Verify USI function family name permitted values |
| 4.0 | September 2020 | USI IT team | Updates for v4 MAS-ST enabled services   * Change to service endpoint * Any two contact details are mandatory while creating a USI (for both create and update related service operations) * Birth Certificate ID document validation changes. |
| 5.00 | July 2022 | USI IT team | * Added CardNumber field to Drivers Licence. The field is mandatory for all states. * Emoji characters are no longer allowed in string fields of all requests |
| 5.1 | December 2022 | USI IT Team | * DVS Override Reason. The field is mandatory if DVSCheckRequired is False |

Terminology

|  |  |
| --- | --- |
| ABN | Australian Business Number |
| ATO | Australian Taxation Office |
| Credential | Something used to prove their digital identity |
| Digital Certificate | Proof of identity data |
| DVS | Document Verification Service – a service to verify evidence of identity documents.  More information is available from <http://www.dvs.gov.au/> |
| Identity Token | See Security Token |
| M2M | Machine-to-Machine Credential |
| OASIS | A standards body 'Organization for the Advancement of Structured Information Standards'. See Section 1.3, References and Related Documents. |
| RTO | Registered Training Organisation. A provider of accredited VET courses and training. |
| SAML | Secure Assertion Mark-up Language – an OASIS standard |
| SAML Assertion | A signed XML block asserting identity of a user. The XML conforms to the SAML Core schema. |
| Security Token | This is an industry term for an assertion about identity that is issued by an Identity Provider. In the context of this contract this is signed SAML assertion. |
| SMS | Student management system |
| SMS Vendor | Provider of student management systems to RTOs. |
| SOAP | Simple Object Access Protocol |
| Student | A person undertaking VET and who will require a USI from January 2015. |
| TA | State and Commonwealth authorities that oversee delivery of VET. |
| TGA | training.gov.au |
| Token | See Security Token |
| User | An RTO staff member using an SMS to interact with the USI web services. |
| USI Registrar | A Registrar will be appointed, subject to legislation, to administer unique student identifiers for the VET sector. |
| USI Taskforce | Responsible for implementation of the USI Program. |
| VET | Vocational Education and Training. |
| WS-Trust | A specification that deals with distribution of security tokens. |
| HEPs/HE | Higher Education Providers |
| TEQSA | Tertiary Education Quality and Standards Agency |
| TACs | Tertiary Admission Centres |
| HEV | HE Verification |
| TPS | Tuition Protection Service |
| ESOS | Education Services for Overseas Students |
| VSL | VET Student Loans |
| HELP | Higher Education Loan Program |
| Provider ID | Organisation Code of the Higher Education Providers |
| Emoji Characters | Characters in range: u00a9, u00ae, u2000 to u3300, ud83c, ud000 to udfff, ud83d, ud000 to udfff, ud83e, ud000 to udfff |

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# Introduction

## Purpose

The purpose of this document is to inform student management system (SMS) vendors, RTO in house system developers and Higher Education Providers and related bodies about the USI web services that are available for their consumption.

This interface description is called a 'Technical Service Contract' (TSC).

## Audience

This document is intended to be read by organisations and agencies intending to use the web services and covers both technical and business aspects of the services.

Executive readers and business analysts should read Section 2 to gain an understanding of the business need that these services address.

Technical staff implementing systems that consume the USI Web Services should read the whole document.

## References and Related Documents

**Common Elements**: Common Elements for Machine Authentication Service - Security Token (MAS-ST)

**MAS-ST**: Machine Authentication Service - Security Token - Service Definition

**SAMLCore**: Assertions and Protocols for the OASIS Security Assertion Markup Language (SAML) <https://docs.oasis-open.org/security/saml/v2.0/saml-core-2.0-os.pdf>

**WSSAML**: Web Services Security: SAML 2.0 Session Token Profile  
<http://docs.oasis-open.org/security/saml/Post2.0/saml-session-token/v1.0/cs01/saml-session-token-v1.0-cs01.pdf>

**SOAP** Version 1.2 Part 1: Messaging Framework (Second Edition)   
<http://www.w3.org/TR/soap12-part1/>

**WSP**: Web Services Policy Framework (WSPolicy) v1.2

<http://specs.xmlsoap.org/ws/2004/09/policy/ws-policy.pdf>

**WSECP**: WS-SecurityPolicy 1.2   
<http://docs.oasis-open.org/ws-sx/ws-securitypolicy/200702/ws-securitypolicy-1.2-spec-os.html>

**WSEC**: Web Services Security: SOAP Message Security 1.1  
<https://www.oasis-open.org/committees/download.php/16790/wss-v1.1-spec-os-SOAPMessageSecurity.pdf>

**WSA**: Web Services Addressing 1.0 – Core  
<http://www.w3.org/TR/ws-addr-core/>

# Business View

## Version Information

### About This Version

This document describes version 5.15.1 of the USI Web Services.

Since this document may change without impacting the service definition, i.e. non-technical changes, this document includes the date it was published (January 2023) separate to the contract version number.

### Changes by Contract Version

Important changes made in each version of the contract are listed below.

### Version 1.0

The following changes may cause problems for implementations based on previous versions of this document:

* If part of a postal address is specified, the complete postal address must now be specified.
* The *EmailAddress* in *Contact Details Type* must now be unique in the USI Register for active USIs.
* *AppliesTo* argument for STS being identical to the *USI endpoint URL*

The following additions have also been made:

* Service for verifying multiple USIs.

### Version 2.0

This version represents a new endpoint and a number of associated changes to the USI Service.

* There is a new endpoint
* The namespace has changed
* The PreferredMethod has been removed
* NonDvsDocument type now mandatory in some scenarios
* New WSDL location
* New requirements for TownCityOfBirth (when country of birth is Australia)

### Version 3.0

This version represents a new endpoint and a number of associated changes to the USI Service.

* Change to service endpoint
* Space in the single name
* Limit the entry of special characters in the name fields
* Addition of Gender X (indeterminate/intersex/unspecified)
* Where DVS override is selected, and the non-DVS document type of Other is selected, do not allow entry of numbers in the description
* When updating Gender, a DVS check is no longer required
* Allow for preferred name fields
* Australian Mobile Number validation (where the Country of Residence is Australia) - accepts “04*nnnnnnnn*” or “+61*nnnnnnn*”
* Home phone/land line number validation
* Country of Birth list is based on Country Code rather than description to allow for County name changes
* ***Existing USI Search*** breaking changes applied to the ***Locate USI*** function.
* Improved DVS validations

### 2.1.6 Version 3.0 - April 2020

This version represents a new service end points and limited changes to the USI Service.

* Change to service endpoint
* New Authenticiation Service replacing Device AUSkey
* Provision of additional DVS Identity document (Centrelink Concession Cards)
* Removal of DVS Over-ride “Non DVS document type” - Centrelink document

### 2.1.7 Version 4.0 – September 2020

This version represents a new service end points and limited changes to the USI Service.

* Change to service endpoint
* Any two contact details are mandatory while creating a USI (for both create and update related service operations)
* Birth Certificate ID document validation changes
  + RegistrationYear is removed from WSDL (and also its corresponding validation) as it is not required by DVS.
  + For Northen Territory, DatePrinted and CertificateNumber no longer required
  + RegistrationNumber validation
    - For ACT, NT and SA, RegistrationNumber must be alpha numeric with length up to 10 digits and can contain a (forward) slash

### 2.1.8 Version 5.0 – July 2022

This version added CardNumber field to Drivers Licence data contract.

* From 1 September 2022 the CardNumber field was made mandatory for six jurisdictions: NSW, ACT, SA, NT, WA and Tas, and subsequently made mandatory for QLD on 7 November 2022 and Vic on 19 December 2022
* Emoji characters are not allowed
* The DVS Override Reason field is mandatory if DVSCheckRequired is False

## Overview and Broad Functionality

This document describes the system to system functions provided by the USI web services. The services discussed in this document allow an authorised consumer to perform the following actions:

* Create a USI record for an individual and receive an immediate response
* Submit a batch of USI creation requests for processing and (BulkUpload)
* Retrieve the results of a previously submitted batch request (BulkUploadRetrieve)
* Verify a USI for an individual and receive an immediate response
* Verify a batch of USIs and receive an immediate response. *Added in version 1.1.*
* Locate an existing USI

## Service Environments

The USI web services will be deployed in two distinct environments as detailed below.

### Third Party Testing

Third party testing is intended to allow software developers to integrate and test their software with a non-live implementation of the USI web services that is guaranteed to behave the same as the live system. This environment is configured to use only test AUSkey certificates, org codes and mock version of the document verification system. Any USIs generated by the test environment are not valid in the live environment.

#### Testing Registration

Developers wishing to access the third party testing environment must complete the enrolment process available from the USI Website. Once completed, participants will be issued with appropriate certificates, orgcodes and connection instructions.

### Production

Production is the live version of the USI Web Services once the scheme goes live.

#### Registration

To use the USI web services in the production environment, RTOs must first be listed and current on Training.Gov.au (TGA) and Higher education providers on Tertiary Education Quality and Standards Agency (TQESA). Other VET related organisations and HE related organisations wishing to use web services or the web portal must register themselves with the USI Registrar.

Registration will give organisations an OrgCode, from either TGA, TEQSA or the USI Registrar. The OrgCode must be supplied as a part of all web service calls.

In the case where an ABN is associated with multiple registered organisations, it is the responsibility of the web service user to provide the appropriate OrgCode for each service call.

Each Education organisation wishing to use the USI web services will also need to complete an additional enrolment process, agreeing to the terms and conditions of use, with the Registrar, before they can access the services in the production environment.

## Digital Certificate (Machine-to-Machine credential)

Consumers of the USI web services will require a Machine-to-Machine (M2M) credential to verify their identity while interacting with the USI web services. These certificates can be obtained from the Australian Taxation Office by all ABN holders.

Non-CAA Authentication method

Each organisation, RTO, VAB, HEP,TACs etc. will require their own M2M credential and matching OrgCode before they can use the USI web services.

CAA Authentication method

Each organisation hosting an RTO, VAB, HEP,TACs etc. in cloud environment is required to use their M2M credential in order to submit transactions to the USI Registry via USI web services on behalf of the client. The host service provider and client must have established a valid current relationship in the ATO’s Relationship Authorisation Manager (RAM) system to authenticate.

## Web Services Security

The USI Web Services are secured using the Machine Authentication Security Token Service (MAS-ST). The MAS-ST is a WS-Trust compliant service used to validate digital credentials and generate security tokens which can then be used to create secure web service channels. A typical interaction is as follows:

1. The end user creates a request for security token message which is signed using their digital credential. This message is sent to the MAS-ST.
2. The MAS-ST validates the signature over the message and the digital credential used to sign it and returns a SAML security token.
3. This token is used to secure one or more messages sent to the USI Web Services.

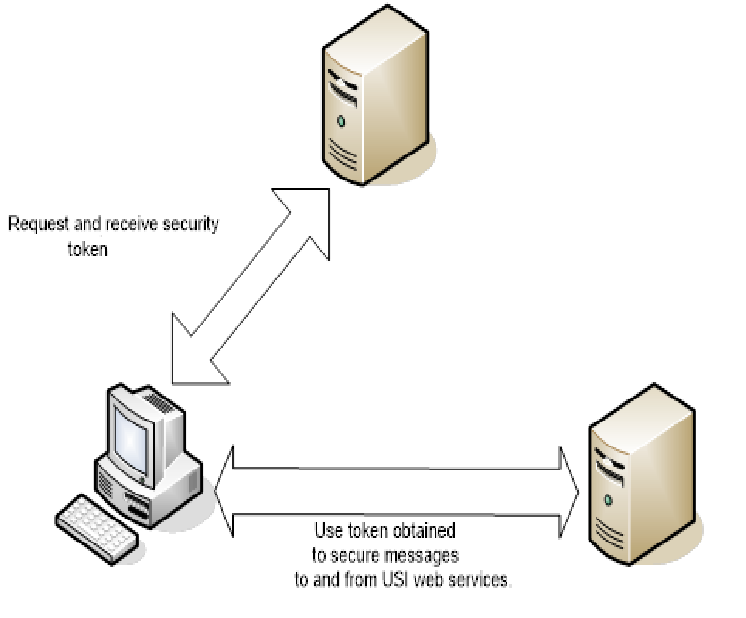


Figure 1: Interaction overview

This document only describes the interaction between the client and the USI Web Services. Technical specifications for the MAS-ST are contained in the Token Service - Service Definitions.

# Web Service Policy

All the USI services conform to the following standards:

* SOAP v1.2 [SOAP]
* WS-Policy v1.2 [WSP]
* WS-SecurityPolicy v1.2 [WSECP]
* WS-Security 1.1 [WSEC]
* WS-Addressing v1.0 [WSA]
* SAML Token Profile for WS-Security

Detailed policy for all services is described in the WSDL for each service.

# The Service Provider Interface

## Conditions of Use

### Pre-Conditions

In order to invoke any USI web service operation, the following conditions must be met depending on the environment the user wishes to access.

#### Third Party Testing

Completing the third party testing enrolment process will result in participants being issued with the following required data:

* A set of organisation codes that can be used to test the web services with different organisation types (RTO, VAB, HEP,TACs etc).
* Certificates specifically for use in the third party testing environment – both CAA and/or non-CAA credentials can be provided.

#### Production

* RTOs must be listed and current on Training.Gov.au (TGA). Other VET related organisations must be registered with the USI Taskforce.
* HEPs must be listed and current on Tertiary Education Quality and Standards Agency (TEQSA). Other HE education related organisation must be registered with the USI Taskforce.
* The organisation will need to complete the web services enrolment process, agreeing to the web services terms and conditions of use, as specified by the Registrar.
* Non-CAA organisations must hold a valid M2M credential matching the ABN registered with TGA, TEQSA or the USI Taskforce or.
* CAA host service providers must hold a valid M2M credential and have an active relationship with their client(s) in the ATO Relationship Authorisation Manager (RAM) system.

### Service Call Process

Each call made to the USI web services must complete the following steps:

1. Obtain a valid and current SAML security token for the organisation or host service provider from the MAS-ST. This token can be used for multiple web service calls within the same session, until it expires 30 minutes after being acquired.
2. Call the required USI web service attaching the SAML security token.

### Post Conditions

All service requests will be recorded for audit purposes. This audit log will not include any sensitive or personal information.

A clear response will be provided to the client indicating success or failure. In the event of a failure to process or authenticate the request, a SOAP fault will be returned to indicate the nature of the problem.

## Endpoints and Operations

### Third Party Testing

Paths for the third party testing environment will be made available to participants after they have completed the enrolment process available from the USI website.

### Production

The endpoint URL for the USI Web Services is:

<https://portal.usi.gov.au/service/v5/usiservice.svc>

The WSDL for the USI Web Services:

[https://portal.usi.gov.au/services/v5/usiserviceus.wsdl](https://portal.usi.gov.au/service/v5/usiservice.wsdl)

The SOAP action for bulk create USI upload operation is:

<http://usi.gov.au/2022/ws/BulkUpload>

The SOAP action for bulk create USI retrieve operation is:

[http://usi.gov.au/2022/ws/BulkUploadRetrieve]( http://usi.gov.au/2022/ws/BulkUploadRetrieve)

The SOAP action for bulk verify USI retrieve operation is:

<http://usi.gov.au/2022/ws/BulkVerifyUSI>

The SOAP action for the create USI operation is:

<http://usi.gov.au/2022/ws/CreateUSI>

The SOAP action for the verify USI operation is:

<http://usi.gov.au/2022/ws/VerifyUSI>

The SOAP action for the get non-DVS document types operation is:

<http://usi.gov.au/2022/ws/GetNonDvsDocumentTypes>

The SOAP action for the update USI personal details operation is:

<http://usi.gov.au/2022/ws/UpdateUSIPersonalDetails>

The SOAP action for the update USI contact details operation is:

<http://usi.gov.au/2022/ws/UpdateUSIContactDetails>

The SOAP action for Locate USI is:

<http://usi.gov.au/2022/ws/LocateUSI>

The SOAP action for Get Country list is:

<http://usi.gov.au/2022/ws/GetCountries>

## Message Structure

This section details the message structures for each of the USI Web Services interfaces.

The schema for all service calls is provided in Appendix A. Sample messages shown below include only the SOAP body for clarity.

### Create Single USI

The Create USI service allows a caller to submit a single application to create a USI in a synchronous manner.

#### Request Message

##### Special Conditions

It is important to note that when creating USIs, using both single and multiple create, the combination of RequestId and OrgCode must be unique for all calls to both these services and can never be reused irrespective of the outcome of the current request.

##### Create USI Sample

A typical Create USI request message is shown below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <CreateUSI xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <RequestId>23603</RequestId>  <OrgCode>0001</OrgCode>  <Application>  <ApplicationId>1</ApplicationId>  <DVSCheckRequired>true</DVSCheckRequired>  <UserReference>OrgUserWhoCreatedThis</UserReference>  <ContactDetails>  <CountryOfResidenceCode>1101</CountryOfResidenceCode>  <EmailAddress>freddy+62090165@tes.com</EmailAddress>  <Phone>  <Home>0255555555</Home>  <Mobile>0412341234</Mobile>  </Phone>  <NationalAddress>  <Address1>1872 Risku St</Address1>  <SuburbTownCity>KINKUNA</SuburbTownCity>  <State>QLD</State>  <PostCode>4670</PostCode>  </NationalAddress>  </ContactDetails>  <PersonalDetails>  <Gender>X</Gender>  <FirstName>Fredo</FirstName>  <MiddleName>Spiridon</MiddleName>  <FamilyName>Grgorinic</FamilyName>  <DateOfBirth>1990-09-13</DateOfBirth>  <CountryOfBirthCode>1101</CountryOfBirthCode>  <TownCityOfBirth>Springfield</TownCityOfBirth>  <IsPreferredName>true</IsPreferredName>  <PreferredFirstName>Fredo</PreferredFirstName>  <PreferredFamilyName>Grgorinic</PreferredFamilyName>  </PersonalDetails>  <DVSDocument xsi:type="DriversLicenceDocumentType">  <LicenceNumber>111111</LicenceNumber>  <State>ACT</State>  <CardNumber>A001234567</CardNumber>  </DVSDocument>  </Application>  </CreateUSI>  </soap:Body> |

##### Create USI Request

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| CreateUSI manages the information of who issued the call, a file identifier and any supporting information for the bulk load of applications. | The combination of **RequestId** and **OrgCode** must be unique for all calls to all services that create USIs. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| RequestId | string | This contains the identifier that the organisation has nominated to identify the create USI request. | **Mandatory:**  True  **Validation Rules:** The value must not exceed 20 characters  This identifier must never be re-used with the same OrgCode. |
| OrgCode | string | Unique identifier for an organisation registered with training.gov.au, Tertiary Education Quality and Standards Agency or the USI Registrar. | **Mandatory:**  True  **Valid Values:** A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |
| Application | ApplicationType | See section **4.3.11.1** **Application Type** for details. | **Mandatory:**  True |

NOTE: Emoji characters are not allowed.

#### Response Message

##### Create USI Response Sample

A typical response message from the Create USI service is shown below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <?xml version="1.0" encoding="utf-16"?>  <CreateUSIResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <Application>  <ProcessedDate>2018-07-03T22:34:05.3111852Z</ProcessedDate>  <Result>Success</Result>  <IdentityDocumentVerified>True</IdentityDocumentVerified>  <USI>UDNM3W6KUS</USI>  <Errors />  </Application>  </CreateUSIResponse>  </soap:Body> |

##### Create USI Response Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| CreateUSIResponse returns the result of the USI application |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| RequestId | string | This contains the identifier that the organisation has nominated for the create single USI request. | **Mandatory:**  True  **Validation Rules:** The value must not exceed 20 characters |
| Application | ApplicationResponseType | See section **4.3.11.1** **Application Response Type** for details. |  |

### Create Multiple USIs (BulkUpload)

This service allows the caller to request the creation of multiple USIs, up to 500 per request. The USI applications are processed asynchronously. To retrieve the results of the request the caller must call the BulkUploadRetrieve service with the ReceiptNumber from the response of this service.

#### Request Message

#### BulkUpload USI Sample

A request to create multiple USIs is shown below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <BulkUpload xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <RequestId>18240</RequestId>  <NoOfApplications>1</NoOfApplications>  <Applications>  <Application>  <ApplicationId>1</ApplicationId>  <DVSCheckRequired>true</DVSCheckRequired>  <UserReference>OrgUserWhoCreatedThis</UserReference>  <ContactDetails>  <CountryOfResidenceCode>1101</CountryOfResidenceCode>  <EmailAddress>freddy+24414467@tes.com</EmailAddress>  <Phone>  <Home>0255555555</Home>  <Mobile>0412341234</Mobile>  </Phone>  <NationalAddress>  <Address1>9388 Mulders St</Address1>  <SuburbTownCity>BRIGHT</SuburbTownCity>  <State>VIC</State>  <PostCode>3741</PostCode>  </NationalAddress>  </ContactDetails>  <PersonalDetails>  <Gender>X</Gender>  <FirstName>Dinodas</FirstName>  <FamilyName>Goodin</FamilyName>  <DateOfBirth>1994-09-15</DateOfBirth>  <CountryOfBirthCode>1101</CountryOfBirthCode>  <TownCityOfBirth>Springfield</TownCityOfBirth>  <IsPreferredName>false</IsPreferredName>  </PersonalDetails>  <DVSDocument xsi:type="DriversLicenceDocumentType">  <LicenceNumber>111111</LicenceNumber>  <State>ACT</State>  <CardNumber>A001234567</CardNumber>  </DVSDocument>  </Application>  </Applications>  </BulkUpload>  </soap:Body> |

Although the example includes only one USI application, up to 500 applications may be submitted per request.

Only one form of identity document may be supplied for each application. However each application in a request can use a different document type. The XML Schema instance mechanism is used to assert the identity document type used in each application.

##### Bulk Upload Request Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Bulk create manages the information of who issued the call, a request identifier and any supporting information for the bulk creation of applications. | **RequestId** and **OrgCode** together must be unique for each call to the service.  The maximum number of applications in a single call must not exceed 500. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | string | Unique identifier for an organisation registered with TGA, Tertiary Education Quality and Standards Agency or the USI Registrar | **Mandatory:**  True  **Valid Values:** A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |
| RequestId | string | This contains the identifier that the organisation has nominated to identify the bulk create request. This identifier must never be re-used with the same OrgCode. | **Mandatory:**  True  **Validation Rules:**  The value must not exceed 20 characters |
| NoOfApplications | int | This contains the no. of applications to expect in the bulk upload file | **Mandatory:**  True  **Valid Values:** 0-9  **Validation Rules:**  The value must not exceed 500 |
| Applications | List of ApplicationType items. | See section **4.3.11.1** **Application Type** for details. |  |

NOTE: Emoji characters are not allowed.

#### Response Message

#### Bulk Upload Response Sample

A typical response message from the Bulk Upload service is show below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <?xml version="1.0" encoding="utf-16"?>  <BulkUploadResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <ReceiptNumber>647d2ab8-1421-465e-bba9-93bf33a98599</ReceiptNumber>  </BulkUploadResponse>  </soap:Body> |

The receipt number is used to retrieve the response, using the Bulk Upload Retrieve service operation.

##### Bulk Upload Response

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| BulkUploadResponse returns a receipt number that can be used to retrieve the results of the request once they have been processed. | **ReceiptNumber** is unique to each request regardless of originating organisation. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| ReceiptNumber | string | Unique identifier used to retrieve the results of a bulk create request. | **Mandatory:**  True  **Validation Rules:**  Must not exceed 36 characters |

Retrieve create multiple USIs result (BulkUploadRetrieve)

The Bulk Upload Retrieve service operation is invoked to return the processed results of a Bulk Upload request submitted earlier.

### Retrieve create multiple USIs result (BulkUploadRetrieve)

The Bulk Upload Retrieve service operation is invoked to return the processed results of a Bulk Upload request submitted earlier.

##### Request Message

##### Bulk Upload Retrieve Sample

A typical request message to the Bulk Upload Retrieve service is show below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <BulkUploadRetrieve xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <ReceiptNumber>647d2ab8-1421-465e-bba9-93bf33a98599</ReceiptNumber>  </BulkUploadRetrieve>  </soap:Body> |

The receipt number is the value returned in the response from the Bulk Upload service

##### Bulk Upload Retrieve Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Bulk create retrieve is used to request the asynchronously processed results of a batch create request. | **ReceiptNumber** must match one issued to the requesting organisation. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| ReceiptNumber | string | Unique identifier used to retrieve the results of a bulk create request.  See section **4.3.2.4.1 Bulk Upload Response** for details | **Mandatory:**  True  **Validation Rules:**  Must not exceed 36 characters |

#### Response Message

In the case of a valid receipt number the service will return one of the following results:

* If the upload batch has not been processed to completion then a SOAP fault will be returned with an error message containing the text: **Batch Not Completed**.
* If the processing of the batch has been completed then a message similar to one of the samples shown below will be returned.

##### Typical Bulk Upload Retrieve Response Sample

The example shown below includes only one application. Up to 500 applications may be returned in a single response.

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <BulkUploadRetrieveResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <RequestId>18240</RequestId>  <NoOfApplications>1</NoOfApplications>  <NoOfApplicationsFailed>0</NoOfApplicationsFailed>  <Applications>  <Application>  <ProcessedDate>2018-07-03T22:37:10.9931852Z</ProcessedDate>  <ApplicationId>1</ApplicationId>  <Result>Success</Result>  <IdentityDocumentVerified>True</IdentityDocumentVerified>  <USI>7QRP3KV395</USI>  <Errors />  </Application>  </Applications>  </BulkUploadRetrieveResponse>  </soap:Body> |

##### Bulk Create USI Retrieve Response Sample with Unsuccessful Applications.

If one or more applications within the batch were unsuccessful the results will be returned as below.

|  |
| --- |
| <BulkUploadRetrieveResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <RequestId>69229</RequestId>  <NoOfApplications>1</NoOfApplications>  <NoOfApplicationsFailed>1</NoOfApplicationsFailed>  <Applications>  <Application>  <ProcessedDate>2018-07-03T22:39:44.4441852Z</ProcessedDate>  <ApplicationId>1</ApplicationId>  <Result>Failure</Result>  <IdentityDocumentVerified>False</IdentityDocumentVerified>  <Errors>  <Error>  <Code>1002</Code>  <Message>The Email is incorrect. Please try again.</Message>  </Error>  </Errors>  </Application>  </Applications>  </BulkUploadRetrieveResponse> |

#### Bulk Create USI Retrieve Response

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Bulk create retrieve response returns the asynchronously processed results of a batch create request. | This response will only be issued when the requested batch has completed processing. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| RequestId | string | This contains the identifier that the organisation has nominated to identify the bulk upload file.  See section 4.3.2.4.1 Bulk Upload Response for details | **Mandatory:**  True  **Validation Rules:**  The value must not exceed 20 characters |
| NoOfApplications | int | The number of applications submitted for processing. | **Mandatory:**  True  **Valid Values:** 1-500 |
| NoOfApplicationsFailed | int | The number of applications that failed processing. | **Mandatory:**  True  **Valid Values:** 0-500 |
| Applications | List of ApplicationResponseType | See section **4.3.11.3 Application Response Type** for details |  |

### Verify a single USI

This service allows a caller to submit a single student’s USI and personal details in order to confirm their validity.

#### Request Message

##### Verify USI Sample for two names

A typical Verify USI message is shown below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <VerifyUSI xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <USI>GMZXBUHRR7</USI>  <FirstName>Sinit</FirstName>  <FamilyName>Jessee</FamilyName>  <DateOfBirth>1970-04-24</DateOfBirth>  </VerifyUSI>  </soap:Body> |

#### Verify USI Sample for a single name

A typical Verify USI message for a student with a single name is shown below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <VerifyUSI xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <USI>3FH9582ET3</USI>  <SingleName>FathiyahSchuhmacher</SingleName>  <DateOfBirth>1980-03-09</DateOfBirth>  </VerifyUSI>  </soap:Body> |

#### Verify USI Request Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Verify is used to ensure that the combination of USI, name(s) and DOB matches the USI record. | When providing values for the name fields the consumer must provide either FirstName and Surname or SingleName |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | string | Unique identifier for an organisation registered in the system. | **Mandatory:**  True  **Valid Values:** A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |
| USI | string | Contains the USI value to be verified | **Mandatory:**  True  **Valid Values:** Length = 10 characters  Valid values upper case A-Z [ excluding O & I ], number 2-9 |
| FirstName | string | The first name to be verified with the USI value. | **Mandatory:**  True unless SingleName provided  **Valid Values:** The value must not exceed 40 characters  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except full stop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| FamilyName | string | The family name to be verified with the USI value. | **Mandatory:**  True unless SingleName provided  **Valid Values:** The value must not exceed 40 characters  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop.  Numerals 0-9  Must contain alphabetic characters  Cannot have consecutive non-alphabetic characters (except full stop followed by space)  Cannot have non-alphabetic characters at the start |
| SingleName | string | The single name to be verified with the USI value. | **Mandatory:**  True if FirstName and FamilyName have not been provided.  False if either FirstName or FamilyName is provided.  **Valid Values:** The value must not exceed 40 characters.  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except full stop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| DateOfBirth | Date | The date of birth to be verified with the USI value. | **Format:**  yyyy-mm-dd  **Mandatory:**  True |

NOTE: Emoji characters are not allowed.

#### Response Message

##### Verify USI Response Sample

A typical response message is as follows:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <?xml version="1.0" encoding="utf-16"?>  <VerifyUSIResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <USIStatus>Valid</USIStatus>  <FirstName>Match</FirstName>  <FamilyName>Match</FamilyName>  <DateOfBirth>Match</DateOfBirth>  </VerifyUSIResponse>  </soap:Body> |

##### Verify USI Response Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Returns the result of an attempt to verify USI details | If the USI field is invalid then all other fields will return no match.  Returned names will match the request i.e. FirstName and FamilyName will be returned if these were the values passed in the request. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| USIStatus | string | Contains the result of locating or an alternate status of the USI | **Mandatory:**  True  **Valid Values:**  Valid, Invalid, Deactivated |
| FirstName | string | The first name result according to the USI. | **Mandatory:**  False  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |
| FamilyName | string | The family name result according to the USI. | **Mandatory:**  False  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |
| SingleName | string | The single name result according to the USI. | **Mandatory:**  False  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |
| DateOfBirth | Date | The date of birth result according to the USI. | **Mandatory**:  False  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |

### Bulk Verify multiple USIs

The Bulk Verify USI service allows a caller to submit multiple USI details for verification in the same manner as Verify USI allows a single verification. A maximum of 500 USI verifications can be submitted in each batch request. The Bulk Verify USI service is a synchronous operation.

#### Request Message

##### Bulk Verify USI Sample for two names

A typical Bulk Verify USI message is shown below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <BulkVerifyUSI xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <NoOfVerifications>2</NoOfVerifications>  <Verifications>  <Verification>  <RecordId>1</RecordId>  <USI>RXRME2WMUT</USI>  <FirstName>Chienezie</FirstName>  <FamilyName>Dymock</FamilyName>  <DateOfBirth>1963-11-24</DateOfBirth>  </Verification>  <Verification>  <RecordId>2</RecordId>  <USI>T8H46WJMDT</USI>  <FirstName>Jeana</FirstName>  <FamilyName>Samples</FamilyName>  <DateOfBirth>1965-04-20</DateOfBirth>  </Verification>  </Verifications>  </BulkVerifyUSI>  </soap:Body> |

##### Bulk Verify USI Sample for a single name

A typical Bulk Verify USI message is shown below:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <BulkVerifyUSI xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <NoOfVerifications>2</NoOfVerifications>  <Verifications>  <Verification>  <RecordId>1</RecordId>  <USI>ZG93JKFKCM</USI>  <SingleName>AminLandry</SingleName>  <DateOfBirth>1990-11-20</DateOfBirth>  </Verification>  <Verification>  <RecordId>2</RecordId>  <USI>3FH9582ET3</USI>  <SingleName>FathiyahSchuhmacher</SingleName>  <DateOfBirth>1980-03-09</DateOfBirth>  </Verification>  </Verifications>  </BulkVerifyUSI>  </soap:Body> |

##### Bulk Verify USI Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Bulk Verify is used to ensure that the combination of USI, name(s) and DOB matches the USI records. | When providing values for the name fields the consumer must provide either FirstName and Surname or SingleName |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | String | Unique identifier for an organisation registered in the system. | **Mandatory:**  True  **Valid Values:** A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |
| NoOfVerifications | Int | Number of verification requests in the batch. | **Mandatory:**  True  **Valid Values:** 1 - 500  **Validation Rules:**  Must be between 1 and 500. |
| Verifications | List of Verification Types | See **Verification Type** below |  |

##### Verification Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the record data for each verification request in a Bulk Verify USI Request. |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| RecordId | Int | A unique record identifier (within a request batch) used to identify verifications. | **Mandatory:**  True  **Validation Rules:**  Must be unique within the batch. |
| USI | string | Contains the USI value to be verified. | **Mandatory:**  True  **Valid Values:** Length = 10 characters  Valid values upper case A-Z [ excluding O & I ], number 2-9 |
| FirstName | string | The first name to be verified with the USI value. | **Mandatory:**  True unless SingleName provided  **Valid Values:**  The value must not exceed 40 characters  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except full stop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| FamilyName | string | The family name to be verified with the USI value. | **Mandatory:**  True unless SingleName provided  **Valid Values:**  The value must not exceed 40 characters  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except full stop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| SingleName | string | The single name to be verified with the USI value. | **Mandatory:**  True if FirstName and FamilyName are not provided.  False if FirstName or FamilyName is provided.  **Valid Values:** The value must not exceed 40 characters.  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except full stop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| DateOfBirth | Date | The date of birth to be verified with the USI value. | **Format:**  yyyy-mm-dd  **Mandatory:**  True  **Valid Values:**  dd= 01-31  mm= 01-12  yyyy = from 110 years ago |

NOTE: Emoji characters are not allowed.

#### Response Message

##### Bulk Verify USI Response Sample

A typical response message is as follows:

|  |
| --- |
| <soap:Body xmlns:soap="http://www.w3.org/2003/05/soap-envelope">  <?xml version="1.0" encoding="utf-16"?>  <BulkVerifyUSIResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <VerificationResponses>  <VerificationResponse>  <USIStatus>Valid</USIStatus>  <FirstName>Match</FirstName>  <FamilyName>Match</FamilyName>  <DateOfBirth>Match</DateOfBirth>  <USI>RXRME2WMUT</USI>  <RecordId>1</RecordId>  </VerificationResponse>  <VerificationResponse>  <USIStatus>Valid</USIStatus>  <FirstName>Match</FirstName>  <FamilyName>Match</FamilyName>  <DateOfBirth>Match</DateOfBirth>  <USI>T8H46WJMDT</USI>  <RecordId>2</RecordId>  </VerificationResponse>  </VerificationResponses>  </BulkVerifyUSIResponse>  </soap:Body> |

##### Bulk Verify USI Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Bulk Verify response returns the result of an attempt to verify USI details in bulk. |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| VerificationResponses | List of VerificationResponse Types | See **Verification Response** below |  |

##### Verification Response Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the record data for each verification response from a Bulk Verify USI Request. | If the USI field is invalid then all other fields will return no match.  Returned names will match the request i.e. FirstName and LastName will be returned if these were the values passed in the request. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| RecordId | Int | A unique record identifier (within a response batch) used to identify verification results. | **Mandatory:**  True  **Validation Rules:**  Must be unique within the batch. |
| USI | string | Contains the USI value that was verified. | **Mandatory:**  True  **Valid Values:**  Length = 10 characters  Valid values upper case A-Z [ excluding O & I ], number 2-9 |
| USIStatus | string | Contains the result of locating or an alternate status of the USI | **Mandatory:**  True  **Valid Values:**  Valid, Invalid, Deactivated |
| FirstName | string | The first name result according to the USI. | **Mandatory:**  True  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |
| FamilyName | string | The family name result according to the USI. | **Mandatory:**  True  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |
| SingleName | string | The single name result according to the USI. | **Mandatory:**  True  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |
| DateOfBirth | Date | The date of birth result according to the USI. | **Mandatory:**  True  **Valid Values:**  Match, No Match  **Validation Rules:**  If the USI value is Invalid then this value will be No Match. |

### Get Non DVS Document Types

The Get Non DVS Document Types service allows a caller to retrieve a list of Non DVS documents that can then be used when overriding DVS for Create USI and Update Personal detail methods. The Get Non DVS Document Types service is a synchronous operation.

#### Request Message

##### Get Non DVS Document Types Request Sample

A typical request message to the Get Non DVS Document Types for USI service is show below:

|  |
| --- |
| <GetNonDvsDocumentTypes xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  </GetNonDvsDocumentTypes> |

##### Get Non DVS Document Types Request

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| GetNonDvsDocumentTypes manages the information of who issued the call. | Nil |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | string | Unique identifier for an organisation registered with training.gov.au or the USI Registrar. | **Mandatory:**  True  **Valid Values:** A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |

NOTE: Emoji characters are not allowed.

#### Response Message

##### Get Non DVS Document Types Request Response

A typical response message from the Get Non DVS Document Types service is shown below:

|  |
| --- |
| <?xml version="1.0" encoding="utf-16"?>  <GetNonDvsDocumentTypesResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <NonDvsDocumentTypes>  <NonDvsDocumentType>  <Id>1</Id>  <DocumentType>Other</DocumentType>  <SortOrder>9000</SortOrder>  </NonDvsDocumentType>  <NonDvsDocumentType>  <Id>4</Id>  <DocumentType>Library Card</DocumentType>  <SortOrder>1</SortOrder>  </NonDvsDocumentType>  <NonDvsDocumentType>  <Id>6</Id>  <DocumentType>Uni Card</DocumentType>  <SortOrder>3</SortOrder>  </NonDvsDocumentType>  </NonDvsDocumentTypes>  </GetNonDvsDocumentTypesResponse> |

##### Get Non DVS Document Types Response

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| GetNonDvsDocumentTypesResponse returns an array of current Non-DVS Document Types. | Nil |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| NonDvsDocumentTypes | List of Non Dvs Document Type | See section **4.3.11.1.5 Non DVS Document Type** below for details. | **Mandatory:**  True |

### Update Personal Details for USI

The Update Personal Details for USI service allows a caller to update personal details for a USI for which they have update permission. Only one field can be updated per request. The Update Personal Details for USI service is a synchronous operation.

#### Request Message

##### Update Personal Details for USI Request Sample

A typical request message to the Update Personal Details for USI service is show below:

|  |
| --- |
| <UpdateUSIPersonalDetails xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <USI>HEY5DBYZHX</USI>  <DVSCheckRequired>true</DVSCheckRequired>  <UserReference>94074</UserReference>  <PersonalDetailsModifier>FirstName</PersonalDetailsModifier>  <PersonalDetailsUpdate>  <FirstName>Reiel</FirstName>  </PersonalDetailsUpdate>  <DVSDocument xsi:type="DriversLicenceDocumentType">  <LicenceNumber>111111</LicenceNumber>  <State>ACT</State>  <CardNumber>A001234567</CardNumber>  </DVSDocument>  </UpdateUSIPersonalDetails> |

##### Update USI Personal Details Request

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| UpdateUSIPersonalDetails manages the information of who issued the call, the USI being updated and the personal detail being updated. | The personal detail being updated must be supplied. Any other personal details supplied will be ignored. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | string | Unique identifier for an organisation registered with training.gov.au, TEQSA or the USI Registrar. | **Mandatory:**  True  **Valid Values:** A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |
| USI | string | The USI being updated. | **Mandatory:**  True  **Valid Values:** Length = 10 characters  Valid values upper case A-Z [ excluding O & I ], number 2-9 |
| DVSCheckRequired | boolean | Allows the organisation to override the DVS identity verification check.  This value should only be set to *false* if the organisation has DVS override permission or the personal detail being updated does not require a DVS check. | **Mandatory:**  True  **Valid Values:**  true, false (lower case only) |
| NonDvsDocumentTypeId | int | When overriding DVS this is the other document viewed to prove the students identity. | **Mandatory:**  True if DVSCheckRequired is False  **Valid Values:**  Must match one of the IDs returned from GetNonDvsDocumentTypes web method. |
| NonDvsDocumentTypeOther | string | Is the document used to verify a students identity when it is not listed in the non-DVS document list. | **Mandatory:**  True when NonDvsDocumentTypeId = 1 (Other)  **Validation Rules:**  The value cannot exceed 50 characters or contain numbers. |
| UserReference | string | This value contains the identifier of the user who created the application | **Mandatory:**  True  **Validation Rules:**  The value cannot exceed 40 characters. |
| PersonalDetailsModifier | PersonalDetailsModifier | The personal detail being updated. | **Mandatory:**  True  **Valid Values:**  FirstName, MiddleName, FamilyName,  SingleName, DateOfBirth, CountryOfBirth, TownCityOfBirth, Gender |
| PersonalDetailsUpdate | PersonalDetailsType | See section **0**  **Personal** Details Type below | **Mandatory:**  True  **Note:**  The field being updated is mandatory. Any other supplied fields are ignored. |
| DVSDocument | DVSDocumentType | See section **4.3.11.2 DVS Document Type** below | **Mandatory:**  True if DVSCheckRequired is True |

NOTE: Emoji characters are not allowed.

#### Response Message

##### Update Personal Details for USI Response

A typical response message from the Update Personal Details service is shown below:

|  |
| --- |
| <?xml version="1.0" encoding="utf-16"?>  <UpdateUSIPersonalDetailsResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <Result>Success</Result>  <IdentityDocumentVerified>True</IdentityDocumentVerified>  </UpdateUSIPersonalDetailsResponse> |

##### Update USI Personal Details ResponseType

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| UpdateUSIPersonalDetailsResponse returns the result of the Update Personal Details for USI |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Result | string | Whether the USI Record has been updated successfully or not. | **Mandatory:**  True  **Valid Values:**  Success, Failure |
| IdentityDocumentVerified | string | If the identity document provided was verified successfully. | **Mandatory:**  True  **Valid Values:**  True, False, NotVerified |
| Errors | List of Error items | See **4.3.11.3.1 Error Type** for details | **Mandatory:**  True if Result is Failure. |

### Update Contact Details for USI

The Update Contact Details for USI service allows a caller to update the contact details for USI for which they have update permission. Any contact details supplied will be updated on the USI record. Existing values cannot be cleared. The Update Contact Details for USI service is a synchronous operation.

#### Request Message

##### Update Contact Details for USI Request Sample

A typical request message to the Update Contact Details for USI service is show below:

|  |
| --- |
| <UpdateUSIContactDetails xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <USI>HEY5DBYZHX</USI>  <UserReference>78493</UserReference>  <ContactDetailsUpdate>  <CountryOfResidenceCode>1101</CountryOfResidenceCode>  <EmailAddress>testperson@somewhere.com</EmailAddress>  <Phone>  <Home>0255555555</Home>  <Mobile>0455555555</Mobile>  </Phone>  <NationalAddress>  <Address1>56 long crescent</Address1>  <Address2>Mantra House</Address2>  <SuburbTownCity>HARRIET</SuburbTownCity>  <State>QLD</State>  <PostCode>4625</PostCode>  </NationalAddress>  </ContactDetailsUpdate>  </UpdateUSIContactDetails>  </s:Body> |

##### Update USI Contact Details Request

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| UpdateUSIContactDetails manages the information of who issued the call, the USI being updated and the contact details being updated. | The address details supplied must be appropriate for the Country of Residence of the student (Australian address vs International address).  Any Two Contact details of the student must be provided. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | string | Unique identifier for an organisation registered with training.gov.au, TEQSA or the USI Registrar. | **Mandatory:**  True  **Valid Values:**  A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |
| USI | string | The USI being updated. | **Mandatory:**  True  **Valid Values:**  Length = 10 characters  Valid values upper case A-Z [ excluding O & I ], number 2-9 |
| UserReference | string | This value contains the identifier of the user who created the application | **Mandatory:**  True  **Validation Rules:**  The value cannot exceed 40 characters. |
| ContactDetailsUpdate | ContactDetailsUpdateType | See section **4.3.10.1.1**  **Contact** Details Typebelow  (same fields as this type) | **Mandatory:**  True  **Note:**  Only fields being updated are mandatory. |

NOTE: Emoji characters are not allowed.

#### Response Message

##### Update Contact Details for USI Response

A typical response message from the Update Contact Details service is shown below:

|  |
| --- |
| <?xml version="1.0" encoding="utf-16"?>  <UpdateUSIContactDetailsResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <Result>Success</Result>  </UpdateUSIContactDetailsResponse> |

##### Update USI Contact Details ResponseType

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| UpdateUSIContactDetailsResponse returns the result of the Update Contact Details for USI |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Result | string | Whether the USI Record has been updated successfully or not. | **Mandatory:**  True  **Valid Values:**  Success, Failure |
| Errors | List of Error items | See **4.3.11.3.1 Error Type** for details | **Mandatory:**  True if Result is Failure. |

### Locate USI

The Locate USI service allows and organisation to find a student’s USI.

#### Request Message

##### Locate USI Request Sample

|  |
| --- |
| <LocateUSI xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  <UserReference>userRef</UserReference>  <PersonalDetails>  <Gender>F</Gender>  <FirstName>Emilija Marija</FirstName>  <MiddleName>Dragotin</MiddleName>  <FamilyName>Draz</FamilyName>  <DateOfBirth>1967-08-22</DateOfBirth>  <TownCityOfBirth>NETLEY</TownCityOfBirth>  </PersonalDetails>  <ContactDetails>  <EmailAddress>fred+84492125@tes.com</EmailAddress>  </ContactDetails>  </LocateUSI> |

##### Locate USI Request

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Locate USI allows an Organisation to locate a student’s USI. The organisation does not need to have permission to view that USI record. | All Mandatory criteria and one or more matching Optional criteria must be provided for the USI to be returned.  When providing values for the **Mandatory details** fields the consumer must provide values for either Family/LastName or SingleName date of birth and gender.  One or more **optional details** must be supplied. If either First/Given Name, Middle Name/s and the Town/City of Birth is not specified then the email address or the mobile number must be specified. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | string | Unique identifier for an organisation registered with training.gov.au, TEQSA or the USI Registrar. | **Mandatory:**  True  **Valid Values:**  A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |
| UserReference | string | This value contains the identifier of the user who created the application | **Mandatory:**  True  **Validation Rules:**  The value cannot exceed 40 characters. |
| PersonalDetails | PersonalDetailsLocateType | This contains the personal details. | **Mandatory:**  True |
| ContactDetails | ContactDetailsLocateType | This contains the Contact details. | **Mandatory:**  True |

NOTE: Emoji characters are not allowed.

##### Personal Details Locate Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the details of what defines the relevant information for a person. | When providing values for the name fields the consumer must provide values for FamilyName or SingleName. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Gender | char | The gender of the applicant. | **Mandatory:**  True  **Valid Values:**  M (denotes Male), F (denotes Female), X (denotes Indeterminate/Intersex/ Unspecified) |
| FirstName | string | The first name of the applicant. | **Mandatory:**  False  Field will be optional if information is provided it will be used to locate USI.  **Valid Values:**  The value must not exceed 40 characters  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except full stop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| MiddleName | string | The middle name(s) of the applicant, separated by spaces. | **Mandatory:**  False  Field will be optional If information is provided it will be used to locate USI.  **Valid Values:**  The value must not exceed 80 characters  **Valid characters:** Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, fullstop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except fullstop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| FamilyName | string | The family name of the applicant. | **Mandatory:**  True unless SingleName provided  **Valid Values:**  The value must not exceed 40 characters.  **Valid characters:** Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, fullstop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except fullstop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| SingleName | string | The applicant only has a single name with no middle name or family name. | **Mandatory:**  True if Family Name is not supplied.  False if FamilyName is supplied.  **Valid Values:** The value must not exceed 40 characters.  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, Space, full stop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters Cannot have non-alphabetic characters at the start or end. |
| DateOfBirth | Date | The day, month and year of birth of the Applicant | **Mandatory:**  True  **Format:** yyyy-mm-dd |
| TownCityOfBirth | string | The town or city where the applicant was born | **Mandatory:**  False  Field will be optional if information is provided it will be used to locate USI.  **Valid Values:**  The value must not exceed 50 characters |

NOTE: Emoji characters are not allowed.

##### Contact Details Locate Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the contact details for a student. | One contact detail may be supplied. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| CountryOfResidence | string | Contains the applicant's primary country of residence. | Field will not be available for data entry. |
| EmailAddress | string | This will identify the email address for the applicant. | **Mandatory:**  True unless FirstName, Middle Name, Mobile Number, or TownCityOfBirth have been provided  **Valid Values:**  Must comply with the flowing internet standards:  1. RFC2822  2. RFC2821  **Validation Rules:**  The value must not exceed 254 characters and email addresses must be unique for each USI record.  Apply standard email format validation. |
| Mobile | String | This contains the mobile phone number for the applicant | **Mandatory:**  True unless FirstName, Middle Name, Email or TownCityOfBirth are provided  **Validation Rules:**   1. Must be 10 characters. 2. start with 04 followed by eight digits   Note: Spaces, parentheses and hyphen characters will be stripped when storing the numbers. |

NOTE: Emoji characters are not allowed.

#### Response Message

##### Locate USI Response Sample

A typical response from Locate USI

|  |
| --- |
| <?xml version="1.0" encoding="utf-16"?>  <LocateUSIResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <Result>Exact</Result>  <USI>HEY5DBYZHX</USI>  <ContactDetailsMessage>The USI is HEY5DBYZHX for Reiel Draz. This USI account is currently Activated.</ContactDetailsMessage>  </LocateUSIResponse> |

##### Locate USI Response

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| The locate USI response provides the located USI, or if the USI could not be located some reasons why. |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Result | LocateResultType | The result of the query. See the LocateResultType description below for more detail. | **Mandatory**  True |
| USI | USIType | The USI if it could be located | **Mandatory**  False  This is only returned when the result is ExtactMatch |
| ContactDetailsMessage | String | If the personal details matched one record this will contain a message to indicate when the contact details were last updated and which contact details the system holds. | **Mandatory**  False  This will only be provided when the result is SingleNoContactMatch |
| Errors | Array of Errors | This may contain messages when the request could not be processed. |  |

##### Locate USI Result Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This specifies the result of the locate request. |  |

**Attribute**

|  |  |
| --- | --- |
| **Value** | **Definition** |
| Exact | One exact match was found, the USI will be provided.  Example response :- The USI is *nnnnnnnnnn* for <first name>/<family name> . This USI account is currently **NonActivated** |
| MultipleExact | n potential matches have been found. To refine your search enter more details. |
| NoMatch | No records were found that match the search details. |

### GetCountries

The GetCountries service allows a caller to retrieve a list of countries that can then be used to pass the country codes on creating USI application and for other services as well. The Countries list service is a synchronous operation.

#### Request Message

##### GetCountries Request Sample

A typical request message to the Get Countries for USI service is show below:

|  |
| --- |
| <GetCountries xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  </GetCountries>  <s:Body xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">  <GetNonDvsDocumentTypes xmlns="http://usi.gov.au/2022/ws">  <OrgCode>0001</OrgCode>  </GetNonDvsDocumentTypes>  </s:Body> |

##### GetCountries Request

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Get Countries services manages the information of who issued the call. | Nil |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| OrgCode | string | Unique identifier for an organisation registered with training.gov.au TEQSA or the USI Registrar. | **Mandatory:**  True  **Valid Values:** A-Z, a-z, 0-9  **Validation Rules:**  Must not exceed 6 characters |

#### Response Message

##### Get Countries Response

A typical response message from the Get Countries service is shown below:

|  |
| --- |
| <?xml version="1.0" encoding="utf-16"?>  <GetCountriesResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2022/ws">  <Countries>  <CountryDetails>  <CountryCode>1101</CountryCode>  <Name>Australia</Name>  <IsCurrent>true</IsCurrent>  </CountryDetails>  <CountryDetails>  <CountryCode>1601</CountryCode>  <Name>Adelie Land (France)</Name>  <IsCurrent>true</IsCurrent>  </CountryDetails>  <CountryDetails>  <CountryCode>7201</CountryCode>  <Name>Afghanistan</Name>  <IsCurrent>true</IsCurrent>  </CountryDetails>  <CountryDetails>  <CountryCode>9232</CountryCode>  <Name>Zimbabwe</Name>  <IsCurrent>true</IsCurrent>  </CountryDetails>  </Countries>  </GetCountriesResponse> |

##### Get Countries ResponseType

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| GetCountriesResponse returns the array of countries | Nil |

##### Countries ResponseType

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This contains data which is returned from the country details | Nil |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| CountryCode | string | Returns a 4 character country code | **Valid Values:**  4 character country code |
| Name | string | This returns the name of the country | **Valid Values:**  A valid country name |
| IsCurrent | boolean | Returns the Boolean value to indicate if the country is current or not | **Valid Values:**  True if Country is still current  False if Country is not current |

### Shared Data Types

Data types that are shared across multiple messages are detailed below.

NOTE: Emoji characters are not allowed in requests.

#### Application Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This contains the data for an application that is to be processed. |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| ApplicationId | string | A unique identifier (within a batch) for the specific application nominated by the submitting organisation. | **Mandatory:**  True  **Valid Values:**  The reference number must not exceed 20 characters |
| DVSCheckRequired | boolean | Allows the organisation to override the DVS identity verification check.  This value should only be set to *false* if the organisation has DVS override permission. | **Mandatory:**  True  **Valid Values:**  true, false (lower case only) |
| NonDvsDocumentTypeId | int | When overriding DVS this is the other document viewed to prove the students identity. | **Mandatory:**  True if DVSCheckRequired is False  **Valid Values:** Must match one of the IDs returned from GetNonDvsDocumentTypes web method. |
| NonDvsDocumentTypeOther | string | Is the document used to verify a students identity when it is not listed in the non-DVS document list. | **Mandatory:**  True when NonDvsDocumentTypeId = 1 (Other)  **Validation Rules:** The value cannot exceed 50 characters or contain numbers. |
| UserReference | string | This value contains the identifier of the user who created the application | **Mandatory:**  True  **Validation Rules:** The value cannot exceed 40 characters. |
| ContactDetails | ContactDetailsType | See section 4.3.11.1.1  **Contact Details** Typebelow | **Mandatory:**  True  Any 2 contact details are mandatory. |
| PersonalDetails | PersonalDetailsType | See section **0**  **Personal** Details Type below | **Mandatory:**  True |
| DVSDocument | DVSDocumentType | See section **4.3.11.2 DVS Document Type** below | **Mandatory:**  True if DVSCheckRequired is True |
| DvsOverrideReasonId | int | ID for DVS override reason | **Mandatory:**  True if DVSCheckRequired is False  Valid Values: Must be one of the following: 1 - Aboriginal Torres Strait Islander Students; 2 - Incarcerated Students |

##### 

##### Contact Details Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the contact details for a student. | If the CountryOfResidence is not Australia and a mail address is specified the International Address field must be used rather than the National Address. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| CountryOfResidenceCode | string | Contains the applicant's primary country of residence code. | **Mandatory:**  True  **Valid Values:**  See Appendix B - USI Country List |
| EmailAddress | string | This will identify the email address for the applicant. | **Mandatory:**  False.  **Valid Values:**  Must comply with the following internet standards:  1. RFC2822  2. RFC2821  **Validation Rules:**  The value must not exceed 254 characters and email addresses must be unique for each USI record. |
| Phone | PhoneType | See **4.3.11.1.2 Phone Type** for details | **Mandatory:**  False |
| InternationalAddress | string | The address of an applicant that has been identified as residing overseas. | **Mandatory:**  False  **Validation Rules:**  The value must not exceed 250 characters |
| NationalAddress | National Address Type | See **4.3.11.1.3 National Address Type** for details | **Mandatory:**  False |

##### Phone Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the details of what defines a phone number. |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Home | string | This contains the home phone number for the applicant | **Mandatory:**  False  **Validation Rules:**  1. First character can be a "+"  2. Supported characters are 0-9 numeric, spaces, parentheses  3. Minimum of 10 numeric digits  Note: Spaces and parentheses will be stripped when storing the numbers. |
| Mobile | string | This contains the mobile phone number for the applicant | **Mandatory:**  False  **Validation Rules:**  Must be between 10 and 12 characters.  1. First character can be a "+"  2. Supported characters are 0-9 numeric, spaces, parentheses ~~and hyphen in the User Interface~~  3. Minimum of 10 numeric digits  Note: Spaces and parentheses ~~and hyphen~~ characters will be stripped when storing the numbers. |

##### National Address Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the details of what defines a national address. | **Population Rules:**  If the Contact Details.Country of Residence is 'Australia' (Country code 1101) then contents for a national address is expected.  If both InternationalAddress and NationalAddress are supplied, only the one that is consistent with the country of residence will be kept.  If any of the Address, Suburb/Town/City, State or Postcode have been populated then all of these fields become required.  The Suburb/Town/City, Postcode and State combination needs to be a valid Australia Post combination. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Address1 | string | Line one of the applicant's residential address. | **Mandatory:**  True  **Validation Rules:**  The value must not exceed 50 characters |
| Address2 | string | Line two of the applicant's residential address. | **Mandatory:**  False  **Validation Rules:**  The value must not exceed 50 characters |
| SuburbTownCity | String | The suburb/town/city address for the Applicant's home residence | **Mandatory:**  True  **Validation Rules:**  The value must not exceed 50 characters |
| State | String | The state abbreviation of the Applicant's home residence. | **Mandatory:**  True  **Valid Values:**  NSW, VIC, QLD, SA, WA, TAS, NT, ACT |
| PostCode | String | The postcode of the Applicant's home residence. | **Mandatory:**  True  **Valid Values:**  0001-9999 |

##### 

##### Personal Details Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the details of what defines the relevant information for a person. | When providing values for the name fields the consumer must provide values for either FirstName, MiddleName and Surname or SingleName. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Gender | char | The gender of the applicant. | **Mandatory:**  True  **Valid Values:**  M (denotes Male), F (denotes Female), X (denotes Indeterminate/Intersex/Unspecified) |
| FirstName | string | The first name of the applicant. | **Mandatory:**  True unless SingleName provided  **Valid Values:**  The value must not exceed 40 characters  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, fullstop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except fullstop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| MiddleName | string | The middle name(s) of the applicant, separated by spaces. | **Mandatory:**  False  **Valid Values:**  The value must not exceed 80 characters  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, fullstop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except fullstop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| FamilyName | string | The family name of the applicant. | **Mandatory:**  True unless SingleName provided  **Valid Values:**  The value must not exceed 40 characters.  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, fullstop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters (except fullstop followed by space)  Cannot have non-alphabetic characters at the start or end. |
| SingleName | string | The applicant only has a single name with no middle name or family name. | **Mandatory:**  True if FirstName and Family Name are not supplied.  False if FirstName and FamilyName are supplied.  **Valid Values:**  The value must not exceed 40 characters.  **Valid characters**: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, fullstop.  Must contain alphabetic character  Cannot have consecutive non-alphabetic characters  Cannot have non-alphabetic characters at the start or end. |
| IsPreferredName | Boolean | It indicates whether the application contains preferred name or not | **Mandatory:**  **True**  **Valid Values:**  True, false |
| PreferredFirstName | String | The preferred first name of the applicant. | **Mandatory**:  False  **Valid** Values:  The value must not exceed 40 characters. Valid characters: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop. Must contain alphabetic character. Cannot have consecutive non-alphabetic characters (except full stop followed by space). Cannot have non-alphabetic characters at the start or end.  Names must contain only:   * Upper case A-Z * Lower case a-z * Hyphen * Apostrophe * Single quote * Space * Full stop * NOT start or end with a Hyphen, Apostrophe, Single quote, Space or Full stop * NOT have any numbers   NOT contain an accent or unusual characters (for example grave, emoticons, smiley faces) |
| PreferredFamilyName | String | The preferred family name of the applicant | **Mandatory**:  False  **Valid** Values:  The value must not exceed 40 characters. Valid characters: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop. Must contain alphabetic character. Cannot have consecutive non-alphabetic characters (except full stop followed by space). Cannot have non-alphabetic characters at the start or end.  Names must contain only:   * Upper case A-Z * Lower case a-z * Hyphen * Apostrophe * Single quote * Space * Full stop * NOT start or end with a Hyphen, Apostrophe, Single quote, Space or Full stop * NOT have any numbers   NOT contain an accent or unusual characters (for example grave, emoticons, smiley faces) |
| PreferredSingleName | String | The preferred single name of the applicant | **Mandatory**:  False  **Valid** Values:  The value must not exceed 40 characters. Valid characters: Upper case A-Z, lower case a-z, hyphen, apostrophe, single quote, space, full stop. Must contain alphabetic character. Cannot have consecutive non-alphabetic characters (except full stop followed by space). Cannot have non-alphabetic characters at the start or end.  Names must contain only:   * Upper case A-Z * Lower case a-z * Hyphen * Apostrophe * Single quote * Space * Full stop * NOT start or end with a Hyphen, Apostrophe, Single quote, Space or Full stop * NOT have any numbers   NOT contain an accent or unusual characters (for example grave, emoticons, smiley faces) |
| DateOfBirth | Date | The day, month and year of birth of the Applicant | **Mandatory:**  True  **Format:**  yyyy-mm-dd  **Valid Values:**  dd= 01-31  mm= 01-12  yyyy = from 110 years ago |
| CountryOfBirthCode | string | The country code where the applicant was born. | **Mandatory:**  True  **Valid Values:**  See Appendix B - USI Country List |
| TownCityOfBirth | string | The town or city where the applicant was born | **Mandatory:**  True  **Valid Values:**  The value must not exceed 50 characters  If CountryOfBirth is Australia then this must be a locality in the Australia Post Postcode list. |

##### Non DVS Document Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This type contains details a Non DVS Document Type |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Id | int | A numerical unique identifier for the Non DVS Document Type | **Mandatory:**  True |
| DocumentType | string | A description of the document type | **Mandatory:**  True  **Valid Values:**  The value must not exceed 50 characters. |
| SortOrder | Int | The sort order for displaying the Non DVS Document Type in a list | **Mandatory:**  True |

#### DVS Document Type

When creating a USI, consumers may be required to provide details from a document that can be validated using the document verification service (DVS). The details required to validate each document are given in the following sections.

It should be noted that the student’s First Name, Last Name and Date of Birth from personal details will also be used as part of the document validation process and must match the document being used for verification to be successful. In some instances middle name, middle initial, date of Birth and gender are also used to verify the document.

##### DVS Document Type Sample

This sample demonstrates the use of the XML Schema instance mechanism used to assert the DVS document type to be used in an application.

|  |
| --- |
| <DVSDocument xsi:type="BirthCertificateDocumentType">  <RegistrationNumber>11111111</RegistrationNumber>  <RegistrationState>ACT</RegistrationState>  <DatePrinted>2012-01-27</DatePrinted>  <CertificateNumber>781521</CertificateNumber>  </DVSDocument> |

##### DVS Document Type Details

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| Contains the type reference for the DVS document that will be used in an application. | This is an abstract base type that contains no attributes. It cannot be used directly in an application. |

##### Birth Certificate Document Type (Australian)

The rules for verifying a birth certificate vary from one jurisdiction to another.

Any fields not required to validate a given certificate are not submitted as they may cause the verification to fail even if all other fields are correct.

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This type contains the additional information required to verify an Australian Birth Certificate. |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| RegistrationNumber | string | The registration number issued on the identifying document. | **Mandatory:**   * NSW, VIC, WA, SA, ACT, NT, * QLD if Registration Date on or after 2 July 1996, * TAS if Registration Date on or after 1 Nov 1999   **Valid Values:**  NSW - The Registration Number can only include numbers. It cannot exceed 7 characters.  VIC - The Registration Number can only include numbers. It cannot exceed 10 characters.  WA - The Registration Number can only include numbers and contain 7 characters.  SA, NT, ACT - The Registration Number can only include letters, numbers and a forward slash (/). It cannot exceed 10 characters. |
| RegistrationState | StateList | The state abbreviation where the certificate was issued | **Mandatory:** True  **Valid Values:** NSW, VIC, QLD, SA, 8WA, TAS, NT, ACT |
| RegistrationDate | Date | The day, month and year that the certificate was registered on the identifying document. | **Mandatory** for**:**   * QLD and TAS   **Format:** yyyy-mm-dd  **Valid Values:** from current date to 110 years ago.  **Validation Rules:** Not after today, not before date of birth |
| DatePrinted | Date | The day, month and year that the certificate was printed on the identifying document. | **Mandatory** for**:** SA, ACT  **Format:** yyyy-mm-dd  **Valid Values:** from current date to 110 years ago.  **Validation Rule:** Not after today, not before date of birth |
| CertificateNumber | string | The certificate number issued on the identifying documentcertificate | **Mandatory** for**:**   * SA if Date Printed on or after 1 Nov 1999 * ACT if Date Printed on or after 1 May 2002   **Valid Values:**  0-9  Must be between 1 and 11 characters |

\* WA Birth Certificate:-

From 26 November 2001 the WA registration number is a 7 digit value. If the number is not 7 digits it should be padded with leading zeros. (Eg; For Rego nbr = 1234, submit 0001234)

If issued before 26 November 2001 the WA registration number will require ‘district number’ prefixed to it. (Eg; For District = 01 and Rego = 246, submit 0100246)

##### Certificate of Registration by Descent Document Type

|  |  |
| --- | --- |
| This type contains the additional information required to verify a Certificate of Registration by Descent. |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| AcquisitionDate | Date | The day, month and year of the acquisition date on the identifying document | **Mandatory:**  True  **Format:**  yyyy-mm-dd  **Valid Values:**  dd = 01-31  mm = 01-12  yyyy = from 110 years ago to the current year |

##### Citizenship Certificate Document Type (Australian)

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This type contains the additional information required to verify a citizenship certificate. | The document cannot have a status of ‘void’ |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| StockNumber | string | The stock number issued on the identifying document | **Mandatory:**  True  **Valid Values:**  Alphanumeric only  Can be between 4 and 11 characters |
| AcquisitionDate | Date | The day, month and year of the acquisition date of the identifying document | **Mandatory:**  True  **Format:**  yyyy-mm-dd  **Valid Values:**  From current date – 110 years to current date. |

##### Drivers Licence Document Type (Australian)

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This type contains the additional information required to verify an Australian driver’s licence. | The driver’s licence must be current and valid, i.e. not expired or cancelled. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| LicenceNumber | string | The licence number issued on the identifying document | **Mandatory:**  True  **Valid Values:**   1. Only allow alphanumeric characters 2. Mandatory 3. Limited to 10 characters |
| State | StateList | The state abbreviation where the identifying document was issued | **Mandatory:**  True  **Valid Values:**  NSW, VIC, SA, WA, TAS, NT, ACT, QLD |
| CardNumber | string | The licence card number | **Mandatory:**  True  **Valid Values:**   1. Only allow alphanumeric characters 2. Mandatory 3. Limited to 10 characters |

##### Medicare Document Type

When using a Medicare card to verify the applicant’s Identity the caller should supply only the names of the student as they appear on the card. Multiple lines are available for students that have very long names but care must be taken to match exactly what is shown the card.

An application made using a Medicare card will be rejected if the name listed on the card does not match the name on the USI application.

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This type contains the additional information required to verify a medicare card. | The applicant’s name(s), in the personal details type, must match the name lines supplied for the Medicare card.  The card must be current and valid, i.e. not expired or cancelled. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| MedicareCardNumber | string | The Medicare card number issued on the identifying document | **Mandatory:**  True  **Valid Values:**  0-9  Length = 10 characters |
| IndividualRefNumber | string | The individual ref number issued on the identifying document | **Mandatory:**  True  **Valid Values:**  1-9  The value must not exceed 1 character |
| TGA | string | The expiry date on the identifying document | **Mandatory:**  True  **Valid Values:**  yyyy-mm when Card Colour is Green  yyyy-mm-dd when Card Colour is Blue or Yellow |
| CardColour | string | Card colour of the identifying document | **Mandatory:**  True  **Valid Values:**  Green, Blue, Yellow |
| NameLine1 | String | Applicant’s first name line on the Medicare card | **Mandatory:**  True  **Valid Values:**  Can be between 1 and 27 characters |
| NameLine2 | String | Applicant’s second name line on the Medicare card | **Mandatory:**  False  **Valid Values:**  Can be between 0 and 25 characters |
| NameLine3 | String | Applicant’s third name line on the Medicare card | **Mandatory:**  False  **Valid Values:**  Can be between 0 and 23 characters |
| NameLine4 | String | Applicant’s fourth name line on the Medicare card | **Mandatory:**  False  **Valid Values:**  Can be between 0 and 21 characters |

##### Passport Document Type (Australian)

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This type contains the additional information required to verify an Australian passport. | Must be an Australian passport. See the Visa document type for foreign passport holders.  The passport must be current or expired for less than three years. |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| DocumentNumber | string | The document number issued on the identifying document | **Mandatory:**  True  **Valid Values:**  1 or 2 A-Z Characters followed by 7 digits  The value must not exceed 9 characters |

##### Visa Document Type

It is important to note that when verifying a Visa, the details of the passport the visa has been issued against is verified, not a visa number. This means that even a visa that was automatically issued can be verified.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| **Description** | | **Constraints** | |
| This type contains the additional information required to verify an Australian visa. | | The visa must be current and valid. Expired and cancelled visas cannot be verified. | |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| PassportNumber | string | The passport number the visa was issued to. | **Mandatory:**  True  **Valid Values:**  -, A-Z , a-z, 0-9  The value must not exceed 14 characters |

##### ImmiCard Document Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This DVS document type contains the additional information required to verify an ImmiCard using DVS |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| ImmiCardNumber | string | The ImmiCard number issued on the identifying document. | **Mandatory:**  True  **Valid Values:**  - 1st 2nd and 3rd Characters must be A-Z followed by 6 digits  The value must be 9 characters |

##### Centrelink Concession Card Document Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This DVS document type contains the additional information required to verify an Centrelink Concession Card using DVS | Only Pensioner Concession Cards (PCC), Health Care Cards (HCC) and Commonwealth Seniors Health Cards (SHC) are accepted.  Only the first person named on a Centrelink Concession card can be verified |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| CRN | string | The Centrelink Card 'Customer Reference Number' on the identity document. | **Mandatory:**  True  **Valid Values:**  The value must be 10 characters - 9 digits followed by a single alpha character (A - Z) |
| ExpiryDate | string | The expiry date on the Centrelink Concession Card | **Mandatory:**  True  **Valid Values:**  yyyy-mm-dd |
| Name | String | Applicant’s first name, middle initial (if present) and Family Name (as shown on the Centrelink Concession Card) | **Mandatory:**  True  **Valid Values:**  A - Z, a-z, hyphen, apostrophe  Between 1 and 32 characters |
| Type | String | Centrelink Concession Card type | **Mandatory:**  True  **Valid Values:**  PCC (Pensioner Concession Card)  HCC (Health Care Card)  SHC (Seniors Health Card) |

#### Application Response Type

ApplicationResponseType is a container for the outcome of an application for a new USI and is referenced by:

* 4.3.1.2.2 Create USI Response Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| CreateUSIResponse returns the result of the USI application |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| RequestId | string | This contains the identifier that the organisation has nominated for the create single USI request. | **Mandatory:**  True  **Validation Rules:** The value must not exceed 20 characters |
| Application | ApplicationResponseType | See section 4.3.11.1 Application Response Type for details. |  |

4.3.2.4.1 Bulk Upload Response

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This is the response to a single USI create or part of Bulk USI response |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| ProcessedDate | datetime | Time of processing application | Formatted as UTC |
| ApplicationId | string | A unique identifier (within a batch) for the specific application nominated by the submitting organisation. | **Mandatory:**  Only present for bulk create, not single create  **Valid Values:**  The reference number must not exceed 20 characters |
| Result | string | If the USI record was successfully created, is Success. Otherwise, it is Failure, unless a single duplicate was found, then it is MatchFound. | **Mandatory:**  True  **Valid Values:**  Success, Failure, MatchFound |
| IdentityDocumentVerified | string | If the identity document provided was verified successfully. | **Mandatory:**  True  **Valid Values:**  True, False, NotVerified |
| USI | string | The USI created if successful, or if Result is MatchFound, the USI of the duplicate record. | **Mandatory:**  True if Result is not Failure.  **Valid Values:**  Length = 10 characters  Valid values upper case A-Z [ excluding O & I ], number 2-9 |
| Errors | List of Error items | See **4.3.11.3.1 Error Type** for details | **Mandatory:**  True if Result is Failure. |

##### Error Type

|  |  |
| --- | --- |
| **Description** | **Constraints** |
| This type contains details of why a Create USI request failed |  |

**Attribute**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Constraints** |
| Code | string | The code for this type of failure | **Mandatory:**  True  **Valid Values:**  Valid values 1000 - 9999.  Some codes are defined in section 4.4.2 |
| Message | string | Description of the fault. | **Mandatory:**  True  **Valid Values:**  The value must not exceed 255 characters. |

## Fault Messages

SOAP faults can be returned from each service method and wrap around an Error object. The Error object contains a Code, Title, and Message.

### Sample Fault

Here are some sample Fault errors:

|  |
| --- |
| <Fault xmlns="http://www.w3.org/2003/05/soap-envelope">  <Code>  <Value>Sender</Value>  </Code>  <Reason>  <Text xml:lang="en-AU">An error has occured. See &lt;detail&gt; for more information.</Text>  </Reason>  <Detail>  <ErrorInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns=" http://usi.gov.au/2020/ws">  <Code>2002</Code>  <Message>The organisation was not verified as an authorised body/organisation in the system.</Message>  <Title>Organisation failed authorisation</Title>  </ErrorInfo>  </Detail>  </Fault> |

|  |
| --- |
| <Fault xmlns="http://www.w3.org/2003/05/soap-envelope">  <Code>  <Value>Sender</Value>  </Code>  <Reason>  <Text xml:lang="en-AU">QLD birth certificates earlier than 1941 are not supported. Please select another document type.</Text>  </Reason>  <Detail>  <ArrayOfErrorInfo xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://usi.gov.au/2020/ws">  <ErrorInfo>  <Code>1002</Code>  <Title>Generic Validation</Title>  <Message>QLD birth certificates earlier than 1941 are not supported. Please select another document type.</Message>  <MemberNames>  <string xmlns="http://schemas.microsoft.com/2003/10/Serialization/Arrays">DateOfBirth.Year</string>  </MemberNames>  </ErrorInfo>  </ArrayOfErrorInfo>  </Detail>  </Fault> |

### Fault Values

The details of various errors returned by service methods are below.

Some of these error codes may be returned in an Error element in a non-fault response.

|  |  |
| --- | --- |
| **Error** | **Description** |
| ERR-1000  Unexpected | **Error Code:** 1000  **Error Title:** Unexpected.  **Error Message:** An unexpected error has occurred. |
| ERR-1001  Service Unavailable | **Error Code:** 1001  **Error Title:** Service Unavailable.  **Error Message:** The service is currently not available. |
| ERR-1002  Generic Validation | **Error Code:** 1002  **Error Title:** Generic Validation.  **Error Message:**<detail of generic validation message> |
| ERR-2000  Communication Error | **Error Code:** 2000  **Error Title:** Communication Error.  **Error Message:** A communication error has occurred. Please try again at a later time. |
| ERR-2001  Batch Data Is Invalid. | **Error Code:** 2001  **Error Title:** Batch Data Is Invalid.  **Error Message:** The batch contains invalid data and has not been processed. |
| ERR-2002  Organisation was not authorised | **Error Code:** 2002  **Error Title:** Organisation Failed Authorisation.  **Error Message:** The organisation was not verified as an authorised body/organisation in the system. |
| ERR-2003  Incorrect Receipt Number | **Error Code:** 2003  **Error Title:** Incorrect Receipt Number.  **Error Message:** The receipt number was badly formatted or could not be found. |
| ERR-2004  Unverified Identity | **Error Code:** 2004  **Error Title:** Unverified Identity.  **Error Message:** The system could not verify the identity based on the supplied information. |
| ERR-2005  Failed To Create USI Record Already Exists | **Error Code:** 2005  **Error Title:** Failed To Create USI Record Already Exists.  **Error Message:** The system found multiple existing records with the same information. The record has not been created. |
| ERR-2006  DVS Service Unvailable | **Error Code:** 2006  **Error Title:** DVS Service Unavailable.  **Error Message:** The system could not connect to the DVS service. |
| ERR-2007  Request No Is Not Unique | **Error Code:** 2007  **Error Title:** Request No Is Not Unique.  **Error Message:** The system has received the same reference no. from this organisation on a previous occasion. The file will not be processed. |
| ERR-2008  No Of Applications Invalid | **Error Code:** 2008  **Error Title:** No Of Applications Invalid.  **Error Message:** The no. of applications must be less than 500 and must match the actual number of applications in upload. |
| ERR-2009  Batch Not Completed | **Error Code:** 2009  **Error Title:** Batch Not Completed.  **Error Message:** The batch is still being processed. Please try again later. |
| ERR-2010  DVS Bypass Not Authorised | **Error Code:** 2010  **Error Title:** DVS Bypass Not Authorised.  **Error Message:** The organisation does not have the authority to bypass the DVS check. |
| ERR-2019  Single Name Invalid | **Error Code:** 2019  **Error Title:** Single Name Invalid.  **Error Message:** You cannot supply first, middle or family name with a single name. |
| ERR-2022  DVS Check Required Missing | **Error Code:** 2022  **Error Title:** DVS Check Required Missing  **Error Message:** Please specify DVS Check Required. |
| ERR-2030  Invalid Operation | **Error Code:** 2030  **Error Title:** Invalid Operation  **Error Message:** You do not have permission for this operation. |
| ERR-2050  File Structure Is Invalid | **Error Code:** 2050  **Error Title:** File Structure Is Invalid.  **Error Message:** The file provided did not conform to the defined structure. |
| ERR-2060  USI Not Found | **Error Code:** 2060  **Error Title:** USI Not Found  **Error Message:** USI not found. |
| ERR-2095  USI Deactivated | **Error Code:** 2095  **Error Title:** USI Deactivated  **Error Message:** USI is deactivated. |
| ERR-2098  USI Suspended | **Error Code:** 2098  **Error Title:** USI Suspended  **Error Message:** USI is suspended. |
| ERR-3000  Invalid Schema | **Error Code:** 3000  **Error Title:** Invalid Schema.  **Error Message:** <detail of schema errors> |
| ERR-3010  Invalid AusKey Token Type | **Error Code:** 3010  **Error Title:** Invalid AusKey Token Type.  **Error Message:** Invalid AusKey token type. |
| ERR- 3200  Xml Schema Validation Fail | **Error Code:** 3200  **Error Title:** Xml Schema Validation Fail.  **Error Message:** <detail of xml schema validation errors> |
| ERR- 3250  Xml Schema Validation Fail | **Error Code:** 3250  **Error Title:** Xml Validation Failure.  **Error Message:** <detail of xml schema validation errors> |
| ERR- 3300  Email Address Not Unique | **Error Code:** 3300  **Error Title:** Email Address Not Unique.  **Error Message:** Email Address is not unique. |
| ERR- 3310  Non DVS Document Not Found | **Error Code:** 3310  **Error Title:** Non DVS Document Not Found  **Error Message:** Non DVS Document not found. |
| ERR- 3312  Invalid Source For Update USI Contact Details | **Error Code:** 3312  **Error Title:** Invalid Source For Update USI Contact Details  **Error Message:** The specified source should not update USI contact details. |
| ERR- 3330  Document Type Not Found | **Error Code:** 3330  **Error Title:** Document Type Not Found  **Error Message:** Document Type Not Found. |
| ERR- 3340  Document Type Not Valid For Modifier | **Error Code:** 3340  **Error Title:** Document Type Not Valid For Modifier  **Error Message:** The Document type is not valid for this operation. |
| ERR- 3350  DVS Override cannot be used for this USI. | **Error Code:** 3350  **Error Title:** DVS Override Cannot Be Used For USI  **Error Message:** DVS Override cannot be used for this USI. |
| ERR- 3370  DVS Document Type Not Available. | **Error Code:** 3370  **Error Title:** Document Type Not Available.  **Error Message:** The DVS Document Type is currently unavailable for use. Please select another document type. |

# Addressing Policy

The USI Web Services make use of the WS-Addressing 1.0 standards. All messages sent to the USI Web Services MUST contain the following WS-Addressing headers:

* An Action header indicating the action to invoke on the server,
* A To header describing the destination of the message,
* A MessageID header containing a unique identifier for the message; and
* A ReplyTo header. As all web services are invoked using a request-reply model this should always be set to: <http://www.w3.org/2005/08/addressing/anonymous>

Where clients have been generated using the WSDL for the services, these headers should be handed automatically by the web service stack.

# Security Policy

All USI Web Services are secured using the OASIS Web Services Security: SAML Token Profile 2.0.   
SAML security tokens are obtained using the WS-Trust standard from the MAS-ST. Information regarding the service is provided in the MAS-ST Service Definitions documentation.

The USI Web Service channel uses TLS as the means of authenticating the server and providing a secure channel between the client and server. The client is authenticated using the SAML security token obtained from MAS-ST. The key returned from the service is used to sign the WS-Security timestamp in messages sent to the service.

An example security header is shown below:

|  |
| --- |
| <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd">  <s:Header>  <a:Action s:mustUnderstand="1">http://usi.gov.au/ws/2022/VerifyUSI</a:Action>  <a:MessageID>urn:uuid:bd309d41-ba73-45ed-b1c5-08c4c8c3c217</a:MessageID>  <a:ReplyTo>  <a:Address>http://www.w3.org/2005/08/addressing/anonymous</a:Address>  </a:ReplyTo>  <a:To s:mustUnderstand="1"> https://usi.gov.au/ws/VerifyUSI </a:To>  <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">  <u:Timestamp u:Id="\_0">  <u:Created>2012-12-11T11:17:08.255Z</u:Created>  <u:Expires>2012-12-11T11:22:08.255Z</u:Expires>  </u:Timestamp>  <xenc:EncryptedData Type="http://www.w3.org/2001/04/xmlenc#Element" xmlns:xenc="http://www.w3.org/2001/04/xmlenc#">  <xenc:EncryptionMethod Algorithm="http://www.w3.org/2001/04/xmlenc#aes256-cbc"></xenc:EncryptionMethod>  <KeyInfo xmlns="http://www.w3.org/2000/09/xmldsig#">  <e:EncryptedKey xmlns:e="http://www.w3.org/2001/04/xmlenc#">  <e:EncryptionMethod Algorithm="http://www.w3.org/2001/04/xmlenc#rsa-oaep-mgf1p">  <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"></DigestMethod>  </e:EncryptionMethod>  <KeyInfo>  <o:SecurityTokenReference>  <X509Data>  <X509IssuerSerial>  <X509IssuerName>CN=USI.gov.au</X509IssuerName>  <X509SerialNumber>116292123858401135404295883499835677221</X509SerialNumber>  </X509IssuerSerial>  </X509Data>  </o:SecurityTokenReference>  </KeyInfo>  <e:CipherData>  <e:CipherValue>Tv3T4Cy7bAnAmAnTVruo2WFQ+9HkUrZXqN+EC+8nXS6i4Jv2OtiVIvuWtq8DxC3R+2WGXUCcU2yvOedI2vQB4/i5huQMkc51pAcmXemxjejs1D3QL0nqWA3NtyMFCpbQTpfbC88hYfrkSJy4tljIvCF+L348NydAiYokI1PmR3Qh2us4NyEbo0vg3n9VL6PmzbuQ05wkRaUM4OfDkU0rDy1PYk0TmuLfSsoFd66cM41aqecEtWN+TyeVApCDl2aWJVzAy0dNBi/8estuvulPySbndJcJsoKLfMo1YTuLn5NqAesK2IqlC2aPVLMYvXDXv96sX5dGjsPE+HZGda1HGQ==</e:CipherValue>  </e:CipherData>  </e:EncryptedKey>  </KeyInfo>  <xenc:CipherData>  <xenc:CipherValue>NczYkpgZ7AFhd … 5Gyv6R/5s5Pw==</xenc:CipherValue>  </xenc:CipherData>  </xenc:EncryptedData>  <Signature xmlns="http://www.w3.org/2000/09/xmldsig#">  <SignedInfo>  <CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"></CanonicalizationMethod>  <SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#hmac-sha1"></SignatureMethod>  <Reference URI="#\_0">  <Transforms>  <Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"></Transform>  </Transforms>  <DigestMethod Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"></DigestMethod>  <DigestValue>3d5GbpTJJ2uX3t4fJz3oT3TuaUA=</DigestValue>  </Reference>  </SignedInfo>  <SignatureValue>Jrq3DeudNH48fFf7IaKRTKfq/+g=</SignatureValue>  <KeyInfo>  <o:SecurityTokenReference k:TokenType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.1#SAMLV1.1" xmlns:k="http://docs.oasis-open.org/wss/oasis-wss-wssecurity-secext-1.1.xsd">  <o:KeyIdentifier ValueType="http://docs.oasis-open.org/wss/oasis-wss-saml-token-profile-1.0#SAMLAssertionID">\_586b8352-829f-4a34-a7f5-2697fd0542ad</o:KeyIdentifier>  </o:SecurityTokenReference>  </KeyInfo>  </Signature>  </o:Security>  </s:Header>  <s:Body>  …  </s:Body>  </s:Envelope> |

The key components of the message are:

* An encrypted SAML security token. This should be included in the WS-Security header exactly as returned from the MAS-ST (with no additional whitespace or line breaks).
* A signature that covers (at minimum) the timestamp of the message. The signature should be made using the symmetric key returned from the MAS-ST. The signature includes a key reference that is also returned in the response from the service.

In cases where clients are being developed using a platform with WS-Security support (e.g. .Net, Java etc.), the web service stack will in most cases be able to automate the task of calling the MAS-ST and signing the message to the service by simply building the client form the WSDL for the service. In cases where this is not possible then at minimum the client will need to generate an XML digital signature using the HMAC-SHA1 algorithm.

It is recommended that where the message must be composed manually, no entropy is provided to the service when requesting the security token and key. This approach means the service will return the exact key required to sign the message and removes the need for the client to compute the key based on a combined entropy algorithm (such as PSHA).

As the server is authenticated using transport security, response messages from the server are in plain text and do not include any message level security.

# Appendix A – WSDL Schema

The WSDL provided below provides a formal definition for all request and response messages for the USI Web Services.

The production WSDL can be found at:

<https://portal.usi.gov.au/service/v5/usiservice.wsdl>

The third-party test environment WSDL can be found at:

<https://3pt.portal.usi.gov.au/service/v5/usiservice.wsdl>

# Appendix B – USI Country List

List of country codes *available from the Get Countries List function* for the fields :

Country of Residence in ContactDetailsType and Country of Birth in Personal DetailsType

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Country  Code** | **Name** | **Country  Code** | **Name** | **Country  Code** | **Name** |
| 1601 | Adelie Land (France) | 8305 | Honduras | 8435 | Sint Maarten (Dutch part) |
| 7201 | Afghanistan | 6102 | Hong Kong (SAR of China) | 3311 | Slovakia |
| 2408 | Aland Islands | 3304 | Hungary | 3212 | Slovenia |
| 3201 | Albania | 2405 | Iceland | 1303 | Solomon Islands |
| 4101 | Algeria | 7103 | India | 9224 | Somalia |
| 3101 | Andorra | 5202 | Indonesia | 9225 | South Africa |
| 9201 | Angola | 4203 | Iran | 8299 | South America, nec |
| 8401 | Anguilla | 4204 | Iraq | 4111 | South Sudan |
| 8402 | Antigua and Barbuda | 2201 | Ireland | 9299 | Southern and East Africa, nec |
| 8201 | Argentina | 2103 | Isle of Man | 3108 | Spain |
| 1602 | Argentinian Antarctic Territory | 4205 | Israel | 4108 | Spanish North Africa |
| 7202 | Armenia | 3104 | Italy | 7107 | Sri Lanka |
| 8403 | Aruba | 8415 | Jamaica | 8431 | St Barthelemy |
| 1101 | Australia | 6201 | Japan | 9222 | St Helena |
| 1603 | Australian Antarctic Territory | 2108 | Jersey | 8422 | St Kitts and Nevis |
| 1199 | Australian External Territories, nec | 4206 | Jordan | 8423 | St Lucia |
| 2301 | Austria | 7205 | Kazakhstan | 8432 | St Martin (French part) |
| 7203 | Azerbaijan | 9208 | Kenya | 8103 | St Pierre and Miquelon |
| 8404 | Bahamas | 1402 | Kiribati | 8424 | St Vincent and the Grenadines |
| 4201 | Bahrain | 6202 | Korea, Democratic People's Republic of (North) | 0 | Stateless |
| 7101 | Bangladesh | 6203 | Korea, Republic of (South) | 4105 | Sudan |
| 8405 | Barbados | 3216 | Kosovo | 8214 | Suriname |
| 3301 | Belarus | 4207 | Kuwait | 9226 | Swaziland |
| 2302 | Belgium | 7206 | Kyrgyzstan | 2407 | Sweden |
| 8301 | Belize | 5103 | Laos | 2311 | Switzerland |
| 9101 | Benin | 3305 | Latvia | 4214 | Syria |
| 8101 | Bermuda | 4208 | Lebanon | 6105 | Taiwan |
| 7102 | Bhutan | 9211 | Lesotho | 7207 | Tajikistan |
| 8202 | Bolivia, Plurinational State of | 9118 | Liberia | 9227 | Tanzania |
| 8433 | Bonaire, Sint Eustatius and Saba | 4103 | Libya | 5104 | Thailand |
| 3202 | Bosnia and Herzegovina | 2305 | Liechtenstein | 5206 | Timor-Leste |
| 9202 | Botswana | 3306 | Lithuania | 9128 | Togo |
| 8203 | Brazil | 2306 | Luxembourg | 1507 | Tokelau |
| 1604 | British Antarctic Territory | 6103 | Macau (SAR of China) | 1508 | Tonga |
| 5201 | Brunei Darussalam | 9212 | Madagascar | 8425 | Trinidad and Tobago |
| 3203 | Bulgaria | 9213 | Malawi | 4106 | Tunisia |
| 9102 | Burkina Faso | 5203 | Malaysia | 4215 | Turkey |
| 5101 | Burma (Republic of the Union of Myanmar) | 7104 | Maldives | 7208 | Turkmenistan |
| 9203 | Burundi | 9121 | Mali | 8426 | Turks and Caicos Islands |
| 5102 | Cambodia | 3105 | Malta | 1511 | Tuvalu |
| 9103 | Cameroon | 1403 | Marshall Islands | 9228 | Uganda |
| 8102 | Canada | 8416 | Martinique | 3312 | Ukraine |
| 9104 | Cape Verde | 9122 | Mauritania | 4216 | United Arab Emirates |
| 8406 | Cayman Islands | 9214 | Mauritius | 2100 | United Kingdom |
| 9105 | Central African Republic | 9215 | Mayotte | 8104 | United States of America |
| 9106 | Chad | 8306 | Mexico | 8215 | Uruguay |
| 8204 | Chile | 1404 | Micronesia, Federated States of | 7211 | Uzbekistan |
| 1605 | Chilean Antarctic Territory | 3208 | Moldova | 1304 | Vanuatu |
| 6101 | China (excludes SARs and Taiwan) | 2307 | Monaco | 8216 | Venezuela, Bolivarian Republic of |
| 8205 | Colombia | 6104 | Mongolia | 5105 | Vietnam |
| 9204 | Comoros | 3214 | Montenegro | 8427 | Virgin Islands, British |
| 9108 | Congo, Democratic Republic of | 8417 | Montserrat | 8428 | Virgin Islands, United States |
| 9107 | Congo, Republic of | 4104 | Morocco | 2106 | Wales |
| 1501 | Cook Islands | 9216 | Mozambique | 1512 | Wallis and Futuna |
| 8302 | Costa Rica | 9217 | Namibia | 4107 | Western Sahara |
| 9111 | Cote d'Ivoire | 1405 | Nauru | 4217 | Yemen |
| 3204 | Croatia | 7105 | Nepal | 9231 | Zambia |
| 8407 | Cuba | 2308 | Netherlands | 9232 | Zimbabwe |
| 8434 | Curacao | 1301 | New Caledonia |  |  |
| 3205 | Cyprus | 1201 | New Zealand |  |  |
| 3302 | Czech Republic | 8307 | Nicaragua |  |  |
| 2401 | Denmark | 9123 | Niger |  |  |
| 9205 | Djibouti | 9124 | Nigeria |  |  |
| 8408 | Dominica | 1504 | Niue |  |  |
| 8411 | Dominican Republic | 1102 | Norfolk Island |  |  |
| 8206 | Ecuador | 3206 | North Macedonia, Republic of |  |  |
| 4102 | Egypt | 2104 | Northern Ireland |  |  |
| 8303 | El Salvador | 1406 | Northern Mariana Islands |  |  |
| 2102 | England | 2406 | Norway |  |  |
| 9112 | Equatorial Guinea | 4211 | Oman |  |  |
| 9206 | Eritrea | 7106 | Pakistan |  |  |
| 3303 | Estonia | 1407 | Palau |  |  |
| 9207 | Ethiopia | 8308 | Panama |  |  |
| 8207 | Falkland Islands | 1302 | Papua New Guinea |  |  |
| 2402 | Faroe Islands | 8212 | Paraguay |  |  |
| 1502 | Fiji | 8213 | Peru |  |  |
| 2403 | Finland | 5204 | Philippines |  |  |
|  |  | 1513 | Pitcairn Islands |  |  |
| 2303 | France | 3307 | Poland |  |  |
| 8208 | French Guiana | 1599 | Polynesia (excludes Hawaii), nec |  |  |
| 1503 | French Polynesia | 3106 | Portugal |  |  |
| 9113 | Gabon | 8421 | Puerto Rico |  |  |
| 9114 | Gambia | 4212 | Qatar |  |  |
| 4202 | Gaza Strip and West Bank | 1606 | Queen Maud Land (Norway) |  |  |
| 7204 | Georgia | 9218 | Reunion |  |  |
| 2304 | Germany | 3211 | Romania |  |  |
| 9115 | Ghana | 1607 | Ross Dependency (New Zealand) |  |  |
| 3102 | Gibraltar | 3308 | Russian Federation |  |  |
| 3207 | Greece | 9221 | Rwanda |  |  |
| 2404 | Greenland | 1505 | Samoa |  |  |
| 8412 | Grenada | 1506 | Samoa, American |  |  |
| 8413 | Guadeloupe | 3107 | San Marino |  |  |
| 1401 | Guam | 9125 | Sao Tome and Principe |  |  |
| 8304 | Guatemala | 4213 | Saudi Arabia |  |  |
| 2107 | Guernsey | 2105 | Scotland |  |  |
| 9116 | Guinea | 9126 | Senegal |  |  |
| 9117 | Guinea-Bissau | 3215 | Serbia |  |  |
| 8211 | Guyana | 9223 | Seychelles |  |  |
| 8414 | Haiti | 9127 | Sierra Leone |  |  |
| 3103 | Holy See | 5205 | Singapore |  |  |

# Appendix C – WSDL with a WCF Application

When using the “Add Service Reference” function of Visual Studio 2012 to build a WCF service client from the WSDL in Appendix A, the resulting service client requires some extra configuration. This extra configuration is detailed in the following steps.

These changes are specific to Visual Studio 2012, but are expected to be relevant to other versions also.

Perform these steps on the web.config or app.config file of the application where “Add Service Reference” has been performed. A full example is presented at the end of this section:

1. Add an endpoint behavior that contains the client certificate to be used in authenticating to the service (NOTE – This takes advantage of the “default behaviour config” functionality in .NET 4.0) :

<behaviors>  
 <endpointBehaviors>  
 <behavior >  
 <clientCredentials supportInteractive="false" useIdentityConfiguration="true">  
 <clientCertificate findValue="[Insert your certificate thumbprint here]" x509FindType="FindByThumbprint" storeLocation="LocalMachine" storeName="My"/>  
 </clientCredentials>  
 </behavior>  
 </endpointBehaviors>  
 </behaviors>

1. If targeting a non-Production environment:
   1. Change “https://authentication.business.gov.au” to “https://thirdparty.authentication.business.gov.au” in the address attribute of these elements
      1. <issuer>
      2. <issuerMetadata>
   2. Change the address attribute of the client endpoint to match the target environment.

Here is a full **example** of a config file that works in the USI 3pt environment, using the MAS-ST test environment:

|  |
| --- |
| <?xml version="1.0" encoding="utf-8" ?>  <configuration>  <startup>  <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5" />  </startup>  <system.serviceModel>  <behaviors>  <endpointBehaviors>  <behavior>  <clientCredentials supportInteractive="false" useIdentityConfiguration="true"></clientCredentials>  </behavior>  </endpointBehaviors>  </behaviors>  <bindings>  <ws2007FederationHttpBinding>  <binding name="WS2007FederationHttpBinding\_IUSIService">  <security mode="TransportWithMessageCredential">  <message establishSecurityContext="false">  <issuer address="https://softwareauthorisations.evte.ato.gov.au/R3.0/S007v1.3/service.svc"  binding="ws2007HttpBinding"  bindingConfiguration="S007SecurityTokenServiceEndpoint" />  <tokenRequestParameters>  <trust:SecondaryParameters xmlns:trust="http://docs.oasis-open.org/ws-sx/ws-trust/200512">  <trust:KeyType>http://docs.oasis-open.org/ws-sx/ws-trust/200512/SymmetricKey</trust:KeyType>  <trust:KeySize>256</trust:KeySize>  <trust:KeyWrapAlgorithm>http://www.w3.org/2001/04/xmlenc#rsa-oaep-mgf1p</trust:KeyWrapAlgorithm>  <trust:Claims Dialect="http://schemas.xmlsoap.org/ws/2005/05/identity" xmlns:wsid="http://schemas.xmlsoap.org/ws/2005/05/identity">  <wsid:ClaimType Uri="http://vanguard.ebusiness.gov.au/2008/06/identity/claims/abn" />  <wsid:ClaimType Uri="http://vanguard.ebusiness.gov.au/2008/06/identity/claims/credentialtype" />  </trust:Claims>  <trust:EncryptWith>http://www.w3.org/2001/04/xmlenc#aes256-cbc</trust:EncryptWith>  <trust:SignWith>http://www.w3.org/2000/09/xmldsig#hmac-sha1</trust:SignWith>  <trust:CanonicalizationAlgorithm>http://www.w3.org/2001/10/xml-exc-c14n#</trust:CanonicalizationAlgorithm>  <trust:EncryptionAlgorithm>http://www.w3.org/2001/04/xmlenc#aes256-cbc</trust:EncryptionAlgorithm>  </trust:SecondaryParameters>  </tokenRequestParameters>  </message>  </security>  </binding>  </ws2007FederationHttpBinding>  <ws2007HttpBinding>  <binding name="S007SecurityTokenServiceEndpoint">  <security mode="TransportWithMessageCredential">  <transport clientCredentialType="None" proxyCredentialType="None" realm="" />  <message clientCredentialType="Certificate" negotiateServiceCredential="false" algorithmSuite="Basic256Sha256Rsa15" establishSecurityContext="false" />  </security>  </binding>  </ws2007HttpBinding>  </bindings>  <client>  <endpoint address="https://3pt.portal.usi.gov.au/service/v5/usiservice.svc"  binding="ws2007FederationHttpBinding" bindingConfiguration="WS2007FederationHttpBinding\_IUSIService"  contract="USIserviceV3.IUSIService" name="WS2007FederationHttpBinding\_IUSIService" />  </client>  </system.serviceModel>  </configuration> |