

Contents

| | |
|---|-----------|
| ABOUT THIS DOCUMENT: | 3 |
| Column #1 - Element Name | 3 |
| Column #2 - Requirement Designators & Length Restriction..... | 3 |
| Column #3 - Description & Conditions | 3 |
| Column #4 - Type | 3 |
| Column #5 - Occurrences (looped/repeated elements)..... | 3 |
| CHANGES BETWEEN VERSION 1 & 2 | 4 |
| FILE STRUCTURE & CONTENT..... | 4 |
| CS_Classers Specification | 4 |
| Transmission Header | 4 |
| Specifications (Wrapper Element) | 5 |
| Specification | 5 |
| Business Entity..... | 6 |
| Address..... | 6 |
| Contact | 6 |
| Document Creator | 7 |
| Contact | 7 |
| Wool Classers (Wrapper Element) | 7 |
| Wool Classifier | 7 |
| Contact | 7 |
| Quality Schemes (Wrapper Element) | 7 |
| Quality Scheme..... | 7 |
| Bins (Wrapper Element)..... | 8 |
| Bin | 8 |
| Mobs (Wrapper Element) | 9 |
| Mob | 9 |
| Signature | 10 |
| QualitySchemeCodes (Wrapper Element) | 10 |
| Lines (Wrapper Element) | 10 |
| Line..... | 10 |
| BalesSpecified (Wrapper Element)..... | 11 |
| BaleSpecified | 11 |
| MobUIDs (Wrapper Element)..... | 12 |
| BinCodes (Wrapper Element)..... | 12 |
| CODE LISTS | 13 |
| Address Type Code | 13 |
| Age Shearing Code..... | 13 |
| Breed Group Code..... | 13 |
| Contact Type Code..... | 13 |
| Error Code..... | 13 |
| Estimated Staple Strength Code | 14 |

Classes Specification (CS) XML & JSON

Version 3

| | |
|--|----|
| Estimated Vegetable Matter Content Code | 14 |
| Estimated Vegetable Matter Type Code | 14 |
| Logic Codes | 14 |
| Mulesing Mob Code | 15 |
| Pack Condition Code..... | 15 |
| Pack Material Code..... | 15 |
| Sex Code | 15 |
| LOGIC REQUIRED TO CALCULATE LOT-LEVEL MULESING STATUS | 16 |

About this Document:

This document is made up of a series of tables. Each table represents a complexType element i.e. the equivalent to a "Record" in EDI. The elements listed within the table are child elements, and can be either simpleType (data) elements (equivalent of a "Field" in EDI) or they can be another complexType element i.e. a record held within a record. Together these tables detail the content and structure of the data file.

Column #1 - Element Name

Naming Conventions:

- With the exception of elements that use Y/N logic, all other elements that refer to a code list, will include the word "Code" as a suffix in their tag name e.g. EstVMTCode, TransmissionTypeCode, BreedGroupCode.
Note: Not all elements which contain "Code" in their name have a code list to reference e.g. ClientAccountCode
- Date fields will include the word "Date" as a prefix to the tag name e.g. DateClipComplete.
- Unique Identifiers will include the abbreviation "UID" as a suffix in the tag name e.g. MobUID, BaleUID
- Wrapper elements, used to hold an array, ideally will be named as the plural of the Array e.g.
 Mobs (wrapper element)
 Mob (Array = repeated element)

Column #2 - Requirement Designators & Length Restriction

- Top row = Requirement Designator e.g.
 - M = Mandatory (Data must be sent).
 - O = Optional (Data is sent at the discretion of the Document Originator).
 - C = Conditional (Data must be sent in some circumstances but may be omitted in others, and while xml Schema (xsd) can only validate Mandatory & Optional elements, Conditional has also been included in this document, to provide additional information to the programmer e.g. for the ContactType element, Phone and Mobile are set as Optional elements in the xsd file, however from an EDI perspective they are conditional, with the condition being that at least one of them must be sent).
- Bottom row = Length Restriction

Column #3 - Description & Conditions

A description of the element including any conditions that may apply are defined in the third column.

Column #4 - Type

All elements in the Schema are Named Types and can be re-used in any document that uses the same schema. The "type" associated with a Named element is shown in the 4th column. Refer to the "DataDictionary.xsd" file for a full list of type declarations i.e. validation rules.

Note:

- DateTime elements are to be in UTC with local time shift e.g. YYYY-MM-DDThh:mm:ss+00:00
- Phone, Mobile & Fax numbers, are to incorporate the country code including the "+" prefix and dropping the leading Zero in the area code and mobile numbers e.g. +61264523130, +61418484733
- Unique Identifiers (UID) are to be 10 characters. A UID is only unique to the system that generated it and may be used as a "Key" for re-requests, or as a reference when problem solving. It is not a Universally or Globally Unique Identifier (UUID or GUID).

Column #5 - Occurrences (looped/repeated elements)

The number of times the element can occur is defined in the last column.

Note: a plus (+) sign = unbounded (there is no restriction on how many times the element can be sent). e.g.

- 0+ The element may be omitted, and there is no limit to the number of times it can be sent (0-Many)
- 0-1 The element may be omitted, if sent it can only be sent once (it cannot be repeated).
- 1 The element must be sent, and can only be sent once (it cannot be repeated).
- 1+ The element must be sent, and there is no limit to the number of times it can be sent (1-Many)

Changes between Version 2 & 3

1. Mulesing Mob Codes LA & LN have been added
2. The Logic tree for calculating lot level Mulesing status [MS] has been updated (see page 16),

File Structure & Content

CS Classers Specification

(CS_ClassersSpecificationType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|------------------------------------|-----------------------------|--|---|-----|
| TransmissionHeader | M | | TransmissionHeaderType (See table on page 4) | 1 |
| Specifications | M | Wrapper - holding the “Specification” Array. | SpecificationsType (See table on page 5) | 1 |

Transmission Header

(TransmissionHeaderType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------------|-----------------------------|--|---------------|-----|
| DocumentOriginator | M (5) | EDI Code of System/Service Provider | EDICodeType | 1 |
| ErrorCode | C (5) | See Code List (page 13) Omitted if no error code to send. | ErrorCodeType | 0-1 |

Specifications (Wrapper Element)

(SpecificationsType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|----------------------|-----------------------------|--|--|-----|
| <u>Specification</u> | M | | SpecificationType (See table on page 5) | 1+ |

Specification

(SpecificationType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|-------------------------|-----------------------------|--|--|-----|
| SpecificationUID | M (10) | Unique ID (generated by Document Originator) | UIDType | 1 |
| CountryCode | M (2) | Country Code as per 'ISO 3166-1 alpha-2' standard. | CountryCodeType | 1 |
| DateTimeIssued | M (25) | Date Time specification was sent to the service provider, by the Document Creator. | xs:dateTime (UTC with local Time Sift) | 1 |
| IssueNumber | M (2) | Issue Number. This shall increment if re-issued. | IssueNumberType | 1 |
| Brand | M (30) | Property/Farm Brand Note: all alpha characters must be UPPERCASE | BrandType | 1 |
| BalesTotal | M (4) | Total Number of bales (on the Specification) | BalesTotalType | 1 |
| SellingOrganisation | M (5) | Marketing/Selling Organisation's EDI Code e.g. TWGC | EDICodeType | 1 |
| ReceivalOrganisation | M (5) | The EDI code of the Organisation receiving the farm delivery e.g. AWHC | EDICodeType | 1 |
| ClipComplete | M (2) | Shearing completed? (see Logic Codes, page 14) | LogicCodeType | 1 |
| DateClipComplete | C (10) | Date shearing completed. Sent when "ClipComplete = "Y" | xs:date | 0-1 |
| Instruction | C (100) | Instruction Omitted when no data to send | InstructionType | 0-1 |
| <u>Business Entity</u> | M | | BusinessEntityType (See table on page 6) | 1 |
| <u>Document Creator</u> | M | | DocumentCreatorType (See table on page 7) | 1 |
| <u>Wool Classes</u> | C | Wrapper - holding the "WoolClasser" Array. Omitted when no data to send | WoolClassersType (See table on page 7) | 0-1 |
| <u>QualitySchemes</u> | O | Wrapper - holding the "QualityScheme" Array | QualitySchemesType (See table on page 7) | 0-1 |
| <u>Bins</u> | O | Wrapper – holding the "Bin" Array | BinsType (See table on page 10) | 0-1 |
| <u>Mobs</u> | C | Wrapper - holding the "Mob" Array Omitted when no mobs are present | MobsType (See table on page 8) | 0-1 |
| <u>Lines</u> | M | Wrapper - holding the "Line" Array. | LinesType (See table on page 10) | 1 |
| <u>BalesSpecified</u> | M | Wrapper - holding the "BaleSpecified" Array | BalesSpecifiedType (See table on page 11) | 1 |

Business Entity

(BusinessEntityType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|-------------------|-----------------------------|--|--------------------------------------|-----|
| BusinessUID | M (10) | Unique ID (generated by Document Originator) | UIDType | 1 |
| BusinessName | M (50) | Business Name | BusinessNameType | 1 |
| ClientAccountCode | O (10) | Recipient created client code. | ClientAccountCodeType | 0-1 |
| ABN | C (11) | Australian Business Number. Omitted when no data to send. | ABNType | 0-1 |
| <u>Address</u> | C | Omitted when no data to send | AddressType (See table on page 6) | 0-1 |
| <u>Contact</u> | C | Omitted when no data to send | ContactType (See table on page 6) | 0-1 |

Address

(AddressType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|-----------------|-----------------------------|---|---------------------|-----|
| AddressTypeCode | M | See code list (page 13) | AddressTypeCodeType | 1 |
| CountryCode | M (2) | Country Code as per 'ISO 3166-1 alpha-2' standard. | CountryCodeType | 1 |
| AddressLine1 | M (50) | The first line of an address i.e. Roadside Address or PO Box | AddressLine1Type | 1 |
| SuburbTown | M (39) | Suburb/Town | SuburbTownType | 1 |
| State | M (3) | State | StateType | 1 |
| Postcode | M (4) | Postcode | PostcodeType | 1 |

Contact

(ContactType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|-----------------|-----------------------------|-------------------------|---------------------|-----|
| ContactTypeCode | M | See Code list (page 13) | ContactTypeCodeType | 1 |
| Phone | O (12) | Landline | PhoneType | 0-1 |
| Mobile | O (12) | Mobile | PhoneType | 0-1 |
| Email | O (50) | Email | EmailType | 0-1 |
| Web | O (50) | Web | WebType | 0-1 |
| Fax | O (12) | Fax | PhoneType | 0-1 |

Document Creator

(DocumentCreatorType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|----------------|-----------------------------|--------------------------------------|--------------------------------------|-----|
| Name | M (50) | Name of person creating the document | NameType | 1 |
| <u>Contact</u> | C | Omitted when no data to send | ContactType (See table on page 6) | 0-1 |

Wool Classes (Wrapper Element)

(WoolClassesType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------------|-----------------------------|--|--|-----|
| <u>WoolClasser</u> | M | | WoolClasserType (See table on page 7) | 1+ |

Wool Classer

(WoolClasserType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|---------------------------|-----------------------------|--|--------------------------------------|-----|
| ClasserRegistrationNumber | M (6) | Wool Classer Registration number (Stencil) | ClasserRegistrationNumber Type | 1 |
| Name | M (50) | Wool Classer's Name | NameType | 1 |
| <u>Contact</u> | C | Omitted when no data to send | ContactType (See table on page 6) | 0-1 |

Quality Schemes (Wrapper Element)

(QualitySchemesType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|----------------------|-----------------------------|--|--|-----|
| <u>QualityScheme</u> | M | | QualitySchemeType (See table on page 7) | 1+ |

Quality Scheme

(QualitySchemeType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|-----------------------------|-----------------------------|---|---------------------------------|-----|
| QualitySchemeCode | M (4) | See: www.awex.com.au/standards/catalogue/ | QualitySchemeCodeType | 1 |
| QualitySchemeRegistrationID | C (8) | Registered Identification issued by the relevant accreditation or membership organisation | QualitySchemeRegistrationIDType | 0-1 |
| QualitySchemeOther | O (13) | Other detail relevant to the Quality Scheme | QualitySchemeOtherType | 0-1 |

Bins (Wrapper Element)

(BinsType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------|-----------------------------|--|----------------------------------|-----|
| <u>Bin</u> | M | | BinType (See table on page 8) | 0-1 |

Bin

(BinType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|----------------|-----------------------------|---|--------------------|-----|
| BinCode | M (5) | Bin Code, used by the wool classer. | BinCodeType | 1 |
| BinDescription | C (50) | Bin Code description, used by the wool classer. Omitted if no data to send | BinDescriptionType | 0-1 |

Mobs (Wrapper Element)

(MobsType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------|-----------------------------|--|----------------------------------|-----|
| <u>Mob</u> | M | | MobType (See table on page 9) | 1+ |

Mob

(MobType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|---------------------|-----------------------------|--|---|-----|
| MobUID | M (10) | Unique ID (Generated by Document Originator) | UIDType | 1 |
| MobNumber | M (2) | The number of the mob | MobNumberType | 1 |
| PIC | O (8) | Property Identification Code (issued in Australia by the NLIS). Omitted if no data. | PICType | 0-1 |
| AgeFrom | C (1) | Youngest age in the mob, as per NWD "Age Shearing Code" definitions. Omitted if no data. | AgeType | 0-1 |
| AgeTo | C (1) | Oldest age in the mob, as per NWD "Age Shearing Code" definitions. Omitted if no data. | AgeType | 0-1 |
| BreedGroupCode | C (2) | Breed Group Code, as per NWD definitions. Omitted if no data to send | BreedGroupCodeType | 0-1 |
| SexCode | C (1) | Sex code, as per NWD definitions. Omitted if no data to send | SexCodeType | 0-1 |
| ContactWithShedding | C (2) | (see Logic Codes 14). Omitted if no data to send | LogicCodeType | 1 |
| Crutched | C (2) | (see Logic Codes 14). Omitted if no data to send | LogicCodeType | 1 |
| CrutchedWithin3M | C (2) | (see Logic Codes 14). Omitted if no data to send | LogicCodeType | 1 |
| MulesingMobCode | M (2) | Mulesing Status of Mob as per code list (page 15) | MulesingMobCodeType | 1 |
| MulesedLambs | C (2) | (see Logic Codes 14). Omitted if no data to send | LogicCodeType | 1 |
| MulesedEwesWethers | C (2) | (see Logic Codes 14). Omitted if no data to send | LogicCodeType | 1 |
| <u>Signature</u> | C | Signature of the Owner/Manager | SignatureType (See table on page 10) | 0-1 |
| MonthsGrowth | O (2) | Months wool growth | MonthsGrowthType | 0-1 |
| EstMFD | O (4) | Estimated mean fibre diameter of mob (up to 1 decimal place allowed) | EstMFDTyp | 0-1 |
| EstVMCCode | O (3) | See code list | EstVMCCodeType | 0-1 |
| EstVMTCode | O (1) | See code list | EstVMTCodeType | 0-1 |
| EstSL | O (3) | Estimated staple length (mm) | EstSLType | 0-1 |
| EstSSCode | O (2) | See code list | EstSSCodeType | 0-1 |
| EstSheepNumber | O (5) | Estimated no of sheep in Mob | EstSheepNumberType | 0-1 |

Classes Specification (CS) XML & JSON

Version 3

| | | | | |
|------------------------------------|------------|---|--|-----|
| Comment | O (100) | Comment about Mob | CommentType | 0-1 |
| QualitySchemeCodes | C | Wrapper - holding the "QualitySchemeCode" Array Omitted if no data to send | QualitySchemeCodesType (See table on page 10) | 0-1 |

Signature

(SignatureType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------|-----------------------------|--|---|-----|
| DateTime | M (25) | Date Time Signed. | xs:dateTime (UTC with local Time Sift) | 1 |
| Signatory | M (50) | Name of the person signing the document. | SignatoryType | 1 |

QualitySchemeCodes (Wrapper Element)

(QualitySchemeCodesType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|-------------------|-----------------------------|---|-----------------------|-----|
| QualitySchemeCode | M (4) | See: www.awex.com.au/standards/catalogue/ | QualitySchemeCodeType | 1+ |

Lines (Wrapper Element)

(LinesType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------|-----------------------------|--|------------------------------------|-----|
| <u>Line</u> | M | | LineType (See table on page 10) | 1+ |

Line

(LineType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------|-----------------------------|---|----------------|-----|
| LineUID | M (10) | Unique Line Identifier (generated by Document Originator) | UIDType | 1 |
| LineNumber | M (2) | The number of the line on the specification. | LineNumberType | 1 |
| Comment | C (100) | Comment made on the line Omitted when no data to send | CommentType | 0-1 |

BalesSpecified (Wrapper Element)

(BalesSpecifiedType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|----------------------|-----------------------------|--|---|-----|
| <u>BaleSpecified</u> | M | | BaleSpecifiedType (See table on page 11) | 1+ |

BaleSpecified

(BaleSpecifiedType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|---------------------------|-----------------------------|---|--|-----|
| BaleUID | M (10) | Unique Bale identifier (created by Document Originator) | UIDType | 1 |
| BaleNumber | M (5) | The number on the bale | BaleNumberType | 1 |
| EBaleID | O (30) | Electronic Bale-ID. Unique Bar code/RFID applied to the bale | EBaleIDType | 0-1 |
| BaleDescription | M (15) | The Bale Description on the bale (alpha & spaces allowable). | BaleDescriptionType | 1 |
| ShedWeight | O (3) | Gross Weight of the bale in kilograms as recorded on farm. | ShedWeightType | 0-1 |
| PackMaterialCode | O (2) | See code list | PackMaterialCodeType | 0-1 |
| PackConditionCode | O (1) | See code list | PackConditionCodeType | 0-1 |
| ClasserRegistrationNumber | C (6) | Registered Wool Classer Stencil | ClasserRegistrationNumber Type | 0-1 |
| LineUID | M (10) | Unique Specification Line Identifier (generated by Document Originator) | UIDType | 1 |
| ConsignmentUID | O (10) | Unique ID (generated by Document Originator) | UIDType | 0-1 |
| <u>MobUIDs</u> | C | Wrapper - holding the "MobUID" Array Omitted if no data to send | MobUIDsType (See table on page 12) | 0-1 |
| <u>BinCodes</u> | C | Wrapper - holding the "BinCode" Array Omitted if no data to send | BinCodesType (See table on page 12) | 0-1 |

MobUIDs (Wrapper Element)

(MobUIDsType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------|-----------------------------|--|---------|-----|
| MobUID | M (10) | Unique ID (Generated by Document Originator) | UIDType | 1+ |

BinCodes (Wrapper Element)

(BinCodesType)

| Element Name | RD / (MaxLth) Description | | Type | Occ |
|--------------|-----------------------------|-------------------------------------|-------------|-----|
| BinCode | M (5) | Bin Code, used by the wool classer. | BinCodeType | 1+ |

Code Lists

Address Type Code

| Code | Description |
|------|-------------|
| P | Postal |
| S | Street |

Age Shearing Code

As per NWD definitions

| Code | Description |
|------|----------------------------|
| 1 | First shearing |
| 2 | Second shearing to 2 years |
| 3 | 3 years |
| 4 | 4 years |
| 5 | 5 years |
| 6 | 6 years |
| 7 | 7 years |
| 8 | 8 years and older |

Breed Group Code

As per NWD definitions

| Code | Description |
|------|-----------------|
| M | Merino |
| FO | Afrino |
| SM | SAMM |
| CD | Corriedale |
| PW | Polwarth |
| XB | Crossbred |
| DN | Downs |
| SB | Shedding Breeds |
| CW | Carpet |

Contact Type Code

| Code | Description |
|------|-------------|
| B | Business |
| H | Home |

Error Code

| Code | Description |
|------|--|
| NDTS | No Data to Send (used in a polling situation). |

Estimated Staple Strength Code

| Code | Description |
|------|--------------------|
| WT | Window Tender (14) |
| T | Tender (21) |
| PT | Part Tender (28) |
| S | Sound (35) |
| VS | Very Sound (40) |

Estimated Vegetable Matter Content Code

| Code | Description |
|------|-------------|
| FNF | FNF (<1.0%) |
| LOW | Low |
| MED | Medium |
| HI | High |
| VHI | Very High |

Estimated Vegetable Matter Type Code

| Code | Description |
|------|-------------|
| B | Burr |
| E | Seed |
| S | Shive |
| N | Noogora |
| T | Bathurst |
| M | Moit |
| F | Bogan Flea |

Logic Codes

| Code | Description |
|------|-------------|
| Y | Yes |
| N | No |

Note:

- “Three-valued” logic (true, false, unknown)
 - an optional element with a [Y / N] code,
- “Two-valued” (bivalent) logic where there is only one truth (true or false). Use either:
 - a mandatory element with a [Y / N] code, or
 - a mandatory Boolean element. However use with caution, as Boolean is not extensible.

Mulesing Mob Code

| Code | Description |
|------|--|
| NM | No sheep in this mob have been mulesed^. |
| LA | Sheep in this mob are treated with liquid nitrogen# with an analgesic product registered by APVMA |
| AA | The mob is declared as Mulesed with Analgesic &/or Anaesthetic |
| LN | Sheep in this mob are treated with liquid nitrogen#, without use of an analgesic product registered by APVMA |
| M | Mulesed – The mob is declared as Mulesed. |
| ND | Not Declared – No declaration has been made |

Pack Condition Code

| Code | Description |
|------|---|
| N | New |
| M | Used previously – no core/grab – may have previous markings |
| R | Repaired grab holes |
| X | Unrepaired grab holes |

Pack Material Code

| Code | Description |
|------|-------------------|
| N | Nylon Pack |
| E | Experimental Pack |
| J | Jute Pack |
| K | HDPE (Polly) Pack |

Sex Code

As per NWD definitions

| Code | Description |
|------|-------------|
| E | Ewes |
| M | Mixed |
| R | Rams |
| W | Wethers |

