

Machine to Machine HL7 SPL Implementation Specification

Australian Unique Device Identification Database (AusUDID)

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1 Introduction

For the purpose of this document:

- UDI record refers to a UDI-DI and related data published as a record to the AusUDID
- We refers to the Therapeutic Goods Administration.

1.1 Purpose of this document

We have created this Implementation Specification to assist you in implementing the HL7 SPL data submission and messaging standard for the Australian UDI Database (AusUDID).

This user guide is part of a suite of documents that support the sponsors and manufacturers (or their Third Party Data Providers) who will supply data to the AusUDID via HL7 SPL.

We have created this suite of documents to help you:

- comply with UDI requirements
- understand the IT requirements of the AusUDID
- submit and verify UDI records in the AusUDID.

We have explained the suite of documents in the table below:

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.

1.2 Symbols and concepts used in this document

1.2.1 Callout boxes



Items that need your attention are shown by a callout box. Callout boxes have an exclamation mark showing their importance.

1.2.2 XML components

When we refer to XML components, for example elements or attributes, versus the concept – this is shown with the following symbolisation:

- XML elements and attributes:
- In text: bold, italicised text in Camel case, for example *ContextOfUse*
- Within XML: shown as noted in <u>XML snippets</u>
- Concept without attribution to the model or message:
- Plain text with the first letter capitalised as it is a defined concept, for example Unit of Use1.

¹ These concepts are defined in the Australian UDI Data Dictionary.

1.2.3 XML snippets

We have used colour coding in the XML snippets to illustrate their meaning. The table below explains this.

Legend for XML snippets

Text colour	Description sample			
Teal	Schema components			
	xml version "1.0" encoding="UTF-8"?			
Blue	XML notations			
	<= ⁴⁰⁵			
Brown	XML element			
	id code			
Red	XML attribute			
	root extension			
Blue	Value of the element or attribute			
	2.16.840.1.113883			



XML editors may display these XML components differently. You can use the legend above to understand XML presented in this document.

1.2.4 Required schema attributes

The AusUDID HL7 SPL message contains attributes that are not fixed values to provide for future extensibility of the schema. When you submit an AusUDID HL7 SPL submission, you need to send these attributes with the value as specified in this document. We have specifically stated all schema attributes for each element, when required.

For example:

• The *manufacturedProduct@classCode* value must be equal to 'MANU' to pass schema validation. Any other value in this field may cause the schema validation to fail.

In the example above, the value for the *classCode* attribute should be 'MANU'. In the future, this may be fixed in the schema, but for increased extensibility of the schema, it has not been constrained any further.

1.2.5 XML elements table

We have provided a table for each element in the XML message.

When elements have multiple element parts of attributes, they are provided in one table.

Where there are no attributes or values for an element, the cell is greyed out to indicate that no value is required in the XML message.

1.2.5.1 Sample XML element table

Table Name: <element>

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
	XPATH:			
Business Rules				

Table Name: Each table is named for the elements it is representing in the XML – i.e. <element> or <element 2>.

Element: Identifies the XML element.

Attribute: Identifies the XML attribute.

Cardinality: Provides information on how many times the element/attribute can be repeated in the XML message.

Value(s) Allowed/Examples: Identifies the values allowed using simple data types and any associated examples. References to controlled vocabulary will also be provided.

Description/Instructions: Provides a description of the element or attribute.

XPATH: Identifies the location of the data element or attribute in the XML.

Business Rules: Identifies any business rules that are in place for AusUDID.

2 Unique Device Identification (UDI)

The Australian Government is strengthening patient safety by introducing the Australian UDI system for medical devices.

The UDI system supports the identification of medical devices and other <u>medical device reforms</u>. It is designed to improve the effectiveness of the regulatory framework, including management of post-market safety-related activities such as recalls.

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

2.1 Unique Device Identifiers

For detailed information about Australia's UDI system and unique device identifiers, refer to the <u>UDI</u> <u>Hub</u>.

2.2 Australian UDI Database (AusUDID)

We have established the AusUDID as the repository for UDI-DIs and related data in Australia. The AusUDID stores the UDI-DI and related information for most medical devices and in vitro diagnostic (IVD) devices supplied in Australia. UDIs can help to improve tracking and traceability of medical devices supplied in Australia.

There are 2 environments for the AusUDID:

- AusUDID Production
- AusUDID Pre-Production.

There are 4 data submission methods supported by the AusUDID:

- AusUDID Online Portal
- Bulk Upload via Microsoft Excel Template
- Machine to Machine via HL7 SPL
- Machine to Machine via GS1's National Product Catalogue.

2.2.1 AusUDID Pre-Production

The AusUDID Pre-Production environment is a test and training environment for medical device sponsors and manufacturers. As the information in the AusUDID Pre-Production environment is testing and training data, patients, consumers, healthcare and the general public do not use the data stored in this database.

It operates alongside the AusUDID Production environment, serving as an environment for sponsors and manufacturers to:

- familiarise themselves with the AusUDID
- test their respective data submission methods prior to submitting live data to the AusUDID.

Data submitted to the AusUDID Pre-Production environment is not transferred to the AusUDID Production environment.

2.2.2 AusUDID Production

The AusUDID Production environment is the live database for medical device sponsors and manufacturers to submit live, accurate data to meet UDI requirements.

2.3 The AusUDID API Portal

The AusUDID API Portal:

- Enables the TGA to process submissions automatically
- Functions as a single point of entry for the receipt and processing of all electronic submissions in a secure environment that complies with messaging standards.

Access to the TGA API Portal is described in the document *Machine to Machine HL7 SPL User Guide.*

If you are authorised, the HL7 message will be sent to the AusUDID API for processing and will generate either a success message or error message.

If you are not authorised to use the HL7 SPL channel, for example if you are not registered or your Client ID and Secret is incorrect, you will receive a HL7 SPL gateway error.

If you do not receive an acknowledgement, you must contact the UDI Support Team at <u>UDI@health.gov.au</u> including the message identifier and the UDI-DI of the respective UDI record.

3 AusUDID HL7 SPL submission

AusUDID uses HL7 SPL Draft Standard for Trial Use (DSTU) Release 5 along with standard vocabularies.

3.1 Pre-requisites

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

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

We have provided testing requirements in the document *Machine to Machine HL7 SPL Channel User Guide.*

3.2 Versioning HL7 SPL submissions

An AusUDID HL7 SPL submission contains only one UDI record to optimise the processing of submissions.

The initial UDI record submission establishes a UDI record in the AusUDID.

After initial submission, any updates must include the entire UDI record device data – i.e. the AusUDID message does not contain partial UDI records or individual changes to a prior submission. Each time the submission is received, all business rules will be executed on the contents of the HL7 SPL submission.

A sponsor will only provide their own sponsor data in the message. i.e. if a UDI record already has Sponsor A's ARTG data associated with it, Sponsor B will not include this in the message.

The AusUDID HL7 SPL submission contains document information for the message that allows the AusUDID system to link the initial submission to any subsequent updates. All submissions must include a setId and versionNumber in accordance with the following rules:

- The setId indicates the group of submissions that are related
- Updates to a UDI record typically use the same setId value provided in the initial submission
- An organisation may reset the setId (send a new setId). The versionNumber must be restarted at 1
- If the setId is changed, the old setId will be made inactive. Attempting to reuse it will result in the submission being rejected
- For subsequent transmissions, the versionNumber must be incremented by 1. This ensures that the setId and versionNumber are unique and that submissions are processed in the correct order and prevents older versions from overwriting newer versions
- Organisations must maintain setId and versionNumber to submit updates to the UDI record
- Once the UDI record has been published, the UDI record Publish Date cannot be changed. For UDI record edits after the UDI record is published, you must still provide a current UDI record Publish Date as this is a required field. However, the original submitted Publish Date will not be changed in the UDI record. See <u>5.1.3, UDI record Publish Date</u> for more information.

3.3 Updating UDI records



UDI records that you create through the HL7 SPL submission method should not be updated by any other submission option when the UDI record is in the Grace Period, or UDI record status is 'Unpublished' as this may cause unexpected synchronisation issues during future updates.

If you wish to update a UDI record that you originally created in the online portal using HL7 SPL, you need to assign a new setId and a new version number. This is because the UDI record will not have either of these values associated with it. We recommend testing this in the AusUDID Pre-Production environment before applying updates in AusUDID Production environment.

The system will update the entire UDI record with the new version if all business rules are passed (i.e. any changes must comply with all business rules before, during or after the Grace Period). The Grace Period is a set time frame that begins once you have published your initial version of the UDI record. During this time, you can make 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.

- Grace Period does not apply i.e. an unpublished UDI record with future UDI record Publish Date – the system will update the existing UDI record if the submitted changes meet all business rules. There are no restrictions on changing values for any data elements.
- During the Grace Period i.e. a published UDI record with current UDI record Publish Date and during the Grace Period the system will update the existing UDI record if the submitted changes meet all business rules.
- After the Grace Period i.e. a published UDI record that was published and the Grace Period has passed the system will update the existing UDI record if the submitted changes meet all business rules. Changes related to UDI Trigger data elements² will be rejected unless a correction request is made via the AusUDID Online portal.

Refer to <u>Correcting UDI records</u> for more information on correction requests.

3.4 Correcting UDI records

When a UDI record is initially submitted and published, the UDI record starts the 'Grace Period'. During the Grace Period, all UDI record data elements (except the UDI record Publish Date, Device Manufacturer and Primary DI) may be edited. The Grace Period gives organisations a short period to review and correct their data. After the Grace Period passes, UDI record edits are restricted, specifically, edits to the UDI Trigger data elements are not allowed.

When a device is associated with Multiple Sponsors, a correction must be used to change any of the common device data elements. A sponsor can change their own sponsor data without the use of a correction.

Refer to the Australian UDI Data Dictionary for more information on which data elements are UDI Triggers, and details of which data elements may be edited during or after the Grace Period.

² DI Trigger data elements are those, which when changed, require a new Device Identifier to be assigned.

Data corrections, including corrections to the UDI Trigger data elements, is necessary to ensure quality device identification information is available to healthcare and the public. AusUDID supports corrections to a UDI record with the reason for the correction captured in update logs.



Do not use the 'Request a Correction' function to submit edits to UDI records if the changes require the assignment of a new UDI-DI. When a new UDI-DI is assigned, you must submit a new UDI record in the AusUDID.

- Corrections can be submitted via the M2M HL7 SPL using the specific AU1002 correction code.
- Alternatively, you can pre-file a correction request via the AusUDID Online Portal and then use the standard C101716 submission create/vary code which will be converted to a correction.
- The pre-filed correction request is a one-time use, and further corrections will require a new request to be filed.
- Any Published UDI record that has passed Grace Period (i.e. after-grace-period) can have a correction request.
- A single UDI record or multiple UDI records may be selected at any given time for a correction request.
- Corrections can be made within 5 calendar days (starting the day the correction request is made).
- All data elements except the UDI record Publish Date, Device Manufacturer and Primary DI can be edited as part of a correction.
- When the device is associated with Multiple Sponsors, a correction is required to change any common data elements.
- Corrections can be submitted through the AusUDID Online Portal, M2M via National Product Catalogue, or M2M HL7 SPL.
- Updates submitted using M2M HL7 SPL must follow the versioning rules. UDI records created or previously modified using M2M HL7 SPL should not be updated through the AusUDID Online portal as this may cause unexpected errors or issues during future updates.
- The correction request will be removed upon successful processing of the submitted correction (or after completion of the 5-calendar day period, whichever is earlier).
- All prior published versions of a given UDI record will remain accessible through the AusUDID Online Portal as device record history to public users.

4 Essential components of the HL7 SPL submission

Essential components of the AusUDID HL7 SPL specification includes:

- Controlled Vocabulary
- Object Identifiers (OIDs) and Universally Unique Identifiers (UUIDS)
- Data Types
- AusUDID HL7 SPL XML Schema
- AusUDID HL7 SPL XML Message.



The schema does not include the business rules that need to be dynamic in the process. The business rules outlined in the subsequent sections should be handled by any system generating the XML message.

4.1 Controlled vocabulary

AusUDID makes extensive use of controlled vocabularies. The information in the following subsections will outline the controlled vocabulary used to implement HL7 SPL for AusUDID. There are several different authoritative sources for the controlled vocabulary, which include TGA, Unified Code of Units of Measure (UCUM) and the Global Medical Device Nomenclature (GMDN)³. All controlled vocabulary is provided in a separate XML file.



The controlled vocabulary required by the HL7 SPL standard enables system to system communications and is not always the ideal way to display concepts in a system graphical interface (GUI). Be cautious not to apply the technical codes in the GUI, instead use the business friendly terms.

4.2 OIDs and UUIDs

There are 2 types of unique identifiers:

- Object Identifiers (OIDs)
- Universally Unique Identifiers (UUIDs).

4.2.1 Object identifiers

An OID is a sequence of numbers that uniquely identify an object and represent a hierarchically assigned namespace. OIDs are formally defined using the International Telecommunications Union ASN.1 standard⁴. OIDS are represented as follows:

 ³ Global Medical Device Nomenclature (GMDN) is a system of internationally agreed descriptors used to identify medical device products and is managed by the GMDN Agency. Visit: <u>https://www.gmdnagency.org</u>.
 ⁴ International Telecommunication Union, x680: Information technology – Abstract Syntax Notation One (ASN.1): Specification of basic notation

• Example – An OID is a string of digits separated by periods: 2.16.840.1.113883

The list of named branches is as follows: {joint-iso-itu-t(2) country(16) us(840) organization(1) hI7(113883)}.

In the AusUDID HL7 SPL submission, OIDs will be used to provide the codeSystem value for each element that requires a code. Each required element with a code will indicate when an OID should be provided. For example, the XML Snippet below illustrates the code element with a code (C101716 is the code value for a AusUDID Submission) and codeSystem (2.16.840.1.113883.3.26.1.1 is the OID for the NCI Thesaurus code system):

<code code="C101716" codeSystem="2.16.840.1.113883.3.26.1.1"/>

For specific OIDs used in the AusUDID implementation, refer to the AusUDID Code List document which is part of the AusUDID HL7 SPL Implementation package of files.

4.2.2 Universally Unique Identifiers

A UUID is a hexadecimal number in the form of 8-4-4-12, including 32 characters and 4 hyphens⁵. UUIDs are formally defined by ISO/IEC 11578:1996 and ITU-T Rec X.667 | ISO/IEC 9834-8:2005. UUIDs are represented as follows:

• String of characters separated by hyphens: 36589652-7894-6589-3256-321852697531

In the AusUDID HL7 SPL Submission, UUIDs will be used for any instance identifier root attribute value. Each required element with an identifier (e.g. id or code) will indicate when a UUID should be provided. For example, the XML Snippet below illustrates the id@root attribute for the SPL Submission that includes a globally unique value (760ae98c-eada-4678-90f4-fe97232292ce) for an identifier – e.g. document identifier:

<id root="760ae98c-eada-4678-90f4-fe97232292ce"/>

4.3 Data types

To provide all information required in the HL7 SPL message, the data types are represented as additional elements and attributes in the XML. The data type for the elements and attributes are as follows:

- Alpha: allowing only alpha characters to be used in a string.
- Alphanumeric: allowing alpha, numeric and special characters to be used in a string. XML should follow W3C standards for alphanumeric values.
- Special Characters: When adding special characters to AusUDID HL7 SPL XML submissions, you need to use decimal or hex forms of the ISO Latin codes. More information can be found here: http://www.w3schools.com/charsets/ref_html_utf8.asp. We recommend you fully test the special characters you plan to submit before submitting it in the Production environment. For a list of special characters that are tested and will be accepted as part of AusUDID UDI record submissions, please refer to the AusUDID Code List document which is part of the AusUDID HL7 SPL Implementation package of files. The comments column highlights exceptions.

⁵ International Telecommunication Union, x667: Information technology – Open Systems Interconnection – Procedures for the operation of OSI Registration Authorities: Generation and registration of Universally Unique Identifiers (UUIDs) and their use as ASN.1 object identifier components

- Numeric: only allows numeric characters (e.g. 0 through 9) to be used in a string for integers and real numbers.
- Boolean: allows a true or false value.
- nullFlavors: used when required values need to be left blank. Null flavors are based on HL7 Messaging standard.⁶

4.4 AusUDID HL7 SPL XML schema

The HL7 SPL XML Schema will be provided as a flattened schema file with all the necessary schema files for AusUDID implementation.

4.5 AusUDID HL7 SPL XML message

The following AusUDID HL7 SPL message components are based on HL7 Version 3 SPL DSTU Release 5. The information for each element is provided in discrete sections. The following table provides a breakdown of the SPL XML structure with the relevant elements presented in this document.

XML Structure

The XML starts with administrative information about the XML file, including the XML version and encoding found in the XML.

The **Document** element contains information about the AusUDID UDI Record and relates to the **author.assignedEntity**, which provides information about the submitting organisation.

<?xml version="1.0" encoding="UTF-8"?> <document xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 ../SPL.xsd"> <id root="80c7aca6-9307-4722-aa63-c40ef1fd6f36"/> <code code="C101716" codeSystem="2.16.840.1.113883.3.26.1.1"/> <effectiveTime xsi:type="TS" value="20120531"/> <setId root="57863671-1527-4e51-b26b-3065a868d949"/> <versionNumber value="1"/> <author> <assignedEntity> <representedOrganization> <assignedEntity1> <code code=""/> <representedOrganization> </representedOrganization> </assignedEntity1> </representedOrganization> </assignedEntity>

</author>

⁶ Currently, nullFlavors are not used in the AusUDID HL7 SPL submission.

XML Structure

StructuredBody contains the product information for a UDI record.

ManufacturedProduct element contains the key information about the medical device.

AsIdentifiedEntity elements contain information about the device's model/version number, approval to supply, supporting documents and any other identifying value that may not be globally unique. (Note: this element can be repeated as many times as necessary.)

AsSpecializedKind elements contain information about the classification of the medical device and the GMDN code. (Note: this element can be repeated as many times as necessary.)

asEquivalentEntity elements contain information about the medical device that are considered alternative identifiers to the Primary DI. This includes Secondary DI, Direct Marked DI and unit-of-use DI values. (Note: this XML element can be repeated as many times as necessary, but the cardinality of each data element requires conformance – e.g. you can only provide one direct marking or unit-of-use device identifier.)

asContent elements contain information about the base packaging, device count and any packaging configurations (and their DI). (Note: the **containerPackagedProduct** element can be repeated as many times as necessary.)

subjectOf elements contain one of the following types of data: production information characteristics and device characteristics such as Sterilisation methods and Clinical Sizes.





4.6 HL7 element - displayName

DisplayName is optional in all cases where it is shown. It is provided only to allow the message to be more easily understood if it is being viewed by a person.

It does not need to be included in the M2M HL7 submission.

5 AusUDID HL7 SPL submission

The following section outlines the implementation specific rules for creating an AusUDID HL7 SPL submission that will be compliant with the AusUDID HL7 SPL schema and AusUDID business rules. The content is organised by the order of the elements as they appear in the XML file, see <u>AusUDID HL7 SPL XML message</u>.

5.1 SPL document

The *document* element includes specific information about the AusUDID HL7 SPL submission, to include required schema attributes (e.g. *xmlns, xmlns:xsi* and *xsi:schemaLocation*), a unique identifier of the SPL submission (*id@root*), a document type code to indicate that the HL SPL submission is a AusUDID submission, the publish date of the UDI record, and a versioning set identifier and version number to maintain the AusUDID submission over time. Additional details on the following XML elements are provided below – *document.id, document.code, document.code.translation, document.effectiveTime, setId* and *versionNumber.*

The following is an example of the XML section related to the AusUDID Submission information:

Element	Attribut e	Cardinalit y		Value(s) Allowed <i>Example</i> s	Description Instructions
id		11			This is the container element for the AusUDID submission identifier.
	Root	11		UUID	This is a globally unique identifier for the AusUDID submission.
		XPATH: /do	cument/id	/@root	
Business Rules	 The <i>id</i> of even if 	@ root should a su	root should always be globally unique. Do not reuse document identifiers sending a submission after a submission failure.		

5.1.1 AusUDID submission Identifier (document.id)

5.1.2Types of submission (document.code)

The document.code indicates the type of HL7 SPL submission. AusUDID allows 2 values, C101716 to indicate the UDI record is being created or varied, and AU1002 to indicate the UDI record is being corrected.

5.1.2.1 Submission – create or vary (document.code)

<code code="C101716" codeSystem="2.16.840.1.113883.3.26.1.1"/>

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Code		11		This is the container element for the type of AusUDID submission.		
	Code	11	Alphanumeric C101716	This is the <i>code</i> for the type of document being sent via the XML Message.		
	XPATH: /doc	ument/code/@	code			
	codeSystem	11	OID 2.16.840.1.113883. 3. 26.1.1	This is the unique identifier for the <i>codeSystem</i> associated with the code attribute.		
	XPATH: /document/code[@code="C101716"]/@codeSystem					
Business Rules	There must be one and only one code attribute for "C101716" or "AU1002" The code attribute must have the value of "C101716" for Vary message If the value is different, or missing, or both codes exist, or are given more than once, the AusUDID submission will be rejected as a submission with an invalid document code No other processing or validation will be completed if there is an invalid document code.					

5.1.2.2 Submission - correction

<code code="AU1002" codeSystem="1.2.36.1.2001.1005.85">

Element	Attribute	Cardinality	Value(s) Allowed <i>Exampl</i> es	Description Instructions
Code		11		This is the container element for the type of AusUDID submission.
	Code	11	Alphanumeric AU1002	This is the <i>code</i> for the type of document being sent via the XML Message.
	XPATH: /docu	ment/code/@co	ode	
	codeSystem	11	OID 1.2.36.1.20	This is the unique identifier for the codeSvstem associated with the
			01.1005.85	code attribute.
	XPATH: /docu	ment/code[@co	ode="AU1002"]/@coo	deSystem
Business Rules	 There must be one and only one code attribute for "C101716" or "AU1002" The <i>code</i> attribute must have the value of "AU1002" for Correction If the value is different, or missing, or both codes exist, or are given more than once, the AusUDID submission will be rejected as a submission with an invalid document code No other processing or validation will be completed if there is an invalid document code. 			

5.1.2.2.1 Translation – use a correction reason code (document.code.translation)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Translation		11		This is the container element for the		
				type of AusUDID submission.		
	Code	11	Alphanumeric	This is the <i>code</i> for the reason for		
			AU1031	this correction message.		
			AU1032			
			AU1034			
	XPATH:					
	/document/cod	e[@code="AU [·]	1002"]/translation/@c	ode		
Business	Translation	element code c	or originalText is requi	ired if document/code		
Rules	[@code="Al	J1002"]				
	 The value m 	nust be one of	the allowed values:			
	o AU	1031				
	o AU	1032				
	o AU1034					
	• See the M2M HL7 SPL - SPL Code List - AusUDID for a definition and when to use					
	these codes					
	If the value is missing, or both code and originalText is given, or are given more than					
	once, the Au	usUDID submis	ssion will be rejected	as a submission with an invalid		
	translation of	ode.				

5.1.2.2.2 Translation – use a free text correction reason (document.code.translation)

```
<code code="AU1002" codeSystem="1.2.36.1.2001.1005.85">
<translation>
<originalText>Free-text reason for correction</originalText>
</translation>
```

```
</code>
```

Attribute	Cardinalit y	Value(s) Allowed <i>Exampl</i> es	Description Instructions		
	01		This is the container element for the type of AusUDID submission.		
	11	Alphanumeric E.g. Free text reason for correction	This is a free text reason for the correction, where one of the coded reasons is not suitable.		
XPATH: /docu	ment/code[@code="AU1002"]/translation/originalText/text()				
 Translation element code or originalText is required if document/code [@code="AU1002"] The reason provided must be no more than 80 characters and length and can only contain accepted special characters. Refer to <u>Data types</u> and the M2M HL7 SPL - SPL Code List - Avel IDID for a list of accepted special characters. 					
	Attribute XPATH: /docu • Translation [@code="A • The reason contain acc SPL Code	Attribute Cardinalit y 01 11 XPATH: /document/code[@ Translation element code [@code="AU1002"] The reason provided musicontain accepted special SPL Code List – AusUDI	Attribute Cardinalit y Value(s) Allowed Examples 01 01 11 Alphanumeric E.g. Free text reason for correction XPATH: /document/code[@code="AU1002"]/translation • Translation element code or originalText is required [@code="AU1002"] • The reason provided must be no more than 80 ch- contain accepted special characters. Refer to Data SPL Code List – AusUDID for a list of accepted special		

 If the value is missing, or both code and originalText is given, or are given more than once, the AusUDID submission will be rejected as a submission with an invalid translation code.

5.1.3 Device Identifier (DI) record publish date (document.effectiveTime)

The UDI record Publish date indicates the date the UDI record can be published and made available via public search. The following XML snippet includes the elements and attributes required for the UDI record Publish date:

5.1.3.1 DI record publish date (document.effectiveTime)

Element	Attribute	Cardinalit y	Value(s) Allowed <i>Examples</i>	Description Instructions	
effectiveTime		11		This is the container element for the UDI record Publish Date	
	xsi:type	11	Timestamp <i>TS</i>	The xsi:type indicates the data type for the element.	
XPATH: /document/effectiveTime/@xsi:type					
	Value	11	Date Format YYYYMMDD e.g. "20111016"	This is the publish date value for the UDI record.	
	XPATH: /docu	ument/effective	eTime/@value	·	
Business Rules	 The date must follow the format YYYYMMDD The date may be a past, current or future date. It would normally be the curren for immediate publishing, or a future date If the value is missing, invalid, or given more than once, the AusUDID submission 			t would normally be the current date once, the AusUDID submission will be	
	 rejected as a submission with an invalid UDI record Publish Date If the date is in the past or is the current date, the UDI record will be publishe immediately 				
	 If the date receives t 	is in the past he UDI record	, the UDI record publish o I.	date will be the date AusUDID	

5.1.4 AusUDID submission versioning set identifier (document.setId)

<document xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:hl7-org:v3 GUDIDSPL.xsd">

<id root="57863671-1527-4e51-b26b-3065a868d949"/>

<code code="C101716" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<effectiveTime xsi:type="TS" value="20131118"/>

<setId root="57863671-1527-4e51-b26b-3065a868d948"/>

<versionNumber value="1"/>

Element	Attribute	Cardinality	Value(s) Allowed <i>Examples</i>	Description Instructions			
setId		11		This is the container element for the versioning set identifier.			
	Root	11	UUID	This is the unique identifier used to track a document and its versions.			
	XPATH: /docu	iment/setId/@rc	oot				
Business Rules	 The setId submissio For initial the system For all sub be in the s increment An organis and the ol 	etId element is the attribute used to keep updates linked to the initial UDI ssion. This value will be unique for a UDI record tial AusUDID submissions the setId must be unique; if the setId is already in stem, the submission will be rejected submission updates, before or after the Grace Period, the setId should alrea the system for the Primary DI and should be used with the versionNumber nented by one ganisation may change the setId. The versionNumber must be restarted at f					
	• A setId ca	tld cannot be used after it has been made inactive					
	 For first tir setId sinc 	time edits to UDI records initially entered via a different channel, provide a new nee other channels will not have a setId					
	 If the settle organisation submission 	d is missing, inve on or another UI n will be rejecte	alid, given more than once DI record), or has been m ed as a submission with a	e, not unique (exists for another arked as inactive, the AusUDID n invalid setId .			

5.1.5 AusUDID submission version number (document.versionNumber)

<document xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:hl7-org:v3 GUDIDSPL.xsd">

id root="57863671-1527-4e51-b26b-3065a868d949"/>

<code code="C101716" codeSystem="2.16.840.1.113883.3.26.1.1"/>

- <effectiveTime xsi:type="TS" value="20131118"/>
- <setId root="57863671-1527-4e51-b26b-3065a868d948"/>

<versionNumber value="1"/>

Element	Attribute	Cardinality	Value(s) Allowed <i>Examples</i>	Description Instructions
versionNumber		11		This is the container element for
				the AusUDID submission version
				number.
	Value	11	Integer	The value attribute provides the
				version of document that is being
			e.g. 1, 2, 3	sent in the message.

	XPATH: /document/versionNumber/@value
Business	The value attribute should increment by one for each update
Rules	• A versionNumber cannot be incremented for an inactive setId
	 For first time edits to UDI records initially entered via a different channel, provide a new versionNumber since other channels will not have a versionNumber
	• The combination of setId and versionNumber shall be unique for the UDI record (i.e. for that Primary DI, the combination should not already exist in the database)
	 See <u>Versioning HL7 SPL submissions</u> for more information
	• If the versionNumber is missing, invalid, given more than once, not 1 for a new setId, is
	not 1 more than the stored versionNumber, the AusUDID submission will be rejected
	as a submission with an invalid versionNumber.

5.2 Submitter

Device information can be submitted to the AusUDID by Manufacturers, Sponsors, Agents or third parties. Each AusUDID HL7 SPL xml submission must indicate the author of the document, i.e. the document sender.

Note: AusUDID does not use DUNS numbers.

- Labeller as the sender of the HL7 SPL xml submission used by the Manufacturer and must provide the TGA Business Services (TBS) Organisation number for the Manufacturer.
- Sponsor as sender of the HL7 SPL xml submission used by the Sponsor and must provide the TBS Organisation number for the Sponsor.
- Agent as sender of the HL7 SPL xml submission used by an organisation registered as an Agent within TBS and must provide the TBS Organisation number for the Agent.
- A Third Party Data Provider who is not registered in TBS as an Agent must provide the TBS Organisation number for the Sponsor or Manufacturer on whose behalf they are providing the data.



Prior to submitting data to AusUDID, you should organise, collect and validate your data.

During HL7 SPL submission processing, the "sender" is authenticated via the API keys that accompany the message, i.e. the "sender" and the API subscription keys must be for the same organisation.

If the sender organisation does not match the API subscription keys, or is not associated to the AusUDID account, i.e. the Manufacturer, Sponsor or Agent Organisation number is not associated to the account, the entire submission will be rejected. The error message will state that that the submitter is not authorised to send AusUDID submissions for the Organisation.

5.2.1 Manufacturer organisation (author.assignedEntity.representedOrganization)

The following XML Snippet includes the elements and attributes required for the Manufacturer:

<author></author>
<assignedentity></assignedentity>
<representedorganization></representedorganization>
<pre><assignedentity1></assignedentity1></pre>
<pre><code code="C101684" codesystem="2.16.840.1.113883.3.26.1.1"></code> <representedorganization> </representedorganization></pre>
<pre></pre>

5.2.1.1 Manufacturer (assignedEntity1.code)

Element	Attribute	Cardinality	Value(s) Allowed <i>Exampl</i> es	Description Instructions			
Code		11		The code element is the container for the identification of the type of submitter for the AusUDID submission.			
	Code	11	Alphanumeric C101684	This is the <i>code</i> for the type of submitter for a AusUDID submission, in this case, the Manufacturer Organisation.			
	XPATH: /document/authc 01684"]	or/assignedEntit <u>y</u>	y/representedOrganiza	tion/assignedEntity1/code[@code="C1			
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1	This is the unique identifier for the <i>codeSystem</i> associated with the code attribute.			
	XPATH: /document/author/assignedEntity/representedOrganization/assignedEntity1/code[@code="C1 01684"]/@codeSystem						
Business Rules	 One and onl The code marks of the code marks of the code marks of the code marks of the code at the	y one represent ust be one of the 1684 000 001 1710 tribute must hav n. See <u>Sponsor</u> is an Agent s missing, or give	edOrganization is request allowed values: The the value of "C10168 organisation if the sender organisation if the sender	ired 4" if the submitter is the Manufacturer der is a Sponsor, or <u>Agent organisation</u> AusUDID submission will be rejected			
	as a submission with an invalid Submitter						

Note: no other processing or validation will be completed if there is an invalid Submitter.

5.2.2 Sponsor organisation

The following XML Snippet includes the elements and attributes required for the Sponsor:

```
<author>
<assignedEntity>
<assignedEntity>
<assignedEntity1>
</assignedEntity1>
</a>
</a>
```

5.2.2.1 Sponsor (assignedEntity1.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Code		11		The code element is the container for the identification of the type of submitter for the AusUDID submission.		
	Code	11	Alphanumeric AU1000	This is the <i>code</i> for the type of submitter for a AusUDID submission, in this case, the Sponsor Organisation.		
	XPATH: /document/author/assignedEntity/representedOrganization/assignedEntity1/code[@code="A U1000"]					
	codeSystem	11	OID 1.2.36.1.2001.1005.85	This is the unique identifier for the codeSystem associated with the code attribute.		
	XPATH: /document/autho U1000"]/@codeS	r/assignedEntit system	y/representedOrganiza	tion/assignedEntity1/code[@code="A		
Business Rules	 One and only The code mu C101 AU10 AU10 AU10 C101 	v one represent st be one of the 684 000 001 710	edOrganization is requ	ired		

	•	The <i>code</i> attribute must have the value of "AU1000" if the submitter is the Sponsor
		Organisation. See Section Manufacturer organisation
		(author.assignedEntity.representedOrganization) if the sender is a Manufacturer, or
		Agent organisation if the sender is an Agent
	•	If the value is missing, or given more than once, the AusUDID submission will be rejected
		as a submission with an invalid Submitter
	•	Note: no other processing or validation will be completed if there is an invalid Submitter.

5.2.3 Agent organisation

The following XML Snippet includes the elements and attributes required for the Agent:



5.2.3.1 Agent (assignedEntity1.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Code		11		The code element is the container for the identification of the type of submitter for the AusUDID submission.		
	Code	11	Alphanumeric AU1001	This is the <i>code</i> for the type of submitter for a AusUDID submission, in this case, the Agent Organisation.		
	XPATH: /document/author/assignedEntity/representedOrganization/assignedEntity1/code[@code="AU 1001"]					
	codeSystem	11	OID 1.2.36.1.2001.1005.85	This is the unique identifier for the <i>codeSystem</i> associated with the code attribute.		
	XPATH: /document/autho 1001"]/@codeSy	r/assignedEntity stem	//representedOrganization/	assignedEntity1/code[@code="AU		
Business Rules	One and onlyThe code mu	/ one represent	edOrganization is required allowed values			

o C101684
 ∧ AU1000
 ∧ AU1001
o C101710
 The code attribute must have the value of "AU1001" if the submitter is the Agent
Organisation. See Manufacturer organisation
(author.assignedEntity.representedOrganization) if the sender is a Manufacturer, or see
Sponsor organisation if the sender is a Sponsor
• If the value is missing, or given more than once, the AusUDID submission will be rejected
as a submission with an invalid Submitter
• Note: no other processing or validation will be completed if there is an invalid Submitter.

5.2.4 Third Party Data Provider

The following XML Snippet includes the elements and attributes required for the Third Party Data Provider:

```
<author>

<author>
<assignedEntity>
<assignedEntity>
<assignedEntity1>
</assignedEntity1>
</assignedEntity2
</assignedEntity2
</a>
```

5.2.4.1 Third Party Data Provider (assignedEntity1.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
Code		11		The code element is the container for the identification of the type of submitter for the AusUDID submission.
	Code	11	Alphanumeric C101710	This is the <i>code</i> for the type of submitter for a AusUDID submission, in this case, the Third Party Data Provider.
	XPATH: /document/authc 01710"]	or/assignedEntity	//representedOrganizat	tion/assignedEntity1/code[@code="C1
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1	This is the unique identifier for the <i>codeSystem</i> associated with the code attribute.

	XPATH:				
	locument/author/assignedEntity/representedOrganization/assignedEntity1/code[@code="C1 1710"]/@codeSystem				
Business Rules	 One and only one representedOrganization is required 				
i luioo	The code must be one of the allowed values:				
	 ○ C101684 				
	○ AU1000				
	 ∧ AU1001 				
	o C101710				
	• The <i>code</i> attribute must have the value of "C101710" if the submitter is a Third Party Data				
	Provider. See Sponsor organisation if the sender is a Sponsor, or Manufacturer				
	organisation (author.assignedEntity.representedOrganization) if the sender is a				
	Manufacturer				
	• If the value is missing, or given more than once, the AusUDID submission will be rejected				
	as a submission with an invalid Submitter				
	 No other processing or validation will be completed if there is an invalid Submitter. 				

5.2.5 TGA organisation number (assignedEntity1.representedOrganization.id)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
ld		11		The id element is the container element for the TGA Organisation associated with the submitter of the AusUDID Submission.
	Root	11	TGA OID	This is the OID for TGA Organisations.
			1.2.36.1.2001.1005.84	
	XPATH:			
	/document/auth nization/id/@ro	or/assignedEnti ot	ity/representedOrganiza	ation/assignedEntity1/representedOrga
	Extension	11	Organisation Number e.g. 12345	This is the assigned TGA Organisation number.
	XPATH:			
	/document/auth nization/id/@ex	or/assignedEnti tension	ity/representedOrganiza	ation/assignedEntity1/representedOrga
Business Rules	The <i>root</i> attribute should provide the TGA OID			
Nules	• The extens	sion attribute sh	ould provide a value for	the TGA Organisation number
	• The <i>id@ex</i>	tension will be	used to pull the Organis	ation Name from the TGA stakeholder
	manageme	nt system		

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
	 If the subm 	If the submitter is a Manufacturer, the Organisation number provided here must match the				
	Manufactur	er ID				
	 If the subm 	itter is a Sponso	or, the Organisation num	ber provided here must match the		
	Sponsor ID					
	 If the subm 	itter is an Agent,	the Agent must be an A	gent for either the Manufacturer or		
	Sponsor					
	 If the subm 	itter is an Agent,	the Agent number provi	ded here will be checked against the		
	Manufactur	er ID and Spon	sor ID. See <u>Manufacture</u>	r (manufacturerOrganization.id) for		
	Manufactur	er ID of the med	dical device, i.e. the mar	ufacturer associated to the UDI		
	record. Sp	<u>onsor (asl</u>	dentifiedEntity.as	<u>ssigningOrganization.id)</u> for		
	Sponsor ID	Sponsor ID for the medical device, i.e. the sponsor associated to the UDI record. In this				
	case, the S	ubmitter must b	e an Agent for either the	Manufacturer or Sponsor		
	 If the subm 	itter is a Third P	arty Data Provider, use	the organisation number for the		
	organisatio	organisation on whose behalf you are providing the data				
	 If the subm 	itter value is mis	ssing, or given more that	n once, the AusUDID submission will		
	be rejected	as a submissio	n with an invalid Submit	ter		
	 No other pr 	ocessing or vali	dation will be completed	l if there is an invalid Submitter		
	 Must be a v 	alid TBS organ	isation number			

5.3 Device information

The device information in the manufactured product element includes the following: the Primary DI, brand name, device description, model or version number, catalogue number, approval to supply, device class, GMDN Preferred Term code, manufacturer, alternative identifiers (Unit of Use, Direct Marking, Secondary DIs), base package device count and package configurations. This section includes all device information listed above in the relative order that it should appear.

Note: that some elements can be serialised (repeated) and the order in the XML is not strictly defined. The elements that fit in this category are as follows:

- Identified Entity includes how the Manufacturer may identify a medical device e.g. model or version number and catalogue number, and the Sponsor approval to supply details
- Specialized Kind includes device class, and GMDN Preferred Term Code
- Equivalent Entity includes all device identifiers that are of equivalent representation of a medical device e.g. Unit of Use DI, Direct Marked DI, and Secondary DI
- Manufacturer Organization identifies the manufacturer of the device.

The order of the elements in the XML is only critical to group them in like elements and in the order presented above – i.e. all *IdentifiedEntity* elements are placed before *SpecializedKind* elements and all *EquivalentEntity* elements are last in the order. Specific instructions are provided in the subsections below.

5.3.1 Device identifier (DI) information – Primary Device Identifier

The Primary Device Identifier (Primary DI) is an identifier that is the main (primary) lookup for a medical device product and meets the requirements to uniquely identify a device through its distribution and use. The Primary DI will be located on the base package, which is the lowest level of a medical device containing a full UDI. The following XML snippet shows the Primary DI:

<subject< th=""><th>></th><th></th></subject<>	>								
<manufacturedproduct classcode="MANU"></manufacturedproduct>									
	<ma< th=""><th>nufacturedProduct></th></ma<>	nufacturedProduct>							
		<code code="10010010010011" codesystem="1.3.160"></code>							
	<name>Trade Name/Brand Name</name>								
		<pre><desc>add device description here</desc></pre>							

5.3.1.1 ManufacturedProduct classCode

The *manufacturedProduct@classCode* value must be equal to "MANU" to pass schema validation. Any other value in this field may cause the schema validation to fail.

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
code (11)		11		This is the container element for the Primary DI.			
	code	11	Numeric or Alphanumeric e.g. 14-digit number	This is the device identifier for the Record.			
	XPATH:		0 0				
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/code/@code						
	codeSystem	11	OID GS11.3.160	This is the identifier for the Issuing Agency for the DI.			
			HIBCC 2.16.840.1.113883.6.40				
			ICCBBA 2.16.840.1.113883.6.18				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/code/@codeSystem						
Business Rules	 One and only one manufacturedProduct.code is required 						
	See <u>Common DI Validation</u> .						
	 One and only one manufacturedProduct.code@codeSystem is required 						
	 codeSystem must be one of the valid values: GS1, ICCBBA, HIBCC 						
	 If the code is 	s missing, inva	alid, or given more than c	once, the AusUDID submission will be			
	rejected as a	a submission v	with an invalid Primary D	Ι			

Primary Device Identifier (manufacturedProduct.code)

 If the codeSystem is missing, or given more than once, or does not match the format for the Primary DI Issuing Agency, the AusUDID submission will be rejected as a submission with an invalid Primary DI

No other processing or validation will be completed if there is an invalid Primary DI.

5.3.2 Device information – Brand Name

Brand Name is a trade/proprietary name assigned by the device manufacturer, and under which the device is sold, distinguished from other similar devices, and recognised by the user or purchaser. A brand name is often registered and/or protected by a trademark.

The following XML Snippet includes the brand name element:

5.3.2.1 ManufacturedProduct.name

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions		
name		11		The <i>name</i> element is the container element for describing the Brand/Proprietary, Trade name of the medical device product.		
		11	Alphanumeric ⁷ e.g. Brand Name	This is the value for the brand name of the medical device.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/name/text()					
Business Rules	 One and only one manufacturedProduct.name is required The Brand Name should be no more than 80 characters in length and can only contain accepted special characters. Refer to <u>Data types</u> and the <i>M2M HL7 SPL - SPL Code List</i> – <i>AusUDID</i> in the HL7 SPL Implementation package of files for a list of accepted special characters 					

⁷ Refer to 'AusUDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a list of accepted special characters

If the value is missing, invalid, or given more than once, the AusUDID submission will be rejected as a submission with an invalid Brand name.

5.3.3 Device Information – Device Description

The device description provided by the Manufacturer should provide any additional relevant information about the device that is not already captured as a distinct AusUDID data attribute. The following XML Snippet includes the elements and attributes required for the description:

```
<subject>

<manufacturedProduct classCode="MANU">

<manufacturedProduct>

<code code="10010010010011" codeSystem="1.3.160"/>

<name>Trade Name/Brand Name</name>

<desc>add device description here</desc>
```

5.3.3.1 ManufacturedProduct.desc

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
Desc		01		This is a container element for the medical device's description.			
		11	Alphanumeric ⁸	This is the description of the medical			
		E.g. Device Description device that is provided by the Manufacturer.					
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProdu ufacturedProduct/desc/text()						
Business Rules	manufacturedProduct.desc is optional, but can only be provided once						
	I he Description should be no more than 2000 characters in length and can only contain						
	accepted special characters. Refer to <u>Data types</u> and the M2M HL7 SPL - SPL Code List						
- AusUDID in the HL7 SPL Implementation package of files f				e of files for a list of accepted special			
	characters						
	 If the valu 	e is invalid, or	given more than once, the	AusUDID submission will be rejected			
	as a submission with an invalid Device Description.						

⁸ Refer to 'AusUDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a list of accepted special characters

5.3.4 Device Information – Model or Version

The model or version number found on the device label or accompanying packaging used to identify a category or design of a device. The model or version identifies all devices that have specifications, performance, size, and composition within limits set by the Manufacturer. The following XML Snippet includes the elements and attributes for the model or version number:

The following elements will be found in the AusUDID HL7 SPL submission:

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
ld		01		This is the container element for the model number.			
	Root	11	UUID	This is a globally unique identifier for the id being provided.			
	XPATH:		I	•			
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="C99285"]//id/@root						
	Extension	11	Alphanumeric ⁹ e.g. Model A1	This is used to indicate any additional identifiers for the ManufacturedProduct.			
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProducuundacturedProduct/asIdentifiedEntity/code[@code="C99285"]//id/@extension						
Business Rules	 The <i>asIdentifiedEntity.id@root</i>, is a globally unique identifier, which is required by schema; it should be unique to the Model Number that is provided in the extension. Currently we do not use this value in the AusUDID – i.e. it does not have any busine rules associated with it Only the <i>id@extension</i> value will be displayed by the AusUDID system for the mode number or version number asIdentifiedEntity with code 'C99285' and/or 'C99286' must be provided. The Version or Model should be no more than 80 characters in length and can only caraccepted special characters. Refer to <u>Data types</u> and the <i>M2M HL7 SPL - SPL Cod</i> 						
	ge of files for a list of accepted special						

5.3.4.1 Model or Version Number (asIdentifiedEntity.id)

⁹ Refer to 'AusUDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a list of accepted special characters

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
	 If Model or Version is missing, or code C99285 is provided and Model or Version is 						
	missing, i	nvalid, or give	n more than once, the Ausl	JDID submission will be rejected as a			
	submissio	on with an inva	lid Model or Version.				

5.3.4.2 Model or Version Number Type (asIdentifiedEntity.code)

The code identifies that the data element is providing a Model or Version Number value.

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Code		11		This is the container element that identifies the <i>identifiedEntity</i> as the model or version number.			
	Code	11	Alphanumeric C99285	This is the <i>code</i> that indicates the value is a model or version number.			
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/ma nufacturedProduct/asIdentifiedEntity/code[@code="C99285"]						
	codeSystem	11	OID	This is the <i>codeSystem</i> that			
			2.16.840.1.113883.3.26	manages the controlled vocabulary.			
			.1.1				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/manufacturedProduct/manufacturedProduct/asIdentifiedEntity/code[@code="C99285"]/@codeSystem						
Business Rules	 Model or vers 	ion number mu	st be provided				
	The code value must be provided and have a value of "C99285" for the model or version number.						

5.3.5 Device Information – Catalogue Number

The catalogue, reference, or product number used by the Sponsor and found on the device label or accompanying packaging to identify a particular product should be included in the UDI record if applicable. Catalogue Number is critical for UDI adoption in electronic health records. Please provide catalogue number as part of your UDI record. The following XML Snippet includes the elements and attributes for the catalogue number:

The following elements will be found in the AusUDID HL7 SPL submission:

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions
ld		01		This is the container element for the catalogue number.

5.3.5.1 Catalogue Number (asIdentifiedEntity.id)

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions				
	Root	11	UUID	This is a globally unique identifier for the id being provided.				
	XPATH:							
	/document/co ufacturedProc	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="C99286"]//id/@root						
	Extension	11	Alphanumeric ¹⁰ e.g.	This is used to indicate any additional				
			CatalogNumber1234	identifiers for the <i>ManufacturedProduct</i> .				
	XPATH:							
/document/component/structuredBody/component/section/subject/manufaufacturedProduct/asIdentifiedEntity/code[@code="C99286"]//id/@extense				tion/subject/manufacturedProduct/man 9286"]//id/@extension				
Business Rules	 The asld schema; Currently rules ass Only the anumber The Catal contain a <i>Code List</i> accepted If code C once, the Catalogue Catalogue 	ue identifier, which is required by the nber that is provided in the extension. - i.e. it does not have any business the AusUDID system for the catalogue characters in length and can only a types and the <i>M2M HL7 SPL - SPL</i> tion package of files for a list of er is missing, invalid, or given more than a submission with an invalid s provided by a Manufacturer. If						
	catalogue	e number is pi	ovided by a Manufacturer it	t will be ignored				
	Catalogue	e number, if a	vailable, should be provide	d by a Sponsor. It will be associated				
	with each ARTG ID included in the HL7 message.							

5.3.5.2 Catalogue Number Type (asIdentifiedEntity.code)

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions
Code		01		This is the container element that identifies the <i>identifiedEntity</i> as the catalogue number.

¹⁰ Refer to 'AusUDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a list of accepted special characters
	Code	11	Alphanumeric	This is the <i>code</i> that indicates the					
			C99286	value is a catalogue number.					
	XPATH:	PATH:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="C99286"]								
	codeSystem	11	OID	This is the <i>codeSystem</i> that					
			2.16.840.1.113883.3.26	manages the controlled vocabulary.					
			.1.1						
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/ ufacturedProduct/asIdentifiedEntity/code[@code="C99286"]/@codeSystem								
Business Rules	 If the catalo value of "C9 	gue number e 99286" for the	element is provided, the contract of the contr	de value must be provided and have a					
	 If there is no catalogue number, the <i>asIdentifiedEntity</i> element should not be included with this code value. 								

5.3.6 Device Information – Approval to Supply

Unless specifically exempted, Medical Devices supplied in Australia must be included on the Australian Register of Therapeutic Goods (ARTG). An application to include a device is made by a Sponsor. The Sponsor may also provide supporting documents that relate to the ARTG inclusion.

The ARTG ID, Sponsor and any supporting documents should be included in the UDI record if applicable. UDI records are only available to the Public once the Approval to Supply details have been added to the UDI record.

The following XML Snippet includes the elements and attributes for the Approval to Supply:

```
<asIdentifiedEntity>
    <id root="1.2.36.1.2001.1005.83" extension="413471"/>
    <code code="AU1016" codeSystem="1.2.36.1.2001.1005.85"/>
    <assigningOrganization>
       <id root="1.2.36.1.2001.1005.84" extension="12345"/>
    </assigningOrganization>
        <subjectOf>
        <document>
           <id extension="http://example.org/documents/123456789/product leaflet.html"/>
            <code code="AU1008" codeSystem="1.2.36.1.2001.1005.85" displayName="Patient
                Information Leaflet"/>
            <effectiveTime>
               <low value="20010914"/>
                <high value="20200914"/>
            </effectiveTime>
        </document>
    </subjectOf>
</asIdentifiedEntity>
```

The following elements will be found in the AusUDID HL7 SPL submission:

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
ld		01		This is the container element for the ARTG ID.			
	Root	11	TGA OID	This is the OID for TGA ARTG numbers			
			1.2.36.1.2001.1005.83				
	XPATH:						
	/document/co ufacturedProc	mponent/strue duct/asIdentifi	cturedBody/component/sec edEntity/code[@code="AU1	tion/subject/manufacturedProduct/man 1016"]//id/@root			
	Extension	11	ARTG ID	This is the assigned TGA ARTG ID.			
			e.g.				
			12345				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="AU1016"]//id/@extension						
Business Rules	If the Sub	omitter is a Sp	onsor, one or more asldent	ifiedEntity with code 'AU1016' must be			
	provided		. for the second state of the state				
	 If the Sub provided 	omitter is a Ma	inufacturer, asidentifiedEnti	ty with code AU1016 must not be			
	• If 'AU1010	6' is missing fo	or a Sponsor, or provided for	r a Manufacturer, the AusUDID			
	submissio	on will be reje	cted as a submission with a	n invalid ARTG			
	A UDI rec	cord can conta	in many ARTG IDs				
	The ART	G ID must be	valid and must exist in the A	ARTG system for the same Sponsor			
	and Manufacturer						
	The only	data elements	s that are compared with the	e ARTG is the device Manufacturer and			
	Sponsor.						

5.3.6.1 ARTG ID (asIdentifiedEntity.id)

5.3.6.2 ARTG ID Type (asIdentifiedEntity.code)

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions		
Code		01		This is the container element that identifies the <i>identifiedEntity</i> as the ARTG ID.		
	Code	11	Alphanumeric AU1016	This is the <i>code</i> that indicates the value is an ARTG ID.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="AU1016"]					

	codeSystem	11	OID 1.2.36.1.2001.1005.85	This is the <i>codeSystem</i> that manages the controlled vocabulary.
	XPATH:		1	
	/document/com ufacturedProdu	ponent/struct ct/asIdentified	uredBody/component/sec IEntity/code[@code="AU^	tion/subject/manufacturedProduct/man 1016"]/@codeSystem
Business Rules	 If the ARTG "AU1016" for 	ID element is	s provided, the code value D	e must be provided and have a value of
	 If there is no 	o ARTG ID, tł	ne asldentifiedEntity eler	ment should not be included with this
	code value.			

5.3.6.3 Sponsor (asIdentifiedEntity.assigningOrganization.id)

The following XML Snippet includes the elements and attributes for the Sponsor:



Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
ld		01		This is the container element for the Sponsor identifier.			
	Root	11	TGA OID	This is the OID for TGA Organisations			
			1.2.36.1.2001.1005.84				
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="AU1016"]//assigningOrganization/id/@roo t						
	Extension	11	Organisation Number e.g. 12345	This is the assigned TGA Organisation number.			
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="AU1016"]//assigningOrganization/id/@ext extens						

Business Rules	•	Sponsor must be provided if the ARTG ID element is provided
	•	The TBS organisation number for the Sponsor must exist within TBS
	•	Only one Sponsor can be provided for each ARTG entry
	•	An assigningOrganisation must be provided for each 'AU1016'
	•	If the assigningOrganisation is missing, or given more than once, the AusUDID submission
		will be rejected as a submission with an invalid ARTG.

5.3.6.4 Supporting Document URL (asIdentifiedEntity.subjectOf.document.id)

Supporting documents can be provided if an ARTG ID has been provided. The following XML Snippet includes the elements and attributes for Supporting Documents:



</asIdentifiedEntity>

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions
ld		01		This is the container element for the Supporting Document.
	Extension XPATH: /document/cc ufacturedPro- nsion	11 omponent/stru duct/asIdentifi	Alphanumeric e.g. http://example.org/docume nts/123456789 cturedBody/component/sec edEntity/code[@code="AU1	This is the URL for the supporting document. tion/subject/manufacturedProduct/man I016"]//subjectOf/document/id/@exte
Business Rules	 The URL is checked for basic formatting, but not for correctness or content One or more subjectOf.document can be provided for each 'AU1016' URL should be no more than 2000 characters in length If URL is invalid, or given more than once in the document structure, the AusUDID submission will be rejected as a submission with an invalid Supporting Document. 			

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
Code		01		This is the container element that identifies the type of supporting document.			
	Code	11	Alphanumeric AU1008	This is the <i>code</i> that indicates the type of supporting document. AU1008 = Patient Information Leaflet.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="AU1016"]//subjectOf/document/code/@co de						
	codeSystem	11	OID 1.2.36.1.2001.1005.85	This is the <i>codeSystem</i> that manages the controlled vocabulary.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="AU1016"]//subjectOf/document/code/@co deSystem						
Business Rules	 A document type must be provided if Document URL is provided The value must be one of the allowed values: AU1008 – Patient Information Leaflet If document type is invalid, is missing when document URL is given, or given when document URL is missing, or given more than once in the document structure, the AusUDID submission will be rejected as a submission with an invalid Supporting Document. 						

5.3.6.5 Supporting Document Type (asIdentifiedEntity.subjectOf.document.code)

5.3.6.6 Supporting Document Effective and End dates (asIdentifiedEntity.subjectOf.document.effectiveTime)

The supporting document has an effective (start) date and optionally an end date. The effective date indicates when this document is effective from. If the document is no longer effective, e.g. it has been superseded, then you can include an end date.

5.3.6.7 Supporting Document Effective Date (document.effectiveTime.low)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
Low		11	This is the container element for the supporting document effective date	

	value	11	Date Format YYYYMMDD	This is the value for the date the supporting document is valid.	
			E.g. "20111016"		
	XPATH:				
	/document/com ufacturedProdu ime/low/@value	ponent/structur ct/asIdentifiedE	edBody/component/sec ntity/code[@code="AU1	tion/subject/manufacturedProduct/man I016"] <u>//subjectOf/document/effectiveT</u>	
Business Rules	 A document effective date must be provided if Document URL is provided 				
	The date must follow the format YYYYMMDD				
	 It must be a valid date – Current or in the past 				
	• If document effective date is invalid, is missing when document URL is given, or given				
	when docu	ment URL is mis	ssing, or given more tha	in once in the document structure, the	
	AusUDID s	ubmission will b	e rejected as a submiss	sion with an invalid Supporting	
	Document.				

5.3.6.8 Supporting Document End Date (document.effectiveTime.high)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
High		01		This is the container element for the supporting document effective dates.			
	value	11	Date Format YYYYMMDD E.g. "20111016"	This is the value for the date the supporting document is no longer valid.			
	APAIH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asIdentifiedEntity/code[@code="AU1016"]//subjectOf/document/effectiveT ime/high/@value						
Business Rules	 A docu provide The da It must If docu date, o docum an inva 	 A document end date may be provided if Document URL is provided. The date is onl provided when the document is no longer valid The date must follow the format YYYYMMDD It must be a valid date – Current or in the past If document end date is invalid, the end date occurs before the document effective date, or given when document URL is missing, or given more than once in the document structure, the AusUDID submission will be rejected as a submission with an invalid Supporting Document. 					

5.3.6.8.1 Supporting Documents Behaviour

Supporting documents (currently Patient Information Leaflet) may be provided to AusUDID by either uploading a pdf attachment via the portal, or by providing a URL that can be used to obtain the document.

Within the bulk channels – only a URL can be provided. The URL can point to a specific document, or a website location that can be used to search for and retrieve the relevant document.

If a replaced document is to remain available to the public, then the document details are provided to AusUDID and an end date is provided. There is no validation check to ensure that the URLs for the old and new locations of supporting documents are different in AusUDID submissions.

If a replaced document is not to remain available to the public, then the document details are no longer provided to AusUDID. AusUDID will mark the document as deleted.

5.3.6.8.2 Examples for specific document

Examples when a Sponsor provides a URL that points to a specific document.

a) When a Sponsor adds a URL, they provide the following data:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/doc/device-v1.pdf	01/07/2023	(not provided)

b) If the Sponsor updates the document on their site, and the document keeps the same name, then any future submission will continue to send the previous details:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/doc/device-v1.pdf	01/07/2023	(not provided)

c) If the Sponsor updates the document on their site, and gives the document a new name, any future submission depend on what happens to the old document version:

i) if the old document is to be removed from the site and never referenced by the public, then the submission will include the new document details, and will not include the old document details:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/doc/device- v2 .pdf	02/11/2023	(not provided)

In this instance, the original document URL is marked as deleted, and the new one added.

ii) if the old document is to remain on the site for historical reference by the public, then the submission will include the new document details, and will include the old document details now with an end date:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/doc/device-v1.pdf	01/07/2023	01/11/2023

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/doc/device-v2.pdf	02/11/2023	(not provided)

In this instance, the original document URL is updated with the end date, and the new one added.

5.3.6.8.3 Examples for website location

Examples when a Sponsor provides a URL that points to a website location.

a) When a Sponsor adds a URL, they provide the following data:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/docs	01/07/2023	(not provided)

b) If the Sponsor updates the document on their site, and the location remains the same, then any future submission will continue to send the previous details:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/docs	01/07/2023	(not provided)

c) If the Sponsor changes the location on their site, any future submission depend on what happens to the old location:

i) if the old location is removed from the site and never referenced by the public, then the submission will include the new location details, and will not include the old location details:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/pils	02/11/2023	(not provided)

In this instance, the original document URL is marked as deleted, and the new one added.

ii) if the old location is to remain on the site for historical reference by the public, then the submission will include the new location details, and will include the old location details now with an end date:

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/docs	01/07/2023	01/11/2023

ARTG ID	Туре	URL	Effective Date	End Date
12345	Patient Information Leaflet	https://example.com/pils	02/11/2023	(not provided)

In this instance, the original document URL is updated with the end date, and the new one added.

5.4 Device Status – Product Classification

The medical device can be categorised using the following two systems:

- the TGA Device Class
- the GMDN Term.

Both code systems will be used in the UDI record for a medical device:

5.4.1 TGA Device Class

Medical devices are classified according to the level of harm they may pose to users or patients. Visit <u>https://www.tga.gov.au/resources/what-classification-my-medical-device</u> for more information. See <u>Device Class</u> for additional information on submitting device class codes as part of your AusUDID UDI record submission.

5.4.2 GMDN Term

GMDN is a system of internationally agreed descriptors used to represent common device types for the purposes of grouping or categorisation. Each GMDN Term has 3 components: Term Code, Term Name, and Term Description. GMDN is managed by the GMDN Agency https://www.gmdnagency.org/.

Medical devices are classified using the GMDN Preferred Term/Term Code.

GMDN Preferred Term Code –Unique five-digit code associated with a GMDN Preferred Term.

Class 1, 2 and 3 IVDs use GMDN Collective Terms (referred to as 'categories' by the GMDN Agency). Collective Terms represent a group of similar IVDs.

 GMDN Collective Term Code – Unique code which starts with 'CT' followed by three or four numbers.

AusUDID does not currently support the submission of Collective Term codes.

The following sections provide the details for submitting each of the product classification elements.

5.4.3 Device Class

The following XML Snippet includes the elements and attributes required for the manufacturer Device Class:

```
<asSpecializedKind>

<generalizedMaterialKind>

<code code="AU1020" codeSystem="1.2.36.1.2001.1005.85"/>

</generalizedMaterialKind>

</asSpecializedKind>
```

5.4.3.1 Device Class (asSpecializedKind.generalizedMaterialKind.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
generalizedM aterial Kind and		11		This is the container element for the Device Class.		
Kina.coae	Code	11	Alphanumeric AU1020 AIMD AU1021 Class III AU1022 Class IIb AU1023 Class IIa AU1024 Class Im AU1025 Class Is AU1026 Class I AU1026 Class I AU1027 Cl. 4 IVD AU1028 Cl. 3 IVD AU1029 Cl. 2 IVD AU1030 Cl. 1 IVD	This will be the <i>code</i> in the code system for the device class.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asSpecializedKind/generalizedMaterialKind/code[@codeSystem="1.2.36.1. 2001.1005.85"]/@code					
	codeSystem	11	OID 1.2.36.1.2001.1005.85	This is the <i>codeSystem</i> that manages the controlled vocabulary.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asSpecializedKind/generalizedMaterialKind/code[@codeSystem="1.2.36.1. 2001.1005.85"]					
Business Bulas	Device class is optional.					
Rules	 Device class is the classification as determined by the Manufacturer 					
	 Device class is not required to match what is recorded on the ARTG 					
	 If provided, a generalizedmaterialKind is required. 					
	• If the device class is invalid, or given more than once, the AusUDID submission will be					
	rejected as	a submission w	vith an invalid Device Cla	ass		
	 If provided, 	it must be one	of the valid values:			
	0 AU					
	0 AU	1022 Class IIb				
	• AU	1023 Class IIa				

 AU1024 Class Im 	
 AU1025 Class Is 	
 AU1026 Class I 	
 AU1027 Class 4 IVD 	
 AU1028 Class 3 IVD 	
 AU1029 Class 2 IVD 	
 AU1030 Class 1 IVD. 	

5.4.4 GMDN Term Code

The following XML Snippet includes the elements and attributes required for the GMDN Term Code:

```
<asSpecializedKind>
<generalizedMaterialKind>
<code code="99999" codeSystem="2.16.840.1.113883.6.276"/>
</generalizedMaterialKind>
</asSpecializedKind>
```

5.4.4.1 GMDN Term Code (asSpecializedKind.generalizedMaterialKind.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
generalizedM aterial Kind and		11		This is the container element for the GMDN code.		
⊼ina.coae	code	11	Numeric GMDN Code e.g. 99999	This will be the <i>code</i> in the code system for the concept sent to describe the medical device.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asSpecializedKind/generalizedMaterialKind/code[@codeSystem="2.16.840 .1.113883.6.276"]/@code					
	codeSystem	11	OID 2.16.840.1.113883. 6.276	This is the <i>codeSystem</i> that manages the controlled vocabulary.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asSpecializedKind/generalizedMaterialKind/code[@codeSystem="2.16.840 .1.113883.6.276"]					
Business Rules	 GMDN Term code is optional. GMDN Term code is the term code as determined by the Manufacturer. 					

- GMDN Term code is not required to match what is recorded on the ARTG
- If provided, it must be a valid GMDN Preferred Term Code.
- It must be a 5-digit number.
- Category Term Codes (codes starting with CT) are not supported.
- The code will be used to pull the GMDN Term name and definition from the controlled GMDN agency vocabulary.
- If an invalid e.g. the code does not exist) GMDN code is provided, the AusUDID submission will be rejected
- If you feel a rejected code is active and valid, contact the GMDN Agency. If there is confirmation that the code is valid and active, contact <u>UDI@health.gov.au</u> and request further assistance.
- If a GMDN Code is provided, a generalizedmaterialKind must be provided
- If the GMDN code is invalid, or given more than once, the AusUDID submission will be rejected as a submission with an invalid GMDN Code

5.5 Device Information – Alternate or Additional Identifiers

There are three device identifiers that are considered alternate or additional identifiers for a medical device product. Each of these is considered an equivalent identifier in the SPL XML and are composed of a code that indicates the type of identifier (e.g. unit of use, direct marking or secondary), a code for the actual device identifier and the Issuing Agency of that device identifier. The alternate or additional identifiers may be any one of the following:

- Unit of Use Device Identifier An identifier assigned to an individual medical device when a
 UDI is not labeled on the individual device at the level of its unit of use. Its purpose is to
 associate the use of a device to/on a patient
- Direct Marked Device Identifier An identifier that is marked directly on the medical device and is different than the Primary DI; only applicable to devices subject to Direct Marking requirements
- Secondary Device Identifier An identifier that is an alternate (secondary) lookup for a medical device that is issued from a different issuing agency than the Primary DI.

Another identifier is the Previous Device Identifier. Previous Device Identifier is an identifier assigned to a version/model of a medical device before the same version/model of the device was assigned a new or substitute device identifier for reasons other than changes to the device itself.

The *asEquivalentEntity* element can be used for any of the device identifiers listed above.

There are three types of Alternative Device identifiers depicted in the subsections below: Unit of Use, Direct Marking and Secondary DI, followed by an Additional Device identifier: Previous DI.

5.5.1 Unit of Use Device Identifier

The following XML Snippet includes the elements and attributes required for the Unit of Use device identifier:

5.5.1.1 Unit of Use Type (EquivalentEntity.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Code		01		The code element is the container element for the type of device identifier.			
	Code	11	Alphanumeric C101717	The <i>code</i> attribute indicates the type of device identifier, specifically for unit of use device identifier.			
	XPATH:						
	/document/comp ufacturedProduc	onent/structured t/asEquivalentE	dBody/component/secti ntity/code[@code="C10	on/subject/manufacturedProduct/man 01717"]			
	codeSystem	11	OID	This is the codeSystem for the type of			
			2.16.840.1.113883.	device identifier.			
			3.26.1.1				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asEquivalentEntity/code[@code="C101717"]/@codeSystem						
Business Bulos	The code must be "C101717"						
Rules	• The Unit of Use Device Identifier or Direct Marking (DM) Device Identifier is required if the						
	device count is greater than one						
	 If device count > 1, then one of asEquivalentEntity with code 'C101717' or 'C101678' must 						
	be provided.						
	 If device count = 1, then asEquivalentEntity with code 'C101717' must not be provided 						
	 If Device Count > 1 and both 'C101717' and 'C101678' is provided, or Device Count = 1 						
	and 'C10171	7' is provided, t	he AusUDID submissio	n will be rejected as a submission with			
	an invalid Un	nit of Use.					

5.5.1.2 Unit of Use Device Identifier (EquivalentEntity.definingMaterialKind.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
code		11		The code element is the container element for the unit of use device identifier.			
				Note: A code is required for each definingMaterialKind present in the XML.			
	code	11	Alphanumeric	This is the Unit of Use DI for the			
			e.g. 14-digit number	medical device.			
	XPATH:						
	/document/comp ufacturedProduct code	onent/structured t/asEquivalentE	dBody/component/secti ntity/code[@code="C10	on/subject/manufacturedProduct/man 01717"]//definingMaterialKind/code/@			
	codeSystem	11	OID	This is the <i>codeSystem</i> for the			
			GS1 1.3.160	Issuing Agency of the unit of use			
			HIBCC 2.16.840.1.113883.6.4 0				
			ICCBBA 2.16.840.1.113883.6.1 8				
	XPATH:						
	/document/comp ufacturedProduct codeSystem	onent/structured t/asEquivalentE	dBody/component/secti ntity/code[@code="C10	on/subject/manufacturedProduct/man 01717"]//definingMaterialKind/code/@			
Business Bules	 Base packag 	e Device Count	should be greater than	1 in order to provide a Unit of Use DI			
Rules	 The Unit of Use DI value can be changed before or after the Grace Period, as long as the 						
	device count > 1 before the Grace Period expires						
	• If provided, the Unit of Use Issuing Agency must be the same as the Primary DI Issuing						
	Agency, but	the DI must be	different				
	See <u>Common DI Validation</u> .						
	 The following 	g scenarios will	result in the submission	being rejected with an invalid Unit of			
	Use DI						
	∘ If De	vice Count > 1	and both Unit of Use DI	and Direct Marked DI is missing, or			
	both	have been prov	vided				
	o Devi	ce Count = 1 ar	nd Unit of Use DI is prov	vided			
	• Unit	of Use DI Issuir	ng Agency does not ma	tch Primary DI Issuing Agency			
	o Unit	of Use DI does	not match the format fo	or the Unit of Use DI Issuing Agency			
	o Unit	ot Use DI is the	same as Primary DI				

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
	o Unit	of Use DI given	more than once, the Au	usUDID submission will be rejected as
	a sut	omission.		

5.5.2 Direct Marking Device Identifier

The following XML Snippet includes the elements and attributes required for the Direct Marking device identifier:

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
code		01		The code element is the container element for the type of device identifier.			
	code	11	Alphanumeric	The code attribute indicates the type			
			C101678	of device identifier, specifically for Direct Marked DI.			
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asEquivalentEntity/code[@code="C101678]						
	codeSystem	11	OID	This is the <i>codeSystem</i> for the type of			
			2.16.840.1.113883.	device identifier.			
			3.26.1.1				
	XPATH:						
	/document/comp ufacturedProduc	oonent/structure ct/asEquivalentE	dBody/component/sect ntity/code[@code="C1	ion/subject/manufacturedProduct/man 01678"]/@codeSystem			

5.5.2.1 Direct Marking Type (EquivalentEntity.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Business Rules	The code sho	ould be 'C10167	78' for a Direct Marked [וכ			
	 The Direct M 	The Direct Marked DI is not required in a UDI record unless the value is different than the					
	Primary DI	Primary DI					
	If device court	If device count > 1, then one of asEquivalentEntity with code 'C101717' or 'C101678' must					
	be provided	be provided					
	If Device Cou	int > 1 and both	'C101717' and 'C10167	8' is provided, the AusUDID			
	submission w	vill be rejected a	as a submission with an	invalid Direct Marked.			

5.5.2.2 Direct Marking Device Identifier (EquivalentEntity.definingMaterialKind.code)

Element	Attribute	Cardinality	Value(s) Allowed	Description			
			Examples	Instructions			
code		11		The code element is the container element for the direct marking device identifier.			
				Note: A code is required for each definingMaterialKind present in the XML.			
	code	11	Alphanumeric, e.g.	This is the Direct Marked DI for			
			11111111111111111	medical device.			
	XPATH:		·				
	/document/comp ufacturedProduc @code	oonent/structure ct/asEquivalentE	edBody/component/sect Entity/code[@code=" <i>C1</i>	ion/subject/manufacturedProduct/man 01678"]//definingMaterialKind/code/			
	codeSystem	11	OID	This is the <i>codeSystem</i> for the issuing			
		GS1 1.3.160	agency of the direct				
			HIBCC	marked DI.			
			2.16.840.1.113883.6.4 0				
			ІССВВА				
			2.16.840.1.113883.6.1 8				
	XPATH:						
	/document/comp ufacturedProduc @codeSystem	oonent/structure ct/asEquivalentE	edBody/component/sect Entity/code[@code=" <i>C1</i>	ion/subject/manufacturedProduct/man 01678"]//definingMaterialKind/code/			
Business Rules	Only one Di	rect Marking De	vice Identifier shall be p	provided for each UDI record			
	• If provided,	the Direct Marke	ed Issuing Agency can	be from any Issuing Agency			
	 Direct Marked DI must not be provided if it is the same as the Primary DI 						

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
	 Direct Market 	ed DI must not b	be provided if the Direct	Marking Exempt is True			
	 See <u>Commo</u> 	on DI Validation					
	 The followin 	g scenarios will	result in the submission	n being rejected with an invalid Unit of			
	Use DI						
	 If Device Co 	ount > 1 and bot	h Unit of Use and Direc	t Marked DI is missing, or both have			
	been provid	ed					
	Direct Marke	Direct Marked Issuing Agency is missing or invalid					
	Direct Marke	Direct Marked DI does not match the format for the Direct Marked Issuing Agency					
	Direct Marke	Direct Marked DI is the same as Primary DI					
	Direct Marke	Direct Marked DI provided when Direct Marking Exempt is True.					
	Direct Marke	Direct Marked DI given more than once.					
	 If a Direct M 	If a Direct Marking Device Identifier is provided, the "DM DI Different from Primary DI"					
	checkbox w	ill be displayed f	for the UDI record. No a	additional values need to be submitted			
	via SPL. The	e value can be o	changed before and afte	er the Grace Period			

5.5.3 Secondary DI

The following XML Snippet includes the elements and attributes required for the Secondary DI:

5.5.3.1 Secondary DI Type (EquivalentEntity.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
Code		01		The code element is the container element for the type of device identifier.				
	Code	11	Alphanumeric	The <i>code</i> attribute indicates the type				
			e.g. C101724	of device identifier.				
	XPATH:							
	/document/com ufacturedProdu	nponent/structur uct/asEquivalent	edBody/component/sec Entity/code[@code="C [^]	tion/subject/manufacturedProduct/man 101724"]				
	codeSystem	11	OID	This is the <i>codeSystem</i> for the type of				
			e.g.	device identifier.				
			2.16.840.1.113883.					
			3.26.1.1					

	XPATH:
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asEquivalentEntity/code[@code="C101724"]/@codeSystem
Business Rules	 The <i>code@code</i> value must be "C101724" asEquivalentEntity with code 'C101724' is optional

5.5.3.2 Secondary Device Identifier (EquivalentEntity.definingMaterialKind.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Code		11		The code element is the container element for the Secondary DI.			
				Note: A code is required for each <i>definingMaterialKind</i> present in the XML.			
	Code	11	Alphanumeric	This is the Secondary DI for the			
			e.g. 1231234566	medical device.			
	KPATH:						
	/document/com ufacturedProdu @code	nponent/structur uct/asEquivalent	edBody/component/sec Entity/code[@code="C1	tion/subject/manufacturedProduct/man 101724"] <u>//definingMaterialKind/code/</u>			
	codeSystem	11	OID	This is the <i>codeSystem</i> for the			
			GS1 1.3.160	issuing agency of the Secondary DI.			
			НІВСС				
			2.16.840.1.113883.6.4 0				
			ICCBBA 2.16.840.1.113883.6.1				
			8				
	ХРАТН:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asEquivalentEntity/code[@code="C101724"]//definingMaterialKind/code/ @codeSystem						

Business Rules	 After the UDI record Grace Period expires, Secondary DI values cannot be edited,
	however, additional Secondary DIs may be added.
	See <u>Common DI Validation</u> .
	• The Secondary DI provided cannot be from the same Issuing Agency as the Primary DI.
	 Only one Secondary DI value can be added for each Issuing agency.
	The following scenarios will result in the submission being rejected with an invalid
	Secondary DI:
	 If Secondary DI Issuing Agency matches Primary DI Issuing Agency
	 Secondary DI Issuing Agency is used more than once
	 Secondary DI does not match the format for the Secondary DI Issuing Agency
	 Secondary DI is the same as Primary DI.

5.5.4 Previous DI

Previous Device Identifier is an identifier that was assigned to a given version/model of a medical device before the same version/model of the device was assigned a new or substitute device identifier for reasons other than changes to the device physical specifications or new indications for use that change the model or version.

The following XML Snippet includes the elements and attributes required for the Previous Device Identifier:

5.5.4.1 Previous DI Type (EquivalentEntity.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
Code		01		The code element is the container element for the type of device identifier.				
	Code	11	Alphanumeric	The <i>code</i> attribute indicates the type of				
			e.g. C125195	device identifier.				
	XPATH:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/ma ufacturedProduct/asEquivalentEntity/code[@code="C125195"]							
	codeSystem	11	OID	This is the <i>codeSystem</i> for the type of				
			e.g.	device identifier.				
			2.16.840.1.113883.					
			3.26.1.1					

	XPATH:
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asEquivalentEntity/code[@code="C125195"]/@codeSystem
Business Rules	 The <i>code@code</i> value must be "C125195"
	 asEquivalentEntity with code 'C125195' is optional.

5.5.4.2 Previous Device Identifier (EquivalentEntity.definingMaterialKind.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
code		11		The code element is the container element for the previous device identifier.				
				Note: A code is required for each <i>definingMaterialKind</i> present in the XML.				
	Code	11	Alphanumeric	This is the Previous Device Identifier				
			e.g. 1231234566	for the medical device.				
	XPATH:		I					
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asEquivalentEntity/code[@code="C125195"]//definingMaterialKind/code/ @code							
	codeSystem	11	OID GS1 1.3.160 HIBCC 2.16.840.1.113883.6.4 0 ICCBBA 2.16.840.1.113883.6.1 8	This is the <i>codeSystem</i> for the Issuing Agency of the previous device identifier.				
	ХРАТН:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asEquivalentEntity/code[@code="C125195"] <u>//definingMaterialKind/code/@</u> codeSystem							
Business Rules	The Previou record in A	us DI provided r usUDID.	nust exist as a valid Prir	nary DI for another published UDI				
	 Previous DI can be added or edited after the Grace Period. 							
	 Previous DI cannot be deleted after the Grace Period. 							
	 See <u>Comm</u> 	on DI Validatior	<u>ı</u> .					
	Only one Previous DI value can be added for each UDI record.							

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
	 The following 	ng scenarios wil	I result in the submissio	n being rejected with an invalid		
	Previous D	l:				
	o Pre	evious DI does r	not match the format for	the Previous DI Issuing Agency.		
	 Previous DI is the same as Primary DI. 					
	∘ Pre	evious DI given	more than once.			

5.5.5 Device Information – Manufacturer

The manufacturer of the medical device. The following XML Snippet includes the elements and attributes for the manufacturer:

```
<manufacturerOrganization>
<id root="1.2.36.1.2001.1005.84" extension="12345"/>
<name>Manufacturer Name</name>
</manufacturerOrganization>
```

The following elements will be found in the AusUDID HL7 SPL submission:

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions				
ld		11		This is the container element for the manufacturer.				
	Root	11	TGA OID 1.2.36.1.2001.1005.84	This is the OID for TGA Organisations.				
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturerorganization/id/@root							
	Extension	11	Organisation Number e.g. 12345	This is the assigned TGA Organisation number.				
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturerOrganisation/id/@extension							
Business Rules	The TBS organisation number for the Manufacturer must be provided and must exist within TBS							
	 A manufacturerOrganization must be provided Only one manufacturer can be provided 							
	• It must be a number.							

5.5.5.1 Manufacturer (manufacturerOrganization.id)

•	If the manufacturerOrganization is missing, invalid, or given more than once, the AusUDID
	submission will be rejected as a submission with an invalid Manufacturer.

5.5.5.2 ManufacturerOrganization.name

Element	Attribute	Cardinalit y	Value(s) Allowed Examples	Description Instructions			
name.item		11		The <i>name.item</i> element is the container element for the organisation name of the manufacturer.			
		11	Alphanumeric ¹¹	This is the name of the manufacturer.			
			e.g. Manufacturer Pty Ltd				
	XPATH:						
	/document/co ufacturerOrga	mponent/stru anization/nam	cturedBody/component/sec e/text()	tion/subject/manufacturedProduct/man			
Business Rules	A manufacturer name must be provided.						
i tuico	The manufacturer name must match what is recorded in TBS.Only one manufacturer name can be provided.						
	The man	ufacturer nam	e should be no more than 8	0 characters and length and can only			
	contain a	ccepted speci	ial characters. Refer to <u>Data</u>	a types and the M2M HL7 SPL - SPL			
	Code Lis	t - AusUDID ir	n the HL7 SPL Implementati	ion package of files for a list of			
	accepted	special chara	cters.				
	 If the mar 	nufacturer nam	ne is missing, invalid, or give	n more than once, the AusUDID			
	submissio	on will be reje	cted as a submission with a	n invalid Manufacturer.			

5.6 Device Characteristics

```
<subjectOf>

<characteristic>

<code code="C101679" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="BL" value="false"/>

</characteristic>

</subjectOf>
```

A number of elements are described using the following structure.

<subjectOf>

<characteristic>

<code ../> ...

</characteristic>

</subjectOf>

¹¹ Refer to 'AusUDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a list of accepted special characters

When an unrecognised code is used, the code and it's attributes are ignored.

5.6.1 Device Characteristics – Device Count

The Device Count is the number of medical devices in the base package (i.e. the base package is the package configuration as labeled with and identified by the UDI record's Primary DI). The following XML Snippet includes the elements and attributes required for the device count:

For example, Base Package = Box of 100 gloves, Primary DI = 101; Device Count = 100

```
<asContent>
<quantity>
<numerator value="100"/>
<denominator/>
</quantity>
<containerPackagedProduct>...
</containerPackagedProduct>
</asContent>
```

5.6.1.1 Device Count Value (quantity.numerator)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
Numerator		11		This is the container element for the device count				
	Value	11	Numeric	This is the device count value of the				
			e.g. 100, 1000	base package.				
	XPATH:							
	/document/com ufacturedProdu	ponent/structur ct/asContent/qu	edBody/component/sec uantity/numerator/@valu	tion/subject/manufacturedProduct/man Je				
Denominator		11		Leave empty				
	XPATH:	1	I	•				
	/document/component/structuredBody/component/section/subject/manufacturedProduct/ma ufacturedProduct/asContent/quantity/denominator							
Business Rules	The Denominator element should be provided in your XML file, no value is required							
. turee	 asContent. 	quantity is requi	red					
	The numer	ator@value is re	equired					
	 If more that 	n one package o	configuration is provided	d, the <i>numerator</i> value of each				
	asContent	element must b	be the same					
	 If the asCo 	ntent.quantity is	missing, invalid, or give	en more than once, or has different				
	values in of	ther package co	nfigurations, the AusUE	DID submission will be rejected as a				
	submission with an invalid Device Count.							

5.6.2 Device Characteristics – Packaging Configuration

A package configuration is made up of the following elements:

- Package DI A device identifier for the package configuration that contains multiple units of the base package
 - Examples Package DI (in bold)
 - Base Package DI = 101
 - 4 glove boxes in a Carton -- **Package DI =201** (the DI on the Carton)
 - 5 Cartons in a Case -- **Package DI=301** (the DI on the Case)
- **Package Type –** Text to describe the outer packaging of the product and enables users to understand higher level packaging configurations. The package type can only be 20 characters
 - Examples of Package Type
 - Carton
 - Case
- Quantity per Package The number of packages with a unique Primary DI within a given packaging configuration
 - Examples of Quantity (in bold)
 - Package DI 201 is a Carton which contains 4 glove boxes
 - Package DI 301 is a Case which contains 5 Cartons
- Sponsor Package Commercial Distribution End Date: Indicates the date a particular package configuration is no longer offered for commercial distribution by the Sponsor
- **Contains DI Package** The Primary DI for the base package or any lower-level package configuration contained within a given package configuration. In the SPL, the Contains DI package configuration is nested and takes the value of the lower-level package
 - Examples of Contains DI:
 - Package DI 201 contains base Package DI 101
 - Package DI 301 contains Package DI 201

The following XML Snippet includes the elements and attributes required for the package configuration above:

• 4 glove boxes in a Carton -- **Package DI =201** (the DI on the Carton)



5.6.2.1 Package DI (containerPackagedProduct.code)

The following XML Snippet includes the elements and attributes required for the package DI:



Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
Code		11		This is the container element for the package Device identifier.				
	Code	11	Alphanumeric	This is the device identifier.				
			e.g. 14-digit value					
	XPATH: Varies	<u> </u>	1					
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/code/@code							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/asContent/containerPackagedProdu ct ¹² /code/@code							
	codeSystem	11	OID GS1 1.3.160 HIBCC 2.16.840.1.113883.6.4 0 ICCBBA 2.16.840.1.113883.6.1 8	This is the <i>codeSystem</i> for the Issuing Agency of the package device identifier.				
	XPATH: Varies							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/code/@codeSystem							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/asContent/containerPackagedProdu ct/code/@codeSystem							

¹² asContent/containerPackagedProduct repeats for each package level

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
Business Rules	 Once the UDI records change updating contain configure See Control See Cont	he grace period cord. The only c es to the packag of an existing da erPackagedPro ration ommon DI Valida ge Configuration suing Agency for lowing scenarios ge DI: Package Issuir Package DI do Package DI is Package DI jis	expires, a package con hange that can be made e commercial distributio ate duct is optional. It is req ation. s can be removed via th Package DI should be s will result in the submi ing Agency does not mat he same as Primary DI yen more than once.	figuration cannot be removed from the e to a package configuration is n end date – adding a date if null, or uired when there is a package ne portal by the use of a correction. the same as the Primary DI ssion being rejected with an invalid sch Primary DI Issuing Agency. t for the Package Issuing Agency.

5.6.2.2 Package Type (containerPackagedProduct.name)

The following XML Snippet includes the elements and attributes required for the package type:

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
name		01		This is the container element for the package type.			
		01	Alphanumeric e.g. box, case	This is a short package type description.			
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/name/text()						

	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/asContent/containerPackagedProdu ct/name/text()							
Business Rules	 If the package type is provided, it cannot be changed after the Grace Period 							
	Package type is optional							
	 If provided, can only be maximum 20 characters in length 							
	• If name is invalid or given more than once, the AusUDID submission will be rejected as a							
	submission with an invalid Package.							

5.6.2.3 Quantity per Package (containerPackagedProduct.capacityQuantity)

The following XML Snippet includes the elements and attributes required for the package quantity:



Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
capacityQuan tity		11		This is the container element for the quantity in Package value.			
	value	11	Numeric	This is the number of products in the package.			
			e.g. 20, 30				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/capacityQuantity/@value						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/man ufacturedProduct/asContent/containerPackagedProduct/asContent/containerPackagedProdu ct/capacityQuantity/@value						

o 1 if the Contains DI is the Primary DI (i.e.
after the Grace Period
ackage configuration
more than once, the AusUDID submission
d Package.

5.6.2.4 Sponsor Package Commercial Distribution End Date

The Sponsor package commercial distribution end date consists of two elements as follows.

The following XML Snippet includes the elements and attributes required for the sponsor package commercial distribution end date:



5.6.2.4.1 Sponsor Package Commercial Distribution End Date (marketingAct.effectiveTime.low)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions	
Low		01		This is the container element for the sponsor package commercial distribution end date.	
	XPATH:				
	/document/component/structuredBody/component/section/subject/manufacturedProduct/r ufacturedProduct/asContent/containerPackagedProduct/asManufacturedProduct/subject@ arketingAct/effectiveTime/low/@value				
	/document/com ufacturedProdu ct/asManufactu	ponent/structure ct/asContent/co redProduct/subj	edBody/component/sec ontainerPackagedProdu jectOf/marketingAct/effe	tion/subject/manufacturedProduct/man ct/asContent/containerPackagedProdu ectiveTime/low/@value	
Business Rules	 effectiveTin 	ne is optional			

•	If effective time is provided, the date element is required, but no value should be
	provided.
•	If low value is provided, the AusUDID submission will be rejected as a submission with
	an invalid Package.

5.6.2.4.2 Sponsor Package Commercial Distribution End Date (marketingAct.effectiveTime.high)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
High		01		This is the container element for the sponsor package commercial distribution end date.			
	value	11	Date Format YYYYMMDD E.g. "20111016"	This is the value for the date the package is no longer offered for commercial distribution by the sponsor.			
	XPATH: Varies			<u> </u>			
	/document/com ufacturedProdu arketingAct/effe	ponent/structur ict/asContent/cc ectiveTime/high/	edBody/component/sec ontainerPackagedProdu /@value	tion/subject/manufacturedProduct/man ct/asManufacturedProduct/subjectOf/m			
	/document/com ufacturedProdu ct/asManufactu	ponent/structur ict/asContent/cc iredProduct/sub	edBody/component/sec ontainerPackagedProdu jectOf/marketingAct/effe	tion/subject/manufacturedProduct/man ct/asContent/containerPackagedProdu ectiveTime/high/@value			
Business Bulas	effectiveTime is optional						
Rules	If effective	 If effective time is provided, the date element is required 					
	 If date is provided, it must be a valid date in format YYYYMMDD 						
	 If effectiveT 	Time is invalid, c	or given more than once	, or high date is missing or invalid, the			
	AusUDID s	ubmission will b	e rejected as a submiss	sion with an invalid Package			
	 The date is 	only provided a	it the time the package i	s no longer offered for commercial			
	distribution by the Sponsor						
	The Packag	ge DI will still rer	main in the AusUDID sy	stem after it reaches the Sponsor			
	package co	ommercial distrib	oution end date				
	 If UDI data 	is uploaded by	the Manufacturer, the S	ponsor package commercial			
	distribution	end date is not	required. If it is provide	d it will be ignored			
	 If UDI data 	is uploaded by	the Sponsor, the Spons	or package commercial distribution			
	end date m	ay be provided.	If it is provided, it is the	package commercial distribution end			
	date as det	ermined by the	Sponsor for this packag	e for each ARTG ID included in the			
	HL7 messa	ige.					

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions	
Code		11		This is the container element for the Contains Device identifier.	
	code	11	Alphanumeric e.g. 14-digit value	This is the Contains Package DI.	
	XPATH: Varies				
	code System	11	OID GS1 1.3.160	This is the OID for the Contains Package DI Issuing Agency.	
			HIBCC 2.16.840.1.113883.6.4 0		
			ICCBBA 2.16.840.1.113883.6.1 8		
	XPATH: Varies				
Business Rules	 Package configurations are given in a hierarchy The Contains Package DI within the first package configuration in a hierarchy will always point to the base package DI found in manufacturedProduct.code The Contains Package DI within the second package configuration in a hierarchy will always point to the first package DI found in containerPackagedProduct.code Apart from the first package configuration, the Contains Package DI within any package configuration in a hierarchy will always point to the previous package DI found in containerPackagedProduct.code These rules apply to each distinct hierarchy. 				

5.6.2.5 Contains DI Package (containerPackagedProduct.code or manufacturedProduct.code)

5.6.3 Device Status and Dates – Sponsor Commercial Distribution End Date

The Sponsor Commercial Distribution End Date indicates the date the device is no longer held or offered for sale by the Sponsor. The device may or may not still be available for purchase in the marketplace. The following XML Snippet includes the elements and attributes required for the Sponsor Commercial Distribution End Date:

5.6.3.1 Sponsor Commercial Distribution End Date (marketingAct.effectiveTime.low)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Low		11		This is the container element for the Sponsor Commercial Distribution End Date.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/marketingAct/effectiveTime/low/@value						
Business Rules	 effectiveTime is optional If effective time is provided, the date element is required, but no value should be provided If low value is provided, the AusUDID submission will be rejected as a submission with an invalid Sponsor Commercial Distribution End Date. 						

5.6.3.2 Sponsor Commercial Distribution End Date (marketingAct.effectiveTime.high)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
High		11		This is the container element for Sponsor Commercial Distribution End Date		
	value	11	Date Format YYYYMMDD	This is the date value for the date the device product is no longer in commercial distribution.		
			E.g. "20111016"			
	XPATH:			·		
	/document/component/structuredBody/component/section/subject/manufacturedProduc ectOf/marketingAct/effectiveTime/high/@value					
Business Rules	The date is only provided at the time the device product is no longer actively marketed by the Sponsor The UDL record will remain in the AugUDID					
	 The OD record will remain in the AusODID effectiveTime is optional 					

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
	If effect	tive time is prov	ided, the date element is	s required			
	 If date i 	is provided, it m	ust be a valid date in fo	rmat YYYYMMDD			
	If effect	tiveTime is inva	lid, or given more than c	nce, or high date is missing or invalid,			
	the Aus	the AusUDID submission will be rejected as a submission with an invalid Sponsor					
	Comme	Commercial Distribution End Date					
	If UDI c	• If UDI data is uploaded by the Manufacturer, the Sponsor commercial distribution enc					
	date is	date is not required. If it is provided it will be ignored					
	If UDI c	data is uploaded	oonsor commercial distribution end				
	date ma	ay be provided.	If it is provided, it is the	commercial distribution end date as			
	determ	ined by the Spo	nsor for each ARTG ID	included in the HL7 message.			

5.6.4 Device Characteristics – Device Subject to Direct Marking, but Exempt

The manufacturer can claim their device is subject to Direct Marking but exempt. The following XML Snippet includes the element that indicates the exemption:

```
<subjectOf>

<characteristic>
</characteristic>
</characteristic>
</characteristic>
</characteristic>
</subjectOf>
```

5.6.4.1 Device Subject to Direct Marking (DM), but Exempt (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
Code		01		The code element is the container element for Device Subject to Direct Marking (DM), but Exempt.
	code	11	Alphanumeric	The <i>code</i> for Device Subject to Direct
			C101679	Marking (DM), but Exempt.
	XPATH:			
	/document/comp ctOf/characteris	oonent/structure tic/code[@code=	dBody/component/sect ="C101679"]	ion/subject/manufacturedProduct/subje
	codeSystem	11	OID	This is the <i>codeSystem</i> that manages
			2.16.840.1.113883.	the controlled
			3.26.1.1	vocabulary.

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
	XPATH: /document/compo ctOf/characteristi	onent/structure c/code[@code=	dBody/component/sectio "C101679"]/@codeSys	on/subject/manufacturedProduct/subje tem
Business Rules	If the Device "C101679"	is subject to Dir	ect Marking, but exemp	t, the <i>code@code</i> value must be
	 A characteris If this data elements not need to b 	ement does not e provided.	apply to the UDI record	l, a characteristic data element does

5.6.4.2 Device Subject to Direct Marking (DM), but Exempt Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed	Description Instructions			
			Examples	instructions			
Value		11		This is the container element for the direct marking exempt indicator.			
	xsi:type	11	Boolean BL	The xsi:type indicates the data type for the element.			
	XPATH:						
	/document/componer ctOf/characteristic/ co	nt/structuredBo ode[@code="C	dy/component/section 101679"] <u>//value/@xs</u>	/subject/manufacturedProduct/subje i <u>:type</u>			
	Value	11	Alpha "true" or "false"	This is the <i>value</i> attribute for the Boolean operator.			
	ХРАТН:						
	/document/componer ctOf/characteristic/co	nt/structuredBo de[@code="C´	dy/component/section 101679"]//value/@val	/subject/manufacturedProduct/subje ue			
Business Rules	• If 'C101679' is pr	 If 'C101679' is provided, then value must be provided 					
	If value is provided, value must be true or false						
	• If characteristicValue is missing, invalid, or given more than once, the AusUDID submission						
	will be rejected as a submission with an invalid Direct Marking						
	 If the value is set to "true", a Direct Marked DI will not be allowed 						
	If the value is set to "false", a Direct Marked DI value is required only if the value is						
	different than the Primary DI						
	If the data element value is not provided, "false" will be stored in the database						
	The value can be	submitted as p	part of the initial submi	ssion, or changed after the Grace			
	Period, but the ru	lles above will	always apply.				

5.6.5 Device Characteristics – Clinically Relevant Size

The clinically relevant size measurement for the medical device is captured under device characteristics. The following XML Snippet includes the elements and attributes required for clinically relevant size:

5.6.5.1 Clinically Relevant Size Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions	
Code					
	code	11	Alphanumeric	The <i>code</i> to indicate clinically	
			e.g. C96684	relevant size type, the dimension type for the clinically relevant measurement of the medical device.	
	XPATH:		1		
	/document/comp ctOf/characteristi	onent/structure c/code[@code=	dBody/component/secti ="see list – codes vary b	on/subject/manufacturedProduct/subje by type"]	
	codeSystem	11	OID	This is the <i>codeSystem</i> that manages	
			2.16.840.1.113883.	the controlled vocabulary.	
			3.26.1.1		
	XPATH:				
	/document/comp ctOf/characteristi	onent/structure c/code[@code=	dBody/component/secti ="see list"]/@codeSyste	on/subject/manufacturedProduct/subje m	
Business	Clinical size codes are optional				
Rules	 The attribute 	s will be treated	l as a Clinical Size if a r	ecognised Clinical Size code is	
	provided.				
	 The code will 	determine the	valid units of measure f	or the size type. See controlled	
	vocabulary d	ocumentation for	or details		
	If characteristic code value is given more than once, the Augl IDID submission will be				
			b on involid Clinical Siz		
	rejected as a	SUDITIISSION WI	in an invaliu Clinical Siz		

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
value		11		This is the container element for the clinically relevant size quantity.
	xsi:type	11	Physical Quantity PQ	The xsi:type indicates the data type for the element.
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="see list"]//value/@xsi:type			
	value	11	Alpha Numeric e.g. 3	This is the numeric value for the clinically relevant size measurement of the medical device.
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="see list"]//value/@value			
	unit	11	Alpha Numeric e.g. cm, [in_i], U/L	This is the value of the <i>unit</i> of measure associated with each clinically relevant size.
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="see list"]//value/@unit			
	 If the clinically relevant size code is a structured measure, the value and unit must be provided. The unit of measure submitted must be allowed for the given size type – e.g. the size type outer diameter (C96684) must have a unit of measure for a valid length size. See controlled vocabulary documentation for details. Characteristic.value is required unless code is 'C106041' If provided, the value needs to be one of the valid values for clinically relevant size. If characteristic.value value is invalid, or given more than once, the AusUDID submission will be rejected as a submission with an invalid Clinical Size 			

5.6.5.2 Clinically Relevant Size Value and Unit of Measure (characteristic.value)
5.6.5.3 Device Characteristics – Clinically Relevant Size – Device Size Text

Clinically relevant device size text field can be used to provide additional undefined device size not represented in the AusUDID's clinically relevant size list.

The following XML Snippet includes the elements and attributes required for providing a free-text description of the clinically relevant size:

Multiple instances of clinical size text values can be submitted for a single device by duplicating the XML Snippet above.

5.6.5.3.1 Clinically Relevant Size Device Size Text Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
code		11		This is the container element for clinically relevant size text.				
	code	11	Alphanumeric	This is the code to indicate the type of				
			C106041	characteristic being identified for a device product.				
	XPATH:	1						
	/document/comp ctOf/characterist	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C106041"]						
	codeSystem	11	OID	This is the <i>codeSystem</i> that manages				
			2.16.840.1.113883.	the controlled vocabulary.				
			3.26.1.1					
	XPATH:			1				
	/document/comp ctOf/characterist	onent/structure ic/code[@code=	dBody/component/secti ="C106041"]/@codeSys	on/subject/manufacturedProduct/subje stem				
Business Rules	• The <i>code</i> @	code value mus	t be "C106041".					

Element	Attribute	Cardinality	Value(s) Exan	Allowed	Description Instructions
value	11				This is the container element for the size text.
	xsi:type	11	String ST		The xsi:type indicates the data type for the element.
	XPATH: /document/componen ctOf/characteristic/coc	t/structuredBo de[@code="C1	dy/compon 06041"]//\	ent/section/ /alue@xsi:t	/subject/manufacturedProduct/subje
	value	11 Alphan e.g. me	iumeric ¹³ edium	This is the relevant siz	value attribute for the clinically ze text.
	XPATH: /document/componen ctOf/characteristic/coc	t/structuredBo de[@code="C1	dy/compon 06041"]//\	ent/section/ /alue/text()	/subject/manufacturedProduct/subje
Business Rules	 The text element of Characteristic.value Characteristic.value The Clinically Releand can only contend of accepted specie If clinical size text the AusUDID sub- 	text element can only be used when the code is "C106041" is provided cacteristic.value is required if code is 'C106041' Clinically Relevant Size Text value should be no more than 200 characters in ler can only contain accepted special characters. Refer to <u>Data types</u> and UDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a ccepted special characters nical size text is invalid, or given more than once, or given when code is not 'C10 AusUDID submission will be rejected as a submission with an invalid Clinical Size			

5.6.5.3.2 Clinically Relevant Size Text (characteristic.value)

¹³ Refer to 'AusUDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a list of accepted special characters

5.6.6 Device Characteristics – Storage and Handling Requirements

Storage and handling requirements that are required for the device including temperature, humidity, and atmospheric pressure are provided as device characteristics. The following XML Snippet includes the elements and attributes required for these requirements:

5.6.6.1 Storage and Handling Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
Code		0*		This is the container element for the storage and handling type.				
	code	11	Alphanumeric	This is the code to indicate the				
			e.g. C101707	identified for a device product.				
	XPATH:							
	/document/comp ctOf/characterist	onent/structure ic/code[@code=	dBody/component/secti ="see list"]	ion/subject/manufacturedProduct/subje				
	codeSystem	11	OID	This is the codeSystem that manages				
			2.16.840.1.113883.					
			3.26.1.1	vocabulary.				
	XPATH: /document/comp ctOf/characterist	onent/structure ic/code[@code=	dBody/component/secti ="see list"]/@codeSyste	ion/subject/manufacturedProduct/subje em				
Business Rules	 If a storage a 	and handling ele	ment is sent, the <i>code</i>	@code and code@codeSystem is				
	required							
	 Storage and Handling codes are optional 							
	 If provided, t 	he code value n	eeds to be one of the v	alid values for Storage and Handling				
	The attributes will be treated as Storage and Handling if a recognised Storage and							
	Handling coo	le is provided.						
	 If characteris 	tic.code value is	given more than once,	the AusUDID submission will be				
	rejected as a	submission wit	h an invalid Storage an	nd Handling.				

5.6.6.2 Storage and Handling Value and Unit of Measure (characteristic.value.low)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
value@xsi:typ e	xsi:type	11	String IVL_PQ	The xsi:type indicates the data type for the element.			
	XPATH:						
	/document/comp ectOf/characteris	onent/structure stic/code[@code	dBody/component/sec e="see list"]//value/@:	tion/subject/manufacturedProduct/subj xsi:type			
value.low		11		This is the container element for the storage and handling value.			
	value	11	Numeric e.g. 10. 20	The value of the storage or handling value.			
	XPATH [.]						
	/document/comp ectOf/characteris	onent/structure stic/code[@code	edBody/component/sec e="see list"]//value/lov	tion/subject/manufacturedProduct/subj v/@value			
	unit	11	Alpha Numeric e.g. Celsius	This is the unit of measure for the storage or handling unit.			
	XPATH: /document/comp ectOf/characteris	onent/structure stic/code[@code	dBody/component/sec e="see list"]//value/lov	tion/subject/manufacturedProduct/subj v/@unit			
Business Rules	 The following rules can be applied to indicate the low value for storage or handling conditions: 						
	\circ provide when the storage and handling condition has a range, this is the lower						
	end of that range (and the upper end of the range should be provide						
	o prov	ide when the st	orage and handling co	ndition value is greater than this value			
	(no value will be provided in the high value)						
	(note	e- same value v	will be entered in high@	value)			
	 Storage and 	handling low va	alue must not be provic	led when the code is "C101704"			
	 If a storage of 	or handling requ	uirement is provided – e	either the low or high value is required			
	 The low valu 	e can only be 6	characters in length in	cluding leading zero, decimal and			
	negative sigr	n. Up to 4 numl	bers are allowed after t	he decimal			
	 If characteris 	stic low value ar	nd high value are both	missing when code is not 'C101704',			
	or low value	is given when o	code is 'C101704', or is	invalid, or given more than once, the			
	AusUDID su	dmission will be	e rejected as a submiss	sion with an invalid Storage and			
	 Handling Storage and handling low unit of measure is not provided when the code is "C101704" 						

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
	 If a low value value 	is provided, th	e unit of measure must	also be provided, and must be a valid
	 If the low and 	l high value is p	provided, the unit of me	asure must be the same
	 If low unit of when code is high unit of m invalid Storage 	measure is mis 5 'C101704', or neasure, the Au ge and Handling	sing when low value is is invalid, or given more IsUDID submission will g.	given, or low unit of measure is given e than once, or is not the same as the be rejected as a submission with an

5.6.6.3 Storage and Handling Value and Unit of Measure (characteristic.value.high)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
value@xsi:ty	xsi:type	11	String	The xsi:type indicates the data type				
pe			IVL_PQ	for the element.				
	XPATH:							
	/document/comp ctOf/characteristi	onent/structured c/code[@code=	dBody/component/secti ="see list"]//value/@xs	on/subject/manufacturedProduct/subje i:type				
value.high		11		This is the container element for the storage and handling condition.				
	value	11	Numeric	The value of the storage or handling				
			e.g. 10, 20	condition.				
	XPATH:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="see list"]//value/high/@value							
	unit	11	Alpha Numeric	This is the unit of measure for the				
			e.g. Celsius	storage or handling condition.				
	XPATH:							
	/document/comp ctOf/characteristi	onent/structured c/code[@code=	dBody/component/secti ="see list"]//value/high/	on/subject/manufacturedProduct/subje ′@unit				
Business Rules	 The following conditions: 	rules can be a	oplied to indicate the hi	gh value for storage or handling				

\circ provide when the storage and handling condition has a range, this is the upper
end of that range (and the lower end of the range should be provided as the low
value)
\circ provide when the storage and handling condition value is less than this value (no
value will be provided in the low value)
o provide when the storage and handling condition is exactly equal to a value (note-
same value will be entered in low@value)
 Storage and handling high value must not be provided when the code is "C101704"
 If a storage or handling requirement is provided – either the low or high value is required.
 The high value can only be 6 characters in length including leading zero, decimal and
negative sign. Up to 4 numbers are allowed after the decimal
 If characteristic low value and high value are both missing when code is not 'C101704', or
high value is given when code is 'C101704', or is invalid, or given more than once, the
AusUDID submission will be rejected as a submission with an invalid Storage and
Handling
 Storage and handling high unit of measure is not provided when the code is "C101704"
 If a high value is provided, the unit of measure must also be provided, and must be a valid
value
 If the low and high value is provided, the unit of measure must be the same
 If high unit of measure is missing when high value is given, or high unit of measure is
given when code is 'C101704', or is invalid, or given more than once, or is not the same
as the low unit of measure, the AusUDID submission will be rejected as a submission with
an invalid Storage and Handling.

5.6.6.4 Device Characteristics – Special Storage Conditions

Indicates any special storage requirements for the device where the value is not structured (e.g. free text instructions for storage and handling conditions). The following XML Snippet includes the elements and attributes required for special storage conditions:

```
<subjectOf>

<characteristic>

<code code="C101704" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="ST1">keep out of sunlight</value>

</characteristic>

</subjectOf>
```

Multiple instances of special storage conditions text values can be submitted for a single device by duplicating the XML Snippet above.

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
Code		0*		This is the container element for the storage and handling type.

5.6.6.4.1 Special Storage Condition Type (characteristic.code)

	Code	11	Alphanumeric C101704	Code to indicate special storage and handling conditions for a device product.
	XPATH:			
	/document/comp ctOf/characterist	onent/structure ic/code[@code=	dBody/component/sect ="C101704"]	on/subject/manufacturedProduct/subje
	codeSystem	11	OID	This is the <i>codeSystem</i> that manages
			2.16.840.1.113883.	the controlled vocabulary.
			3.26.1.1	
	XPATH:			
	/document/comp ctOf/characterist	onent/structure ic/code[@code=	dBody/component/sect ="C101704"]/@codeSys	on/subject/manufacturedProduct/subje stem
Business Rules	 If there is a s special stora not be provid 	pecial storage ge requirement led.	requirement, the code (does not exist, a chara	Code value must be "C101704". If a cteristic element with this code should

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions	
Value		11		This is the container element for the special storage text.	
	xsi:type	11	String ST	The xsi:type indicates the data type for the element.	
	XPATH:	I	1		
	/document/comp ectOf/characteris	onent/structure tic/code[@code	dBody/component/sect e="C101704"]//value/@	ion/subject/manufacturedProduct/subj @xsi:type	
	Value	11	Alphanumeric ¹⁴ e.g. "keep out of sunlight"	This is the value attribute for special storage condition.	
	XPATH:		I		
	/document/comp ectOf/characteris	onent/structure tic/code[@code	dBody/component/sect e="C101704"]//value/t	ion/subject/manufacturedProduct/subj ext()	
Business Rules	The <i>xsi:type</i> value must be "ST"				
	 Storage and 	handling specia	al conditions text is requ	uired when the code is "C101704"	
	The Special S	Storage Condit	ion Text value should b	e no more than 200 characters in	
	length and ca	an only contain	accepted special chara	acters. Refer to <u>Data types</u> and	
	'AusUDID_S	PLCodeList.xls	' file in the HL7 SPL Im	plementation package of files for a list	
	of accepted s	special characte	ers		
	 If special con 	ditions text is g	iven when code is not	'C101704', or is missing when code is	
	'C101704', o	r is invalid, or g	iven more than once, the	ne AusUDID submission will be	
	rejected as a	submission wi	th an invalid Storage ar	nd Handling.	

5.6.6.4.2 Special Storage Condition Text (characteristic.value)

5.6.7 Device Characteristics – Packaged as Sterile

The Packaged as Sterile indicator is to designate the medical device is free from viable microorganisms (see ISO/TS 11139). The following XML Snippet includes the elements and attributes required for devices packaged as sterile:

¹⁴ Refer to 'AusUDID_SPLCodeList.xls' file in the HL7 SPL Implementation package of files for a list of accepted special characters

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Code		11		This is the container element for the device packaged as sterile indicator.		
	Code	11	Alphanumeric C101676	This is the code to indicate the type of characteristic being identified for a device product, specifically the Packaged as sterile indicator.		
	XPATH: /document/comp ctOf/characteristi	onent/structure c/code[@code=	dBody/component/secti ="C101676"]	on/subject/manufacturedProduct/subje		
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1	This is the <i>codeSystem</i> that manages the controlled vocabulary.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101676"]/@codeSystem					
Business Rules	 The message value must b 	e must have a D e "C101676".	evice packaged as Ste	rile element and the <i>code</i> @code		

5.6.7.1 Device Packaged as Sterile Type (characteristic.code)

5.6.7.2 Device Packaged As Sterile Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Value		11		This is the container element for the value of Device Packaged as Sterile.			
	xsi:type	11	Boolean BL	The <i>xsi:type</i> specifies the data type for the Device Packaged as Sterile Indicator value.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101676"] <u>//value/@xsi:type</u>						
	Value	11	Alpha "true" or "false"	Value attribute for the Boolean operator.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje						
	ctOf/characteristi	c/code[@code=	"C101676"]//value/@	value			

Business Rules	•	The <i>xsi:type</i> value must be "BL"
	•	A characteristic with code 'C101676' is required
	•	Value must be true or false
	•	If characteristicValue is missing, invalid, or given more than once, the AusUDID submission
		will be rejected as a submission with an invalid Packaged as Sterile

5.6.8 Device Characteristics – Sterilisation Method

If the medical device should be sterilised prior to use, the sterilisation method should be provided for the medical device. The following XML Snippet includes the elements and attributes required for the sterilisation method:

<subjectof></subjectof>
<characteristic></characteristic>
<code code="C84382" codesystem="2.16.840.1.113883.3.26.1.1"></code>
<pre><value code="AU1009" codesystem="1.2.36.1.2001.1005.85" displayname="Beta Radiation</pre></td></tr><tr><td>Sterilization" xsi:type="CD"></value></pre>

5.6.8.1 Sterilisation Method Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Code		0*		This is the container element for the sterilisation method.		
	Code	11	Alphanumeric C84382	The <i>code</i> attribute indicates the sterilisation method for a device product.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C84382"]					
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1	This is the <i>codeSystem</i> that manages the controlled vocabulary.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C84382"]/@codeSystem					
Business Rules	 If the medical device requires sterilisation prior to use, the Sterilisation Method must be i the message and the <i>code@code</i> value must be "C84382" If the device does NOT require sterilisation prior to use, then this characteristic element does not need to be provided in the xml One or more methods can be provided 					

 If a valid sterilisation method is provided, the system will set 'Requires Sterilisation Prior to Use' to Yes
 If a valid sterilisation method is not provided, the system will set 'Requires Sterilisation Prior to Use' to No.

5.6.8.2 Sterilisation Method Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed	Description		
Value		11		This is the container element for the Sterilisation Method Value.		
	xsi:type	[11]	Alphanumeric CD	The xsi:type specifies the data type for the sterilisation method.		
	XPATH: /document/comp ctOf/characteristi	onent/structure c/code[@code=	dBody/component/secti "C84382"]//value/@x:	on/subject/manufacturedProduct/subje si:type		
	Code	[11]	Alphanumeric e.g. C101712	This is the <i>value</i> attribute for sterilisation method.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C84382"]//value/@code					
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1 or 1.2.36.1.2001.1005.85	This is the <i>codeSystem</i> that manages the controlled vocabulary.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C84382"]//value/@codeSystem					
Business Rules	 The xsi:type A sterilisation The sterilisat If characteris once, the Aux Sterilisation I 	value must be n method must h ion method mus ticValue is miss sUDID submiss Methods	"CD" be provided if code is 'C st be a valid value sing when code is 'C843 ion will be rejected as a	C84382' 382', is invalid, or given more than a submission with an invalid		

5.6.9 Device Characteristics – Device required to be labeled as containing natural rubber latex or dry natural rubber

This attribute is used to indicate that the device or packaging contains natural rubber that contacts humans. The following XML Snippet includes the elements and attributes required for this indicator:

5.6.9.1 Device required to be labeled as containing natural rubber latex or dry natural rubber Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
code		11		This is the container element for the 'Device required to be labeled as containing natural rubber latex or dry natural rubber' indicator.			
	code	11	Alphanumeric C101673	Code value to indicate if the 'Device required to be labeled as containing natural rubber latex or dry natural rubber'.			
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101673"]						
	codeSystem	11	OID	This is the <i>codeSystem</i> that manages			
			2.16.840.1.113883.	the controlled vocabulary.			
			3.26.1.1				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101673"]/@codeSystem						
Business Rules	 A characteris 	tic with code 'C	101673' is required.				

5.6.9.2 Device required to be labeled as containing natural rubber latex or dry natural rubber Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
value		11		This is the container element for the value of Device required to be labeled as containing natural rubber latex or dry natural rubber.		
	xsi:type	11	Boolean BL	The xsi:type specifies the data type for the Device required to be labeled as containing natural rubber latex or dry natural rubber indicator.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101673"]//value/@xsi:type					
	value	11	Alpha "true" or "false"	This is the value attribute for the Boolean operator.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101673"]//value/@value					
Business Rules	 The xsi:type Value must b If characteris latex and dev as a submiss 	value must be e true or false ticValue is miss vice does not co ion with an inva	"BL" ing, invalid, or given montain latex are true, the alid Device Label.	ore than once, or both device contains AusUDID submission will be rejected		

5.6.10 Device Characteristics – Device labeled as "Not made with natural rubber latex"

This attribute is used to indicate that natural rubber latex was not used as materials in the manufacture of the medical product and container. This attribute is only applicable to devices required to label regarding latex and rubber. The following XML Snippet includes the elements and attributes required for this indicator:

5.6.10.1	Device labeled as "Not made with natural rubber latex"	
(cha	aracteristic.code)	

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
code		01		Container element for the 'Device labeled as "Not made with natural rubber latex"' indicator.			
	code	11	Alphanumeric C106038	The <i>code</i> attribute to indicate the 'Device labeled as "Not made with natural rubber latex"' indicator.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C106038"]						
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1	This is the <i>codeSystem</i> that manages the controlled vocabulary.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C106038"]/@codeSystem						
Business Rules	 The element "Not made with natural rubber latex" is not required. If it is provided, the <i>code@code</i> value must be "C106038" If this data element does not apply to the UDI record, a characteristic data element does not need to be provided. If the data element value is not provided, the system will consider it "false" in the database. 						

5.6.10.2 Device labeled as "Not made with natural rubber latex" Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions	
value		11		Container element for the value of Device labeled as "Not made with natural rubber latex".	
	xsi:type	11	Boolean BL	The xsi:type specifies the data type for the Device labeled as "Not made with natural rubber latex" indicator.	
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/characteristic/code[@code="C106038"]//value/@xsi:type				
	value	11	Alpha "true" or "false"	This is the <i>value</i> attribute for the boolean operator.	

	XPATH:
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/characteristic/code[@code="C106038"]//value/@value
Business Rules	The <i>xsi:type</i> value must be "BL"
	If provided, value must be true or false
	 If characteristicValue is missing, invalid, or given more than once, or both device contains latex and device does not contain latex are true, the AusUDID submission will be rejected as a submission with an invalid Device Label

5.6.11 Device Characteristics – For Single Use

The Single Use indicator is to designate that the device is intended for one use only or for use on a single patient during a single procedure. The following XML Snippet includes the elements and attributes required for single use products:

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
code		11		This is the container element for the single use indicator.		
	code	11	Alphanumeric C53602	This is the <i>code</i> attribute to indicate the type of characteristic being identified for a device product, specifically the single use indicator.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C53602"]					
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1	This is the <i>codeSystem</i> that manages the controlled vocabulary.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C53602"]/@codeSystem					
Business Rules	 The Single-use element is required and the <i>code@code</i> value must be "C53602" A characteristic with code 'C53602' is required 					

5.6.11.1 For Single Use Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed	Description				
			Examples	Instructions				
Value		11		I his is the container element for the value of the single use indicator.				
	xsi:type	11	Alphanumeric	The xsi:type specifies the data type				
			CD	for the Single Use indicator.				
	XPATH:							
	/document/comp ctOf/characterist	onent/structure ic/code[@code=	dBody/component/sect ="C53602"]//value/@x	ion/subject/manufacturedProduct/subje si:type				
	Code	[11]	Alphanumeric	This is the code for the single use				
			C49488 - Yes	indicator.				
			C49487 - No					
			C48660 - N/A					
	XPATH:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C53602"]//value/@code							
	codeSystem	11	OID	This is the <i>codeSystem</i> that				
			2.16.840.1.113883.	manages the controlled vocabulary.				
			3.26.1.1					
	XPATH:							
	/document/comp ctOf/characterist	onent/structure ic/code[@code=	dBody/component/secti ="C53602"]//value/@c	ion/subject/manufacturedProduct/subje odesystem				
Business Bulos	• The <i>xsi:type</i>	e value must be	"CD"					
Rules	• The value m	ust be one of th	e allowed values:					
	• C49	488 – Yes (use	d if the device is for one	e use or for a single patient during a				
	sing	le procedure)						
	• C49	487 – No (used	if the device is not for a	one use or for a single patient during a				
	sing	single procedure and there is a maximum number of reuses)						
	• C48	 C48660 - N/A (used if the device is not for one use or for a single patient during a 						
	sina	le procure and t	here is no maximum nu	umber of reuses, this includes capital				
	equi	pment where th	e manufacturer does no	ot enforce restrictions on the number of				
	time	' s it can be reus	ed).					
	 If characteris 	ticValue is miss	, ing, invalid, or given mo	re than once, the AusUDID submission				
	will be reject	ed as a submis	sion with an invalid Sind	ale Use.				
				5 				

5.6.11.2 For Single Use Value (characteristic.value)

5.6.12 Device Characteristics – Kit

This attribute is used to indicate that the device is a convenience, combination, in vitro diagnostic (IVD), or medical procedure kit. Kits are a collection of products, including medical devices that are packaged together to achieve a common intended use and is being distributed as a medical device. The following XML Snippet includes the elements and attributes required:

```
<subjectOf>

<characteristic>

<code code="C50021" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="BL" value="false"/>

</characteristic>

</subjectOf>
```

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
code		01		This is the container element for the Kit indicator.			
	Code	11	Alphanumeric C50021	Code to indicate the type of characteristic being identified for a device product, specifically the kit indicator.			
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/characteristic/code[@code="C50021"]						
	codeSystem	11	OID	This is the <i>codeSystem</i> that			
			2.16.840.1.113883.	manages the controlled vocabulary.			
			3.26.1.1				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/characteristic/code[@code="C50021"]/@codeSystem						
Business Rules	 The Kit elen be "C50021 If this data end not need to consider it " 	nent is not require " element does not be provided. If th false" in the datal	ed. If the medical devic apply to the UDI record ne data element value i base.	e is a kit, the code@code value must d, a characteristic data element does is not provided, the system will			

5.6.12.1 Kit Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
value		11		This is the container element for the kit indicator value.		
	xsi:type	11	Boolean BL	The xsi:type specifies the data type for the kit indicator.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/characteristic/code[@code="C50021"]//value/@xsi:type					
	value	11	Alpha "true" or "false"	This is the value attribute for the Boolean operator.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/characteristic/code[@code="C50021"]//value/@value					
Business Rules	 The <i>xsi:type</i> value must be "BL" If provided, value must be true or false If characteristicValue is missing, invalid, or given more than once, the AusUDID submission will be rejected as a submission with an invalid Is Kit. 					

5.6.12.2 Kit Value (characteristic.value)

5.6.13 Device Characteristics – Production Identifier in UDI

In AusUDID, each production identifier attribute appears as a Boolean value to indicate if the production identifier attribute is included in the UDI:

- the lot or batch number within which a device was manufactured
- the serial number of a specific device
- the expiration date of a specific device
- the date a specific device was manufactured
- for an HCT/P regulated as a device, the donation identification number of a specific device.

5.6.13.1 Production Identifier - Lot or Batch Number

The following XML Snippet includes the elements and attributes required for products labeled with a lot or batch number:

```
<subjectOf>

<characteristic>

<code code="C101672" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="BL" value="false"/>

</characteristic>

</subjectOf>
```

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
code		11		This is the container element for the lot or batch number indicator.				
	code	11	Alphanumeric C101672	This is the code to indicate the type of characteristic being identified for a device product, specifically the lot or batch number indicator.				
	XPATH:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subjectOf/characteristic/code[@code="C101672"]							
	codeSystem	11	OID	This is the <i>codeSystem</i> that				
			2.16.840.1.113883.	manages the controlled vocabulary.				
			3.26.1.1					
	ХРАТН:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subj ectOf/characteristic/code[@code="C101672"]/@codeSystem							
Business Rules	The Lot or B	atch Number is	required and the <i>code</i>	@code value must be "C101672".				

5.6.13.1.1 Lot or Batch Number Type (characteristic.code)

5.6.13.1.2 Lot or Batch Number Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Value		11		This is the container element for the value of lot or batch number.		
	xsi:type	11	Boolean BL	The xsi:type specifies the data type for the lot or batch number indicator.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101672"]//value/@xsi:type					
	value	11	Alpha "true" or "false"	This is the value attribute for the Boolean operator.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101672"]//value/@value					
Business Rules	 The <i>xsi:type</i> value must be "BL" Value must be true or false If characteristicValue is missing, invalid, or given more than once, the AusUDID submission will be rejected as a submission with an invalid Production Information 					

5.6.13.2 Production Identifier – Serial Number

The following XML Snippet includes the elements and attributes required for products labeled with a serial number:

```
<subjectOf>
<characteristic>
<code code="C101671" codeSystem="2.16.840.1.113883.3.26.1.1"/>
<value xsi:type="BL" value="false"/>
</characteristic>
</subjectOf>
```

5.6.13.2.1 Serial Number Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions				
code		11		This is the container element for the serial number indicator.				
	code	11	Alphanumeric	This is the code to indicate the type of				
			C101671	device product, specifically the serial number.				
	(PATH:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101671"]							
	codeSystem	11	OID	This is the <i>codeSystem</i> that manages				
			2.16.840.1.113883.	the controlled vocabulary.				
			3.26.1.1					
	XPATH:							
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101671"]/@codeSystem							
Business Rules	The Serial N	umber element	is required and the <i>cod</i>	le@code value must be "C101671".				

5.6.13.2.2 Serial Number Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions	
value		11		This is the container element for the value of serial number.	
	xsi:type	11	Boolean BL	The xsi:type specifies the data type for the serial number indicator.	
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/sub ctOf/characteristic/code[@code="C101671"]//value/@xsi:type				
	value	11	Alpha "true" or "false"	This is the value attribute for the Boolean operator.	

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subj ctOf/characteristic/code[@code="C101671"]//value/@value					
Business Rules	 The <i>xsi:type</i> value must be "BL" Value must be true or false If characteristicValue is missing, invalid, or given more than once, the AusUDID submission will be rejected as a submission with an invalid Production Information. 					

5.6.13.3 Production Identifier - Manufacturing Date

The following XML Snippet includes the elements and attributes required for products labeled with manufacturing date:

```
<subjectOf>

<characteristic>

<code code="C101669" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="BL" value="false"/>

</characteristic>

</subjectOf>
```

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Code		11		This is the container element for the manufacture date indicator.			
	code	11	Alphanumeric C101669	This is the <i>code</i> to indicate the type of characteristic being identified for a device product, the manufacture date indicator.			
	XPATH: /document/compo ctOf/characteristi	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101669"]					
	codeSystem	11	OID 2.16.840.1.113883. 3.26.1.1	This is the <i>codeSystem</i> that manages the controlled vocabulary.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101669"]/@codeSystem						
Business Rules	The Manufac	turing Date is re	equired and the <i>code</i> @	code value must be "C101669".			

5.6.13.3.1 Manufacturing Date Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
Value		11		This is the container element for the value of the manufacturing date indicator.			
	xsi:type	11	Boolean e.g. BL	The xsi:type specifies the data type for the manufacturing date indicator.			
	XPATH:	•	·				
	/document/component/structuredBody/component/section/subject/manufacturedProduct/sub						
	value	11	Alpha	This is the value attribute for the Boolean operator.			
			"true" or "false"				
	XPATH:						
	/document/comp ctOf/characteristi	onent/structure c/code[@code=	dBody/component/sect ="C101669"]//value/@	ion/subject/manufacturedProduct/subje value			
Business Rules	• The xsi:type	value must be	"BL"				
i tuloo	 Value must b 	e true or false					
	 If characteris 	ticValue is missi	ing, invalid, or given mo	re than once, the AusUDID submission			
	will be reject	ed as a submiss	sion with an invalid Pro	duction Information.			

5.6.13.3.2 Manufacturing Date Value (characteristic.value)

5.6.13.4 Production Identifier – Expiration Date

The following XML Snippet includes the elements and attributes required for products labeled with an expiration date:

```
<subjectOf>

<characteristic>

<code code="C101670" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="BL" value="false"/>

</characteristic>

</subjectOf>
```

5.6.13.4.1 Expiration Date Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
Code		11		This is the container element for the expiration date indicator.
	code	11	Alphanumeric C101670	This is the code to indicate the type of characteristic being identified for a device product, specifically the expiration date indicator.

	XPATH:					
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C101670"]					
	codeSystem 11 OID This is the codeSystem that					
			2.16.840.1.113883.	the controlled vocabulary.		
			3.26.1.1			
	XPATH:					
	/document/com ctOf/characteris	ponent/structure tic/code[@code	edBody/component/sec ="C101670"]/@codeSy	tion/subject/manufacturedProduct/subje stem		
Business Rules	 The Expirat 	ion Date elemer	nt is required and the <i>c</i>	ode@code value must be "C101670".		

5.6.13.4.2 Expiration Date Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
value		11		This is the container element for the value of the expiration date indicator.			
	xsi:type	11	Boolean BL	The xsi:type specifies the data type for the manufacture date indicator.			
	XPATH:						
	/document/compo ctOf/characteristi	onent/structured c/code[@code=	dBody/component/secti :"C101670"]//value/@>	on/subject/manufacturedProduct/subje ‹si:type			
	value	11	Alpha	This is the value attribute for the Boolean operator.			
			"true" or "false"				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subjectOf/characteristic/code[@code="C101670"]//value/@value						
Business Rules	• The xsi:type	value must be	"BL".				
nuic5	 Value must b 	e true or false.					
	If characteristicValue is missing, invalid, or given more than once, the AusUDID submission						
	will be rejected as a submission with an invalid Production Information.						

5.6.13.5 Production Identifier – Donation Identification Number

The Donation Identification Number is applicable to devices that are also regulated as HCT/Ps and is a number that is assigned to each donation. It can be found on the device label or packaging. The following XML Snippet includes the elements and attributes required for products labeled with a donation identification number:

```
<subjectOf>

<characteristic>

<code code="C113843" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="BL" value="false"/>

</characteristic>

</subjectOf>
```

5.6.13.5.1 Donation Identification Number Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
code		11		This is the container element for the donation identification number indicator.			
	code	11	Alphanumeric C113843	This is the code to indicate the type of characteristic being identified for a device product, specifically the donation			
				identification number indicator.			
	/document/comport ctOf/characteristi	onent/structured c/code[@code=	dBody/component/secti ="C113843"]	on/subject/manufacturedProduct/subje			
	codeSystem	11	OID	This is the <i>codeSystem</i> that			
			2.16.840.1.113883.	manages the controlled vocabulary.			
			3.26.1.1				
	XPATH:						
	/document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C113843"]/@codeSystem						
Business Rules	 The Donation "C113843". 	Identification N	lumber is required and	the <i>code@code</i> value must be			

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions	
value		11		This is the container element for the value of donation identification number.	
	xsi:type	11	Boolean BL	The xsi:type specifies the data type for the donation identification number indicator.	
	XPATH: /document/compo ctOf/characteristi	onent/structurec c/code[@code=	dBody/component/secti "C113843"]//value/@;	on/subject/manufacturedProduct/subje xsi:type	
	value	11	Alpha "true" or "false"	This is the value attribute for the Boolean operator.	
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="C113843"]//value/@value				
Business Rules	 The xsi:type Value must b If characterist will be rejected 	value must be e true or false icValue is missi ed as a submiss	"BL" ng, invalid, or given mor sion with an invalid Proc	re than once, the AusUDID submission duction Information.	

5.6.13.5.2 Donation Identification Number Value (characteristic.value)

5.6.14 Device Characteristics – MRI Safety Status

This attribute is used to indicate the MR safety status of the device (see ASTM F2503-13 standard). The following XML Snippet includes the elements and attributes required for the MRI Safety Status question, "What MRI safety information does the labelling contain?":

5.6.14.1 MRI Safety Status Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions
code		11		This is the container element for the sterilisation method.
	code	11	Alphanumeric C106044	This is the code to indicate the MRI Safety Status of the medical device product.

	XPATH: /document/comp ctOf/characterist	onent/structure ic/code[@code	edBody/component/secti ="C106044"]	ion/subject/manufacturedProduct/subje
	codeSystem	11	OID 2.16.840.1.113883.	This is the <i>codeSystem</i> that manages the controlled vocabulary.
			3.26.1.1	
	XPATH: /document/comp ctOf/characterist	oonent/structure ic/code[@code	edBody/component/secti ="C106044"]/@codeSys	ion/subject/manufacturedProduct/subje stem
Business Rules	 A response to UDI records 	to, "What MRI s and the code @	afety information does t @code value must be "C	he labeling contain?" is required for all 106044".

5.6.14.2 MRI Safety Status Value (characteristic.value)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
value		11		This is the container element for the MRI Safety Status.			
	xsi:type	[11]	Alphanumeric CD	The xsi:type specifies the data type for the MRI Safety Status.			
	XPATH:						
	/document/comp ectOf/characteri	oonent/structure stic/code[@code	dBody/component/sect e="C106044"]//value/	ion/subject/manufacturedProduct/subj @xsi:type			
	code	[11]	Alphanumeric	This is the value attribute for the			
			C113844 - Labeling does not contain MRI Safety Information	coded value.			
			C106046 - MR Conditional				
			C106045 - MR Safe				
			C106047 - MR Unsafe				
	XPATH:						
	/document/comp ectOf/characteri	oonent/structure stic/code[@code	dBody/component/sect e="C106044"]//value/	ion/subject/manufacturedProduct/subj @code			
	codeSystem	11	OID	This is the <i>codeSystem</i> that			
			2.16.840.1.113883.	manages the controlled vocabulary.			
			3.26.1.1				
	XPATH:	1	1				
	/document/comp ectOf/characteri	oonent/structure stic/code[@code	dBody/component/sect e="C106044"]//value/	ion/subject/manufacturedProduct/subj @codesystem			

Element	Attri	bute	Cardinality	Value(s) Allowed Examples	Description Instructions
Business Rules	• The	xsi:type	value must be	"CD"	
	 The 	value m	ust be one of th	e allowed values:	
		o C11	3844 - Labeling	does not contain MRI S	Safety Information
		o C10	6046 - MR Cond	ditional	
		o C10	6045 - MR Safe		
		o C10	6047 - MR Unsa	afe	
	 If ch 	aracteris	ticValue is missi	ing, invalid, or given mo	re than once, the AusUDID
	subr	nission v	vill be rejected a	as a submission with ar	n invalid MRI Safety

5.6.15 Device Characteristics – Software

This attribute is used to indicate if the device is Software as a medical device, or is a medical device incorporating software.

Value(s) Allowed Element Attribute Cardinality Description **Examples** Instructions 1..1 code This is the container element for is the device software or it incorporates software. Code 1..1 Alphanumeric This is the code to indicate the device is software or it incorporates software. AU1007 XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="AU1007"] codeSystem 1..1 OID This is the *codeSystem* that manages the controlled vocabulary. 1.2.36.1.2001.1005.85 XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="AU1007"]/@codeSystem **Business** A response to, "Is the device software or incorporates software?" is required for all UDI **Rules** records and the code@code value must be "AU1007".

5.6.15.1 Software Type (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions			
value		11		This is the container element for is the device software or it incorporates software.			
	xsi:type	[11]	Alphanumeric CD	The xsi:type specifies the data type for Software value.			
	XPATH: /document/comp ctOf/characteristi	onent/structured c/code[@code=	dBody/component/secti "AU1007"]//value/@xs	on/subject/manufacturedProduct/subje si:type			
	Code	[11]	Alphanumeric AU1017 - Software as a medical device	This is the value attribute for the coded value.			
			AU1018 - Incorporates Software				
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="AU1007"]//value/@code						
	codeSystem	11	OID 1.2.36.1.2001.1005.85	This is the <i>codeSystem</i> that manages the controlled vocabulary.			
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="AU1017"]//value/@codesystem						
Business Rules	 The xsi:type The value model 	value must be ust be one of the	"CD" e allowed values:				
	 AU1017 - Software as a medical device AU1018 - Incorporates Software AU1019 - No 						
	 If characteristicValue is missing, invalid, or given more than once, the AusUDID submission will be rejected as a submission with an invalid Software. 						

5.6.15.2 Software Value (characteristic.value)

5.6.16 Device Characteristics – Restricted Number of reuses

This element records the number of reuses if the number of reuses is restricted. The following XML Snippet includes the element that indicates the restricted number of reuses:

```
<subjectOf>

<characteristic>

<code code="AU1004" codeSystem="1.2.36.1.2001.1005.85"/>

<value xsi:type="INT" value="5"/>

</characteristic>

</subjectOf>
```

5.6.16.1 Restricted number of reuses (characteristic.code)

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
Code		01		The code element is the container element for Restricted number of reuses.		
	code	11	Alphanumeric AU1004	The <i>code</i> for restricted number of reuses.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subj ctOf/characteristic/code[@code="AU1004"]					
	codeSystem	11	OID 1.2.36.1.2001.1005.85	This is the <i>codeSystem</i> that manages the controlled vocabulary.		
	XPATH: /document/component/structuredBody/component/section/subject/manufacturedProduct/subje ctOf/characteristic/code[@code="AU1004"]/@codeSystem					
Business Rules	 If 'For Single code@code If this data el not need to b 	Use' is 'No', re value must be ' ement does not e provided.	stricted number of reuse 'AU1004" apply to the UDI record	es must be provided and the		

Element	Attribute	Cardinality	Value(s) Allowed Examples	Description Instructions		
value		11		This is the container element for the restricted number of reuses.		
	xsi:type	11	Integer INT	The xsi:type indicates the data type for the element.		
	XPATH:					
	/document/componen ctOf/characteristic/coc	t/structuredBo de[@code="AL	dy/component/section J1004"]//value/@xsi:t	/subject/manufacturedProduct/subje ype		
	Value	11	Number e.g. 5	This is the <i>value</i> attribute for the Integer operator.		
	XPATH:					
	/document/componen ctOf/characteristic/coc	t/structuredBoo de[@code="AL	dy/component/section J1004"]//value/@valu	/subject/manufacturedProduct/subje ie		
Business Rules	The value must be	e an integer				
	Value is required	if code 'AU100	4' is provided			
	• If provided, value	must be an int	eger			
	 If characteristicVal 	lue is missing,	invalid, or given more	than once, the AusUDID submission		
	will be rejected as	a submission	with an invalid Restric	cted Number of Reuses		

5.6.16.2 Restricted number of reuses (characteristic.value)

6 Common DI Validation

Business Rules	•	A device identifier with GS1 as Issuing Agency shall be 14 digits in length; DIs with fewer digits should be appended with leading zeros
	•	A device identifier with GS1 Issuing Agency shall be a numeric only value
	•	A device identifier with GS1 Issuing Agency will have a valid check digit as per GS1
		guidelines
	•	A device identifier with ICCBBA Issuing Agency shall be 16 digits in length
	•	A device identifier with ICCBBA Issuing Agency shall be an alphanumeric value
	•	A device identifier with HIBCC Issuing Agency shall be 6-23 digits in length, first character
		alphabetic and last character numeric, and cannot include special characters
	•	A device identifier with HIBCC Issuing Agency shall be an alphanumeric value.

7 XML Message Sample

<?xml version="1.0" encoding="UTF-8"?>

<!--Note: This AusUDID SPL XML Sample is not meant to be valid against the business rules for a AusUDID submission. This is a comprehensive example of all the potential elements that can be submitted to the AusUDID. Do not attempt to submit this sample as a test submission.--> <document xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation=AU"urn:hl7-org:v3 GUDIDSPL.xsd">

<!--The document element is administrative information. (all elements are required)-->

<!--id@root is a globally unique identifier for the submission and should be created by the sending system. The sender should be following the algorithm rules set for in OSF's Universally Unique Identifier standards.-->

<!--code@code for the submission type (AusUDID Submission = C101716)-->

<!--code@code for the submission type (AusUDID Correction = AU1002) -->

<!--effectiveTime@value for the DI Record Publish Date; all dates should be formatted as yyyymmdd -->

<!--setId@root is a globally unique identifier for the document that will be used to link subsequent versions of the DI Record with previous versions. Note this is also a UUID, and must follow the rules for generating a globally unique identifier value.-->

<!--versionNumber@value is "1" for the initial submission and increments by one for any updates to the DI Record-->

<id root="57863671-1527-4e51-b26b-3065a868d949"/>

<!--Document Type code is "C101716" for the initial submission and any variations to the DI Record-->

<code code="C101716" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<!--Document Type code is "AU1002" for any Correction to the DI Record-->

<code code="AU1002" codeSystem="1.2.36.1.2001.1005.85">

<!--Translation code is for codified reasons for correction-->

<translation code="AU1031" displayName="Data entry error"/>

<!--Translation original free text is for free text reason for correction-->

<translation>

<originalText>Free-text reason for correction</originalText>

</translation>

</code>

<effectiveTime xsi:type="TS" value="20131118"/>

<setId root="57863671-1527-4e51-b26b-3065a868d948"/>

<versionNumber value="1"/>

<!--The author element provides administrative information about who is submitting the DI Record. One author is required-->

<!--provide the TGA organisation number for the Submitter Organization. This information will be used for validation activities only-->

<!--code@code is the coded value for either the Manufacturer Organization (C101684), Sponsor (AU1000), Agent (AU1001), or Third-Party (C101710)-->

<!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->

<!--code@codeSystem, 1.2.36.1.2001.1005.85 is the OID for TGA-->

<!--id.root= TGA ID; OID is for the TGA Identifier system-->

<!--id.extension = TGA ID for the Manufacturer, Sponsor, Agent or the Third Party submitting the HL7 SPL-->

<!--Note the system will pull the data from TGA Stakeholder Management and ARTG System to display the company name and physical address.-->

<!--Only one value is expected for the author. The sender should indicate the correct value for who is submitting the XML to the TGA.-->

```
<author>
```

<!--Organization submitting the SPL XML (one and only one required)-->

<assignedEntity>

<representedOrganization>

<!--If the submitter-organization is the Manufacturer organization, the code=C101684--> <assignedEntity1>

<code code="C101684" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<representedOrganization>

<id root="1.2.36.1.2001.1005.84" extension="12345"/>

```
</representedOrganization>
```

</assignedEntity1>

</representedOrganization>

```
</assignedEntity>
```

</author>

<component>

<structuredBody>

<component>

<section> <id/>

<1u/ >

<code/>

<effectiveTime/>

<!--This subject element contains all of the AusUDID DI Record information.-->

<subject>

<!--classCode=MANU for the AusUDID Submission, without this value, the XML may

fail validation-->

<manufacturedProduct classCode="MANU">

<manufacturedProduct>

<!--Primary Device Identifier (required)-->

 $\ensuremath{<\!!}\ensuremath{-\!\!\operatorname{code}}\xspace$ code is the location of the Primary Device Identifier (DI), base package

DI#10010010010011-->

<!-- code@codeSystem is the device-issuing-agency associated with the Primary
DI number (below the OID for GS1 is shown)-->

<code code="10010010010011" codeSystem="1.3.160"/>

<!--The Trade Name/Brand name (required) -->

<!--The element is the free-text field for the Brand/Proprietary/Trade Name of the

medical device-->

<name>Trade Name/Brand Name</name>

<!--The Additional Product Description (optional)-->

<!--The desc element is the free-text description-->

<desc>add device description here</desc>

<!--The Device Model Number (At least one of Device Model or Catalogue

Number is required)-->

<asIdentifiedEntity>

	id@root is a globally unique identifier assigned by the company for the</th	
model number>		
	id@extension is the company issued Device Model Number	
C00286 for Cotologue	code@code, C99285 is the code to indicate the type of Device Model, and<br Number	
C99286 for Catalogue	NUMBER>	
	code@codeSystem, 2.16.840.1.113883.3.26.1.1 Is the OID for NUIT	
4000"/	<id 1-<="" 1001="12345078-1234-1234-1234-123450789012" extension="model" td=""></id>	
1000 />	vende sede "COO205" sede Custere "2.40.040.1.442002.2.20.1.4"/	
</td <td><pre><code code="C99285" codesystem="2.16.840.1.113883.3.26.1.1"></code> /asIdentifiedEntity></pre></td>	<pre><code code="C99285" codesystem="2.16.840.1.113883.3.26.1.1"></code> /asIdentifiedEntity></pre>	
</td <td>The Catalogue number for the device (At least one of Device Model or</td>	The Catalogue number for the device (At least one of Device Model or	
Catalogue Number is	required)>	
<:	asIdentifiedEntity>	
	id@root is a globally unique identifier assigned by the company for the</td	
catalogue number>		
	id@extension is the company issued for the Catalogue Number	
	code@code, C99285 is the code to indicate the type of Device Model, and</td	
C99286 for Catalogue	Number>	
	code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt	
	<id extension="Catalog-</td></tr><tr><td>1000" root="12345678-1234-1234-1234-123456789013"></id>	
	<code code="C99286" codesystem="2.16.840.1.113883.3.26.1.1"></code>	
</td <td>/asIdentifiedEntity></td>	/asIdentifiedEntity>	
<	ARTG ID. This is the approval to supply the device in Australia. This can be	
repeated for each AR	TG>	
<:	asIdentifiedEntity>	
	id@root,1.2.36.1.2001.1005.83	
	id@extension is the device ARTG ID	
	code@code, AU1016 is the code to indicate the ARTG ID	
	code@codeSystem, 1.2.36.1.2001.1005.85 is the OID for Australian Code</td	
System>		
	<id extension="413471" root="1.2.36.1.2001.1005.83"></id>	
	<code code="AU1016" codesystem="1.2.36.1.2001.1005.85"></code>	
	< The Sponsor Id. This is the TGA Organisation Number for the Sponsor	
for this ARTG approva	al>	
	id@root,1.2.36.1.2001.1005.84 is the OID for Australian TGA IDs	
	id@extension=AU TGA number for the Sponsoring Organization	
	<assigningorganization></assigningorganization>	
	<id extension="12345" root="1.2.36.1.2001.1005.84"></id>	
	Supporting Documents. This is the URL for any required supporting</td	
documents provided b	by this Sponsor for the device supplied under the ARTG. This can be repeated	
tor each Supporting D	ocument>	
	<subjectut></subjectut>	
	<document></document>	
	Document URL. This is the URL for the supporting document	
	id@extension is the URL	

```
<id
extension="http://example.org/documents/123456789/product_leaflet.html"/>
                          <!--Document Type-->
                          <!--code@code, the specific type of document information being sent -->
                          <!--code@codeSystem, 1.2.36.1.2001.1005.85 is the OID for Australian
Code System-->
                          <code code="AU1008" codeSystem="1.2.36.1.2001.1005.85"
displayName="Patient Information Leaflet"/>
                          <!-- Document Start and End Date-->
                          <effectiveTime>
                             <low value="20010914"/>
                             <high value="20200914"/>
                          </effectiveTime>
                        </document>
                     </subjectOf>
                     <!--/Supporting Documents-->
                   </asldentifiedEntity>
                   <!--/ARTG ID-->
                   <!-- C -->
                   <asSpecializedKind>
                     <generalizedMaterialKind>
                        <!--code@code is the Device Class code (Optional) -->
                        <!--codeSystem, 1.2.36.1.2001.1005.85, is the OID for Aus Code System -->
                        <code code="AU1020" codeSystem="1.2.36.1.2001.1005.85"/>
                     </generalizedMaterialKind>
                   </asSpecializedKind>
                   <!--The GMDN Preferred Term (Optional)-->
                   <asSpecializedKind>
                     <generalizedMaterialKind>
                        <!--code@code is the 5-digit GMDN Preferred Term code (99999 is a
placeholder)-->
                        <!--code@codeSystem, 2.16.840.1.113883.6.276, is the OID for GMDN
Agency-->
                        <!--The AusUDID system will resolve the Preferred Term name and
definition based on the code provided.-->
                        <code code="99999" codeSystem="2.16.840.1.113883.6.276"/>
                     </generalizedMaterialKind>
                   </asSpecializedKind>
                   <!--Secondary Device Identifier (optional) -->
                   <asEquivalentEntity>
                     <!--code@code, C101724 is the code for Secondary Device Identifier)-->
                     <!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->
                     <code code="C101724" codeSystem="2.16.840.1.113883.3.26.1.1"/>
                     <!--definingMaterialKind is the element used to provide the Secondary Device
Identifier-->
                     <!--code@code is the Secondary Device Identifier value-->
```

<!--code@codeSystem, 2.16.840.1.113883.6.40 is the OID for HIBCC. The code system must not be the same issuing agency as the one for the Primary Device Identifier - i.e., it needs to be one of the other two options available for the Secondary Device Identifier.--> <definingMaterialKind> <code code="H123456789" codeSystem="2.16.840.1.113883.6.40"/> </definingMaterialKind> </asEquivalentEntity> <!--Unit of Use Device Identifier (optional) --> <asEquivalentEntity> <!--The Unit of Use Device Identifier is provided with the asEquivalentEntity element.--> <!--code@code, C101717 is the code for a Unit of Use Device Identifier)--> <!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt--> <code code="C101717" codeSystem="2.16.840.1.113883.3.26.1.1"/> <!--definingMaterialKind indicates the Unit of Use Device Identifier--> <!--code@code is the Unit of Use Device Identifier Number--> <!--code@codeSystem 1.3.160, is the OID for GS1. Note that this codeSystem needs to be the same codeSystem as provided for the Primary Device Identifier, otherwise it will not pass validation.)--> <definingMaterialKind> <code code="123456794830384" codeSystem="1.3.160"/> </definingMaterialKind> </asEquivalentEntity> <!--Direct Marking Device Identifier (optional) --> <asEquivalentEntity> <!--The Direct Marking Device Identifier is provided with the asEquivalentEntity element.--> <!--code@code, C101678 is the code for a Direct Marking Device Identifier)--> <!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt--> <code code="C101678" codeSystem="2.16.840.1.113883.3.26.1.1"/> <!--definingMaterialKind indicates the Direct Marking Device Identifier--> <!--code@code is the Direct Marking Device Identifier Number--> <!--code@codeSystem 1.3.160, is the OID for GS1. Note that this codeSystem needs to be the same codeSystem as provided for the Primary Device Identifier, otherwise it will not pass validation.)--> <definingMaterialKind> <code code="123456794" codeSystem="1.3.160"/> </definingMaterialKind> </asEquivalentEntity> <!--Previous Device Identifier (optional) --> <asEquivalentEntity> <!--The Previous Device Identifier is provided with the asEquivalentEntity element.--> <!--code@code, C125195 is the code for a Previous Device Identifier)--> <!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt--> <code code="C125195" codeSystem="2.16.840.1.113883.3.26.1.1"/> <!--definingMaterialKind indicates the Previous Device Identifier--> <!--code@code is the Previous Device Identifier Number-->
```
<!--code@codeSystem 1.3.160, is the OID for GS1.-->
                     <definingMaterialKind>
                        <code code="12345678901234" codeSystem="1.3.160"/>
                     </definingMaterialKind>
                   </asEquivalentEntity>
                   <!--Package Hierarchy #1, Configuration #1: DI#201, Quantity in Package=4,
Package type=carton, Package Discontinue Date=9/1/2014, Contains base package
DI#10010010010011-->
                   <asContent>
                     <quantity>
                        <numerator value="100"/>
                        <denominator/>
                     </quantity>
                     <containerPackagedProduct>
                     <!--code@code is the device identifier value DI#= 201-->
                     <!--code@codeSystem is the OID for the issuing agency for the device
identifier, GS1 (1.3.160)-->
                     <!--name is the package type, "carton"-->
                     <!--capacityQuantity@value is the quantity per package, 4-->
                       <code code="201" codeSystem="1.3.160"/>
                        <name>carton</name>
                       <capacityQuantity value="4"/>
                       <asManufacturedProduct>
                          <subjectOf>
                             <marketingAct>
                               <!--effectiveTime.high@value is the Sponsor Package Commercial
Distribution End Date, 20140901-->
                               <effectiveTime>
                                 <low/>
                                 <high value="20140901"/>
                               </effectiveTime>
                            </marketingAct>
                          </subjectOf>
                       </asManufacturedProduct>
                       <!--Package hierarchy #1, Configuration #2: DI#301, Quantity in Package=5,
Package type=case, Package Distribution End Date =9/1/2014, Contains DI#-201-->
                       <asContent>
                          <containerPackagedProduct>
                          <!--code@code is the device identifier value DI#= 301-->
                          <!--code@codeSystem is the OID for the issuing agency for the device
identifier, GS1 (1.3.160)-->
                          <!--name is the package type, "case"-->
                          <!--capacityQuantity@value is the quantity per package, 5-->
                             <code code="301" codeSystem="1.3.160"/>
                            <name>case</name>
                            <capacityQuantity value="5"/>
                             <asManufacturedProduct>
                               <subjectOf>
```

<marketingAct>

<!--effectiveTime.high@value is the Sponsor Package

Commercial Distribution End Date, 20140901-->

<effectiveTime>

<low/>

<high value="20140901"/>

</effectiveTime>

</marketingAct>

</subjectOf>

</asManufacturedProduct>

</containerPackagedProduct>

</asContent>

</containerPackagedProduct>

```
</asContent>
```

<!--Package Hierarchy #2, Configuration #3: DI#401, Quantity in Package=4, Package type=carton, Package Distribution End Date=9/1/2014, Contains base package

DI#10010010010011-->

<asContent>

<quantity>

<numerator value="100"/>

<denominator/>

</quantity>

<!--code@code is the device identifier value DI#= 401-->

<!--code@codeSystem is the OID for the issuing agency for the device

identifier, GS1 (1.3.160)-->

<!--name is the package type, "carton"-->

<!--capacityQuantity@value is the quantity per package, 4-->

<containerPackagedProduct>

<code code="401" codeSystem="1.3.160"/>

<name>carton</name>

<capacityQuantity value="4"/>

<asManufacturedProduct>

<subjectOf>

<marketingAct>

<!--effectiveTime.high@value is the Sponsor Package Commercial

Distribution End Date, 20140901-->

<effectiveTime>

<low/>

<high value="20140901"/>

</effectiveTime>

</marketingAct>

</subjectOf>

</asManufacturedProduct>

<asContent>

<!--Package hierarchy #2, Configuration #4: DI#501, Quantity in

Package=5, Package type=case, Package Distribution End Date=9/1/2014, Contains DI#-401-->

<!--code@code is the device identifier value DI#= 501-->

<!--code@codeSystem is the OID for the issuing agency for the device

identifier, GS1 (1.3.160)-->

```
<!--name is the package type, "case"-->
```

```
<!--capacityQuantity@value is the quantity per package, 5-->
```

```
<containerPackagedProduct>
```

<code code="501" codeSystem="1.3.160"/>

<name>case</name>

<capacityQuantity value="5"/>

<asManufacturedProduct>

<subjectOf>

<marketingAct>

<!--effectiveTime.high@value is the Sponsor Package

Commercial Distribution End Date, 20140901-->

<effectiveTime>

<low/>

<high value="20140901"/>

```
</effectiveTime>
```

</marketingAct>

</subjectOf>

</asManufacturedProduct>

</containerPackagedProduct>

</asContent>

</containerPackagedProduct>

</asContent>

</manufacturedProduct>

<!--id@root, 1.2.36.1.2001.1005.84 is the OID for Australian TGA IDs-->

<!--id@extension=AU TGA number for the Manufacturer Organization--> <manufacturerOrganization>

```
<id root="1.2.36.1.2001.1005.84" extension="12345"/>
```

<!-- Manufacturer Name must be the same as what is recorded in TBS --> <name>Manufacturer Name</name>

</manufacturerOrganization>

<!--Production Identifier on Label - Serial Number (required)-->

<!--code@code, C101671 is the code for Controlled by Serial number-->

```
<!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->
```

```
<!--value@xsi:type is required to indicate the characteristic has a Boolean data type-
```

->

```
<!--value@value is True or False -->
```

<subjectOf>

<characteristic>

<code code="C101671" codeSystem="2.16.840.1.113883.3.26.1.1"/>

<value xsi:type="BL" value="false"/>

```
</characteristic>
```

</subjectOf>

<subjectOf>

```
<!--Production Identifier on Label - Lot or Batch Number (required)-->
```

- <!--code@code, C101672 is the code for Controlled by Lot Number-->
- <!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->

	value@xsi:type is required to indicate the characteristic has a Boolean data</p
type>	
	value@value is True or False
	<characteristic></characteristic>
	<code code="C101672" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value value="false" xsi:type="BL"></value>
	<subject of=""></subject>
	Subjector
	roduction identifier on Laber - Expiration Date (required)
	cl. code@codeSuctom_2_16_940_1_112992_2_2_26_1_1 in the OID for NCIt_>
	code@codeSystem, 2.10.040.1.115005.5.20.1.115 the OID for NCIt
1	value@xsittype is required to indicate the characteristic has a Boolean data</p
type>	
	value@value is True or False
	<characteristic></characteristic>
	<code code="C101670" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value value="false" xsi:type="BL"></value>
	<subjectof></subjectof>
	Production Identifier on Label - Manufacturing Date (required)>
	code@code, C101669 is the code for Controlled by Manufacturing Date
	code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	value@xsi:type is required to indicate the characteristic has a Boolean data</td
type>	
	value@value is True or False
	<characteristic></characteristic>
	<code code="C101669" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value value="false" xsi:type="BL"></value>
	<subjectof></subjectof>
	Production Identifier on Label - Donation Identification Number (required)>
	</td
	$<$ code \otimes code \otimes code \otimes stem 2 16 840 1 113883 3 26 1 1 is the OID for NCIt>
t/00	
type>	d velve @velve is True or Felee
	value@value is True or False
	<code code="C113843" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value value="talse" xsi:type="BL"></value>
	<subjectof></subjectof>
	-!Clinically Relevant Size is a characteristic that can either be sent with a CV or
as free text>	
	<characteristic></characteristic>

	<high unit="Cel" value="10"></high>
	<low unit="Cel" value="0"></low>
	<value xsi:type="IVL_PQ"></value>
	<code code="C101707" codesystem="2.16.840.1.113883.3.26.1.1"></code>
<	characteristic>
<	:!value.high@unit is the unit of measurement>
(note- same value will	I be entered in low@value)>
range, provide when t	the value is greater than this value or if the value is exactly this temperature
<	:!value.high@value is the measurement value; provide when temperature has a
<	:!value.low@unit is the unit of measurement>
same value will be en	ntered in high@value)>
range, provide when t	the value is less than this value or if the value is exactly this temperature (note-
<	-value.low@value is the measurement value; provide when temperature has a
Quantity Interval data	i type>
<	:value@xsi:type is required to indicate the characteristic has a Physical
<	:coae@coaeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt>
controlled vocabulary.	Additional storage and handling conditions may be added in the future>
storage-handling-cond	attions are available. For testing, only select values are available in the
<	::code@code, C101707 is the code for Storage Environment Temperature;
<	:Storage and Handling Requirements (Provide as many as necessary)>
<sul< td=""><td></td></sul<>	
<td></td>	
</td <td>/unarauensuu></td>	/unarauensuu>
	<pre><value voitune="0100041" voue0ystem="2.10.040.1.110003.3.20.1.1"></value></pre>
<	\sim code code="C106041" codeSystem="2.16.240.1.112222.2.26.1.1"/s
	characteristic
<	value element should include the nee-text between the value tags, as shown -
()he>	
type>	. value exaltype is required to indicate the characteristic has a offing data
-	
-	
>	
size. For testing this	should be used when size-types are not available in the controlled vocabulary
<	:code@code. C106041 is the code for providing a free-text clinically-relevant-
<	:!Clinically Relevant Size - free text>
<900	biectOf>
<td>ubjectOf></td>	ubjectOf>
<	/characteristic>
	<value unit="m" value="3" xsi:type="PQ"></value>
	<pre><code code="C96684" codesystem="2.16.840.1.113883.3.26.1.1"></code></pre>
	value@unit is the unit of measurement
Same and type >	value@value is the measurement value
Quantity data type>	
	value@xsi:type is required to indicate the characteristic has a Physical
	-code@codeSystem, 2,16,840,1,113883.3.26.1.1 is the OID for NCIt>
in the controlled vocal	bulary. Additional size types may be added in the future>
size-type are available	e for several known size measures. For testing, only select values are available
	code@code, C96684 is the code for longest diameter; clinically-relevant-</p

	<subjectof></subjectof>
	Special Storage Condition Text (provide as many as necessary)>
	code@code, C101704 is the code for providing a free-text special-storage-</p
condition. For t	esting, this element should be used when storage-requirements are not available in
the controlled v	ocabularv>
	code@codeSvstem. 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	value@xsi:type is required to indicate the characteristic has a String data</td
tvpe>	
51	-value element should include the free-text between the value tags, as shown -
->	
	<characteristic></characteristic>
	<code code="C101704" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value xsi:type="ST1">keep out of sunlight</value>
	<subjectof></subjectof>
	Sterilization - Is the product packaged as sterile? (required)
	code@code. C101676 is the code for Packaged as Sterile
	code@codeSystem. 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	value@xsi:type is required to indicate the characteristic has a Boolean data</td
tvpe>	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	value@value is True or False
	<characteristic></characteristic>
	<code code="C101676" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value value="true" xsi:type="BL"></value>
	Sterilization Method - Requires sterilization prior to use
	If sterilization method code (e.g., C101712- Dry Heat) is provided and matches</td
the sterilization	values - the question - requires sterilization prior to use will be marked "True">
	If this element is not present, requires sterilization prior to use will be marked</td
"False",>	
	code@code. C84382 indicates the package needs to be sterilized prior to use
	code@codeSvstem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	<subjectof></subjectof>
	<characteristic></characteristic>
	<code code="C84382" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	value@xsi:type is required to indicate the characteristic has a Coded data</td
tvpe>	
.)	value@code. C101676 is the code for Sterilization Method. sterilization-</td
method values	are available as per the regulations. Below the sample has C101712- Dry Heat as an
example>	
	value@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	<value <="" code="AU1009" codesystem="1.2.36.1.2001.1005.85" td="" xsi:type="CD"></value>
displayName="l	Beta Radiation Sterilization"/>
· · · · · · · · · · · · · · · · · · ·	

	<subjectof></subjectof>
	Labeled as Containing Natural Rubber Latex (required)
	code@code, C101673 is the code for Labeled as Containing Natural Rubber</p
Latex>	
	code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt value@xsi:type is required to indicate the characteristic has a Boolean data</td
type>	
	value@value is True or False
	<characteristic></characteristic>
	<code code="C101673" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value value="true" xsi:type="BL"></value>
	<subjectof></subjectof>
	Not Made with Natural Rubber Latex
	code@code, C106038 is the code for
	code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	value@xsi:type is required to indicate the characteristic has a Boolean data</p
type>	
	value@value is True or False
	<characteristic></characteristic>
	<code code="C106038" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value value="true" xsi:type="BL"></value>
	<subjectof></subjectof>
	Single Use (required)
	code@code, C53602 is the code for Single Use
	code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	value@xsi:type is required to indicate the characteristic has a Coded data</td
type>	
	value@code is the coded answer Yes - C49488, No - C49487, N/A - C48660</p
>	
	value@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	<characteristic></characteristic>
	<code code="C53602" codesystem="2.16.840.1.113883.3.26.1.1"></code>
	<value <="" code="C49487" td="" xsi:type="CD"></value>
codeSystem="2.	16.840.1.113883.3.26.1.1"/>
	<subjectof></subjectof>
	MRI Safety Status (required)
	code@code, C106044 is the code for MRI Safety
	code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt
	value@xsi:type is required to indicate the characteristic has a Coded data</p
 A set of the set of	

type-->

```
<!--value@code is the coded answer -->
                      <!--C113844 Labeling does not contain MRI Safety Information -->
                      <!--C106046 MR Conditional -->
                      <!--C106045 MR Safe -->
                      <!--C106047 MR Unsafe -->
                   <!--value@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->
                   <characteristic>
                      <code code="C106044" codeSystem="2.16.840.1.113883.3.26.1.1"/>
                      <value xsi:type="CD" code="C106046"
codeSystem="2.16.840.1.113883.3.26.1.1"/>
                   </characteristic>
                 </subjectOf>
                 <!--Kit-->
                 <!--code@code, C50021 is the code for Kits-->
                 <!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->
                 <!--value@xsi:type is required to indicate the characteristic has a Boolean data type-
->
                 <!--value@value is True or False -->
                 <subjectOf>
                   <characteristic>
                      <code code="C50021" codeSystem="2.16.840.1.113883.3.26.1.1"/>
                      <value xsi:type="BL" value="false"/>
                   </characteristic>
                 </subjectOf>
                 <!--DM Exempt-->
                 <!--code@code, C101679 is the code for DM Exempt-->
                 <!--code@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->
                 <!--value@xsi:type is required to indicate the characteristic has a Boolean data type-
->
                 <!--value@value is True or False -->
                 <subjectOf>
                   <characteristic>
                      <code code="C101679" codeSystem="2.16.840.1.113883.3.26.1.1"/>
                      <value xsi:type="BL" value="false"/>
                   </characteristic>
                 </subjectOf>
                 <!--Device Software-->
                 <!--code@code, AU1007 is the code for Device Software-->
                 <!--code@codeSystem, 1.2.36.1.2001.1005.85 is the OID for Australian Code
System-->
                 <!--value@xsi:type is required to indicate the characteristic has a Coded data type--
>
                 <!--value@code is the coded answer-->
                 <!--value@codeSystem, 2.16.840.1.113883.3.26.1.1 is the OID for NCIt-->
                 <subjectOf>
                   <characteristic>
                      <code code="AU1007" codeSystem="1.2.36.1.2001.1005.85"/>
```

```
<value xsi:type="CD" code="AU1018" codeSystem="1.2.36.1.2001.1005.85"
displayName="Software as a medical device"/>
                   </characteristic>
                 </subjectOf>
                <!--Restricted Number of Reuses-->
                <!--code@code, AU1004 is the code for Restricted Number of Reuses-->
                 <!--code@codeSystem, 1.2.36.1.2001.1005.85 is the OID for Australian Code
System-->
                <!--value@xsi:type is required to indicate the characteristic has a Integer data type--
>
                <!--value@value is the integer and must be greater than 1 if present-->
                 <subjectOf>
                   <characteristic>
                      <code code="AU1004" codeSystem="1.2.36.1.2001.1005.85"/>
                      <value xsi:type="INT" value="5"/>
                   </characteristic>
                 </subjectOf>
              </manufacturedProduct>
            </subject>
         </section>
       </component>
     </structuredBody>
  </component>
</document>
```

Version history

Version	Description of change	Author	Effective date
V1.0	Original publication	Devices Reforms Taskforce	Month Year
V1.1	Revisions for multiple sponsor and other editorial changes	Devices Reforms Taskforce	March 2025

Therapeutic Goods Administration

PO Box 100 Woden ACT 2606 Australia Email: info@tga.gov.au Phone: 1800 020 653 Fax: 02 6203 1605 Web: tga.gov.au

Reference/Publication #