Machine to Machine HL7 SPL User Guide

Australian Unique Device Identification Database (AusUDID)

Version 1.4, December 2025

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## Purpose of this user guide

**We developed this guide to help sponsors, manufacturers and third party data providers use the HL7 SPL submission method in the Australian Unique Device Identification Database (AusUDID).**

**This guide:**

* **provides instructions for getting started**
* **defines roles and responsibilities**
* **lists key activities for setting up and testing data submission.**

### Machine to Machine HL7 SPL document suite

The table below describes each document provided in the [*M2M HL7 SPL – Implementation Package – AusUDID*](https://www.tga.gov.au/sites/default/files/2025-11/M2M%20HL7%20SPL%20-%20Implementation%20Package%20-%20AusUDID.ZIP)*.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Document** | **Australian UDI Data Dictionary** | **User Guide** | **Implementation Specification** | **Code List** | **Sample HL7 XML Message** |
| **Purpose** | Reference listing of all Australian UDI data elements including:   * data element names * descriptions * validation rules * Grace Period rules * permitted values * other useful metadata. | Overview of:   * UDI concepts * AusUDID submission channels, roles and environments * Data management rules * M2M workflow * API Management Portal * Provisioning security credentials * Testing scenarios – conformance. | Detailed instructions of:   * Versioning * Creating UDI records * Maintaining data * Schema and data attribute specifications. | Reference listing of codes and elements. | Series of sample HL7 XML messages for data submission and notifications (success and failure), including message annotations explaining the data attributes and intended purpose. |
| **Audience** | * Sponsors * Manufacturers * Agents * Third party data providers * Regulatory teams * Software development and support teams. | * Sponsors * Manufacturers * Third party data providers * Agents * Software development and support teams. | * Software development and support teams. | * Software development and support teams. | * Software development and support teams. |
| **Assumed Knowledge** | * UDI concepts * Australian regulations. | TBS Portal including access provisioning and/or understanding of Oauth 2.0 authentication framework. | HL7 SPL messaging protocols and system integration architecture patterns using XML schemas. | HL7 SPL messaging protocols and system integration architecture patterns using XML schemas. | HL7 SPL messaging protocols and system integration architecture patterns using XML schemas. |

### ****Terminology used in this guide****

This guide uses certain terminology consistently:

* *We* refers to the Therapeutic Goods Administration (TGA)
* *You* refers to you as a sponsor, manufacturer, agent, or third party data provider
* *UDI record* refers to a UDI-DI and related data published in the AusUDID.

### Symbols used in this guide

This guide uses symbols to show the type of content in a callout box:

|  |  |
| --- | --- |
| Warning symbol | The **information** symbol indicates additional details that support understanding. |
| Warning symbol | **The exclamation mark indicates important information.** |
| Link symbol | The **link** symbol indicates links to extra resources. |

## Introduction

The Australian Government introduced the Australian UDI system to strengthen patient safety and improve medical device traceability. This system is part of broader medical device reforms outlined in [An Action Plan for Medical Devices](https://www.tga.gov.au/resources/publication/publications/medical-devices-reforms-action-plan-medical-devices).

The UDI system supports the identification of medical devices and other [medical device reforms](https://www.tga.gov.au/how-we-regulate/supply-therapeutic-good/supply-medical-device/medical-devices-reforms). It is designed to improve the effectiveness of the regulatory framework, including management of post-market safety-related activities such as recalls.

The inability to effectively and efficiently track and trace medical devices that have been supplied to or implanted into patients has constrained timely clinical and regulatory action in a number of medical device safety crises. This includes hip implants, urogynaecological mesh and breast implants.

By introducing UDI, Australia joins a globally harmonised approach that enables more accurate identification of medical devices.

### Managing data in the Australian UDI Database (AusUDID)

The AusUDID is Australia’s repository for UDI-DIs and related data. It stores information about each model of medical device to improve traceability of devices supplied in Australia. Patients, consumers, clinical quality registries and health professionals can view and download device information at no cost.

|  |  |
| --- | --- |
| Link symbol | You can access the AusUDID here: [TGA AusUDID](https://ausudid.tga.gov.au/). |

Sponsors and manufacturers can use one of 4 methods to supply data to the AusUDID.

Figure 1: Australian UDI Database (AusUDID) submission methods

Australian UDI Database Submission Methods:
1. AusUDID Online Portal
Manually enter one UDI record at a time using the AusUDID online portal. Recommended for users with a small number of UDI records or users new to the AusUDID. 
2. Bulk Upload via Microsoft Excel Template
Enter up to 200 UDI records into an Excel template that includes basic field validation and submit via the AusUDID web application. Recommended for users with a small to medium number of UDI records. 
3. Machine to Machine via HL7 SPL
Submit UDI records through an electronic submission gateway. The gateway receives records in XML files that comply with Health Level 7 (HL7) Structured Product Labelling (SPL). Recommend for users with a large number of UDI records, users with good technical support or knowledge, users familiar with HL7 SPL or users using a Third Party Data Provider.
4. Machine to Machine via GS1's National Product Catalogue
Submit UDI records using GS1's National Product Catalogue. Recommended for users with large numbers of UDI records and users who already use the NPC.

### Accessing the AusUDID

To access the AusUDID for data submission purposes, you must have a TGA Business Services (TBS) user account under a sponsor, manufacturer, or agent organisation account.

If your organisation does not have a TBS account, contact the TBS Helpdesk at [ebs@health.gov.au](mailto:ebs@health.gov.au).

If you do not have a user account under your organisations TBS account, contact your Administrator.

|  |  |
| --- | --- |
| Warning symbol | Third party data providers **cannot** create their own TBS account or access the AusUDID under their own organisation.  The AusUDID uses real data sources to validate data submissions, including test submissions. As third party data providers do not possess their own data, they cannot have separate test accounts as they would be unable to pass data validation.  Third party data providers must work with their clients to test AusUDID submissions. |

You do not need to have a TBS account to submit UDI records using HL7 SPL; however, the transaction must contain the Subscription Key of the organisation under which the UDI records are being submitted. For example, if a third party data provider is submitting UDI records on behalf of a sponsor, they must include the sponsor’s Subscription Key in their transaction.

|  |  |
| --- | --- |
| Information symbol | A member of the sponsor or manufacturer organisation with a TBS user account must access the AusUDID to review test data once submitted by a third party data provider. |

A TBS user will need to access the AusUDID Pre-Production environment to facilitate review of submitted test data.

## Prerequisite knowledge

To successfully submit UDI records via the HL7 SPL API, you should be familiar with the following prerequisites.

### AusUDID data rules

UDI records submitted to the AusUDID using the HL7 SPL API are required to comply with data rules and permitted values.

|  |  |
| --- | --- |
| Link symbol | You can find the details on each Australian UDI data element, permitted values and other useful metadata in the [Australian UDI Data Dictionary](https://www.tga.gov.au/how-we-regulate/manufacturing/manufacture-medical-device/unique-device-identification-udi-hub/udi-resources-and-technical-documents/draft-australian-udi-data-dictionary). |

### Testing of HL7 SPL submission

If you choose HL7 SPL to submit UDI records to the AusUDID, you must first complete testing in the AusUDID Pre-Production environment.

Testing in the AusUDID Pre-Production environment helps to identify data issues early and prevent submission of inaccurate or low quality data to the AusUDID Production environment.

Testing requirements are further described in [Validating your HL7 SPL data submission](#_Validating_your_HL7).

### Access controls

Submission of UDI records through the HL7 SPL API requires you to have the following elements in place:

* **Access Token**: The Access Token authorises the application to send requests to the AusUDID API
* **Client ID and Secret**: The Client ID and Secret combination identifies the organisation submitting the UDI record to the API
* **Subscription Key**: The Subscription Key identifies the sponsor or manufacturer organisation that the UDI record is submitted on behalf of. It is associated with the sponsor or manufacturer’s TGA Business Services (TBS) account and is generated by a user within the TBS account.

|  |  |
| --- | --- |
|  | The TBS user generating the Subscription Key must be assigned the TBS role of ‘Submitter’. |

### XML Request Header

UDI records that you submit through the HL7 SPL channel must have 2 key values in the Request Header:

|  |  |
| --- | --- |
| **1. Access Token** | Must be provided in the ‘Authorization’ field |
| **2. Subscription Key** | Must be provided in the ‘Ocp-Apim-Subscription-Key’ field. |

Figure 2 illustrates the message flows between the sponsor or manufacturer (data supplier) and the AusUDID. It provides context to the remaining sections of this document.

Figure 2: Illustration of the message flows between sponsor or manufacturer (data supplier) and the AusUDID

Illustration of the message flows between the Data Supplier and the AusUDID. 
1. Complete an Oauth 2.0
Client Credentials flow with the provisioned Client ID/Secret
2. Credentials are validated
3. Access Token is returned
Can be reused until it expires. 
4. POST the HL7 message with the Access Token and Subscription Key provided in the Request Header.
5. UDI API validates:
- Access Token
- Subscription Key
- HL7 UDI Message
6. UDI API returns either a success or error message.

## Roles and responsibilities

### HL7 SPL submitters

UDI records can be submitted to the AusUDID using HL7 SPL by 4 types of submitters:

* [manufacturer submitters](#_Manufacturer_submitters)
  + organisations that are both sponsor and manufacturer are not considered manufacturer submitters
* [sponsor submitters](#_Sponsor_submitters)
  + organisations that are both sponsor and manufacturer are considered sponsor submitters
* [third party data provider submitters](#_Third_Party_Data)
* [agent submitters.](#_Agent_submitters)

#### Manufacturer submitters

Manufacturer submitters are organisations that have the role of manufacturer in TBS.

|  |  |
| --- | --- |
| Information symbol | For the purposes of the HL7-SPL submission, an organisation who is both the ‘sponsor and manufacturer’ is considered a sponsor submitter. Only organisations that are manufacturer **only** are considered manufacturer submitters. |

It is important to note that manufacturer submitters **cannot** submit sponsor-owned data such as ARTG details via HL7 SPL. Each HL7 SPL message must contain the full UDI record, so if the sponsor also intends to submit their sponsor-specific data via HL7 SPL, it may be redundant for the manufacturer to submit separately.

However, if the sponsor intends to add their sponsor-specific data manually or via the *Australian UDI Bulk ARTG to UDI Template*, it may be more efficient for the manufacturer to submit the UDI records via HL7 SPL.

The best approach depends on how the manufacturer and sponsor agree to coordinate their data submission responsibilities.

*Tip: where both parties intend to use HL7 SPL, it may be more effective for the manufacturer to act as a third party data provider for the sponsor, allowing them to submit UDI records on behalf of the sponsor including sponsor-specific data.*

|  |  |
| --- | --- |
| Link symbol | For the definition of manufacturer, see Section 41BG in Part 4-1 Division 2 of the [*Therapeutic Goods Act 1989*](https://www.legislation.gov.au/C2004A03952/2025-09-05/2025-09-05/text/original/epub/OEBPS/document_2/document_2.html#_Toc209089833)*.* |

#### Sponsor submitters

Sponsor submitters are organisations that have the role of sponsor in TBS.

Organisations that are both sponsor and manufacturer have the role of sponsor submitter.

|  |  |
| --- | --- |
| Link symbol | For the definition of sponsor, see Chapter 1 Section 3 of the [*Therapeutic Goods Act 1989*](https://www.legislation.gov.au/C2004A03952/2025-09-05/2025-09-05/text/original/epub/OEBPS/document_1/document_1.html#_Toc209089494)*.* |

#### Third party data provider submitters

A third party data provider is a person or company that curates and submits data on behalf of a sponsor or manufacturer.

#### Agent submitters

An agent is a person duly authorised in writing to act on behalf of the sponsor or manufacturer of the goods.

### Sponsor and manufacturer submitters acting on their own behalf

As a sponsor or manufacturer submitting UDI records to the AusUDID through the HL7 SPL channel directly from using your own IT system, you must:

* request a Client ID and Secret
* generate a Subscription Key.

### Sponsor and manufacturer submitters using a third party data provider

As a sponsor or manufacturer submitting UDI records to the AusUDID through a third party data provider, you must:

* generate a Subscription Key
* give the Subscription Key to your third party data provider.

You are not required to have your own Client ID and Secret if you are using a third party data provider. Only your third part data provider must have a Client ID and Secret.

|  |  |
| --- | --- |
|  | If you give the Subscription Key to a third party data provider, this allows them to submit UDI records to the AusUDID on your behalf. It does not grant them access to your TBS account.  If you wish to remove the third party data provider’s ability to submit UDI records on your behalf, you can regenerate the Subscription Key. This will invalidate the existing Subscription Key previously provided to the third party data provider.  Sponsors and manufacturers are always responsible for the data supplied to the TGA, even if data is submitted via a third party data provider. |

### Third party data provider submitters

As a third party data provider submitting UDI records to the AusUDID through the HL7 SPL channel, you must:

* request a Client ID and Secret
* work with each organisation you are submitting UDI records on behalf of to obtain their Subscription Key. If supplying UDI records on behalf of multiple organisations, you will need to manage Subscription Keys for each.

If a sponsor or manufacturer regenerates the Subscription Key and does not provide you the new Subscription Key, you will be unable to submit UDI records to the AusUDID through the HL7 SPL channel on their behalf.

## Getting started

This section details key for getting started.

### Requesting a Client ID and Secret

To obtain a Client ID and Secret, you must contact the UDI Support Team at [UDI@health.gov.au](mailto:UDI@health.gov.au).

When you request the Client ID and Secret, you must provide:

* your organisation name
* contact details of your organisation’s administrator (if sponsor or manufacturer) or main contact (if third party data provider), including:
  + name
  + position
  + email
  + phone number.

The UDI Support Team will create and provide your organisation’s Client ID and Secret. You use the Client ID and Secret to generate the Access Token for your HL7 SPL message. The UDI Support Team does not generate the Access Token.

|  |  |
| --- | --- |
|  | Please note that this process may take up to 2 weeks. We recommend you prepare early. |

### Generating a Subscription Key

You can generate Subscription Keys in the UDI APIM Portal. You must have different keys for each of the AusUDID environments:

* AusUDID Pre-Production
* AusUDID Production.

**URLs to each AusUDID environment:**

|  |  |
| --- | --- |
| **AusUDID Pre-Production environment:** | [https://data-api-rc-portal.health.gov.au/](https://data-api-rc-portal.health.gov.au)[https://data-api-rc-portal.health.gov.au](https://data-api-rc-portal.health.gov.au/) |
| **AusUDID Production environment:** | <https://data-api-portal.health.gov.au/> |

As a sponsor or manufacturer, you can share your Subscription Key with multiple third party data providers. However, we recommend that you create a new API Subscription for every third party data provider. This allows you to revoke the access of one third party data provider without affecting other users of that Subscription Key.

|  |  |
| --- | --- |
|  | Third party data providers cannot generate Subscription Keys. As a third party data provider, you must work with the sponsor or manufacturer and request that they generate a Subscription Key and provide this to you. |

See below the instructions for using the APIM Portal to generate a Subscription Key in both the AusUDID Pre-Production and Production environments.

|  |  |
| --- | --- |
| Instruction | Pre-Production |
| Navigate to the relevant APIM Portal using the links provided above. | AusUDID Pre-Production APIM Portal login screen with the option to login or register. |
| Select ‘Login with TGA’ and login with your TBS credentials. | Secondary login screen with 2 options to login. Users must select the 'Login with TGA' option.  Login to TGA Business Services screen. Users must enter username and password. |
| Once logged into the APIM Portal, click on the ‘Products’ tab in the navigation bar at the top right of the screen. | APIM Portal landing page with several options in the menu bar. Users must select the 'Products' tab. |
| In the ‘Products’ page, click on the ‘UDID PreProd’ link. | Products tab landing page. Users must select the 'UDID PreProd' link. |
| You will be redirected to a page to name your subscription to the AusUDID HL7 SPL API.  Enter a descriptive name that relates to the use of the key (for example Key for Acme Inc third party data provider).  Click on ‘Subscribe’. | Image of the page to name your subscription to the AusUDID HL7 SPL API. |
| You will be presented with the details of your newly created subscription:   * The ‘Primary Key’ is the Subscription Key * The ‘Secondary Key’ also functions as a Subscription Key. This alternative key allows you to provide different keys to different systems or users, if you wish to do so. | Image of the newly created subscription. |

|  |  |
| --- | --- |
| Instruction | Production |
| Navigate to the relevant APIM Portal using the links provided above. | AusUDID Production APIM Portal login screen with the option to login or register. |
| Select ‘Login with TGA’ and login with your TBS credentials. | Secondary login screen with 2 options to login. Users must select the 'Login with TGA' option.  Login to TGA Business Services screen. Users must enter username and password. |
| Once logged into the APIM Portal, click on the ‘Products’ tab in the navigation bar at the top right of the screen. | APIM Portal landing page with several options in the menu bar. Users must select the 'Products' tab. |
| In the ‘Products’ page, click on the ‘UDID Prod’ link. | Products tab landing page. Users must select the 'UDID Prod' link. |
| You will be redirected to a page to name your subscription to the AusUDID HL7 SPL API.  Enter a descriptive name that relates to the use of the key (for example Key for Acme Inc third party data provider).  Click on ‘Subscribe’. | Image of the page to name your subscription to the AusUDID HL7 SPL API. |
| You will be presented with the details of your newly created subscription:   * The ‘Primary Key’ is the Subscription Key. * The ‘Secondary Key’ also functions as a Subscription Key. This alternative key allows you to provide different keys to different systems or users, if you wish to do so. | Image of the newly created subscription. |

|  |  |
| --- | --- |
| Information | If you want to view the history of previously generated subscription keys, do so by following these steps:   * Select ‘Profile’ in the navigation bar * Scroll to ‘Subscriptions’ * Select ‘Show’. |

#### Revoking access to a Subscription Key

If you wish to revoke access via a Subscription Key (including if used by a third party data provider), you can do so by either:

* cancelling the subscription, or
* regenerating the Subscription Key.

### Generating an Access Token

You can generate an Access Token by completing an OAuth 2.0 Client Credentials flow. To do this, you must have the Client ID and Secret.

Third party data providers only need a single Client ID and Secret.

The Access Token can be used in conjunction with multiple Subscription Keys as the Subscription Key itself identifies the organisation which they are acting on behalf of.

Once you have the Client ID and Secret, you must send a POST request to the URL below to generate the Access Token.

**URL to send a POST request for both AusUDID environments:**

|  |  |
| --- | --- |
| **AusUDID Pre-Production and Production environment:** | <https://login.microsoftonline.com/4a3cd791-0600-4b56-9f17-befb124fbe03/oauth2/v2.0/token> |

Example POST request using curl:

curl -s --request POST \

--url 'https://login.microsoftonline.com/4a3cd791-0600-4b56-9f17-befb124fbe03/oauth2/v2.0/token' \

--header 'content-type: application/x-www-form-urlencoded' \

--data grant\_type=client\_credentials \

--data client\_id=**YOUR\_CLIENT\_ID** \

--data client\_secret=**YOUR\_CLIENT\_SECRET** \

--data scope=**YOUR\_CLIENT\_ID**/.default

If the POST request is successful, you will receive a response that contains the JWL Bearer Token.

Note that the token expiry time in seconds is included in the response message. 3599 seconds is 1 hour.

{

    "token\_type":"Bearer",

    "expires\_in":3599,

    "ext\_expires\_in":3599,

    "access\_token":"THE\_ACCESS\_TOKEN"

}

If the Client ID is incorrect, you will receive an error message like the one shown below:

{

"error":"unauthorized\_client",

"error\_description":"AADSTS700016: Application with identifier‘YOUR-INCORRECT- CLIENT-ID‘ was not found in the directory 'Department of Health'… ",

"error\_codes":[700016],

"timestamp":"2023-11-09 02:57:06Z",

"trace\_id":"…",

"correlation\_id":"…",

"error\_uri":"https://login.microsoftonline.com/error?code=700016"

}

If the Secret is incorrect, you will receive an error message like the one shown below:

{

"error":"invalid\_client",

  "error\_description":"AADSTS7000215: Invalid client secret provided. Ensure the secret being sent in the request is the client secret value, not the client secret ID, for a secret added to app 'CLIENT-ID'…",

  "error\_codes":[7000215],

  "timestamp":"2023-11-09 02:56:30Z",

  "trace\_id":"…",

  "correlation\_id":"…",

  "error\_uri":"https://login.microsoftonline.com/error?code=7000215"

}

|  |  |
| --- | --- |
|  | You add the generated Access Token to the Authorization Header of your HL7 SPL message, in the following format:  Authorization Bearer YOUR\_ACCESS\_TOKEN |

#### Expired Access Token

If you receive a ‘Unauthorized. Access token is missing or invalid’ error message, this is because your Access Token has expired.

You must generate a new Access Token.

### Submitting a UDI record through the API

Once you have the Access Token and Subscription Key, you can submit UDI records through the API using a HL7 SPL message.

You can use the HL7 SPL message to:

* create the initial UDI record
* update the UDI record
* correct the UDI record.

|  |  |
| --- | --- |
|  | The HL7 SPL channel does not support submission of draft UDI records. It does support submission of ‘unpublished’ UDI records when the record has a future publish date. |

|  |  |
| --- | --- |
|  | Each message request equates to a single UDI record. |

The Access Token can be reused for multiple messages until it expires. You do not need to generate Access Tokens for each individual UDI record or message.

You must include the Access Token in the Authorization header field and the Subscription Key in the Ocp-Apim-Subscription-Key header field.

The body of the request will be the HL7 SPL XML message.

Example post request using curl:

curl -v --location "[https://data-api-rc.health.gov.au/pp/udid/api/v1/hl7"](https://data-api-rc.health.gov.au/pp/udid/api/v1/hl7%22) \

--header "Content-Type: application/xml" \

--header "Authorization: Bearer YOUR\_ACCESS\_TOKEN" \

--header "Ocp-Apim-Subscription-Key: YOUR\_SUBSCRIPTION\_KEY" \

--data-binary "@hl7\_message.xml"

|  |  |
| --- | --- |
|  | The above curl command assumes that you have a file called hl7\_message.xml in the directory you are running the command from. The contents of this XML file will be sent as the request body. |

The AusUDID response below is what you will receive when the submission is successful.

In this example, the Primary DI is TEST123456.

<AusUDIDSPLResponse xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<Success>true</Success>

<ProcessedAt>11/1/2023 3:50:00 AM</ProcessedAt>

<PrimaryDI>TEST123456</PrimaryDI>

<Errors />

</AusUDIDSPLResponse>

The response below shows a failed submission.

In this example, the error is because of the ‘Brand Name’ field is longer than 80 characters.

<?xml version="1.0" encoding="utf-16"?>

<AusUDIDSPLResponse>

<Success>false</Success>

<Errors>

<SPLError>

<Property>BrandName</Property>

<Message>Brand name must be between 1 and 80 characters</Message>

</SPLError>

</Errors>

</AusUDIDSPLResponse>

|  |  |
| --- | --- |
|  | Failed submissions are not retained in the AusUDID or kept as drafts. |

If the UDI record’s publish date in the HL7 document is today or in the past, the UDI record will be published immediately. If the UDI record publish date is in the future, it will be created as an ‘unpublished UDI record’ which will automatically publish when the scheduled date is reached. Once the UDI record is published, the UDI record’s ‘Grace Period’ will commence.

|  |  |
| --- | --- |
|  | The Grace Period is a set time frame that begins once you have published your initial version of the UDI record. During this time frame, you can make any needed changes to any data element. The purpose of the Grace Period is to allow you fix errors in the UDI record due to data entry errors or technical issues.  The length of the Grace Period is subject to change as we introduce UDI and the AusUDID. You can find the current length of the Grace Period on the UDI Hub, or when updating or correcting a UDI record. |

UDI records that are in the Grace Period are visible to public users. Only UDI records that are submitted without an ARTG are not shown to public users.

Once the UDI record is out of the Grace Period, it will be subject to the UDI Trigger Data Elements rules. This means that changes to those data fields defined as UDI Trigger Data Elements will require a new UDI record, per the rules defined in the Australian UDI Data Dictionary. If you need to correct the UDI record due to an error, you can do so by sending a HL7 request using the correction message type code, or by prefiling a correction request through the AusUDID online portal which will treat the next update you submit via the HL7 channel as a correction.

### Verifying UDI record submission

Once you have successfully published a UDI record, you can view your UDI record online in the AusUDID portal. To do so, you must log into the AusUDID with your web browser.

Once logged in, select ‘My UDI Records’ to see the UDI records created by your organisation.

If you are a third party data provider, your client can view their UDI records online in the AusUDID portal.

### Sample Postman Collection

We have included a sample Postman Collection as part of the HL7 SPL suite of documents. See the instructions below for importing and customising the Postman Collection.

|  |  |
| --- | --- |
| Instruction | Postman Collection |
| Import the ‘M2M HL7 SPL Postman API Collection’ for the relevant Product or Pre-production environment. |  |
| Select the collection name and then select the ‘Variables’ tab.  Enter your Client ID and Secret into the ‘value’ column. The ‘TenantID’ value will be 4a3cd791-0600-4b56-9f17-befb124fbe03 |  |
| Select the ‘Authorization’ tab.  Scroll down and select the ‘Get New Access Token’ button.  Select ‘Proceed’ and ‘Use Token’.  This Access Token will now be automatically included on all requests in the Authorization Header. A new Access Token will need to be requested when the current Access Token expires. | New Access Token configuration screen displaying information such as Token Name, Access Token URL, Client ID and Secret. |
| Select the ‘Submit UDI Record’ button and then select the ‘Headers’ tab.  Replace the ‘Ocp-Apim-Subscription-Key’ value to the Subscription Key that you generated in the APIM.  Select the ‘Body’ tab and fill out the request payload with the UDI HL7 SPL XML message. | Postman collection with Submit UDI Record button, headers button and value column highlighted. |

## Validating your HL7 SPL data submission

Before you can connect software to the AusUDID, you will need to ensure your software has successfully transmitted the HL7 SPL message.

This testing will occur in the AusUDID Pre-Production environment.

You must advise us that the Pre-Production testing of your HL7 SPL messages have occurred before submitting data through the AusUDID Production API.

This testing is to confirm:

* Correct transmission of the HL7 SPL message
* Compatibility with the AusUDID messaging services and platform
* Integrity of the UDI record(s)
* Acceptable system performance and load management
* Correct detection and management of errors.

After you have completed thorough internal testing you are required to complete all stages of testing outlined below.

|  |  |
| --- | --- |
|  | Once you have successfully published a UDI record, you can view your UDI record online in the AusUDID portal. To do so, you must log into the AusUDID with your web browser.  Once logged in, select ‘My UDI Records’ to see the UDI records created by your organisation.  If you are a third party data provider, your client can view their UDI records online in the AusUDID portal. |

### Stage 1 – Simple message validation

Stage 1 assesses your ability to successfully send transactions and manage any submission issues using a simple set of UDI records.

You must run a set of HL7 SPL transactions that:

* Verifies both successful and unsuccessful transactions and creation of UDI records
* Represents the breadth of devices that the sponsor or manufacturer organisation supplies in Australia
* Includes varying device characteristics, for example, UDI records with and without Direct Marking DIs, Package DIs, or varying clinical characteristics.

Your initial dataset should be limited to 30 UDI records and should only be new UDI records.

During Stage 1, we recommend you create UDI records with today’s publish date.

### Stage 2 – Advanced message validation

Stage 2 increases the complexity and scale of testing. This stage focuses on more complex UDI records and includes Corrections to UDI records.

You must only commence Stage 2 once you have completed Stage 1 successfully.

Your dataset for Stage 2 should be limited to 100 UDI records and should include both new and corrected UDI records.

### Stage 3 – Data volume validation

Stage 3 increases the scale of testing. This stage focuses on large volumes of UDI records.

You must only commence Stage 3 once you have completed Stages 1 and 2.

You are not limited to a set number of UDI records for Stage 3.

### Stage 4 – Complex data scenarios

Stage 4 includes specific testing scenarios.

|  |  |  |  |
| --- | --- | --- | --- |
| Test scenario | Test description | Record changes or updates | Success criteria |
| **Scenario 1** | Submit a new UDI record with today’s publish date | None. | UDI record is submitted to AusUDID as a published UDI record. |
| **Scenario 1a** | Update the newly submitted UDI record during the Grace Period. | We suggest you update the following data element(s):   * Brand Name * For Single Use * MRI Safety Information. | UDI record is updated correctly. |
| **Scenario 2** | Submit a new UDI record with a future publish date. | None. | UDI record is submitted to AusUDID as an unpublished UDI record. |
| **Scenario 2a** | Update the newly submitted UDI record. | Change the UDI record publish date to today’s date. | UDI record is updated correctly.  UDI record displays as published. |
| **Scenario 3** | Submit a new UDI record with today’s publish date.  UDI record must include a package hierarchy. | None. | UDI record is submitted to AusUDID as a published UDI record.  UDI record displays package hierarchy correctly. |
| **Scenario 3a** | Update the newly submitted UDI record after the Grace Period. | We suggest you update the following data element(s):   * Sponsor commercial distribution end date * Storage and handling information * Clinically relevant size information. | UDI record is updated correctly. |

### Completing testing

Upon completion of testing please send the following information to: [UDI@health.gov.au](mailto:UDI@healthg.gov.au)

For each test scenario:

* Primary DI Number
* For Scenarios 1a, 2a and 3a, AusUDID Data Elements changed, value before change and value after change.

Version history

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Description of change | Author | Effective date |
| V1.0 | Original publication | Devices Reforms Taskforce |  |
| V1.1 | Revisions for multiple sponsor and other editorial changes | Devices Reforms Taskforce | March 2025 |
| V1.2 | Updates to test scenarios.  Minor wording and formatting updates. | Devices Reforms Taskforce | May 2025 |
| V1.3 | Added section about IP whitelisting  Minor wording and formatting updates. | Devices Reforms Taskforce | October 2025 |
| V1.4 | Removed IP whitelisting requirements and improved clarity. | Devices Reforms Taskforce | December 2025 |