



Prosthesis XML Schema

Department of Health

Version 1.2

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# DOCUMENT CONTROL

## Document History

The following table contains a history of released versions.

|  |  |  |  |
| --- | --- | --- | --- |
| **Version number** | **Version date** | **Author/s** | **Summary of changes & comments** |
| 1.0 | 08/06/2018 | Department of Health | Initial Draft |
| 1.1 | 29/08/2018 | Department of Health | SubCategoryID made optional, changed data type of CreationDate, changed ARTGType minimum length |
| 1.2 | 07/02/2019 | Department of Health | BillingCode and Cycle End Date made mandatory, corrected some element names, and updated descriptions for Minimum Benefit, Maximum Benefit, Human Tissue Amount, Action Flags and Cycle End Date |

## Document Review

This document has been reviewed by:

| **Version number** | **Review Date** | **Name** | **Project Role** |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

## Related Documents

The following documents should be read in conjunction with this document:

| **Version number** | **Name** | **Owner** | **Relevance** | **Trim Ref.** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |

## Glossary of Terms

| **Term** | **Description** |
| --- | --- |
|  |  |
|  |  |

## Intended Audience for this document:

|  |  |
| --- | --- |
| **Audience (project role)** | **Purpose** |
|  |  |
|  |  |

## Stakeholders

|  |  |  |
| --- | --- | --- |
| **Stakeholder** | **Interest**  | **Influence** |
|  |  |  |
|  |  |  |

# DOH Prostheses File Business Rules

## Overview of the DOH Prostheses XML File

The Department of Health publishes the current Prostheses List for the use of stakeholders to update their claims and payments systems. The current published list is available from Department of Health’s website ([www.health.gov.au](http://www.health.gov.au)) in MS-Excel, PDF and MS-Access format. For the future lists, the MS-Access format will not published and will be replaced by XML.

This document is the schema definition document that goes with the Prostheses list in XML format to help the external stakeholders to update their claims and payments systems.

### Prosthesis XML File Structure

The proposed XML schema contains all the applicable fields that are supplied in the Prosthesis List Access Database. The *Suppliers*, *Categories*, *Groups* and *Sub-Groups* are supplied under their own elements and only the *Supplier Code*, *Category ID*, *Group ID* and *Sub Group ID* are listed under each *Prosthesis Item* element.

The structure of the XML schema is as follows:

* Prosthesis is the root element which contains:
	+ one creationDate attribute
	+ one prosthesisItemCount attribute
	+ one Suppliers element which contains:
		- many Supplier elements which contains
			* one SupplierCode element
			* one SupplierName element
	+ one Categories element
		- many Category elements which contain:
			* one CategoryID element
			* one CategoryDescription element
	+ one SubCategories element
		- many SubCategory elements which contain:
			* one SubCategoryID element
			* one SubCategoryDescription element
	+ one Groups element
		- many Group elements which contain:
			* one GroupID element
			* one GroupDescription element
	+ one SubGroups element
		- many SubGroup elements which contain:
			* one SubGroupID element
			* one SubGroupDescription element
	+ one ProsthesisItems elements which contain:
		- many ProsthesisItem elements which contain:
			* one ItemType element
			* one BillingCode element
			* one optional PriorBillingCodeselement
* many PriorBillingCode elements
	+ - * one Name element
			* one optional Description element
			* one optional Size element
			* one SupplierCode element
			* one CategoryID element
			* one optional SubCategoryID element
			* one optional GroupID element
			* one optional SubGroupID element
			* one optional Suffix element
			* one optional ARTGs element which may contain:
				+ many ARTG elements
			* one optional Note element
			* one optional ChangeExplanation element
			* one MinimumBenefit element
			* one MaximumBenefit element
			* one HumanTissueAmount element
			* one ActionFlag element
			* one CycleStartDate element
			* one CycleEndDate element

# Prosthesis Element

## Suppliers

The Suppliers element contains multiple Supplier elements, with each Supplier element containing a SupplierCode element and a SupplierName element. Every mandatory SupplierCode element contained in a ProsthesisItem element will also be contained in the Suppliers element.

|  |  |  |
| --- | --- | --- |
| **Suppliers**  | **XML Path**  | /Prosthesis/Suppliers  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | Suppliers is a child element of the root Prosthesis element. It contains many Supplier elements.  |
| **Example**  | <Suppliers> <Supplier> ⋮ </Supplier> ⋮<Supplier> ⋮ </Supplier> </Suppliers>  |

## Categories

The Categories element contains multiple Category elements, with each Category element containing a CategoryID element and a CategoryDescription element. Every mandatory CategoryID element contained in a ProsthesisItem element will also be contained in the Categories element.

|  |  |  |
| --- | --- | --- |
| **Categories**  | **XML Path**  | /Prosthesis/Categories  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | Categories is a child element of the root Prosthesis element. It contains many Category elements.  |
| **Example**  | <Categories> <Category> ⋮ </Category> ⋮<Category> ⋮ </Category> </Categories>  |

## SubCategories

The SubCategories element contains multiple SubCategory elements, with each SubCategory element containing a SubCategoryID element and a SubCategoryDescription element. Every optional SubCategoryID element contained in a ProsthesisItem element will also be contained in the SubCategories element.

|  |  |  |
| --- | --- | --- |
| **Categories**  | **XML Path**  | /Prosthesis/SubCategories  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | SubCategories is a child element of the root Prosthesis element. It contains many SubCategory elements.  |
| **Example**  | <SubCategories> <SubCategory> ⋮ </SubCategory> ⋮<SubCategory> ⋮ </SubCategory> </SubCategories>  |

## Groups

The Groups element contains multiple Group elements, with each Group element containing a GroupID element and a GroupDescription element. Every optional GroupID element contained in a ProsthesisItem element will also be contained in the Groups element.

|  |  |  |
| --- | --- | --- |
| **Groups**  | **XML Path**  | /Prosthesis/Groups  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | Groups is a child element of the root Prosthesis element. It contains many Group elements.  |
| **Example**  | <Groups> <Group> ⋮ </Group> ⋮<Group> ⋮ </Group> </Groups>  |

## Sub Groups

The SubGroups element contains multiple SubGroup elements, with each SubGroup element containing a SubGroupID element and a SubGroupDescription element. Every optional SubGroupID element contained in a ProsthesisItem element will also be contained in the SubGroups element.

|  |  |  |
| --- | --- | --- |
| **Subgroups**  | **XML Path** | /Prosthesis/SubGroups  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | SubGroups is a child element of the root Prosthesis element. It contains many SubGroup elements.  |
| **Example**  | <SubGroups> <SubGroup> ⋮ </SubGroup> ⋮<SubGroup> ⋮ |

## Prosthesis Items

The ProsthesisItems element contains multiple ProsthesisItem elements. It is each ProsthesisItem element which contains all data elements as supplied by the Department regarding each specific prosthesis item.

|  |  |  |
| --- | --- | --- |
| **Prosthesis Items**  | **XML Path**  | /Prosthesis/ProsthesisItems  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | ProsthesisItems is a child element of the root Prosthesis element. It contains many Prosthesis elements.  |
| **Example**  | <ProsthesisItems> <ProsthesisItem> ⋮ </ProsthesisItem> ⋮<ProsthesisItem> ⋮ </ProsthesisItem> </ProsthesisItems>  |

## Creation Date

The creationDate is an attribute of the Prosthesis element and is the date that the Prosthesis File was created. The date is supplied in ‘YYYY-MM-DDThh:mm:ss’ format.

|  |  |  |
| --- | --- | --- |
| **Creation Date**  | **XML Path**  | /Prosthesis/@creationDate  |
| **Type**  | Date  |
| **Disposition**  | Required  |
| **Details**  | Denotes the date/time the XML file was created in YYYY-MM-DDThh:mm:ss format: • YYYY – year • MM – month •DD - day •hh – hour•mm – minute•ss - second |
| **Example**  | creationDate="2018-02-28T11:30:45"  |

## Prosthesis Item Count

|  |  |  |
| --- | --- | --- |
| **Prosthesis Item Count**  | **XML Path**  | /Prosthesis/@prosthesisItemCount  |
| **Type**  | Non-Negative Integer  |
| **Disposition**  | Required  |
| **Details**  | Denotes the number of child ProsthesisItem elements of the parent ProsthesisItems element.  |
| **Example**  | prosthesisItemCount="3873"  |

## Supplier

Each Supplier element contains a SupplierCode element and a SupplierName element.

|  |  |  |
| --- | --- | --- |
| **Supplier**  | **XML Path**  | /Prosthesis/Suppliers/Supplier  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | The child element of the Suppliers element.  |
| **Example**  | <Supplier> ⋮ </Supplier>  |

### Supplier Code

The SupplierCode element contains a unique code for the supplier, sponsor, manufacturer or facility that produces the prosthesis item. For (surgically-implanted or other medical devices) prosthesis items (Item Type = ‘Prosthesis’ or ‘Other’), the supplier code is a two-character alphanumeric code. For human tissue items (Item Type = ‘Human Tissue’), the supplier code is a three-character alphabetical code.

|  |  |  |
| --- | --- | --- |
| **Supplier Code**  | **XML Path**  | /Prosthesis/Suppliers/Supplier/SupplierCode  |
| **Type**  | String • minLength value="2" • maxLength value="3" • pattern value="[A\_Za-z][A\_Za-z0-9][A-Za-z]{3}"  |
| **Disposition**  | Required  |
| **Details**  | Denotes the code used to represent the supplier, sponsor, manufacturer or facility that produces the prosthesis item.  |
| **Example**  | <SupplierCode>AA</SupplierCode>  |

### Supplier Name

The SupplierName element contains the name of the supplier, sponsor, manufacturer or facility that produces the prosthesis item. The maximum length of SupplierName is 255 characters.

|  |  |  |
| --- | --- | --- |
| **Supplier Name**  | **XML Path**  | /Prosthesis/Suppliers/Supplier/SupplierName  |
| **Type**  | String • maxLength value="255"  |
| **Disposition**  | Required  |
| **Details**  | Denotes the name of the supplier, sponsor, manufacturer or facility that produces the prosthesis item.  |
| **Example**  | <SupplierName>Alliance Surgical</SupplierName>  |

## Category

Each Category element contains a CategoryID element and a CategoryDescription element.

|  |  |  |
| --- | --- | --- |
| **Category**  | **XML Path**  | /Prosthesis/Categories/Category  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | The child element of the Categories element.  |
| **Example**  | <Category> ⋮ </Category> |

### Category ID

The CategoryID element contains a unique code for the category of the prosthesis item which is a description of the surgical specialty that uses the respective prosthesis item. The CategoryID is as a non-negative integer.

|  |  |  |
| --- | --- | --- |
| **Category ID**  | **XML Path**  | /Prosthesis/Categories/Category/CategoryID  |
| **Type**  | Non-negative integer  |
| **Disposition**  | Required  |
| **Details**  | Denotes the ID number used to represent the category of the prosthesis item.  |
| **Example**  | <CategoryID>1</CategoryID>  |

### Category Description

The CategoryDescription element is a description of the surgical specialty that uses the respective prosthesis item. The maximum length of CategoryDescription is 255 characters.

|  |  |  |
| --- | --- | --- |
| **Category Description**  | **XML Path**  | /Prosthesis/Categories/Category/CategoryDescription  |
| **Type**  | String • maxLength value="255"  |
| **Disposition**  | Required  |
| **Details**  | Denotes the description of the surgical specialty that uses the prosthesis item.  |
| **Example**  | <CategoryDescription>01 - Ophthalmic</CategoryDescription>  |

## SubCategory

Each SubCategory element contains a SubCategoryID element and a SubCategoryDescription element.

|  |  |  |
| --- | --- | --- |
| **SubCategory**  | **XML Path**  | /Prosthesis/SubCategories/SubCategory  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | The child element of the SubCategories element.  |
| **Example**  | <SubCategory> ⋮ </SubCategory> |

### SubCategory ID

The SubCategoryID element contains a unique code for the category of the prosthesis item which is a description of the surgical specialty that uses the respective prosthesis item. The SubCategoryID is as a non-negative integer.

|  |  |  |
| --- | --- | --- |
| **SubCategory ID**  | **XML Path**  | /Prosthesis/SubCategories/SubCategory/SubCategoryID  |
| **Type**  | Non-negative integer  |
| **Disposition**  | Required  |
| **Details**  | Denotes the ID number used to represent the category of the prosthesis item.  |
| **Example**  | <SubCategoryID>1</SubCategoryID>  |

### SubCategory Description

The SubCategoryDescription element is a description of the surgical specialty that uses the respective prosthesis item. The maximum length of SubCategoryDescription is 255 characters.

|  |  |  |
| --- | --- | --- |
| **SubCategory Description**  | **XML Path**  | /Prosthesis/SubCategories/SubCategory/SubCategoryDescription  |
| **Type**  | String • maxLength value="255"  |
| **Disposition**  | Required  |
| **Details**  | Denotes the description of the surgical specialty that uses the prosthesis item.  |
| **Example**  | <SubCategoryDescription>03-INTRAOCULAR FLUIDS</SubCategoryDescription>  |

## Group

Each Group element contains a GroupID element and a GroupDescription element.

|  |  |  |
| --- | --- | --- |
| **Group**  | **XML Path**  | /Prosthesis/Groups/Group  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | The child element of the Groups element.  |
| **Example**  | <Group> ⋮ </Group>  |

### Group ID

The GroupID element contains a unique code for the group of the prosthesis item which is a description of the primary clinical classification of the prosthesis item as defined by the Clinical Advisory Group. The GroupID is as a non-negative integer.

|  |  |  |
| --- | --- | --- |
| **Group ID**  | **XML Path**  | /Prosthesis/Groups/Group/GroupID  |
| **Type**  | Non-negative integer  |
| **Disposition**  | Required  |
| **Details**  | Denotes the ID number used to represent the group of the prosthesis item.  |
| **Example**  | <GroupID>1231</GroupID> |

### Group Description

The GroupDescription element contains the description of the primary clinical classification of the prosthesis item as defined by the Clinical Advisory Group of the respective prosthesis item. The maximum length of GroupDescription is 255 characters.

|  |  |  |
| --- | --- | --- |
| **Group Description**  | **XML Path**  | /Prosthesis/Groups/Group/GroupDescription  |
| **Type**  | String • maxLength value="255"  |
| **Disposition**  | Required  |
| **Details**  | Denotes the description of the group of the prosthesis item.  |
| **Example**  | <GroupDescription>06.03.04 – Screws</GroupDescription>  |

## Sub Group

Each SubGroup element contains a SubGroupID element and a SubGroupDescription element.

|  |  |  |
| --- | --- | --- |
| **Sub Group**  | **XML Path**  | /Prosthesis/SubGroups/SubGroup  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | The child element of the SubGroups element.  |
| **Example**  | <SubGroup> ⋮ </SubGroup>  |

### Sub Group ID

The SubGroupID contains a unique code for the sub-group of the prosthesis item which is a description of the secondary clinical classification of the prosthesis item as defined by the Clinical Advisory Group. The SubGroupID is as a non-negative integer.

|  |  |  |
| --- | --- | --- |
| **Sub Group 1 ID**  | **XML Path**  | /Prosthesis/SubGroups/SubGroup/SubGroupID  |
| **Type**  | Non-negative integer  |
| **Disposition**  | Required  |
| **Details**  | Denotes the ID number used to represent the sub-group of the prosthesis item.  |
| **Example**  | <SubGroupID>3369</SubGroupID>  |

### Sub Group Description

The SubGroupDescription element contains the description of the secondary clinical classification of the prosthesis item as defined by the Clinical Advisory Group of the respective prosthesis item. The maximum length of SubGroupDescription is 255 characters.

|  |  |  |
| --- | --- | --- |
| **Sub Group Description**  | **XML Path**  | /Prosthesis/SubGroups/SubGroup/SubGroupDescription  |
| **Type**  | String • maxLength value="255"  |
| **Disposition**  | Required  |
| **Details**  | Denotes the description of the sub-group of the prosthesis item.  |
| **Example**  | <SubGroupDescription>06.03.04.01 – Standard ( =4.5mm)</SubGroupDescription> |

## Prosthesis Items

The ProsthesisItems element contains many ProsthesisItem elements.

### ProsthesisItem Element

The ProsthesisItem element is a *complexType* element which contains the data fields which define all the properties of a prosthesis item.

|  |  |  |
| --- | --- | --- |
| **Prosthesis Item**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem  |
| **Type**  | Complex  |
| **Disposition**  | Required  |
| **Details**  | ProsthesisItem is a child element of the ProsthesisItems element. It contains the data which defines the properties of a prosthesis item.  |
| **Example**  | <ProsthesisItem> ⋮ </ProsthesisItem>  |

## Prosthesis Item

The ProsthesisItem element contains the data elements related to a prosthesis item. In this specification, surgically-implanted prostheses, human tissue, and other medical devices are generically referred to as ‘prostheses’. However, they are all differentiated by the inclusion of an ‘Item Type’ data element which identifies which category the item falls into.

### Item Type

The ItemType element denotes whether the prosthesis item is defined as a:

***surgically-implanted prosthesis*** item (ItemType = ‘Prosthesis’);

***human tissue*** item (ItemType = ‘Human Tissue’); or

***other medical devices*** item (ItemType = ‘Other’).

|  |  |  |
| --- | --- | --- |
| **Item Type**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/ItemType  |
| **Type**  | String • enumeration value="Prosthesis" • enumeration value="Human Tissue" • enumeration value="Other"  |
| **Disposition**  | Required  |
| **Details**  | ItemType denotes whether the prosthesis item is a prosthesis, human tissue, or other item.  |
| **Example**  | <ItemType>Prosthesis</ItemType>  |

### Billing Code

The BillingCode element is the code supplied by the Commonwealth which identifies the prosthesis item. This code is used for all billing purposes by the hospital and fund. This code should also be used for all HCP data submissions.

|  |  |  |
| --- | --- | --- |
| **Billing Code**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/BillingCode  |
| **Type**  | String • minLength value="5" • maxLength value="7" • pattern value="[A-Za-z][A-Za-z0-9][0-9]{3}|[A-za-z]{3}[0-9]{2}|[A-za-z]{3}[0-9]{4}" |
| **Disposition**  | Required  |
| **Details**  | BillingCode is the code to be used for all billing purposes for the prosthesis item. |
| **Example**  | <BillingCode>A1003</BillingCode>  |

### Prior Billing Codes

The PriorBillingCodes element is a complex element that contains many PriorBillingCode elements. This element is optional.

|  |  |  |
| --- | --- | --- |
| **PriorBillingCodes** | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/PriorBillingCodes  |
| **Type**  | Complex |
| **Disposition**  | Optional  |
| **Details**  | PriorBillingCode is a child element of the ProsthesisItem element and contains many PriorBillingCode elements. |
| **Example**  | < PriorBillingCodes > <PriorBillingCode>…</PriorBillingCode> ⋮ < PriorBillingCode >…</ PriorBillingCode> </PriorBillingCodes > |

#### Prior Billing Code

The PriorBillingCode element is the former Billing Code that used to be associated with the prosthesis item. It is provided in instances where the prosthesis item now has a new billing code.

|  |  |  |
| --- | --- | --- |
| **PriorBillingCode** | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/ PriorBillingCodes/PriorBillingCode |
| **Type**  | String • minLength value="5" • maxLength value="7" • pattern value="[A-Za-z][A-Za-z0-9][0-9]{3}|[A-za-z]{3}[0-9]{2}|[A-za-z]{3}[0-9]{4}" |
| **Disposition**  | Optional  |
| **Details**  | PriorBillingCode is a former Billing code associated with the Prostheses item.  |
| **Example**  | < PriorBillingCode >AE252</PriorBillingCode>  |

### Name

The Name element contains the name of the prosthesis item. The maximum length of Name is 1,024 characters.

|  |  |  |
| --- | --- | --- |
| **Name**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/Name  |
| **Type**  | String • maxLength value="1024"  |
| **Disposition**  | Required  |
| **Details**  | Name is the name of the prosthesis item.  |
| **Example**  | <Name>TyPEEK Interbody System – Lumbar PLIF/TLIF (Paired)</Name>  |

### Description

The Description element is a text field that contains a description of the prosthesis item, and is necessary as many prosthesis items may have similar product names. This element is optional. The maximum length of Description is 4,000 characters.

|  |  |  |
| --- | --- | --- |
| **Description**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/Description  |
| **Type**  | String • maxLength value="4000" |
| **Disposition**  | Optional  |
| **Details**  | Description is an additional description of the prosthesis item.  |
| **Example**  | <Description>TyPEEK Interbody System – Lumbar PLIF/TLIF (Paired)</Description>  |

## Size

The Size is a text field that contains information regarding to size or quantities of the prosthesis item. This element is optional. The maximum length of Size is 4,000 characters.

|  |  |  |
| --- | --- | --- |
| **Size**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/Size  |
| **Type**  | String • maxLength value="4000"  |
| **Disposition**  | Optional  |
| **Details**  | Size is a description that defines the size of the prosthesis item.  |
| **Example**  | <Size>Width 8-12mm: Length 22-34mm: Height 7-17mm: Lordosis Angle 0-8 degrees</Size>  |

## Supplier Code

The SupplierCode element contains a code which denotes the supplier, sponsor, manufacturer or facility that produces the prosthesis item. For (surgically-implanted or other medical devices) prosthesis items (ItemType = ‘Prosthesis’ or ‘Other’), the supplier code is a two-character code. For human tissue items (ItemType = ‘Human Tissue’), the supplier code is a three-character code.

|  |  |  |
| --- | --- | --- |
| **Supplier Code**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/SupplierCode  |
| **Type**  | String • minLength value="2" • maxLength value="3" • pattern value="[A-Za-z][A-Za-z0-9]|[A-Za-z]{3}"  |
| **Disposition**  | Required  |
| **Details**  | SupplierCode is a code that denotes the supplier of the prosthesis item.  |
| **Example**  | <SupplierCode>BP</SupplierCode>  |

## Category ID

The CategoryID element contains a code which denotes the category of the prosthesis item which is a description of the surgical specialty that uses the respective prosthesis item. The CategoryID is a non-negative integer.

|  |  |  |
| --- | --- | --- |
| **Category ID**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/CategoryID  |
| **Type**  | Non-negative integer  |
| **Disposition**  | Required  |
| **Details**  | CategoryID is an ID number that denotes the category of the prosthesis item.  |
| **Example**  | <CategoryID>19</CategoryID>  |

## SubCategory ID

The SubCategoryID element contains a code denoting the sub category of the prosthesis item which is a description of the primary clinical classification of the prosthesis item as defined by the Clinical Advisory Group. The SubCategoryID is a non-negative integer and is optional.

|  |  |  |
| --- | --- | --- |
| **Category ID**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/SubCategoryID  |
| **Type**  | Non-negative integer  |
| **Disposition**  | Optional  |
| **Details**  | SubCategoryID is an ID number that denotes the subcategory of the prosthesis item.  |
| **Example**  | <SubCategoryID>19</SubCategoryID>  |

## Group ID

The GroupID element contains a code denoting the group of the prosthesis item which is a description of the primary clinical classification of the prosthesis item as defined by the Clinical Advisory Group. The GroupID is a non-negative integer and is optional.

|  |  |  |
| --- | --- | --- |
| **Group ID**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/GroupID  |
| **Type**  | Non-negative integer |
| **Disposition**  | Optional  |
| **Details**  | GroupID is an ID number that denotes the group of the prosthesis item.  |
| **Example**  | <GroupID>1486</GroupID>  |

## Sub Group ID

The SubGroupID contains a code which denotes the sub-group of the prosthesis item which is a description of the secondary clinical classification of the prosthesis item as defined by the Clinical Advisory Group. The SubGroupID is a non-negative integer and is optional.

|  |  |  |
| --- | --- | --- |
| **Sub Group ID**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/SubGroupID  |
| **Type**  | Non-negative integer  |
| **Disposition**  | Optional  |
| **Details**  | SubGroupID is an ID number that denotes the sub-group of the prosthesis item.  |
| **Example**  | <SubGroupID>4135</SubGroupID>  |

## Suffix

The Suffix element contains a text description in addition to the Grouping and Sub-Groupings of the prosthesis item (if required) by the Clinical Advisory Group. The Suffix element is optional. The maximum length of Suffix is 255 characters.

|  |  |  |
| --- | --- | --- |
| **Suffix**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/Suffix  |
| **Type**  | String • maxLength value="255"  |
| **Disposition**  | Optional  |
| **Details**  | Suffix is text description of an additional sub-grouping to further differentiate the sub-group of the prosthesis item.  |
| **Example**  | <Suffix>Paired</Suffix>  |

## ARTGs

The ARTGs element is a complex element that contains many ARTG elements. This element contains all the *Australian Register of Therapeutic Goods* information related to this prosthesis item. This element is optional.

|  |  |  |
| --- | --- | --- |
| **ARTGs**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/ARTGs  |
| **Type**  | Complex  |
| **Disposition**  | Optional  |
| **Details**  | ARTGs is a child element of the ProsthesisItem element and contains many ARTG elements.  |
| **Example**  | <ARTGs> <ARTG>…</ARTG> ⋮ <ARTG>…</ARTG> </ARTGs>  |

**8.12.1 ARTG**

The ARTG element contains the six digit ARTG number associated with the prosthesis item. Each prosthesis item may have many ARTG numbers.

|  |  |  |
| --- | --- | --- |
| **ARTG**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/ARTGs/ARTG  |
| **Type**  | String • minLength value="5" • maxLength value="6" • pattern value="[0-9]{5,6}" |
| **Disposition**  | Required  |
| **Details**  | ARTG is a child element of the ARTGs element and contains an Australian Register of Therapeutic Goods number.  |
| **Example**  | <ARTG>163167</ARTG>  |

## Note

The Note element is a text field supplied by the Commonwealth providing additional information regarding the prosthesis item usually regarding under what conditions a benefit is payable or informing that a prosthesis item has been temporarily approved. The Note element is optional. The maximum length of Notations is 4,000 characters.

|  |  |  |
| --- | --- | --- |
| **Note**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/Note  |
| **Type**  | String • maxLength value="4000"  |
| **Disposition**  | Optional  |
| **Details**  | Note contains additional text usually regarding under what conditions a benefit is payable for the respective prosthesis item.  |
| **Example**  | <Note>That an Artificial Ligament should only be funded for intra-articular cases where no non-synthetic graft sources (allografts and autografts) are available.</Note>  |

## Change Explanation

The ChangeExplanation element is a text field supplied by the Commonwealth documenting any changes that have occurred. The ChangeExplanation element is optional. The maximum length of ChangeExplanation is 4,000 characters.

|  |  |  |
| --- | --- | --- |
| **Change Explanation**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/ChangeExplanation  |
| **Type**  | String • maxLength value="4000"  |
| **Disposition**  | Optional  |
| **Details**  | ChangeExplanation defines if and how the prosthesis item has changed.  |
| **Example**  | <ChangeExplanation>New Listing</ChangeExplanation>  |

## Minimum Benefit

The MinimumBenefit element contains the benefit that has been set by the Minister. This is the benefit that a fund must pay for the respective prosthesis item. As the prosthesis supplier is entitled to charge above the amount stipulated by the Minimum Benefit, any difference is the out-of-pocket amount that must be paid by the fund member unless the fund agrees to pay above the Minimum Benefit amount. Whether funds pay above the Minimum Benefit amount is a fund decision and something that each fund must decide for themselves independently.

The MinimumBenefit element is a decimal number with up to two decimal places.

|  |  |  |
| --- | --- | --- |
| **Minimum Benefit**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/MinimumBenefit  |
| **Type**  | Decimal • minInclusive value="0.0"  |
| **Disposition**  | Required  |
| **Details**  | MinimumBenefit is the minimum benefit that a health fund must pay for the prosthesis item used for one of its members (assuming the charge is not less than the minimum benefit). |
| **Example**  | <MinimumBenefit>4439</MinimumBenefit>  |

## Maximum Benefit

The MaximumBenefit element contains the benefit that has been set by the Minister (if a maximum benefit has been set). This is the maximum benefit that a fund must pay for the respective prosthesis item if the fund provides gap cover for prostheses. As the prosthesis supplier is entitled to charge above the amount stipulated by the Minimum Benefit, any difference is the out-of-pocket amount that must be paid by the fund member unless the fund agrees to pay above the Minimum Benefit amount. Whether funds pay above the Minimum Benefit amount is a fund decision and something that each fund must decide for themselves independently.

The MaximumBenefit element is a decimal number with up to two decimal places.

Note that this field is not in use as of February 2019 so the default value supplied for this field is 0.

|  |  |  |
| --- | --- | --- |
| **Maximum Benefit**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/MaximumBenefit  |
| **Type**  | Decimal • minInclusive value="0.0"  |
| **Disposition**  | Required  |
| **Details**  | MaximumBenefit is the maximum benefit that a health fund must pay for the prosthesis item used for one of its members  |
| **Example**  | < MaximumBenefit >4439</ MaximumBenefit>  |

## Human Tissue Amount

The HumanTissueAmount element is the charge that has been stipulated by the Commonwealth for the respective human tissue item. This is the minimum amount that that a private health insurer must pay in respect of the listed human tissue item.

When ItemType is ‘Prosthesis’ or ‘Other’, the Human Tissue Amount will always be zero. Otherwise, when ItemType is ‘Human Tissue’, the Human Tissue Amount will be greater than or equal to zero.

The HumanTissueAmount element is a decimal number with up to two decimal places.

|  |  |  |
| --- | --- | --- |
| **Human Tissue Amount**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/HumanTissueAmount  |
| **Type**  | Decimal • minInclusive value="0.0"  |
| **Disposition**  | Required  |
| **Details**  | HumanTissueAmount is the amount that a health fund must pay for the human tissue item used for one of its members.  |
| **Example**  | <HumanTissueAmount>374</HumanTissueAmount>  |

## Action Flag

The ActionFlag element identifies whether the prosthesis item is an addition, update, deletion or unchanged.

|  |  |  |
| --- | --- | --- |
| **Action Flag**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/ActionFlag  |
| **Type**  | String • enumeration value="Insert" • enumeration value="Update" • enumeration value="Delete" • enumeration value="No Change"  |
| **Disposition**  | Required  |
| **Details**  | ActionFlag indicates if the elements within this ProsthesisItem element are being inserted, updated, deleted or remain unchanged.  |
| **Example**  | <ActionFlag>Update</ActionFlag>  |

1. When the ActionFlag has a value of ‘Insert’, the prosthesis item is being added to the prosthesis list which takes effect on the Cycle Start Date and Cycle End Date.
2. When the ActionFlag has a value of ‘Update’, then the details of the prosthesis item are being updated, and the update takes effect from the Cycle End Date.
3. 8.17.3 When the ActionFlag has a value of ‘Delete’, the prosthesis item is being deleted from the prosthesis list with the date of deletion being the Cycle End Date. No charge for the prosthesis item can be made from this date onwards. Hospitals may continue to use the prosthesis item after deletion from the prosthesis list, but no charge to the fund can be raised.
4. 8.17.4 When the ActionFlag has a value of ‘No Change’, then the details of the prosthesis item are unchanged since the previously supplied prosthesis file.

The ActionFlag element is mandatory and can only take the value ‘Insert’, ‘Update’, ‘Delete’ or ‘No Change’.

## Cycle Start Date

The CycleStartDate element is the date that the prosthesis item was first added to the Prosthesis List by the Commonwealth.

The CycleStartDate element is mandatory and is supplied in ‘yyyy-mm-dd’ format.

|  |  |  |
| --- | --- | --- |
| **Start Date**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/ CycleStartDate |
| **Type**  | Date  |
| **Disposition**  | Required  |
| **Details**  | CycleStartDate is the date the prosthesis item was first added onto the prosthesis list.  |
| **Example**  | < CycleStartDate >2001-02-28</ CycleStartDate >  |

## Cycle End Date

The CycleEndDate element is the effective date for items listed in the current cycle. For items that are being deleted this cycle, it is the date that the prosthesis item is deleted from the Prosthesis List by the Commonwealth.

The CycleEndDate element is mandatory and is supplied in ‘yyyy-mm-dd’ format.

|  |  |  |
| --- | --- | --- |
| **End Date**  | **XML Path**  | /Prosthesis/ProsthesisItems/ProsthesisItem/CycleEndDate  |
| **Type**  | Date  |
| **Disposition**  | Optional  |
| **Details**  | CycleEndDate is the effective date of the current cycle or the date the prosthesis item was deleted from the prosthesis list.  |
| **Example**  | < CycleEndDate >2017-02-28</ CycleEndDate >  |

# Prosthesis XML Schema

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

<xs:schema xmlns:xs=*"http://www.w3.org/2001/XMLSchema"*

 xmlns=*"http://health.gov.au/plms/schema/V1.1"* targetNamespace=*"http://health.gov.au/plms/schema/V1.1"*

 elementFormDefault=*"qualified"*>

 <!-- elements -->

 <xs:element name=*"Prosthesis"* type=*"ProsthesisType"* />

 <!-- complexTypes -->

 <xs:complexType name=*"ARTGsType"*>

 <xs:sequence>

 <xs:element name=*"ARTG"* type=*"ARTGType"* maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"CategoriesType"*>

 <xs:sequence>

 <xs:element name=*"Category"* type=*"CategoryType"* maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"CategoryType"*>

 <xs:sequence>

 <xs:element name=*"CategoryID"* type=*"IDType"* />

 <xs:element name=*"CategoryDescription"* type=*"StringType255"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"SubCategoriesType"*>

 <xs:sequence>

 <xs:element name=*"SubCategory"* type=*"SubCategoryType"* maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"SubCategoryType"*>

 <xs:sequence>

 <xs:element name=*"SubCategoryID"* type=*"IDType"* />

 <xs:element name=*"SubCategoryDescription"* type=*"StringType255"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"GroupsType"*>

 <xs:sequence>

 <xs:element name=*"Group"* type=*"GroupType"* maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"GroupType"*>

 <xs:sequence>

 <xs:element name=*"GroupID"* type=*"IDType"* />

 <xs:element name=*"GroupDescription"* type=*"StringType255"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"ProsthesisItemsType"*>

 <xs:sequence>

 <xs:element name=*"ProsthesisItem"* type=*"ProsthesisItemType"*

 maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"ProsthesisItemType"*>

 <xs:sequence>

 <xs:element name=*"ItemType"* type=*"ItemTypeType"* />

 <xs:element name=*"BillingCode"* type=*"BillingCodeType"* />

 <xs:element name=*"PriorBillingCodes"* type=*"PriorBillingCodeType"* minOccurs=*"0"* />

 <xs:element name=*"Name"* type=*"NameType"* />

 <xs:element name=*"Description"* type=*"StringType4000"* minOccurs=*"0"* />

 <xs:element name=*"Size"* type=*"StringType4000"* minOccurs=*"0"* />

 <xs:element name=*"SupplierCode"* type=*"SupplierCodeType"* />

 <xs:element name=*"CategoryID"* type=*"IDType"* />

 <xs:element name=*"SubCategoryID"* type=*"IDType" minOccurs="0"* />

 <xs:element name=*"GroupID"* type=*"IDType"* minOccurs=*"0"* />

 <xs:element name=*"SubGroupID"* type=*"IDType"* minOccurs=*"0"* />

 <xs:element name=*"Suffix"* type=*"StringType255"* minOccurs=*"0"* />

 <xs:element name=*"ARTGs"* type=*"ARTGsType"* minOccurs=*"0"* />

 <xs:element name=*"Note"* type=*"StringType4000"* minOccurs=*"0"* />

 <xs:element name=*"ChangeExplanation"* type=*"StringType4000"* minOccurs=*"0"* />

 <xs:element name=*"MinimumBenefit"* type=*"DecimalType"*/>

 <xs:element name=*"MaximumBenefit"* type=*"DecimalType"*/>

 <xs:element name=*"HumanTissueAmount"* type=*"DecimalType"* />

 <xs:element name=*"ActionFlag"* type=*"ActionFlagType"* />

 <xs:element name=*"CycleStartDate"* type=*"DateType"* />

 <xs:element name=*"CycleEndDate"* type=*"DateType"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"ProsthesisType"*>

 <xs:sequence>

 <xs:element name=*"Suppliers"* type=*"SuppliersType"* />

 <xs:element name=*"Categories"* type=*"CategoriesType"* />

 <xs:element name=*"SubCategories"* type=*"SubCategoriesType"* />

 <xs:element name=*"Groups"* type=*"GroupsType"* />

 <xs:element name=*"SubGroups"* type=*"SubGroupsType"* />

 <xs:element name=*"ProsthesisItems"* type=*"ProsthesisItemsType"* />

 </xs:sequence>

 <xs:attribute name=*"creationDate"* type=*"xs:dateTime"* use=*"required"* />

 <xs:attribute name=*"prosthesisItemCount"* type=*"IntegerTypeN"*

 use=*"required"* />

 </xs:complexType>

 <xs:complexType name=*"SubGroupsType"*>

 <xs:sequence>

 <xs:element name=*"SubGroup"* type=*"SubGroupType"* maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"SubGroupType"*>

 <xs:sequence>

 <xs:element name=*"SubGroupID"* type=*"IDType"* />

 <xs:element name=*"SubGroupDescription"* type=*"StringType255"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"SuppliersType"*>

 <xs:sequence>

 <xs:element name=*"Supplier"* type=*"SupplierType"* maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"SupplierType"*>

 <xs:sequence>

 <xs:element name=*"SupplierCode"* type=*"SupplierCodeType"* />

 <xs:element name=*"SupplierName"* type=*"StringType255"* />

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name=*"PriorBillingCodeType"*>

 <xs:sequence>

 <xs:element name=*"PriorBillingCode"* type=*"BillingCodeType"*

 maxOccurs=*"unbounded"* />

 </xs:sequence>

 </xs:complexType>

 <!-- simpleTypes -->

 <xs:simpleType name=*"ActionFlagType"*>

 <xs:restriction base=*"xs:string"*>

 <xs:enumeration value=*"Insert"* />

 <xs:enumeration value=*"Update"* />

 <xs:enumeration value=*"Delete"* />

 <xs:enumeration value=*"No Change"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"ARTGType"*>

 <xs:restriction base=*"xs:string"*>

 <xs:minLength value=*"5"* />

 <xs:maxLength value=*"6"* />

 <xs:pattern value=*"[0-9]{5,6}"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"BillingCodeType"*>

 <xs:restriction base=*"xs:string"*>

 <xs:minLength value=*"5"* />

 <xs:maxLength value=*"7"* />

 <xs:pattern value=*"[A-Za-z]{2}[0-9]{3}|[A-Za-z]{3}[0-9]{2}|[A-Za-z]{3}[0-9]{4}"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"BooleanType"*>

 <xs:restriction base=*"xs:string"*>

 <xs:pattern value=*"Yes"* />

 <xs:pattern value=*"No"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"DateType"*>

 <xs:restriction base=*"xs:date"*>

 <xs:minInclusive value=*"2000-01-01"* />

 <xs:maxInclusive value=*"2100-12-31"* />

 <xs:pattern value=*".{10}"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"DecimalType"*>

 <xs:restriction base=*"xs:decimal"*>

 <xs:minInclusive value=*"0.0"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"IDType"*>

 <xs:restriction base=*"xs:nonNegativeInteger"* />

 </xs:simpleType>

 <xs:simpleType name=*"IntegerTypeN"*>

 <xs:restriction base=*"xs:nonNegativeInteger"* />

 </xs:simpleType>

 <xs:simpleType name=*"IntegerTypeP"*>

 <xs:restriction base=*"xs:positiveInteger"* />

 </xs:simpleType>

 <xs:simpleType name=*"ItemTypeType"*>

 <xs:restriction base=*"xs:string"*>

 <xs:enumeration value=*"Prosthesis"* />

 <xs:enumeration value=*"Human Tissue"* />

 <xs:enumeration value=*"Other"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"NameType"*>

 <xs:restriction base=*"xs:string"*>

 <xs:maxLength value=*"1024"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"StringType255"*>

 <xs:restriction base=*"xs:string"*>

 <xs:maxLength value=*"255"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"StringType4000"*>

 <xs:restriction base=*"xs:string"*>

 <xs:maxLength value=*"4000"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"StringType50"*>

 <xs:restriction base=*"xs:string"*>

 <xs:maxLength value=*"50"* />

 </xs:restriction>

 </xs:simpleType>

 <xs:simpleType name=*"SupplierCodeType"*>

 <xs:restriction base=*"xs:string"*>

 <xs:minLength value=*"2"* />

 <xs:maxLength value=*"3"* />

 <xs:pattern value=*"[A-Za-z]{2}|[A-Za-z]{3}"* />

 </xs:restriction>

 </xs:simpleType>

</xs:schema>

## Technical Note

In line with W3C XML standards special and whitespace characters will be substituted in text fields.

For example ‘"&" will be substituted by "&amp;" and CR(Carriage Return) will be substituted by "&#xD;".