



National Livestock
Identification System Ltd

NLIS

XML Interface Specification

Part 2 – XML Schema

Version 9.13

Last Updated 1 February 2011

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	Reviewed by:	Approved by: S. Doughty

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Change history

Version	Date	Change	By
1.0	2003	First Version	Steven Parkes
2.0	2003	Added details of XML (SOAP) Interface	Steven Parkes
2.1	2003	Added take/sell possessions to SOAP interface.	Steven Parkes
2.2	2003	Modified take/sell possession references to use standard receipt/transfer terminology	Steven Parkes
2.3	2003	Corrected field name for single form HTTP transfer (from filename to file Contents)	Steven Parkes
2.4	2003	Extended PIC validation algorithm to include new Victorian PICs	Steven Parkes
3.0	2003	Standardisation of upload file definitions across XML and HTTP. Singular upload pages for both types.	Steven Parkes
3.1	11 Feb 03	Corrected algorithm checks for Tasmanian PICs and emergency devices (any state or territory)	Steven Parkes
3.2	27 Oct 03	Added New Transactions	Steven Parkes
4.0	16 Dec- 04	Included the XML Schema V4.0 - Refer to 2.1.5	Georgina Walker
5.0	06 Jan-05	Add new Tag – Message Type (RFC220); Add New Tag – Transaction Id (RFC219) Transaction Id is not stored in the database. It is accepted with the transaction and returned in the result set;	Georgina Walker
6.0	07-Feb-05	Added documentation for NLIS SOAP elements for ERP Exceptions.	Michael Leung
7.0	08-Feb-05	Added documentation for NLIS SOAP elements for Tag Upload, New PIC uploads, and Kill Upload.	Michael Leung
7.1	15-Feb-05	Documented new tags introduced for <nlis:Query> report requests.	Michael Leung
7.1 – Part 2 <i>Iteration 9 Deploy</i>	18-Feb-05	Review changes. Split up document into 3 parts	Michael Leung
8.0 <i>Iteration 10 Deploy</i>	29-Mar-05	Added authorisation level to P2Ptransfers. Final release of XML Schema version 1.0 for namespace nlis:.* Updated formatting for release	Michael Leung
8.1	4-Apr-05	- Removed <nlis:authorisation-level> from P2Ptransfers.	Michael Leung

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		- Added a new XML Method: TpartyP2Ptransfers. - Added <nlis:authorisation-level>, <nlis:authoriser-firstname>, <nlis:authoriser-lastname> to TpartyP2Ptransfers. - Replaced <nlis:upload-id> with <nlis:transaction-id> for report query SOAP responses (See <nlis:lodgement-result-grp>).	
8.2		- Moved <nlis:authorisation-level>, <nlis:authoriser-firstname>, <nlis:authoriser-lastname> from <nlis:TpartyP2Ptransfer> to <nlis:nvd-grp> in <nlis:TpartyP2Ptransfer>.	Michael Leung
8.3	7-Apr-05	- Elaborated on <nlis:transaction-name>.	Michael Leung
8.4	13-Apr-05	- Added <nlis:RetrieveResults> SOAP transaction.	Michael Leung
8.5	15-Apr-05	- Added <nlis:disclaimer-accepted> XML field.	Michael Leung
8.6	20-Apr-05	- Replaced <nlis:originator> with <nlis:originator-grp>. - Added <nlis:SDAPICDetails> SOAP transaction and related XML fields for PIC Register.	Michael Leung
8.7	22-Jun-05	- Added the following SOAP methods and elements relevant to each of the methods: * <nlis:MOBBasedInTransfer> * <nlis:MOBBasedOutTransfer> * <nlis:ManualKillUpload>	Michael Leung
8.8	29-Jun-05	Update for Manual Kill Upload schema change.	Michael Leung
8.9	19-Sep-05	Added processing-mode flag	Brian Tanedo
8.10	22-Sep-05	Added <nlis:update-timestamp> to <nlis:SDAPICDetails>. Added <nlis:DeceasedTransfer> SOAP method and its relevant elements.	Michael Leung
8.11	21 October 2005	Updated several fields in <nlis:pic-details> to mandatory	Jo Quigley
8.12	18-Nov-05	Added new extended status query result elements	Brian Tanedo
8.13	21-Nov-05	Added new PIC Species for Pigs. Included Codes for PIC Type. Updated several fields in <nlis:pic-details> to mandatory or optional.	Jo Quigley
8.14	21-Dec-05	- Added the following SOAP methods and elements relevant to each of the methods: * <nlis:ErpStatusUpload> * <nlis:TagStatusUpload> * <nlis:DeviceStatusInPICUpload>	Michael Leung
8.15	17-Jan-06	Edited PIC Register Upload description	Michael Leung
8.16	20-Jan-06	Added NLIS SOAP method for ReplacedTags (<nlis:ReplacedTag>).	Michael Leung
8.17	08-Feb-06	Added Beast Report query.	Michael Leung

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8.18	07-Mar-06	Added a new section: Large Reports Handling.	Michael Leung
8.19	04-Apr-06	Updated PIC Register Upload field description. Added a discussion on how to submit SOAP Provided sample source code for submitting SOAP uploads.	Michael Leung
8.20	19-May-06	Added <nlis:status-query-grp> element	Brian Tanedo
8.21	27-June-06	* In PIC register, the fields PIC Name, PIC Address line 1, 2, 3, previously optional for inactive PICs are now optional for disbanded PICs. * In report queries, the report query element <nlis:sub-type> now refers to "ReportQueryName" in "Reports available for this account".	Michael Leung
8.22	15-Aug-06	Added schema changes for new transaction type: TransferCorrection	Brian Tanedo
8.23	25-Aug-06	Added schema changes for new transaction type: NVDWaybill upload	Michael Leung
8.24	28-Aug-06	Added schema for new transaction type: Optional Animal Information	Jason Zhang
8.25	17-Nov-06	Modified <nlis:correct-data-grp>, removed nlisid and rfid elements	Brian Tanedo
8.26	8-Jan-07	Added elements for "deceased device enquiry" queries.	Brian Tanedo
8.27	31-Jan-07	Added elements for LPA serial number uploads	Stuart Hume
9.0	19-Mar-07	LPA Serial Number Upload Transaction Added Way Bill / NVD Answers Added	Stuart Hume
9.1	8-Jun-07	Modified the description of the XML method <nlis:ManualKillUpload> Added an optional element <nlis:nvd> to the group <nlis:bodyno-tag-grp> of the XML method <nlis:ManualKillUpload>	Dorathy Chow
9.1	18-Jun-07	Modified the description of <nlis:tagtype-id> for new device uploads, to include the codes C and F for rumen capsules. Modified the description of <nlis:tag-colour>, the code for orange was incorrectly referred to as B instead of O.	Jo Quigley
9.1	19-Jun-07	Modified the description of <nlis:bodyno-tag-grp> under <nlis>manual-kill-upload-grp> of the XML method <nlis:ManualKillUpload>	Dorathy Chow
9.2	23-July-07	Refined NVD data type	Binh Tham
9.2	23-July-07	Revised "Optional Animal Information" transaction	Binh Tham
9.3	23-Oct-07	Modified schema reference in sample source code from http://www.nlis.com.au/soap/ver1.0/nlis-soap.xsd to http://www.nlis.com.au/soap/ver2.0/nlis-soap.xsd .	Michael Yoo
9.4	11-Mar-08	Inserted NVD Add/Modify Image Upload XML	Nestor Jimenez

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Version	Date	Change	By
		Field Description	
9.4	11-Mar-08	Inserted NVD Add/Modify Upload XML Field Description	Nestor Jimenez
9.4	11-Mar-08	Updated NVD Add/Modify Generic Waybill Upload XML Field Description	Nestor Jimenez
9.4	11-Mar-08	Inserted NVD Delete XML Field Description	Nestor Jimenez
9.4	14-April-08	Inserted naming restrictions to <nlis:filename> description	Michael Yoo
9.4	22-July-08	Inserted namespace definitions and “How to submit” description for NVD SOAP transaction requests.	Michael Yoo
9.5	12-Aug-08	Updated URL of NVD SOAP uploads for staging and production.	Michael Yoo
9.5	12-Aug-08	New SightedCattleUpload transaction	Binh Tham
9.5	12-Aug-08	Modified TransferCorrection to include SightedCattleUpload	Binh Tham
9.6	1-Oct-08	Inserted NVD Download XML Field Description	Nestor Jimenez
9.6	12-Dec-08	New PBT serial number upload transaction	Michael Yoo
9.6	12-Dec-08	Added PBT serial number field to Third part P2P transaction	Michael Yoo
9.7	20-Jan-09	Add new group for additional from PICs on NVD Transactions: NVDUpload and NVDImageUpload	Nestor Jimenez
9.8	02-May-09	Updated the NVD delete XML schema Updated the NVD Add/Modify transaction to NVD Add	Shamim Akm
9.8	05-Jul-09	Updated NVD transaction XML schema	Shamim Akm
9.8	6-Jul-09	Updated the NVD download XML schema	Nestor Jimenez
9.9	08-Oct-09	Added Recovered Device upload transaction schema	Shamim Akm
9.10	17-Dec-09	Added Mob-based Kill Upload transaction Added Mob-based Movement Off PIC transaction Added Monb-based Movement Onto PIC transaction	Shamim Akm
9.11	04-June-10	Added Mob-based Movement Non written Authority transaction Carcase Feedback Upload	Shamim Akm
9.12	10-Nov-10	Added brand information to PIC Register Uploads Updated URLs to show use of SSL	Stephen Doughty
9.13	1-Feb-11	Added Comment to Device Status Added Comment to ERP Status for properties	Aaron Kwan

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Signoff / Approval to Proceed

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Overview

This document describes NLIS SOAP transactions and XML elements used by the transactions in NLIS SOAP requests and responses in both NLIS namespace version 1.0 and version 2.0. Iteration 10 was the last release of version 1 namespace. At present, the system accepts and processes NLIS SOAP requests in both versions of the NLIS namespace. It will be rare when a schema version will no longer be supported, and this will be notified well in advance of its removal. The document version number is NOT correlated to the schema versions, several changes to the document will result in one schema version change.

In order to use this, developers should be familiar with SOAP, XML and XSD type files and protocols.

XML Methods provides a description of the different types of transactions. A SOAP request requires a SOAP header and a SOAP body. All NLIS XML elements referenced in the SOAP request must be qualified by a NLIS namespace (see *NLIS Namespace*).

XML Field Details provides a description of XML elements that appear in each transaction type.

XML Group Tags details XML elements that serve to group other XML elements.

XML Results details the XML elements returned in NLIS SOAP responses.

Developers are referred to *NLIS XML Interface Specification Part 1 – Interface Specifications* for information on how to submit a transaction in the SOAP Format, via file upload or via the website manual entry screens.

Developers are referred to *NLIS XML Interface Specification Part 3 – Example Files* for samples of NLIS SOAP requests and responses.

SOAP transactions that reference new NLIS XML elements introduced in a later version of the XML schema must qualify all such elements in that transaction with the namespace of the later version.

SOAP transactions that reference NLIS XML elements common to both an earlier and later version of the schema may qualify all such elements in that transaction with the namespace of either version. However, it is strictly disallowed to have NLIS XML elements from different NLIS namespace versions in one SOAP transaction.

For any further queries, please contact Stephen Doughty via email at sdoughty@mla.com.au.

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NLIS XML Fields

- Updated Iteration X – This is the release iteration of that particular element into the production systems and schemas
- Ignored – Means that the field (element) may be used, but the contents, although used in processing, are NOT stored in the database, and therefore not persistent

Other schemas required are:

- SOAP Definitions
- W3C XML Element Definitions

NLIS Namespace

All XML elements that appear in this document are defined under NLIS namespace version 2.0. The namespace URL for version 2.0 is <http://www.nlis.com.au/soap/ver2.0/nlis-soap.xsd>. The NLIS namespace URL for the previous version (1.0) is <http://www.nlis.com.au/soap/ver1.0/nlis-soap.xsd>. SOAP transactions defined under NLIS namespace version 1.0 are also defined in NLIS namespace version 2.0.

Version 2.1 of the NLIS namespace was developed specifically to handle mob-based movements and the upload of image files. It is a much smaller schema to improve the performance of these transactions.

The following table outlines which SOAP transactions are defined in each namespace.

SOAP transactions for NLIS	Namespace Version		
	1.0	2.0	2.1
TagUpload	✓	✓	
KillUpload	✓	✓	
P2Ptransfer	✓	✓	
NewPics	✓	✓	
SaleyardIn	✓	✓	
SaleyardOut	✓	✓	
ErpStatusUpload	✓	✓	
TagStatusUpload		✓	
ErpException	✓	✓	
ReplacedTag		✓	
Query	✓	✓	
SDAPICDetails		✓	
TpartyP2Ptransfer	✓	✓	
RetrieveResults	✓	✓	
MOBBasedInTransfer		✓	
MOBBasedOutTransfer		✓	
ManualKillUpload		✓	
DeceasedTransfer		✓	
DeviceStatusInPICUpload		✓	
TransferCorrection		✓	

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SOAP transactions for NLIS	Namespace Version		
	1.0	2.0	2.1
Optional Animal Information		✓	
LPASerialNumberUpload		✓	
Sighted Cattle Upload		✓	
PBT serial number upload		✓	
NVD Add Generic Waybill Upload		✓	
NVD Add Image Upload		✓	
NVD Add Upload		✓	
NVD Delete		✓	
NVD Download		✓	
Recovered Device Upload		✓	
Mob-based Kill Upload			✓
Mob-based Movement Off PIC			✓
Mob-based Movement Onto PIC			✓
Mob-based Movement Non-Written Authority			✓
Carcase Feedback Upload		✓	✓

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XML Fields

Optional XML Fields

Optional XML fields should be omitted from the XML SOAP request when there is no data value provided for it. An empty optional XML field is likely to trigger bad format errors. This is because the database would assume that the request is attempting to provide a value for that field and it would apply the relevant validation algorithm to check for its data format. If an empty string is not a valid value for that element, a bad format error will occur. The lodger will be notified of such errors via email.

Optional XML fields are explicitly stated as optional, in XML field description.

XML Field Description

The following are the individual tags in each complex type and simple element in the NLIS schemas.

Notes	XML Field Tag	Description
SOAP Header contents		
	<nlis:filename>	This is the name of the file and is used so that the information passed in the query can be stored on the database for later retrieval. At present all transactions or files that are stored are simply given a name such as XML Upload, which makes it difficult to find the results of a file upload if required. A filename can be attached to the entire file. The <nlis:filename> field has the following restrictions placed: 1. Type: string 2. Accepts characters: a-z, A-Z, 0-9 and spaces only 3. Accepted file extensions: csv, CSV, txt, TXT 4. Max length: 249 This element is optional .
	<nlis:create-date>	Creation date – the creation date of the file or transaction Must be 8 characters and in the format YYYYMMDD where YYYY is the year, MM is the month and DD is the day. Must be numeric.
	<nlis:create-time>	Creation time – the creation time of the file or transaction. Must be 6 characters and in the format HHMMSS. Must be numeric.
	<nlis:sware-vendor>	Software vendor name. This can accept at most 16 alphanumeric characters. This is optional .
	<nlis:swuid>	Software vendor id. Valid values range from 0 to 999. This is optional .

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	<nlis:processing-mode>	The processing mode to be used for the upload. Accepted values are: <i>async</i> , and <i>sync</i> . If set to <i>async</i> , the results for any transactions contained in the file will not be returned on-screen. Only the upload id will be returned, and the results will be emailed to the user when the transaction has been processed. If set to <i>sync</i> , the results for any transactions contained in the file will be returned on-screen. This is optional . If the element is not specified, a default value of <i>sync</i> is used.
	<nlis:originator-grp>	Refer to XML Group Tags. This is formerly <nlis:originator> in NLIS 1.0.
XML Fields in <nlis:originator-grp>		
	<nlis:user>	NLIS User Id – this is the user id to the NLIS system. Must be 8 characters in length. Can consist of alphas A-Z or numbers 0-9.
	<nlis:password>	NLIS Password – this is the user password to the NLIS system
	<nlis:email>	Identifies the email address of the user that originated the transaction or query.
XML Fields in <nlis:message-grp>		
	<nlis:type>	The message type is returned for each record as the result of an update and specifies the type of message for each record. It will have one of the following values: - Information (no action to be taken) - Warning (the transaction goes through but violates one or more business rules) - Error (nothing was modified in the database)
	<nlis:message-no>	A number that identifies the message presented in <nlis:text>.
	<nlis:action>	Action required to be taken by the user as a result of an update.
	<nlis:text>	Refer to Shared XML Fields.
XML fields in <nlis:nvd-grp>		
	<nlis:nvd-serial-no>	The NVD serial number. Must be 15 characters in length. Can consist of alphas A-Z or digits 0-9.
	<nlis:pic>	Refer to Shared XML Fields. For P2PTransfer, this field also accept a SaleyardID value.
	<nlis:tag-list-grp>	Refer to XML Group Tags.
	<nlis:authorisation-level>	This is only required when <nlis:nvd-grp> is in <nlis:TPartyP2PTransfer>. Specifies the level of authorisation given by a third party to perform a Producer Transfer transaction. This can be: 0 - Not authorised; or 1 - Source PIC or vendor; or 2 - Destination PIC or buyer; or 3 - Other or both source PIC and destination PIC.

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	<nlis:authoriser-firstname>	This is only required when <nlis:nvd-grp> is in <nlis:TPartyP2PTransfer>. First name of the authoriser who assigns the authority specified in <nlis:authorisation-level>. This accepts at most 50 alphanumeric characters.
	<nlis:authoriser-lastname>	This is only required when <nlis:nvd-grp> is in <nlis:TPartyP2PTransfer>. First name of the authoriser who assigns the authority specified in <nlis:authorisation-level>. This accepts at most 50 alphanumeric characters.
	<nlis:disclaimer-accepted>	This is only required when <nlis:nvd-grp> is in <nlis:TPartyP2PTransfer>. This field must be set to 1.
XML Fields in <nlis:pic-list-grp>		
	<nlis:pic>	Refer to Shared XML Fields.
XML Fields in <nlis:tag-list-grp>		
	<nlis:nlisid>	Refer to Shared XML Fields.
	<nlis:rfid>	Refer to Shared XML Fields.
XML Fields in <nlis:tag-eu-grp>		
	<nlis:pic>	Refer to Shared XML Fields.
	<nlis:rfid>	Refer to Shared XML Fields.
	<nlis:nlisid>	Refer to Shared XML Fields.
	<nlis:text>	Refer to Shared XML Fields.
XML Fields in <nlis:tag-ext-grp>		
	<nlis:program-code>	The program code of the extended status.
	<nlis:status>	The extended status assigned to the animal being queried.
	<nlis:message>	A brief description of the extended status.
XML Fields in <nlis:free-text-grp>		
	<nlis:selling-pen>	The selling pen is either passed in the free format field or as a separate field. This is used to identify which pen the animal was in when it was sold.
	<nlis:sex>	The sex is either passed in the free format field or as a separate field. This is used to identify what sex the animal is.
	<nlis:selling-agent>	The selling agent is either passed in the free format field or as a separate field. This is used to identify which agent sold this animal.
	<nlis:breed>	The breed is either passed in the free format field or as a separate field. This is used to identify what breed the animal is.
	<nlis:selling-lot>	The selling lot number is either passed in the free format field or as a separate field. This is used to identify which sales lot the animal was in when sold.
	<nlis:vendor-number>	The vendor number is either passed in the free format field or as a separate field. This is used to identify which vendor number sold this animal.
	<nlis:paint-marks>	The paint marks are either passed in the free format field or as a separate field. This is used to identify which the paint marks on the animal when sold.
	<nlis:sell-lot-qty>	The selling quantity is either passed in the free format field or as a separate field. This is used to identify the number of animals in the lot that was sold.
	<nlis:location>	The location where the sale occurred.

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XML Fields in <nlis:lodgement-result-grp>		
	<nlis:upload-id>	A unique identifier for a report query SOAP upload. This has been replaced by <transaction-id>.
	<nlis:transaction-id>	Refer to Shared XML Fields.
	<nlis:transaction-type>	Refer to Shared XML Fields.
	<nlis:text>	Refer to Shared XML Fields.
XML fields in <nlis:SaleyardOut> (SaleyardOut uploads)		
	<nlis:transaction-name>	Refer to Shared XML fields.
	<nlis:saleyard-name>	Refer to Shared XML Fields.
	<nlis:saleyard-id>	Refer to Shared XML Fields.
	<nlis:sale-date>	Refer to Shared XML Fields.
	<nlis:sale-title>	Refer to Shared XML Fields.
	<nlis:sale-lot-grp>	Refer to XML Group tags.
XML Fields in <nlis:SaleyardIn> (SaleyardIn uploads)		
	<nlis:transaction-name>	Refer to Shared XML fields.
	<nlis:saleyard-name>	Refer to Shared XML Fields.
	<nlis:saleyard-id>	Refer to Shared XML Fields.
	<nlis:sale-date>	Refer to Shared XML Fields.
	<nlis:sale-title>	Refer to Shared XML Fields.
	<nlis:nvd-grp>	Refer to XML Group Tags.
XML Fields in <nlis:Query>		
	<nlis:query-type>	An alphanumeric string that describe the type of the query. Refer to XML Method for the different types of NLIS queries.
	<nlis:pic>	Refer to Shared XML Fields.
	<nlis:free-text>	Refer to Shared XML Fields.
	<nlis:tag-list-grp>	Refer to XML Group Tags.
	<nlis:pic-list-grp>	Refer to XML Group Tags.
	<nlis:killed-device-list-grp>	Refer to XML Group Tags.
	<nlis:rfid>	Refer to Shared XML Fields.
	<nlis:nlisid>	Refer to Shared XML Fields.
	<tag-ext-grp>	Refer to XML Group Tags.
	<nlis:status-query-grp>	Refer to XML Group Tags.
XML fields in <nlis:P2PTransfer> (Producer Transfer uploads)		
	<nlis:transaction-name>	Refer to Shared XML Fields.
	<nlis:transfer-date>	The date of the property to property transfer.
	<nlis:buyer-pic>	The Property Identification Code (PIC) of the buyer.
	<nlis:free-text>	Refer to Shared XML Fields.
	<nlis:nvd-grp>	Refer to XML Group Tags.
	<nlis:pbt>	The PBT serial number associated with the transfer. This is only required if the requested transfer is based on a PBT serial number.
XML Fields for ERP Exception Uploads		
	<nlis:erp-kill-code>	There are 4 different types of ERP Exceptions: INF – Information Record EXP – Exception/Trigger Exception MXID – Multiple Identification Exception UNK – Unknown Exception. This is a mandatory field. Kill codes that appear in mixed cases are tolerated. The INF type records have only 3 fields: erp-kill-code, erp-date, and erp-short-desc.
	<nlis:erp-pic>	Property Identification Code.
	<nlis:erp-rfid1>	First Radio Frequency Identification

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	<nlis:erp-nlisid1>	First NLIS Identification Number
	<nlis:erp-date>	Kill date. This is mandatory for all 4 types of ERP Exceptions and must be in YYYYMMDD format, where YYYY is the year, MM is the month and DD is the day.
	<nlis:erp-time>	Kill time. This must be in HHMMSS format. This is mandatory only if kill code is not INF.
	<nlis:erp-rfid2>	Second Radio Frequency Identification.
	<nlis:erp-nlisid2>	Second NLIS Identification Number.
	<nlis:erp-kill-id>	Body number. Must have at most 4 digits. This field is mandatory if the kill code is not INF.
	<nlis:erp-status-code>	Exception code. This field is mandatory if the kill code is not INF.
	<nlis:erp-program-code>	Program code. This field is mandatory if the kill code is not INF.
	<nlis:erp-running-count>	The number of occurrences we are into the Lots Sampling, e.g., 4 out of 10.
	<nlis:erp-total-count>	The number of ERP Exceptions that has been triggered at the property identified by nlis:erp-pic.
	<nlis:erp-sample-count>	The number of samples that are required to be taken at the property identified by nlis:erp-pic.
	<nlis:erp-required-sample>	Specifies the required testing regime, e.g., 10 for every 10th Lot.
	<nlis:erp-actual-sample>	Specifies the actual testing regime, e.g. 5 for every 5th Lot.
	<nlis:erp-state-code>	State code. Valid values are: 1,2,3,4,5,6,7,*.
	<nlis:erp-processor-type>	Processor type. Valid values are: E, e, D, d, *.
	<nlis:erp-tested>	Indicates whether testing sample is required.
	<nlis:erp-short-desc>	A mandatory short description of the ERP Exception. All leading and trailing whitespaces in short description are removed before evaluation for validity.
	<nlis:erp-long-desc>	Long description.
	<nlis:erp-sample-number>	Sample number generated by EasyCheck.
XML Fields for TagUpload		
	<nlis:transaction-name>	Refer to Shared XML Fields.
	<nlis:mid-grp>	There must be at least 1 <nlis:mid-grp> in a TagUpload.
XML Fields in <nlis:mid-grp>		
	<nlis:manufacturer-id>	Manufacturer identifier. It must have at least 1 and at most 3 uppercase characters as the identifier.
	<nlis:tag-grp>	There must be at least 1 <nlis:tag-grp> in a <nlis:mid-grp>.
XML Fields in <nlis:tag-grp>		
	<nlis:tagtype-id>	This can be either “B” (breeder ear tag), “E” (post breeder ear tag), “C” (breeder rumen capsule) or “F” (post breeder rumen capsule)
	<nlis:rfid>	Refer to Shared XML Fields.
	<nlis:nlisid>	Refer to Shared XML Fields.
	<nlis:visual-id>	The visual ID consists of at least 1 and at most 8 alphanumeric characters.
	<nlis:tag-colour>	Either “O” for orange or “W” for white.
	<nlis:issue-date>	An eight digit date, in YYYYMMDD format. This is the date on which the tag is issued.
	<nlis:pic>	Refer to Shared XML Fields.
XML Fields for NewPICS		
	<nlis:transaction-name>	Refer to Shared XML Fields.

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	<nlis:pic-grp>	There must be at least one <nlis:pic-grp> in a NewPICS upload.
XML Fields in <nlis:pic-grp>		
	<nlis:pic>	Refer to Shared XML Fields.
	<nlis:eu-status>	EU status.
	<nlis:telephone>	Telephone number. This field must contain at least 6 and at most 8 digits.
XML Fields for KillUpload		
	<nlis:transaction-name>	Refer to Shared XML Fields.
	<nlis:kill-grp>	There must be at least one <nlis:kill-grp> in a KillUpload.
XML Fields in <nlis:kill-grp>		
	<nlis:processor-id>	Processor identifier. This field must contain at least 1 and at most 15 alphanumeric characters.
	<nlis:kill-date>	An eight digit date, in YYYYMMDD format, on which the animal was killed.
	<nlis:kill-id>	Kill identifier. Must be numeric and contain at least 1 and at most 4 digits.
	<nlis:rfid>	Refer to Shared XML Fields.
	<nlis:nlisid>	Refer to Shared XML Fields.
XML Fields for NLIS Report Queries		
	<nlis:sub-type>	Used only when <nlis:query-type> is report . This specifies the report to query against via SOAP XML. The "Reports available for this account" provides a listing all available reports to an account. This report gives a mapping of the report name (as shown in the report name drop-down list) and "ReportQueryName" - the value to use in this element.
	<nlis:output-type>	Used only when <nlis:query-type> is report . This specifies the type of output. The valid values of this output are xml , csv , and html .
	<nlis:delivery-method>	Used only when <nlis:query-type> is report . This specifies the way the reports are to be presented. The valid values are email and soap .
	<nlis:param>	Used only when <nlis:query-type> is report . This must be a child of <nlis:parameter-list-grp>. This tag specifies the value of a parameter for the report identified by <nlis:sub-type>. The list of <nlis:param> are passed to the report in the order in which they are listed inside <nlis:parameter-list-grp>.
XML Fields for TPartyP2PTransfers (Third Party P2PTransfers. Applicable only to Third Parties and Agents.)		
	<nlis:transaction-name>	Refer to Shared XML Fields.
	<nlis:transfer-date>	The date of the property to property transfer.
	<nlis:buyer-pic>	The Property Identification Code (PIC) of the buyer.
	<nlis:free-text>	Refer to Shared XML Fields.
	<nlis:nvd-grp>	Refer to XML Group Tags.
XML Fields for SOAP Upload Results Retrieval (<nlis:RetrieveResults>)		
	<nlis:transaction-id-grp>	This is to specify the transaction ids for which the transaction results are to be retrieved.
XML Fields for PIC Register uploads (<nlis:SDAPICDetails>)		
	<nlis:pic-details-grp>	Refer to XML Group Tags.
	<nlis:brand-grp>	Refer to XML Group Tags.
XML Fields in <nlis:pic-details>		

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	<nlis:pic>	Property Identification Code. See Shared XML Fields for details on this field. This field is mandatory in <nlis:SDAPICDetails>.
	<nlis:pic-status>	Property status. This is a mandatory field. The value for this should be one of 'A' (Active), 'D' (Disbanded) or 'I' (Inactive) or 'G' (Amalgamated) or 'B' (Blocked).
	<nlis:pic-type>	Property type. A mandatory field that accepts a maximum of 40 alphanumeric characters. Either a full PIC Type description or an abbreviated code is accepted. The following are the valid PIC types: Crown land (CL), Saleyard (SY), Abattoir (AB), Knackery (KK), Producer (PR), Feedlot (FL), Stock Agent (SA), Showground (SG), Butcher (BU), Milk Factory (MF), Pound (PD), Port (PT), Vet Private Practice (VPP), Live import quarantine station (LI), AI centre (AI), Export Depot (ED), Transit Yards (TY). All other values will adopt a PIC type of "unknown".
	<nlis:species>	The type of animal species that the property houses. An optional tag that can accept a maximum of 5 alphabetic characters. This field typically includes, but not limited to, a combination of any of 'B' (Buffalo), 'C' (Cattle), 'S' (Sheep), 'G' (Goats), 'P' (Pigs) or 'O' (Other).
	<nlis:pic-name>	Name of the property. An optional* tag that accepts a maximum of 255 alphanumeric characters. This is the name of the property.
	<nlis:brand-code>	An optional field that accepts a maximum of 4 characters. The range of valid characters is A to Z, a-z and 0-9. Used only in WA. The first 3 characters refer to the brand itself. The final number indicates whether there is a lazy letter in the brand.
	<nlis:pic-address-line1>	Property address line 1. An optional* field that accepts a maximum of 255 characters.
	<nlis:pic-address-line2>	Property address line 2. An optional* field that accepts a maximum of 255 characters.
	<nlis:pic-address-line3>	Property address line 3. An optional* field that accepts a maximum of 255 characters.
	<nlis:pic-suburb>	Property address suburb. This field accepts a maximum of 255 characters. This field is optional only if the PIC Status is not 'I' (Inactive), otherwise it's mandatory .
	<nlis:pic-state>	Property address state. This field accepts a maximum of 28 characters. This field is optional only if the PIC Status is not 'I' (Inactive), otherwise it's mandatory .

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	<nlis:pic-postcode>	Property address postcode. This field accepts a maximum of 17 numeric characters. This field is optional only if the PIC Status is not 'I' (Inactive), otherwise it's mandatory .
	<nlis:business-name>	Name of the business entity. An optional field that accepts a maximum of 255 characters.
	<nlis:business-phone>	Business phone number. An optional field that accepts a maximum of 17 characters.
	<nlis:business-fax>	Business fax number. An optional field that accepts a maximum of 17 characters.
	<nlis:business-address-line1>	Business address line 1. An optional field that accepts a maximum of 255 characters.
	<nlis:business-address-line2>	Business address line 2. An optional field that accepts a maximum of 255 characters.
	<nlis:business-address-line3>	Business address line 3. An optional field that accepts a maximum of 255 characters.
	<nlis:business-suburb>	Business address suburb. An optional field that accepts a maximum of 255 characters.
	<nlis:business-state>	Business address state. An optional field that accepts a maximum of 28 characters.
	<nlis:business-postcode>	Business address postcode. An optional field that accepts a maximum of 17 numeric characters.
	<nlis:postal-address-line1>	Postal address line 1. An optional field that accepts a maximum of 255 characters.
	<nlis: postal -address-line2>	Postal address line 2. An optional field that accepts a maximum of 255 characters.
	<nlis: postal -address-line3>	Postal address line 3. An optional field that accepts a maximum of 255 characters.
	<nlis: postal -suburb>	Postal address suburb. An optional field that accepts a maximum of 255 characters.
	<nlis: postal -state>	Postal address state. An optional field that accepts a maximum of 28 characters.
	<nlis: postal -postcode>	Postal address postcode. An optional field that accepts a maximum of 17 numeric characters.
	<nlis:manager-firstname>	First name of the property manager. Property manager is the primary contact or person responsible for livestock. An optional field that accepts a maximum of 255 characters.
	<nlis:manager-lastname>	Last name of the property manager. An optional field that accepts a maximum of 255 characters.
	<nlis:manager-email>	Manager's email address. The portion before the "@" symbol can contain letters, numbers and underscore (_). An optional field that accepts a maximum of 255 characters.
	<nlis:manager-phone>	Manager's phone number. An optional field that accepts a maximum of 17 characters.
	<nlis:manager-fax>	Manager's fax number. An optional field that accepts a maximum of 17 characters.
	<nlis:update-timestamp>	The date and time the PIC register record was inserted/updated. Format: YYYY-MM-DD HH:MM:SS. This is an optional field.

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		<p>Optional*: At least one of the following four fields must be supplied if PIC Status is not inactive or disbanded:</p> <p><nlis:pic-name> <nlis:pic-address-line1> <nlis:pic-address-line2> <nlis:pic-address-line3></p> <p>A violation of this rule will not result in a bad file format error. Instead, this has become a business rule violation and the lodger will be notified of such via email.</p>
XML Fields in <nlis:MOBBasedInTransfer>		
	<nlis:mob-in-nvdgrp>	This element is to group together XML fields related to a MOB based receipt transfer (<nlis:MOBBasedInTransfer>). There must be at least one <nlis:mob-in-nvdgrp> in <nlis:MOBBasedInTransfer>.
XML Fields in <nlis:mob-in-nvdgrp>		
	<nlis:transfer-date>	The date of arrival of a mob of animals onto a PIC. This must be 8 characters in length and in the format YYYYMMDD.
	<nlis:cattle-count>	The number of cattle arrived on the PIC. The value of this field must be a positive integer.
	<nlis:source-pic>	Consigning PIC. This is the Property Identification Code.
	<nlis:nvd>	Vendor Declaration, weight bill or other number. This field allows for 15 alphanumeric characters.
XML Fields in <nlis:MOBBasedOutTransfer>		
	<nlis:mob-out-nvdgrp>	This element is to group together XML fields related to a MOB based Dispatch transfer (<nlis:MOBBasedOutTransfer>). There must be at least one <nlis:mob-out-nvdgrp> in <nlis:MOBBasedOutTransfer>.
XML Fields in <nlis:mob-out-nvdgrp>		
	<nlis:transfer-id-grp>	This field groups together the transfer IDs, each of which uniquely identifies a MOB based receipt. This field is optional .
	<nlis:transfer-date>	The date on which the mob of animals is transferred to the destination PIC. This must be 8 characters in length and in the format YYYYMMDD.
	<nlis:cattle-count>	The number of cattle transferred in the mob. The value of this field must be a positive integer. This field is optional .
	<nlis:to-pic>	Property Identification Code for the property onto which the mob of cattle is transferred. This field is optional .
	<nlis:nvd>	Vendor Declaration, weight bill or other number. This field allows for 15 alphanumeric characters. This field is optional .
	<nlis:mark-only>	This is to indicate if a MOB Based In transfer, as indicated by <nlis:transfer-id>, is marked as having been transferred out to another location. The value of this field can be either 0 or 1.
XML Fields in <nlis:ManualKillUpload>		

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	<nlis:manual-kill-upload-grp>	There must be at least one <nlis:manual-kill-upload-grp> in <nlis:ManualKillUpload>.
XML Fields in <nlis:manual-kill-upload-grp>		
	<nlis:kill-date>	The date on which the animal was killed. The expected date format is YYYYMMDD.
	<nlis:processor-id>	Refer to Shared XML Fields.
	<nlis:chain-no>	Refer to Shared XML Fields.
	<nlis:operator-no>	Operator number. This field accepts up to 3 alphanumeric characters.
	<nlis:bodyno-tag-grp>	This element groups together of <nlis:body-no>, <nlis:pic> and either <nlis:rfid> or <nlis:nlisid> and <nlis:nvd>.
XML Fields in <nlis:bodyno-tag-grp>		
	<nlis:body-no>	Body number. The valid range of values for body number is 0 to 9999. The body number in all <nlis:bodyno-tag-grp> must be unique in each <nlis:ManualKillUpload>.
	<nlis:pic>	Property Identification Code. See Shared XML Fields.
	<nlis:rfid>	Refer to shared XML fields. <nlis:rfid> and <nlis:nlisid> are mutually exclusive in <nlis:bodyno-tag-grp>.
	<nlis:nlisid>	Refer to shared XML fields. <nlis:rfid> and <nlis:nlisid> are mutually exclusive in <nlis:bodyno-tag-grp>.
	<nlis:nvd>	Vendor Declaration, Waybills or other number for kill upload transfers. This field allows for 15 alphanumeric characters. This field is optional .
XML Fields in <nlis:transfer-id-grp>		
	<nlis:transfer-id>	This is a number that uniquely identifies a MOB Based In Transfer. This is a positive integer.
XML Fields in <nlis:DeceasedTransfer>		
	<nlis:deceased-transfer-grp>	There must be at least one <nlis:deceased-transfer-grp> in <nlis:DeceasedTransfer>.
XML Fields in <nlis:deceased-transfer-grp>		
	<nlis:transfer-date>	The date on which the transfer of the deceased livestock occurs. Date format: YYYYMMDD.
	<nlis:processor-id>	Refer to Shared XML Fields.
	<nlis:chain-no>	Refer to Shared XML Fields.
	<nlis:dest-pic>	Property Identification Code. The property to which a deceased livestock is transferred.
	<nlis:kill-date>	The date on which the deceased livestock was killed. Date format: YYYYMMDD.
	<nlis:nvd-grp>	This element groups together all tags (as specified in <nlis:bodyno-tag-grp>) transferred from the same property (as specified in <nlis:pic>) using the same National Vendor Declaration number (as specified in <nlis:nvd-serial-no>).
XML Fields in <nlis:nvd-grp> in <nlis:DeceasedTransfer>		
	<nlis:nvd-serial-no>	National Vendor Declaration number. This field allows for 15 alphanumeric characters.
	<nlis:pic>	Property Identification Code. The property from which a deceased livestock is transferred.

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	<nlis:bodyno-tag-grp>	This element groups together <nlis:body-no>, <nlis:rfid> or <nlis:nlsid>. There must be at least one <nlis:bodyno-tag-grp> in <nlis:nvd-grp>.
XML Fields in <nlis:bodyno-tag-grp> in <nlis:DeceasedTransfer>		
	<nlis:body-no>	Refer to Shared XML Fields.
	<nlis:rfid>	Refer to Shared XML fields. <nlis:rfid> and <nlis:nlsid> are mutually exclusive in <nlis:bodyno-tag-grp>.
	<nlis:nlsid>	Refer to shared XML fields. <nlis:rfid> and <nlis:nlsid> are mutually exclusive in <nlis:bodyno-tag-grp>.
XML Fields in <nlis:ErpStatusUpload>		
	<nlis:erp-status-grp>	There must be at least one <nlis:erp-status-grp> in <nlis:ErpStatusUpload>.
XML fields in <nlis:erp-status-grp>		
	<nlis:pic>	The PIC Code for the property to which an ERP status is assigned. See Shared XML Fields for details on its data format.
	<nlis:program-code>	The ERP program code to assign to the PIC.
	<nlis:status-code>	The ERP status code to assign to the PIC.
	<nlis:status-date>	The date on which the ERP status will become effective and remain so until <nlis:status-duration> is elapsed or until overwritten by a subsequent <nlis:ErpStatusUpload>. Format: YYYYMMDD.
	<nlis:pmp-signed-date>	The date when the Program Management Plan (PMP) is signed. This is required for Program Code = NORM and Status Code = R only. Format: YYYYMMDD.
	<nlis:last-audit-date>	The date of last PMP/PMR audit. This is required for Program Code = NORM and Status Code = R only. Format: YYYYMMDD
	<nlis:audit-frequency>	Recommended audit frequency in days. This is required for Program Code = NORM and Status Code = R only. Format: integer.
	<nlis:comments>	<nlis:comments> - Optional . Free text to record information relevant to transaction.
XML in <nlis:TagStatusUpload>		
	<nlis:status-change>	There must be at least one <nlis:status-change> element in <nlis:TagStatusUpload>.
XML in <nlis:status-change>		
	<nlis:rfid> or <nlis:nlsid>	The RFID or NLISID of the device to apply the health status to.
	<nlis:aqis-code>	Tag health program code.
	<nlis:display-code>	Tag health status code.
	<nlis:commence-date>	The date on which the health status comes into effect. This field is optional . This defaults to the date the file get processed if not provided. Format: YYYYMMDD.

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	<nlis:on-off>	Indicates whether to turn on or turn off the health status. Valid values are "ON", "OFF".
	<nlis:comments>	<nlis:comments> - Optional . Free text to record information relevant to transaction.
	<nlis:duration-days>	The number of days that that health status is to remain attached to the device starting from <nlis:commence-date>. This field is optional . This defaults to infinity if no value is provided. Format: integer.
	<nlis:exposure-date>	Date of the first known RAM exposure. This field is optional . This is required only when program code = RAM and status code = F1 only. Format: YYYYMMDD.
XML in <nlis:DeviceStatusInPICUpload>		
	<nlis:devicestatus>	There must be at least one <nlis:devicestatus > element in <nlis:DeviceStatusInPICUpload>.
XML in <nlis:devicestatus>		
	<nlis:pic>	Those devices on this PIC and those that move onto this PIC will adopt a new device status as specified by <nlis:aqis-code> and <nlis:display-code>.
	<nlis:aqis-code>	Tag health program code.
	<nlis:display-code>	Tag health status code.
	<nlis:on-off>	Indicates whether to turn on or turn off the health status. Valid values are "ON", "OFF".
	<nlis:currentholding-rate>	The percentage of devices currently on this PIC to have extended status. Format: A decimal number ranging from 0 to 1 inclusive. For example, a value of 0.1 denotes 10%.
	<nlis:onto-rate>	The percentage of livestock that move onto the PIC to have extended status. Format: A decimal number ranging from 0 to 1 inclusive. For example, a value of 0.1 denotes 10%.
	<nlis:duration>	The number of days that the status is to remain attached to the device after it moves off the PIC. Format: Positive integer.
XML in <nlis:ReplacedTag>		
	<nlis:replace-date>	The date on which one tag is replaced with another.
	<nlis:replacetag-grp>	Each <nlis:replacetag-grp> specifies a replacement of one tag with another. There must be at least one <nlis:replacetag-grp> in each <nlis:ReplacedTag>.
XML in <nlis:replacetag-grp>		
	<nlis:old-nlisid>	NLISID of the tag to be replaced. Only one of <nlis:old-nlisid> and <nlis:old-rfid> can be specified in <nlis:replacetag-grp>.
	<nlis:old-rfid>	RFID of the tag to be replaced.
	<nlis:new-nlisid>	NLISID of the new tag. Only one of <nlis:new-nlisid> and <nlis:new-rfid> can be specified in <nlis:replacetag-grp>.
	<nlis:new-rfid>	RFID of the new tag.
XML in <nlis:TransferCorrection>		

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	<nlis:correction-transaction-grp>	Each correction-transaction-grp contains a group of elements that represent the list of transfers that need to be corrected that belong to the same upload/transaction
XML in <nlis:correction-transaction-grp>		
	<nlis:transaction-id>	The upload id of the upload that the transfers to be corrected belong to. Format: Positive integer
	<nlis:transaction-type>	The transaction type of the upload that the transfers to be corrected belong to. Accepted values are: P2PTransfer, SaleyardIn, SaleyardOut, TPartyP2PTransfer, MOBBasedInTransfer, MOBBasedOutTransfer
	<nlis:correction-data-grp>	Each correction-data-grp contains the details of the transfer to be corrected, as well as the correct data.
XML in <nlis:correction-data-grp>		
	<nlis:correction-type>	The type of correction that needs to be applied. UPDATE should be specified if the transfer details need to be updated or DELETE should be specified if the transfer needs to be deleted.
	<nlis:original-data-grp>	Contains the details of the transfer to be corrected
	<nlis:correct-data-grp>	Contains the data to be used to correct the transfer. Optional if the correction type specified is DELETE.
XML in <nlis:original-data-grp>		
	<nlis:nlisid>	NLISID of the tag that was transferred. Can be omitted if <nlis:rfid> is provided or if the transaction-type is MOBBasedInTransfer or MOBBasedOutTransfer
	<nlis:rfid>	RFID of the tag that was transferred. Can be omitted if <nlis:nlisid> is provided or if the transaction-type is MOBBasedInTransfer or MOBBasedOutTransfer
	<nlis:transfer-date>	The date the transfer occurred. Format: yyyyymmdd
	<nlis:destination>	The destination PIC or Saleyard ID of the transfer
	<nlis:nvd-serial-no>	The vendor declaration used in the transfer
	<nlis:source>	The source PIC or Saleyard ID of the transfer
	<nlis:cattle-count>	The number of cattle transferred. Can be omitted if the transaction-type is not MOBBasedInTransfer or MOBBasedOutTransfer
	<nlis:comments>	Maximum 255 alphanumeric characters and spaces to be accepted
XML in <nlis:correct-data-grp>		
	<nlis:transfer-date>	The date the transfer occurred. Format: yyyyymmdd
	<nlis:destination>	The destination PIC or Saleyard ID of the transfer
	<nlis:nvd-serial-no>	The vendor declaration used in the transfer
	<nlis:source>	The source PIC or Saleyard ID of the transfer
	<nlis:cattle-count>	The number of cattle transferred. Can be omitted if the transaction-type is not MOBBasedInTransfer or MOBBasedOutTransfer
	<nlis:comments>	Maximum 255 alphanumeric characters and spaces to be accepted
XML in <nlis:LPAUpload>		
	<nlis:lpa-upload-record>	Mandatory: The actual individual records to be uploaded as part of this transaction group. Must have at least one <nlis:lpa-upload-record>

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XML in <nlis:lpa-upload-record>		
	<nlis:issue-date>	Mandatory; The date the NVDs were issued. Format: yyyymmdd
	<nlis:issue-PIC>	Mandatory: The PIC the numbers were issued to
	<nlis:vd-type>	Mandatory: Vendor Dec Type – EUVD, NVD
	<nlis:start-char>	Optional. If vendor dec number starts with an alphanumeric, this is it.
	<nlis:start-number>	Mandatory: The first number in the sequence
	<nlis:end-number>	Mandatory: The last number in the sequence
	<nlis:species>	Optional: The species this vendor declaration is for. Cattle, Sheep,Pigs, Goats
XML in <nlis:NVDGenericWaybillUpload>		
	<nlis:NVDGenericWaybill>	Mandatory. Contains multiple instances of the <nlis:NVDGenericWaybill> element which is currently limited to <lpa-nvd> elements.
	<nlis:lpa-nvd>	Mandatory. Covers all data on the NVD. Contains: <nlis:nvd-waybill-form-transfer-details> <nlis:nvd-waybill-form-details> - Optional. Has not been implemented at this stage.
	<nlis:nvd-waybill-form-transfer-details>	This contains 2 mandatory sections: <nlis:nvd-transfer-details> - summary of transfer. <nlis:nvd-transfer-answers> - answers regarding the transfer.
	<nlis:nvd-transfer-details>	Mandatory. Contains answers to questions. Elements include: <nlis:version> - the version of the VD <nlis:src-pic> - the source PIC code <nlis:destination-pic> - Optional. Refer to Shared XML Fields <nlis:nvd> - Refer to Shared XML Fields. <nlis:vd-type> - Optional. Refer to Shared XML Fields. <nlis:species> - Optional. Refer to Shared XML Fields. <nlis:total-animals> - total number of animals on this VD <nlis:total-tagged> - total number of animals with with an NLIS device (should equal total animals). <nlis:rumenbolus-count> - Optional. Refer to Shared XML Fields. <nlis:total-non-tagged> - number of cattle without an NLIS device.
	<nlis:nvd-transfer-answers>	Mandatory. Contains answers to questions. Elements include: <nlis:lifetime-traceable> - Optional. Refer to Shared XML Fields. <nlis:hgp-treated> Refer to Shared XML Fields. <nlis:in-qa-program> Refer to Shared XML Fields. <nlis:breeded-on-vendor-pic> Refer to Shared XML Fields. <nlis:most-recent-purchase-time> Refer to Shared XML Fields. <nlis:had-by-product-stockfeeds> Refer to Shared XML Fields. <nlis:once-on-erp-pic> Refer to Shared XML Fields. <nlis:in-whp-esi> Refer to Shared XML Fields. <nlis:had-stockfeed-in-whp> Refer to Shared XML Fields. <nlis:grazed-in-endosulfan-spray-risk> Refer to Shared XML Fields.
XML in <nlis:opt-animal-info>		
	<nlis:nlisid>	NLISID of the tag that was assigned. Can be omitted if <nlis:rfid> is provided. Multiple devices having same information can be submitted by sending multiple <nlis:nlisid> or <nlis:rfid>

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	<nlis:rfid>	RFID of the tag that was assigned. Can be omitted if <nlis:nlsid> is provided. Multiple devices having same information can be submitted by sending multiple <nlis:nlsid> or <nlis:rfid>
	<nlis:op-type>	Mandatory. Type of transaction event. Valid values are A(addition), D(deletion) or M(modification)
	<nlis:verified-flag>	Mandatory. 1 to accept or any other value to decline the following disclaimer: "I verify that I have documentation to support the information being recorded."
	<nlis:birthday>	Optional. Valid formats are: - DD/MM/YYYY, or - MM/YYYY, or - YYYY, or - DD/MM/YYYY DD/MM/YYYY
	<nlis:sex>	Optional. This specifies animal's sex. . Refer to <Appendix C> in < NLIS Interface Specification Part 1> document.
	<nlis:breed>	Optional. Breed of animal, maybe up to 4 breeds. Refer to <Appendix C> in < NLIS Interface Specification Part 1> document. Multiple breeds can be submitted by sending multiple breed values delimited by spaces.
	<nlis:animal-color>	Optional. Colour of animal(free text, up to 20 characters)
	<nlis:alter-id>	Optional. Alternate Identifier. (16 character string)
	<nlis:free-comment>	Optional. Any text. 32 character string
XML in <nlis:killed-device-list-grp>		
	<nlis:establishment-number>	The establishment number of the abattoir that processed the animal. Alphanumeric, 7 characters.
	<nlis:kill-date>	The kill/decease date of the animal. Valid format is YYYYMMDD.
	<nlis:killed-device-grp>	Groups <nlis:tag> elements
XML in <nlis:killed-device-grp>		
	<nlis:tag>	Each <nlis:killed-device-grp> contains one or more <nlis:tag> elements. Each <nlis:tag> element has the following attributes: body-number – Numeric 0 - 9999 lot-number - Optional. Alphanumeric 1-6 characters
XML in <nlis:NVDUpload>		
	<nlis:NVDMovementGroup>	Mandatory. Contains multiple instances of the <nlis:NVDMovementGroup> element and is divided into 3 sections: <nlis:NVD-Movements-Details> <nlis:nvd-selling-agent-grp> <nlis:nvd-destination-grp>

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	<nlis:NVD-Movements-Details>	<p>Mandatory. Contains general information regarding the movements. It includes:</p> <p><nlis:species> - Refer to Shared XML Fields. <nlis:transfer-date> - Refer to Shared XML Fields. <nlis:from-pic> - FROM PIC <nlis:nvd> - NVD serial number. <nlis:num-head> - Number of head on NVD <nlis:saleyard-ID> or <nlis:saleyard-pic> - Optional. Only required when the uploading account is a saleyard. Refer to Shared XML Fields. <nlis:nvd-comment> - Optional. Free text field to allow agent or saleyard to record lot information. <nlis:bred-on-vendor-pic> - Optional question. This also contains two elements. <nlis:answer> Y/N <nlis:time-since-purchase> A/B/C/D, where: A = Less than 2 months, B = 2-6 months, C = 6-12 months and D = More than 12 months</p> <p>It also contains the 2 groups:</p> <ol style="list-style-type: none"> <nlis:nvd-selling-agent-grp> <nlis:nvd-destination-grp>
	<nlis:nvd-selling-agent-grp>	<p>Optional. Contains multiple instances of <nlis:nvd-selling-agent-grp> elements. It includes:</p> <p><nlis:selling-agent> - User ID of the selling agent</p>
	<nlis:other-from-pic-grp>	<p>Optional. Contains multiple instances of <nlis:other-from-pic-grp> elements. It includes:</p> <p><nlis:other-from-pic> - Additional From PIC</p>
	<nlis:nvd-destination-grp>	<p>Mandatory. Contains multiples instances of <nlis:nvd-destination-grp> elements. It includes:</p> <p><nlis:to-pic> - TO PIC <nlis:to-pic-num-head> - Number of head going to TO PIC</p>
	<nlis:post-breeder-grp>	<p>Optional. Contains multiple instances of <nlis:pic> and <nlis:serial-no></p>
XML in <nlis:NVDImageUpload>		

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	<nlis:NVD-Transfer-Details>	<p>Mandatory. Contains multiple instance of <nlis:NVD-Transfer-Details> element. Contains the following:</p> <p><nlis:species> - Refer to Shared XML Fields. <nlis:transfer-date> - Refer to Shared XML Fields. <nlis:from-pic> - FROM PIC <nlis:nvd> - NVD serial number. <nlis:image-file-name> - User's image file name. <nlis:image> - Image scan of NVD <nlis:num-head> - Number of head on NVD <nlis:saleyard-ID> or <nlis:saleyard-pic> - Optional. Only required when the uploading account is a saleyard. Refer to Shared XML Fields.</p> <p><nlis:nvd-comment> - Optional. Free text field to allow agent or saleyard to record lot information. <nlis:bred-on-vendor-pic> - Optional question. This also contains two elements. <nlis:answer> Y/N <nlis:time-since-purchase> A/B/C/D, where: A = Less than 2 months, B = 2-6 months, C = 6-12 months and D = More than 12 months</p> <p>It also contains the 4 groups:</p> <ol style="list-style-type: none"> 1. <nlis:nvd-other-image-grp> 2. <nlis:nvd-selling-agent-grp> 3. <nlis:nvd-destination-grp> 4. <nlis:post-breeder-grp>
	<nlis:nvd-other-image-grp>	<p>Optional. Contains multiple instances of <nlis:nvd-other-image-grp> element. Contains the following:</p> <p><nlis:other-image-file-name> - user's image file name. <nlis:other-image> - other images to be included in the upload</p>
	<nlis:nvd-selling-agent-grp>	<p>Optional. Contains multiple instances of <nlis:nvd-selling-agent-grp> element. It contains the following:</p> <p><nlis:selling-agent> - User ID of the selling agent</p>
	<nlis:other-from-pic-grp>	<p>Optional. Contains multiple instances of <nlis:other-from-pic-grp> elements. It includes:</p> <p><nlis:other-from-pic> - Additional From PIC</p>
	<nlis:nvd-destination-grp>	<p>Mandatory. Contains multiples instances of <nlis:nvd-destination-grp> element. Contains the following:</p> <p><nlis:to-pic> - TO PIC <nlis:to-pic-num-head> - Number of head going to TO PIC</p>
	<nlis:post-breeder-grp>	<p>Optional. Contains multiple instances of <nlis:pic> and <nlis:serial-no></p>
XML in <nlis:NVDDelete>		
	<nlis:NVDDeleteTransaction>	<p>Mandatory. Contains multiple instances of <nlis:NVDDeleteTransaction> element. Contains the following:</p> <p><nlis:nvd> - serial number of NVD which user wishes to delete. Refer to Shared XML Fields. <nlis:Uploadid> - Should be the one when the NVD file uploaded in the data base.</p>

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XML in <nlis:SightedCattleUpload>		
	<nlis:SightedCattleUploadDetails>	<p>Mandatory. Contains multiple instances of <nlis:SightedCattleUploadDetails> element.</p> <p>Contains the following:</p> <p><nlis:sighting-date> - Mandatory. The date that the cattle were sighted. In the form DD/MM/YYYY.</p> <p><nlis:pic> - Mandatory. PIC where the cattle were sighted. Refer to Shared XML Fields.</p> <p><nlis:nvd> - Optional. NVD serial number. Refer to Shared XML Fields.</p> <p><nlis:comments> - Optional. Free text to record information relevant to sighting.</p> <p>It also contains the following group: <nlis:tag-list-group> - Mandatory.</p>
	<nlis:tag-list-group>	<p>Mandatory. Identifies a group of devices or tags. Must include at least one of the following tags: <nlis:nlisid> - Refer to Shared XML Fields. <nlis:rfid> - Refer to Shared XML Fields.</p>
XML in <nlis:NVDDownload>		
	<nlis:NVDDownloadTransaction>	<p>Mandatory. Contains only one instance of <nlis:NVDDownloadTransaction> element.</p> <p>Contains the following: <nlis:nvd> - serial number of NVD. <nlis:Uploadid> - Upload id of the NVD. Used to retrieve user requested information. Refer to Shared XML Fields.</p>
XML in <nlis:PBTUpload>		
	<nlis:PBTUpload>	<p>Mandatory. Contains only one instance of <nlis:PBTUpload> element.</p> <p>Contains the following: <nlis:PBT> - PBT serial number. Refer to Shared XML Fields.</p>

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Shared XML Fields

The following XML Fields are common to many other fields

Shared XML Fields		
	<nlis-brand-code>	Animal brand used on a property, such as a pig tattoo. Up to six alphanumeric characters are allowed. In Western Australia, the brand is three characters, and a fourth digit is used to identify which character is "lazy". For example, "AA11" means the first character is "lazy", and so the brand is "lazy-A A 1".
	<nlis-brand-status>	Status of an animal brand. Allowed values are "A" for Active, and "D" for disbanded.
	<nlis:chain-no>	Chain number. The valid range of values for chain number is 0 to 99.
	<nlis:free-text>	<p>On a Query Request the Free format text field that indicates the location of a tagged animal in the saleyard. Is used for ERP queries to assist in tracking suspect animals by returning this field with any exceptions.</p> <hr/> <p>On the Saleyard Out the Free Format is one of the most important pieces of information that will be passed and will assist identifying animals that are transferred to agents and producer pics. The contents of this field are essentially free format, however in the interests of consistency here are some guidelines for writing this information.</p> <ol style="list-style-type: none"> 1. It will be displayed on the "Agent Current Holdings" screen and in the future on the "Devices on My Property" screens, so display enough information to identify the animals, but try to keep it to under 50 characters. 2. The free format field can contain any information, there are no restrictions, but identity information is recommended. 3. If more than one field of information is to be included then use a label to identify each field item, with a comma separating fields. 4. Keep fields labels to 3 characters, as follows; <ul style="list-style-type: none"> PEN - pen number, e.g. PEN D3 SEX - sex e.g. SEX Str AGT- selling agent e.g. AGT Elders BRD - breed e.g. BRD Angus LOT - selling lot number e.g. LOT 212 VNR - vendor number e.g. VNR 018 NVD - NVD serial number e.g. NVD C001278 MRK - paint marks e.g. MKR Shldr QTY - Quantity e.g. QTY 5
	<nlis:nlisid>	NLIS Identification number - this is the unique number registered in the database. Must be either 15 or 16 characters in length. Can consist of characters from A to Z and digits from 0 to 9.
	<nlis:pic>	Property Identification Code. Must be 8 characters in length. Can consist of alphas A-Z or digits 0-9.

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Shared XML Fields		
	<nlis:processor-id>	Processor ID. A valid processor ID accepts up to at least 1 and up to 9 characters ranging from A to Z and 0 to 9.
	<nlis:program-code>	ERP Program Code. Consists of 1-4 characters ranging from A-Z, a-z and 0-9.
	<nlis:rfid>	Radio Frequency Identification - this is a unique number that is contained within the Radio Frequency tag. Must be at least 16 characters in length.
	<nlis:saleyard-name>	The name of the saleyard. This field is optional .
	<nlis:saleyard-ID>	The id assigned to the saleyard.
	<nlis:saleyard-pic>	The PIC of the saleyard
	<nlis:sale-title>	The name of title of the sale. This field is optional .
	<nlis:sale-date>	The date of the sale or transaction. Must be 8 characters and in the format YYYYMMDD where YYYY is the year, MM is the month and DD is the day. Must be numeric.
	<nlis:status>	The status that is returned as the result of an update. This indicates whether the update succeeded or failed. This field appears under <nlis:*-results-grp> fields.
	<nlis:transaction-name>	This XML field is optional . When a SOAP request is submitted the content of the request gets saved to a file on the NLIS system. By default, the file is named after the transaction type. If a transaction name is specified, the transaction name is appended to the filename. For example, a P2PTransfer SOAP request without a <nlis:transaction-name> will be saved as "P2PTransfer.xml" on the system. If <nlis:transaction-name> is "MyP2P", the filename would be "P2PTransfer_MyP2P.xml".
	<nlis:transaction-id>	A unique value that identifies a particular SOAP upload. Must be 1 to 9 characters in length. Must consist of digits only.
	<nlis:transaction-type>	Identifies the type of transaction, i.e., Query, SaleyardIn, SaleyardOut, etc.
	<nlis:text>	A message that is returned as the result of an update or a query.
	<nlis:vd-type>	Type of NVD – either NVD or EUVD
	<nlis:species>	Type of species waybills are for – Either CATTLE, SHEEP or PIGS
	<nlis:start-char>	The allowable characters in the first character space of a waybill. Can not be 'Q'.
	<nlis:nvd>	National Vendor Declaration serial number as printed on the NVD/Waybill form.
	<nlis:consignor-name>	Full trading name of the owner of the cattle. This allows a maximum of 256 characters.
	<nlis:consignor-address>	Full address of the property from which the cattle is transferred. This allows a maximum of 256 characters.
	<nlis:cattle-descriptions>	Encapsulates at least one instance of <nlis:cattle-description>.
	<nlis:cattle-description>	Contains the fields that make up a cattle description: <nlis:number>, <nlis:desc> and <nlis:pic-on-tag>.
	<nlis:number>	Mandatory in <nlis:cattle-description> . Cattle number. This allows a maximum of 256 characters.

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Shared XML Fields		
	<nlis:desc>	Mandatory in <nlis:cattle-description> . A description of cattle, e.g., breed, sex, brands, earmarks, etc. This allows a maximum of 256 characters.
	<nlis:pic-on-tag>	Optional in <nlis:cattle-description> . Property Identification Code (PIC) on transaction tag (if different from <nlis:pic>).
	<nlis:consignee-name>	Name of person or business receiving the cattle and full address of the person or business. This allows a maximum of 256 characters.
	<nlis:consignee-address>	Full address of the destination if different from that of the person or business. This allows a maximum of 256 characters.
	<nlis:has-nlistag>	Specifies whether the cattle carry in the consignment carry an NLIS device. Valid values are Y (Yes), N (No) and U (Don't know).
	<nlis:ear-tag-count>	The number of ear tags in the consignment.
	<nlis:rumenbolus-count>	The number of rumen bolus tags in the consignment.
	<nlis:lifetime-traceable>	Are the cattle in the consignment lifetime traceable? Valid values are Y (Yes) or N (No).
	<nlis:statutory-docs-details>	Details of other statutory documents relating to this cattle movement, e.g., animal health certificate. The important information to collect is document type, document number, office of issue and expiry date. This allows a maximum of 256 characters.
	<nlis:hpg-treated>	Have any of the cattle in the consignment been treated with a hormonal growth promotant (HPG). Valid values are Y (Yes), N (No) and U (Don't know).
	<nlis:in-qa-program>	Have the cattle in the consignment been raised in accordance with the rules of an independently audited QA program on the property specified by <nlis:pic>. Valid values are Y (Yes) or N (No).
	<nlis:qa-program-details>	If <nlis:in-qa-program> is Y, then this specifies the details of the QA program. This allows a maximum of 256 characters.
	<nlis:qa-license-no>	If <nlis:in-qa-program> is Y, then this specifies the accreditation or license number of the QA program. This allows a maximum of 256 characters.
	<nlis:bred-on-vendor-pic>	Were all of the cattle in the consignment born and raised on the vendor's property? Valid values are Y (Yes) and N (No)
	<nlis:answer>	Optional *. Valid values are Y (Yes) and N (No)
	<nlis:time-since-purchase>	Optional *. How long has it been since the livestock was purchased? Valid values are A, B, C and D. A – Less than 2 months B – 2 to 6 months C – 6 to 12 months D – more than 12 months
	<nlis:nvd-comment>	Optional *. This specifies additional information for Agents and saleyards to record lot and description. This allows for a maximum of 255 characters.

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Shared XML Fields		
<nlis:most-recent-purchase-time>	How long has it been since the cattle was purchased? Valid enumeration values are A, B, C and D. A – Less than 2 months B – 2 to 6 months C – 6 to 12 months D – more than 12 months	
<nlis:had-by-product-stockfeeds>	Were any of the cattle in the consignment fed by-product stockfeeds within 60 days since the declaration date <nlis:declaration-consignor-date>. Valid values are Y (Yes), N (No) and U (Don't know).	
<nlis:once-on-erp-pic>	Have any of the cattle been on a property listed on the ERP database or placed under grazing restrictions because of chemical residue. Valid values are Y (Yes), N (No) and U (Don't know).	
<nlis:once-on-erp-pic-details>	If <nlis:once-on-erp-pic> is Y, then this specifies any details with regards to those cattle in the consignment on a property listed on the ERP database or placed under grazing restrictions because of chemical residue. This allows a maximum of 256 characters.	
<nlis:in-whp-esi>	Are any of the cattle in the consignment still within a Withholding Period (WHP) or Export Slaughter Interval (ESI) following treatment with any veterinary drug or chemical? Valid values are Y (Yes), N (No) and U (Don't know).	
<nlis:whp-esi-details>	If <nlis:in-whp-esi> is Y, then this specifies details of the veterinary drug or chemical that treated the cattle in the consignment. The details typically include chemical product, treatment date, WHP and ESI (if set). Additional details can be specified in <nlis:additional-info>. This allows a maximum of 256 characters.	
<nlis:had-stockfeed-in-whp>	Have any of the cattle in the consignment consumed any stockfeed that was still within a WHP when harvested or first grazed in the past 60 days since the declaration date <nlis:declaration-consignor-date>? Valid values are Y (Yes), N (No) and U (Don't know).	
<nlis:stockfeed-in-whp-details>	If <nlis:had-stockfeed-in-whp>, then this specifies the details of chemical products that was still within a WHP when harvested or first grazed within 60 days since the declaration date <nlis:consignor-declaration-date>. Typical details include name of the chemical product, date on which the chemical was applied, grazing WHP, first feeding date and the last feeding date. This allows a maximum of 256 characters.	
<nlis:grazed-in-endosulfan-spray-risk>	Were any of the cattle in the consignment grazed in an endosulfan spray risk area; or fed fodders cut from an endosulfan spray drift risk area within 42 days since the declaration date <nlis:consignor-declaration-date>. Valid values are Y (Yes), N (No) and U (Don't know).	
<nlis:endosulfan-spray-date>	The date on which endosulfan was sprayed. The valid format is YYYYMMDD.	
<nlis:additional-info>	This specifies additional information required in other questions. This allows for a maximum of 8000 characters.	

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Shared XML Fields		
<nlis:declaration-consignor-fullname>	This is the full name given in the declaration. This allows for a maximum of 256 characters.	
<nlis:declaration-consignor-address>	This is the address specified in the declaration. This allows for a maximum of 256 characters.	
<nlis:declaration-consignor-signed>	Has the person whose name given by <nlis:declaration-consignor-fullname> signed the NVD/Waybill form? Valid values are Y (Yes) or N (No).	
<nlis:declaration-consignor-date>	The date on which the NVD/Waybill form was signed by the consignor. The valid format is YYYYMMDD.	
<nlis:declaration-consignor-phone>	Contact phone number of the person whose name is given by <nlis:declaration-consignor-fullname>. This allows for a maximum of 17 characters.	
<nlis: declaration-consignor-fax>	Contact fax number of the person whose name is given by <nlis:declaration-consignor-fullname>. This allows for a maximum of 17 characters.	
<nlis:movement-commence-date>	Optional [#] . The date on which the movement of cattle commenced. The valid format is YYYYMMDD. [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	
<nlis:movement-commence-time>	Optional [#] . Specifies whether the movement of cattle in the consignment occurred in the morning or in the afternoon. Valid values are AM, am, PM and pm. [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	
<nlis:driver-license-no>	Optional [#] . Driver license number of the person in charge of the cattle while they are being moved. [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	
<nlis:vehicle-rego-numbers>	Optional [#] . Vehicle registration numbers of all the trucks involved in carrying the cattle. [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	
<nlis:driver-name>	Optional [#] . The person in charge of the cattle during the movement and declare that all cattle movement information is true and correct. This allows for a maximum of 256 characters. [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	
<nlis:driver-signed>	Optional [#] . Has the person in charge of the cattle during the movement signed and thus declared that the movement details are correct. Valid values are Y (Yes) or N (No). [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	
<nlis:driver-signature-date>	Optional [#] . The date on which the person in charge of the cattle during the movement signed and thus declared that the movement details are correct. The valid format is YYYYMMDD. [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	
<nlis:driver-phone>	Optional [#] . Phone number of the person in charge of the cattle during the movement. This allows for a maximum of 17 characters. [#] These fields are to be provided by the person in charge of the cattle while they are being moved. These fields are optional in SA, TAS and VIC.	

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Shared XML Fields		
	<nlis:vendor-code>	Vendor code. This allows for a maximum of 8 alphanumeric characters.
	<nlis:agent-code>	Agent code. This allows for a maximum of 6 alphanumeric characters.
	<nlis:stock-agent-company>	Name of the stock agent company. This allows for a maximum of 256 alphanumeric characters.
	<nlis:buyer-name>	Name of the purchaser of the cattle in this consignment. This allows for a maximum of 256 alphanumeric characters.
	<nlis:destination-pic>	Property Identification Code (PIC) of the property where the cattle in the consignment are to be transferred to.
	<nlis:purchased-cattle-count>	The number of cattle in the consignment.
	<nlis:saleyard-arrival-time>	This specifies whether the cattle arrived at the saleyard in the morning or in the afternoon. Valid values are: AM, am, PM or pm.
	<nlis:agent-signed>	Has the selling agent signed the declaration? Valid values are Y (Yes) or N (No).
	<nlis:agent-signature-date>	The date the agent signed the declaration. The valid date format is YYYYMMDD.
	<nlis:image-file-name>	Image file name on NVD transaction. File extension must be either GIF, JPG, TIFF, PDF or PNG. This field is not case sensitive.
	<nlis:other-image-file-name>	File name of auxiliary images on and NVD transaction File extension must be either GIF, JPG, TIFF, PDF or PNG. This field is not case sensitive.
	<nlis:image>	A binary string on a NVD Add Image transaction.
	<nlis:transfer-date>	The date of transfer. Date format: YYYYMMDD.
	<nlis:PBT>	The PBT serial number associated with a transfer. An alphanumeric field of length 10.
	<nlis:source-saleyard-pic>	This specifies the saleyard PIC
	<nlis:source-direct-pic>	This specifies the source PIC for direct-consigned animals.
	<nlis:comment>	Maximum 255 alphanumeric characters and spaces to be accepted
	<nlis:foreign-pic>	This specifies additional PIC not listed in NVD.
	<nlis:establishment-number>	Processor establishment number. This field accepts Maximum 7 Alphanumeric Characters.
	<nlis:chain-number>	Chain number used for the carcass. The valid range from 0 to 99.
	<nlis:action>	Identify whether the uploaded file contains new or modified information. Action should only be "N" for new records, or "M" for modified records.
	<nlis:kill-date>	The date the animal was killed. Date Format:YYYYMMDD
	<nlis:kill-time>	The time the animal was killed. Time Format: HHMM (24hrs)
	<nlis:body-number>	Sequential number of the carcass used to identify the body. The valid range of body number is from 0 to 999999.
	<nlis:operator-number>	Operator number. Allows upto 3 alphanumeric characters.
	<nlis:lot>	A lot number is a code allocated to group animals/carcasses to bring them into a single commercial transaction group.
	<nlis:target-market>	The market (or grid) that the processor purchased the animal for.
	<nlis:fat-thickness>	Thickness carcass fat.
	<nlis:dentition>	Number of teeth.

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Shared XML Fields		
<nlis:sex>		Carcase sex. The valid values are: B,M,F and MI.
<nlis:live-weight>		Live carcase weight. Accept decimal value. Maximum length 10.
<nlis:HSCW>		Hot standard carcase weight. Accept decimal value. Maximum length 6
<nlis:bruise-score>		The bruise score of the carcase. Varchar, minimum 0, maximum 3. accepts the combination of the value [1-5]
<nlis:carcase-category>		A code which brings together carcase sex and dentition attributes to describe an animal. String and it accepts the value String, It accept the value 'A','B','BYG','C','PR','PRS','S','SS','V','Y','YE','YG','YGE','YGS','YP','YPS' and 'YS'.
<nlis:butt-shape>		Accept the values from A to E. Maximum 1 and Minimum 0.
<nlis:eqs-reference>		The number of the DNA sample collector of the sample taken from the carcase. Integer, Minimum 1, Maximum 10. Can not be 0 (Zero)
<nlis:producer>		MSA Producer licence number. Integer (4).
<nlis:msa-startcode>		MSA Code. Varchar (10)
<nlis:boning-group>		MSA boning group. Varchar (2)
<nlis:grader>		MSA Grader. Varchar (2).
<nlis:grade-date>		Animal grade date. Date Format: YYYYMMDD
<nlis:left-side-scan-time>		Scan time. HHMM (24hr Format)
<nlis:right-side-scan-time>		Scan time. HHMM (24hr Format)
<nlis:hang>		Hang Method. Should Only be TX, TL, AT and TC.
<nlis:hgp>		Hgp. Should only be Y.N and U
<nlis:left-side-hscw>		Left Side hot standard carcase weight. Accept decimal value. Maximum length 6
<nlis:right-side-hscw>		Right side hot standard carcase weight. Accept decimal value. Maximum length 6
<nlis:brand>		Model/Brand number. Integer (4).
<nlis:dest>		Default should be MSA, accepts Varchar (3).
<nlis:version-number>		The Version number of MSA model. Varchar (4)
<nlis:tbc>		Tropical Breed Content.The percentage of the Bos Indicus breed in an animal or carcase. Integer (3).
<nlis:hump-cold>		Chiller assessment. String (3) Accepts Decimal value.
<nlis:eye-muscle-area>		Chiller assessment eye muscle area. String (6) Accepts Decimal value
<nlis:ossification>		A method of estimating the age of a carcase. String (3).
<nlis:aus-marbling>		Integer (2)
<nlis:msa-marbling>		Chillar assessment marbling. String (4).
<nlis:meat-colour>		Chiller assessment meat colour. Varchar (2)
<nlis:fatcolour>		Chiller assessment fat-colour. Varchar (1)
<nlis:fat-depth>		Fat depth. String (5) accepts decimal value.
<nlis:pH>		Chiller Assessment or Slaughter system. String (5) accepts decimal value.
<nlis:loin-temperature>		Loin temperature. String (5) accepts decimal value.
<nlis:mfv>		Kill Agenda. Varchar (1) Y/N
<nlis:rinse>		Slaughter System. Varchar (1) Y/N.
<nlis:msa-saleyard>		Kill Agenda. Varchar (1) Y/N
<nlis:rib>		Slaughter System. Varchar (1) Y/N.
<nlis:feed-type>		Free Text. Varchar (255)

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Shared XML Fields		
	<nlis:grade-code>	Calculated Result. Varchar (1)

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XML Group Tags

Group Tags define a linked or related set of tags. They usually end in –grp and represent a collection of elements, quite often repeated.

Version	XML Group Tag	Description
	<nlis:brand-grp>	Identifies the animal brands used on a property. Must include the following tags <nlis:species> <nlis:brand-code> <nlis:brand-status>
	<nlis:originator-grp>	Identifies the user or person that initiated the transaction. Must include the following tags: <nlis:user> <nlis:password> <nlis:email>
	<nlis:tag-list-grp>	Identifies a group of devices or tags. Must include at least one of the following tags: <nlis:nlisid> <nlis:rfid>
	<nlis:sale-lot-grp>	Identifies a lot of animals that have been sold. Must include <nlis:buyer-pic>, <nlis:free-text> or <nlis:free-text-grp>, <nlis:nvd-grp>
	<nlis:nvd-grp>	Identifies a group of National Vendor Declaration tags. Must include one instance of <nlis:nvd-serial-no>, one instance of <nlis:pic>, at least one instance of <nlis:tag-list-grp>. If <nlis:nvd-grp> appears in <nlis:TpartyP2Ptransfer> then <nlis:authorisation-level> <nlis:authoriser-firstname> <nlis:authoriser-lastname> <nlis:disclaimer-accepted> must be specified.
	<nlis:message-grp>	Supplements <nlis:status> with descriptive information on the result of a NLIS SOAP upload in the corresponding SOAP response. It includes at least one of the following tags: <nlis:message-no> <nlis:text> <nlis:action> <nlis:type>. <nlis:message-no> is not returned for report queries.

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Version	XML Group Tag	Description
	<nlis:pic-list-grp>	Identifies a group of PICs. Must include at least one of the following tags: <nlis:pic>
	<nlis:saleyard-in-results-grp>	Identifies a group of elements that are returned from a Saleyard-In method. Must include the device id as an attribute, for example, <nlis:saleyard-in-results-grp tag = "3WCGU000XBT3412"> and may include the following tags: <nlis:status> <nlis:message-grp>
	<nlis:saleyard-out-results-grp>	Identifies a group of elements that are returned from a Saleyard-Out method. Must include the device id as an attribute, for example, <nlis:saleyard-out-results-grp tag = "3WCGU000XBT3412"> and may include the following tags: <nlis:status> <nlis:message-grp>
	<nlis:query-results-grp>	Identifies a group of elements that are returned from a Query method. May include the device id or property id as an attribute, for example: <nlis:query-results-grp tag = "3WCGU000XBT3412"> Must include the following tags: <nlis:query-type> and may include the following tags: <nlis:free-text> <nlis:report-results-grp> <nlis:message-grp> The <nlis:report-results-grp> element has 3 optional attributes. These attributes are returned when a large report (see Large Report Handling) result is requested. The attributes are: <ul style="list-style-type: none"> - <i>currentPartNumber</i>. This is the current part number of the <i>Large Report</i> result. - <i>nextPartNumber</i>. This is the part number for the next part of a <i>Large Report</i> result. - <i>totalPartsCount</i>. This is the total number of parts available for retrieval in a <i>Large Report</i>.

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Version	XML Group Tag	Description
	<nlis:p2ptransfer-results-results-grp>	Identifies a group of elements that are returned from a P2Ptransfer. Must include the device id as an attribute, for example, <nlis:p2ptransfer-results-grp tag = "3WCGU000XBT3412"> and may include the following tags: <nlis:status> <nlis:message-grp>
	<nlis:tag-eu-grp>	Identifies a group of elements that are returned from an All RFID Query. Must include the device id as an attribute, for example, <nlis:tag-eu-grp tag = "3WCGU000XBT3412"> and must include the following tags: <nlis:rfid> - RFID <nlis:nlisid> - NLIS ID <nlis:pic> - the PIC currently registered <nlis:text> - the EU Status
	<nlis:tag-ext-grp>	Identifies a group of elements that are returned from an Extended Status Query. Must include the following tags: <nlis:program-code> The program code for the extended status <nlis:status> The extended status code <nlis:message> A description of the extended status
	<nlis:erpexception-results-grp>	Identifies a group of elements that are returned from an ERP Exception upload. It may include the following tags: <nlis:status> <nlis:message> <nlis:action> <nlis:type>
	<nlis:erp-inf-message>	<nlis:erp-inf-message> must have the following sequence of tags: <nlis:erp-kill-code>, <nlis:erp-date> and <nlis:erp-short-desc>.

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Version	XML Group Tag	Description
	<nlis:erp-noninf-message>	<p><nlis:erp-noninf-message> must have the following sequence of tags:</p> <ul style="list-style-type: none"> <nlis:erp-kill-code> <nlis:erp-pic> <nlis:erp-rfid1> <nlis:erp-nlisid1> <nlis:erp-date> <nlis:erp-time> <nlis:erp-rfid2> <nlis:erp-nlisid2> <nlis:erp-kill-id> <nlis:erp-status-code> <nlis:erp-program-code> <nlis:erp-running-count> <nlis:erp-total-count> <nlis:erp-sample-count> <nlis:erp-required-sample> <nlis:erp-actual-sample> <nlis:erp-state-code> <nlis:erp-processor-type> <nlis:erp-tested> <nlis:erp-short-desc> <nlis:erp-long-desc> <nlis:erp-sample-number> <p>All ERP Exception tags are optional unless otherwise stated in <i>XML Field Details</i>. Optional tags that carry no data MUST be omitted from <nlis:erp-noninf-message>.</p>
	<nlis:mid-grp>	<p>Identifies a group of elements encapsulated a TagUpload.</p> <p>It must include the following sequence of tags:</p> <ul style="list-style-type: none"> <manufacturer-id> <p>It must include at least one of the following tags:</p> <ul style="list-style-type: none"> <tag-grp>.
	<nlis:tag-grp> (for TagUpload)	<p>Must contain the following sequence of tags:</p> <ul style="list-style-type: none"> <nlis:tagtype-id> <nlis:rfid> <nlis:nlisid> <nlis:visual-id> <nlis:tag-colour> <nlis:issue-date> <nlis:pic>
	<nlis:pic-grp>	<p>This element contains tags that encapsulate data for new property upload or PIC EU status updates. It must contain the following sequence of tags:</p> <ul style="list-style-type: none"> <nlis:pic> <nlis:eu-status> <nlis:telephone>

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Version	XML Group Tag	Description
	<nlis:kill-grp>	This element groups data related to a kill upload. It must contain the following sequence of tags: <nlis:processor-id> <nlis:kill-date> It must contain at least one of the following tags: <nlis:tag-grp>
	<nlis:tag-grp> (for KillUpload)	This element groups together a list RFID/NLISID tags associated with a kill, identified by <nlis:kill-id>. It must contain the following sequence of tags: <nlis:kill-id> It must contain either one of the following tags: <nlis:rfid> or <nlis:nlisid>
	<nlis:killupload-results-grp>	This element encapsulates the details about the outcome of a kill upload. The kill upload for which the details are encapsulated is identified by the value of a required tag attribute in this element, which is an RFID. This element contains the following tags: <nlis:status> <nlis:message-grp>
	<nlis:tagupload-results-grp>	This element encapsulates the details about the outcome of a tag upload. The tag upload for which the details are encapsulated is identified by the value of a required tag attribute. This element contains the following tags: <nlis:status> <nlis:message-grp>
	<nlis:newpics-results-grp>	This element encapsulates the details about the outcome of a new property upload or an EU status change. The PIC for which this element encapsulates is identified by the value of a required PIC attribute. This element contains the following tags: <nlis:status> <nlis:message-grp>
	<nlis:parameter-list-grp>	This element is used only when <nlis:query-type> in <nlis:Query> is report . It must contain as least one <nlis:param> element.

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Version	XML Group Tag	Description
	<nlis:free-text-grp>	<p>This element groups together the extra information for Saleyard Out and Producer Transfer transactions.</p> <p>It contains zero or more of the following tags, all of which are optional:</p> <ul style="list-style-type: none"> <nlis:selling-pen> <nlis:sex> <nlis:selling-agent> <nlis:breed> <nlis:selling-lot> <nlis:vendor-number> <nlis:paint-marks> <nlis:location> <nlis:sell-lot-qty>.
	<nlis:lodgement-results-grp>	<p>This element groups together information related to the outcome of a report query.</p> <p>This element contains:</p> <ul style="list-style-type: none"> <nlis:transaction-id> <nlis:transaction-type> <nlis:text> <p><nlis:upload-id> has been replaced by <nlis:transaction-id>.</p>
	<nlis:tparty2ptransfer-results-grp>	<p>Identifies a group of elements that are returned from a Third Party P2Ptransfer. Must include the device id as an attribute, for example,</p> <p><nlis:tparty2ptransfer-results-grp tag = "3WCGU000XBT3412"></p> <p>and may include the following tags:</p> <ul style="list-style-type: none"> <nlis:status> <nlis:message-grp>
	<nlis:transaction-id-grp>	<p>This element groups together <nlis:transaction-id> elements. There must be at least one <nlis:transaction-id>.</p>
	<nlis:retrieve-results-grp>	<p>This element contains the results of a previous SOAP upload, i.e., <nlis:*-Result> elements.</p> <p>This element has a transaction-id attribute that identifies the transaction for which the results are retrieved.</p> <p>It may also contain <nlis:message-grp> if it is unable to retrieve the results for a previous SOAP upload.</p>

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Version	XML Group Tag	Description
Available in NLIS 2.0 only	<nlis:sdapicdetails-results-grp>	<p>This element encapsulates the details about the outcome of a PIC register upload. This element contains the following tags: <nlis:status> <nlis:message-grp></p> <p>This element will have the following attributes: <i>@tag</i> – this is the value of <nlis:pic> in <nlis:pic-details>. <i>@position</i> – this is the position of a <nlis:pic-details> element amongst all <nlis:pic-details> in document order in the lodged SOAP file.</p> <p>For example: <SOAP-ENV:Envelope> ... SOAP Headers goes here <SOAP-ENV:Body> <nlis:SDAPICDetails> <nlis:pic-details/> // position 1 <nlis:pic-details/> // position 2 </nlis:SDAPICDetails> <nlis:SDAPICDetails> <nlis:pic-details/> // position 3 </nlis:SDAPICDetails> <SOAP-ENV:Body> </SOAP-ENV:Envelope></p>
	<nlis:pic-details-grp>	This element contains at least one <nlis:pic-details> element. Each <nlis:pic-details> contains XML fields that capture details about a property.
	<nlis:mobbasedintransfer-results-grp>	<p>This element captures details about the upload status of a MOB Based Receipt Transfer.</p> <p>The value of the <i>nvd</i> attribute of this element will be the value of <nlis:nvd> in <nlis:mob-in-nvdgrp>.</p> <p>This element contains <nlis:status> <nlis:message-grp>.</p>

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Version	XML Group Tag	Description
	<nlis:mobbasedouttransfer-results-grp>	<p>The element captures the details about the upload status of a MOB Based Dispatch Transfer. There will be one <nlis:mobbasedouttransfer-results-grp> for each <nlis:transfer-id> in <nlis:transfer-id-grp>.</p> <p>This element has either a <i>transfer-id</i> attribute or a <i>nvd</i> attribute. The value of a <i>transfer-id</i> will be the value of a <nlis:transfer-id> element. The value of the <i>nvd</i> attribute will be the value of <nlis:nvd>.</p> <p>This element contains <nlis:status> <nlis:message-grp>.</p>
	<nlis:manuallkillupload-results-grp>	<p>This element captures the details about the manual kill upload result for a livestock. There will be a <nlis:manuallkillupload-results-grp> for each <nlis:bodyno-tag-grp>.</p> <p>This element has either or both <i>body-no</i> attribute and <i>tag</i> attribute. The value of the <i>body-no</i> attribute will be the value of <nlis:body-no> in <nlis:bodyno-tag-grp>. The value of the <i>tag</i> attribute will be the value of the <nlis:rfid> or <nlis:nlisid> in <nlis:bodyno-tag-grp>.</p> <p>This element contains <nlis:status> <nlis:message-grp>.</p>
	<nlis:deceasedtransfer-results-grp>	<p>This element captures the details about the result of a transfer of a deceased livestock. There will be one <nlis:deceasedtransfer-results-grp> for each <nlis:bodyno-tag-grp>.</p> <p>This element would have either a <i>tag</i> attribute or a <i>bodyno</i> attribute. The value of the <i>tag</i> attribute will be the value of <nlis:rfid> or <nlis:nlisid> in <nlis:bodyno-tag-grp>. The value of the <i>bodyno</i> attribute will be the value of <nlis:body-no> in <nlis:bodyno-tag-grp>.</p> <p>This element contains <nlis:status> <nlis:message-grp>.</p>

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Version	XML Group Tag	Description
	<nlis:erp-status-results-grp>	<p>This element captures the result of an ERP Status Upload. There will be one <nlis:erp-status-results-grp> for each <nlis:erp-status-grp>.</p> <p>This element would have a <i>pic</i> attribute, which would be the value of <nlis:pic> in <nlis:erp-status-grp>; a <i>programCode</i> attribute, which would be the value of <nlis:program-code> in <nlis:erp-status-grp>; a <i>statusCode</i> attribute, the value of <nlis:status-code> in <nlis:erp-status-grp>.</p> <p>This element contains <nlis:status> <nlis:message-grp>.</p>
	<nlis:tagstatuschange-results-grp>	<p>This element captures the result of a TagStatusUpload. There will be one <nlis:tagstatuschange-results-grp> for each <nlis:status-change> element.</p> <p>This element would have a <i>tag</i> attribute, which would be the value of <nlis:nlisid> or <nlis:rfid> in <nlis:TagStatusUpload>.</p> <p>This element contains <nlis:status> <nlis:message-grp>.</p>
	<nlis:devicestatusinpic-results-grp>	<p>This element captures the result of a TagStatusUpload. There will be one <nlis:devicestatusinpic-results-grp> for each <nlis:devicestatus> element.</p> <p>This element would have a <i>tag</i> attribute, which would be the value of <nlis:pic> in <nlis:DeviceStatusInPICUpload>.</p> <p>This element contains <nlis:status> <nlis:message-grp>.</p>
	<nlis:replacedtag-grp>	<p>This element, used in <nlis:ReplacedTag>, specifies the old NLISID/RFID to be replaced and the new replacement NLISID/RFID.</p>

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Version	XML Group Tag	Description
	<nlis:replacedtag-results-grp>	<p>This element captures the result of a tag replacement.</p> <p>A <nlis:replacedtag-results-grp> is returned for each <nlis:replacedtag-grp>.</p> <p>The <i>newtag</i> attribute specifies the replacement tag for the current replacement. The attribute <i>newtag</i> can be either a NLISID or a RFID.</p> <p>The <i>oldtag</i> attribute specifies the replaced tag for the current replacement. The attribute <i>oldtag</i> can be either a NLISID or a RFID.</p>
	<nlis:status-query-grp>	<p>This element may be used in a <nlis:Query> group to specify multiple parameter groups in a single query.</p> <p>This element may contain the following elements:</p> <ul style="list-style-type: none"> <nlis:pic> <nlis:free-text> <nlis:tag-list-grp> <nlis:pic-list-grp> <nlis:rfid> <nlis:nlisid>
	<nlis:correction-transaction-grp>	<p>This element encapsulates a group of elements that represent the list of transfers that need to be corrected that belong to the same upload/transaction</p> <p>This element contains:</p> <ul style="list-style-type: none"> <nlis:transaction-id> <nlis:transaction-type> <nlis:correction-data-grp>
	<nlis:correction-data-grp>	<p>This element encapsulates the details of the transfer to be corrected, as well as the correct data.</p> <p>This element contains:</p> <ul style="list-style-type: none"> <nlis:correction-type> <nlis:original-data-grp> <p>This element may contain:</p> <ul style="list-style-type: none"> <nlis:correct-data-grp>
	<nlis:original-data-grp>	<p>This element encapsulates the details of the transfer to be corrected</p> <p>This element may contain:</p> <ul style="list-style-type: none"> <nlis:nlisid> <nlis:rfid> <nlis:transfer-date> <nlis:destination> <nlis:nvd-serial-no> <nlis:source> <nlis:cattle-count>

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Version	XML Group Tag	Description
	<nlis:correct-data-grp>	<p>The element encapsulates the details of the correction data</p> <p>This element may contain:</p> <ul style="list-style-type: none"> <nlis:transfer-date> <nlis:destination> <nlis:nvd-serial-no> <nlis:source> <nlis:cattle-count>
	<nlis:transfercorrection-results-grp>	<p>This element captures the results of a transfer correction.</p> <p>A <nlis:transfercorrection-results-grp> is returned for each <nlis:correction-data-grp>.</p> <p>This element contains</p> <ul style="list-style-type: none"> <nlis:status> <nlis:message-grp>. <p>This element may also contain the following attributes:</p> <ul style="list-style-type: none"> Tag, transaction-id – if the <nlis:transaction-type> provided is not MOBBasedInTransfer or MOBBasedOutTransfer Nvd, transaction-id – if the <nlis:transaction-type> is MOBBasedInTransfer or MOBBasedOutTransfer.
	<nlis:generic-waybill-results-grp>	<p>This element captures the results of a NVD/Waybill data upload.</p> <p>A <nlis:generic-waybill-results-grp> is returned for each <nlis:GenericWaybill> element.</p> <p>This element contains</p> <ul style="list-style-type: none"> <nlis:status> <nlis:message-grp>.
	<nlis:lpa-upload-record-result-grp>	<p>This element captures the results of a LPA serial number upload.</p> <p>A <nlis:lpa-upload-record-results-grp> is returned for each <nlis:lpa-upload-record> element.</p> <p>This element contains</p> <ul style="list-style-type: none"> <nlis:status> <nlis:message-grp>.

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Version	XML Group Tag	Description
	<nlis:opt-animal-info>	This element must include : <nlis:rfid> or <nlis:nlsid>, multiple instances are acceptable <nlis:op-type> <nlis:verified-flag> And may include the following tags: <nlis:birthday> <nlis:sex> <nlis:breed> <nlis:animal-color> <nlis:alter-id> <nlis:free-comment>
2.0 and above	<nlis:killed-device-list-grp>	This element must include: <nlis:establishment-number> <nlis:kill-date> <nlis:killed-device-grp>
2.0 and above	<nlis:killed-device-grp>	This element must include 1 or more <nlis:tag> elements
2.0 and above	<nlis:NVDMovementGroup>	Contains all information of a NVD Add Upload Transaction This element must include: <nlis:NVD-Movements-Details> <nlis:nvd-selling-agent-grp> - Optional <nlis:nvd-destination-grp>
	<nlis:NVD-Movements-Details>	Contains general information of a NVD Add Upload Transaction This element must include: <nlis:species> <nlis:transfer-date> <nlis:from-pic> <nlis:num-head> <nlis:nvd> <nlis:image-file-name> <nlis:image> <nlis:saleyardID> - Optional.
	<nlis:NVD-Transfer-Details>	Contains general information of a NVD Add Image Upload Transaction This element must include: <nlis:transfer-date> <nlis:from-pic> <nlis:num-head> <nlis:nvd> <nlis:image-file-name> <nlis:image> <nlis:saleyard-ID> - Optional. And contains the groups: <nlis:nvd-other-image-grp> <nlis:nvd-selling-agent-grp> - Optional <nlis:nvd-destination-grp>

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Version	XML Group Tag	Description
	<nlis:nvd-selling-agent-grp>	Contains information of Selling Agents on a NVD Transaction This element must include: <nlis:selling-agent>
	<nlis:nvd-destination-grp>	Contains information of To Pics on a NVD Transaction This element must include: <nlis:to-pic> <nlis:to-pic-num-head>
	<nlis:other-from-pic-grp>	Contains information of Other From PICs on a NVD Transaction This element must include: <nlis:other-from-pic>
	<nlis:nvd-other-image-grp>	Contains a list of auxiliary images (binary information) on an NVD Add Image Upload transaction This element must include: <nlis:other-image-file-name> <nlis:other-image>
	<nlis:post-breeder-grp>	Contains information on post breeder tags. Contains group: <nlis:pic> Saleyard PIC and 8 characters <nlis:serial-no>Maximum length of 10 Varchar value
	<nlis:NVDGenericWaybill>	Contains all information of a NVD Add Generic Waybill Upload Transaction Contains group: <nlis:lpa-nvd>
	<nlis:lpa-nvd>	Contains group: <nlis:nvd-waybill-form-transfer-details>
	<nlis:nvd-waybill-form-transfer-details>	Contains groups: <nlis:nvd-transfer-details> <nlis:nvd-transfer-answers>

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Version	XML Group Tag	Description
	<nlis:nvd-transfer-details>	Contains general information of a NVD Add Waybill Upload Transaction <nlis:version> <nlis:src-pic> <nlis:destination-pic> - Optional <nlis:nvd> <nlis:vd-type> - Optional <nlis:species> - Optional <nlis:total-animals> <nlis:total-tagged> <nlis:rumenbolus-count> - Optional <nlis:total-non-tagged>
	<nlis:nvd-transfer-answers>	Contains survey information of a NVD Add Generic Waybill Upload Transaction <nlis:lifetime-traceable> <nlis:hgp-treated> <nlis:in-qa-program> <nlis:breed-on-vendor-pic> <nlis:most-recent-purchase-time> <nlis:had-by-product-stockfeeds> <nlis:once-on-erp-pic> <nlis:in-whp-esi> <nlis:had-stockfeed-in-whp> <nlis:grazed-in-endosulfan-spray-risk>
	<nlis:NVDDeleteTransaction>	Contains the nvd number to delete <nlis:nvd>
	<nlis:NVDDownloadTransaction>	Contains the nvd number used to retrieve associated NVD information <nlis:nvd>
	<nlis:recovereddeviceupload-result-grp>	Contains the result of the recovered device upload. <nlis:Status>
2.1	<nlis:mobbasedkill-upload-grp>	This group consists of the below XML fields and group. This group represents some constant elements. Such as: Processor PIC <nlis:pic> Kill date <nlis:kill-date> Number of head <nlis:num-head> Species <nlis:species> From PIC <nlis:source-saleyard-pic> Group: <source-direct-details> and <foreign-pic-grp>
2.1	<nlis:source-direct-details>	This group consists of : <nlis:source-direct-pic> and the blow group: <NVD-transfer-details>

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Version	XML Group Tag	Description
2.1	<nlis:foreign-pic-grp>	This group contains multiple instances of <nlis:foreign-pic> elements. It includes: <nlis:foreign-pic> - Additional PICs that are not listed in NVD.
2.1	<nlis:MobBasedMovementOntoPIC-upload-grp>	This group consists of the below XML fields and group. This group represents some constant elements. Such as: Species <nlis:species> Movement date <nlis:transfer-date> From PIC <nlis:from-pic> Number of head <nlis:num-head> To PIC <nlis:to-pic> NVD <nlis:nvd> Comment <nlis:comment>
2.1	<nlis:MobBasedMovementOffPIC-upload-grp>	This group consists of the below XML fields and group. This group represents some constant elements. Such as: Species <nlis:species> Movement date <nlis:transfer-date> From PIC <nlis:from-pic> Number of head <nlis:num-head> To PIC <nlis:to-pic> NVD <nlis:nvd> Comment <nlis:comment>
2.1	<nlis:MobbasedmovementNonWrittenAuthority-upload-grp>	This Group Consists of the below XML groups: <nlis:Movement-Info> <nlis:Authority-Info>
2.1	<nlis:Movement-info>	Contains general information of a Mob-movement non-written authorityTransaction This group must include: <nlis:species> <nlis:transfer-date> <nlis:from-pic> <nlis:num-head> <nlis:nvd> And the below groups: <nlis:other-from-pic-grp> <nlis:image-grp>
2.1	<nlis:image-grp>	Contains Image information: This group must include: <nlis:image-file-name> <nlis:image>
2.1	<nlis:other-from-pic-grp>	This group may contain a single or multiple instances of the below element: <nlis:other-from-pic>

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Version	XML Group Tag	Description
2.1	<nlis:Authority-Info>	This group must include: <nlis:authorisation-level> <nlis:authoriser-firstname> <nlis:authoriser-lastname> <nlis:disclaimer-accepted> <nlis:pbt>
2.0nlis-cfb	<nlis:carcase-upload-grp>	This group contains the below elements and group. <nlis:establishment-number> <nlis:chain-number> and <nlis:bodyno-tag-grp>
nlis-cfb	<nlis:bodyno-tag-grp>	This group contains the below elements and group. <nlis:action> <nlis:kill-date> <nlis:kill-time> <nlis:body-number> <nlis:operator-number> <nlis:species> <nlis:pic> <nlis:rfd> <nlis:nlisid> <nlis:nvd> <nlis:lot> <nlis:target-market> and <nlis:third-party-key> and <nlis:carcase-info-grp> <nlis:carcase-side-right-info-grp> <nlis:carcase-side-both-info-grp> <nlis:carcase-side-left-info-grp>

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2.0nlis-cfb	<nlis:carcase-info-grp>	<p>This group contains the below elements</p> <ul style="list-style-type: none"> <nlis:management-tag> <nlis:fat-scorethickness> <nlis:muscle-score> <nlis:fat-site> <nlis: fat-site-estimate-or-actual-indicator> <nlis:trim-code> <nlis:skinned> <nlis:muscle-score-estimate-or-actual-indicator> <nlis:trim-code> <nlis:skinned> <nlis: muscle-score-estimate-or-actual-indicator> <nlis:live-weight-average-or-total-indicator> <nlis: live-weight-estimate-or-actual-indicator> <nlis:residue-free> <nlis:dentition> <nlis:sex> <nlis:live-weight> <nlis:HSCW> <nlis:bruise-score> <nlis:carcase-category> <nlis:butt-shape> <nlis:eqs-reference> <nlis:producer> <nlis:msa-startcode> <nlis:boning-group> <nlis:grader> <nlis:grade-date> <nlis:left-side-scan-time> <nlis:right-side-scan-time> <nlis:hang-method> <nlis:hgp-free> <nlis:left-side-hscw> <nlis:right-side-hscw> <nlis:brand> <nlis:dest> <nlis:version-number> <nlis:tbc> <nlis:hump-cold> <nlis:eye-muscle-area> <nlis:ossification> <nlis:aus-marbling> <nlis:msa-marbling> <nlis:meat-colour> <nlis:fat-colour> <nlis:fat-depth> <nlis:pH> <nlis:loin-temperature> <nlis:mfv> <nlis:rinse> <nlis:msa-saleyard> <nlis:rib> <nlis:feed-type> <nlis:grade-code>
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XML Methods (Transactions)

Each XML Transaction has two parts, the transaction and transaction-result. The results are standardised where possible. This section has two parts, the transaction definitions and the transaction results definitions.

NLIS XML Transactions

Methods define actions that need to be performed on the attached elements. For every method included in the SOAP file, matching results will be returned. All XML methods are defined in NLIS version 1.0 onwards unless otherwise stated. Each of these methods should correlate to an upload identifier, ie they are separate transactions even if loaded together (Complete XML).

Version	XML Method	Description
	<nlis:Query>	<p>This method requests information from the NLIS database.</p> <p>ERP – Extended Residue Program query If the request is for information about required for a property then the method must include the following tag: <nlis:transaction-name> (optional) <nlis:pic> <nlis:query-type> If the request is for information about required for a property then the method must include either of the following tags: <nlis:tag-list-grp> - for multiple tags or <nlis:rfid> - for an individual device or <nlis:nlisid> - for an individual device</p> <p>To submit a ERP query, <nlis:query-type> must be “ERP”.</p>
	<nlis:Query>	<p>LT – Whole of Life traceability This must include the PIC that consigned the animals as well as details of the animal. This method must include the following tags: <nlis:transaction-name> (optional) <nlis:pic> <nlis:query-type> and must include either of the following tags: <nlis:tag-list-grp> - for multiple tags or <nlis:rfid> - for an individual device or <nlis:nlisid> - for an individual device</p> <p>To submit a LT query, <nlis:query-type> must be “LT”.</p>

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Version	XML Method	Description
	<nlis:Query>	<p>EXT – Extended status check</p> <p>This request must include the following tags: <nlis:transaction-name> (optional), <nlis:query-type> and must include either of the following tags: <nlis:tag-list-grp> - for multiple tags or <nlis:rfid> - for an individual device or <nlis:nlisid> - for an individual device or <nlis:pic-list-grp> - for multiple pics or <nlis:pic> - for an individual pic</p> <p>To submit a EXT query, <nlis:query-type> must be “EXT”.</p>
	<nlis:Query>	<p>EU – European Union status check</p> <p>This must include the PIC that consigned the animals as well as details of the animal. This method must include the following tags: <nlis:transaction-name> (optional), <nlis:pic> <nlis:query-type> <nlis:nvd-serial-no> and must include either of the following tags: <nlis:tag-list-grp> - for multiple tags or <nlis:rfid> - for an individual device or <nlis:nlisid> - for an individual device</p> <p>To submit a EU query, <nlis:query-type> must be “EU”.</p>
	<nlis:Query>	<p>ALL RFID – EU Eligible Tags on a PIC</p> <p>This method must include the following tags; <nlis:transaction-name> (optional), <nlis:query-type> and must include either of the following tags; <nlis:pic-list-grp> - for multiple pics or <nlis:pic> - for an individual pic</p> <p>To submit a ALL RFID query, <nlis:query-type> must be “ALL RFID”.</p>

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Version	XML Method	Description
	<nlis:Query>	<p>BE – Beast Enquiry</p> <p>This must include the following tags: <nlis:transaction-name> (optional), <nlis:query-type> <nlis:tag-list-grp> - for multiple tags or <nlis:rfid> - for an individual device or <nlis:nlisid> - for an individual device</p> <p>To submit a BE query, <nlis:query-type> must be “BE”.</p>
	<nlis:Query>	<p>Beast Report</p> <p>This must include the following tags: <nlis:transaction-name> (optional), <nlis:query-type>Beast Report</nlis:query-type> <nlis:tag-list-grp> <nlis:rfid> or <nlis:nlisid></p> <p>For each of the tags (RFID and NLISID) in <nlis:tag-list-grp>, this XML Query retrieves the PIC the tag is on, RFID, NLISID, and EU Status ('Y' or 'N').</p> <p>The maximum number of tags that one Beast Report XML Query can process is 940.</p> <p>See NLIS Specification Part 3 for examples of Beast Report queries and results.</p>
	<nlis:Query>	<p>Deceased device enquiry</p> <p>This must include the following tags: <nlis:transaction-name> (optional) <nlis:query-type>deceased device enquiry</nlis:query-type> <nlis:killed-device-list-grp></p>

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Version	XML Method	Description
	<nlis:Query>	<p>Report – Custom Reports</p> <p>This must include the following tags: <nlis:transaction-name> (optional), <nlis:query-type> <nlis:sub-type> <nlis:output-type> <nlis:delivery-method> <nlis:parameter-list-grp></p> <p>If <nlis:parameter-list-grp> is available, it must contain at least one <nlis:param> tag.</p> <p>To submit a report query, <nlis:query-type> must be “Report”.</p> <p>For a description of the valid values of related elements, see XML Fields for NLIS Report Queries.</p>
	<nlis:SaleyardIn>	<p>This method is the same as the existing “Take Possession” file and must include: <nlis:transaction-name> (optional), <nlis:saleyard-name> (optional), <nlis:saleyard-id>, <nlis:sale-date>, <nlis:sale-title> (optional) and at least one of the following tags groups: <nlis:nvd-grp></p>
	<nlis:SaleyardOut>	<p>This method is the same as the existing “Sell Cattle” file and must include: <nlis:transaction-name> (optional), <nlis:saleyard-name> (optional), <nlis:saleyard-id>, <nlis:sale-date>, <nlis:sale-title> (optional) and at least one of the following tags groups: <nlis:sale-lot-grp>.</p>
	<nlis:P2PTransfer>	<p>This method is the same as the existing “Take Possession” file and must include <nlis:transaction-name> (optional), <nlis:transfer-date>, <nlis:buyer-pic>, <nlis:free-text> or <nlis:free-text-grp> (optional), at least one of <nlis:nvd-grp>.</p>
	<nlis:ErpException>	<p>This method must include at least one instance of either <nlis:erp-inf-message> or <nlis:erp-noninf-message>, or both types of group tags.</p>
	<nlis:TagUpload>	<p>Uploads for new tags. Must contain <nlis:transaction-name> (optional), at least one instance of <nlis:mid-grp>.</p>

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	<nlis:NewPics>	PIC EU Status update. Must contain <nlis:transaction-name> (optional), at least one instance of <nlis:pic-grp>.
	<nlis:KillUpload>	Kill upload. Must contain <nlis:transaction-name> (optional), at least one instance of <nlis:kill-grp>.
	<nlis:TPartyP2PTransfer>	Third party producer transfers. This must include the following tags: <nlis:transaction-name> (optional), <nlis:transfer-date>, <nlis:buyer-pic>, <nlis:free-text> or <nlis:free-text-grp> (optional), at least one of <nlis:nvd-grp>.
	<nlis:RetrieveResults>	This method retrieves the results of a previous SOAP upload. Previous SOAP uploads are specified by their transaction ID. The transaction IDs are grouped in <nlis:transaction-id-grp>. It must have at most one <nlis:transaction-id-grp>. Each <nlis:transaction-id-grp> contains one or more <nlis:transaction-id>. <nlis:transaction-id> has an optional <i>partNumber</i> attribute, which is an integer. The <i>partNumber</i> attribute specifies the <i>Large Report</i> result part to retrieve.
	<nlis:SDAPICDetails>	State PIC register upload. Must contain at least one instance of <nlis:pic-details-grp>.
	<nlis:MOBBasedInTransfer>	MOB Based Receipt. This transaction type is to notify the database of receipt of a mob of animals onto a PIC code. A <nlis:MOBBasedInTransfer> must have at least one <nlis:mob-in-nvdgrp>.
	<nlis:MOBBasedOutTransfer>	MOB Based Dispatch. This transaction type is to notify the database of the departure of a mob of animals from a PIC.
	<nlis:ManualKillUpload>	Similar to the existing kill upload, this type of kill upload not only registers the kill date and RFIDs or NLIS IDs of animals killed, etc., it also records the PIC of consignment. The database also transfers the animals from the PIC of consignment to the abattoir PIC if the animals have not been transferred to an abattoir PIC.

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	<nlis:DeceasedTransfer>	This method is to transfer deceased livestock. As a result of the transfer, the database will also update the carcass feedback with the PIC from which the deceased livestock is transferred.
	<nlis:ErpStatusUpload>	This method is to assign an ERP status to a PIC.
	<nlis:TagStatusUpload>	This method is to assign a device extended status to a device.
	<nlis:DeviceStatusInPICUpload>	This method is to assign a device extended status to a percentage of animals currently residing on the PIC or animals that move onto the PIC.
	<nlis:ReplacedTag>	This method is used when a tag attached to animal is replaced by another tag. That animal should be identified by using the new tag after successful replacement.
	<nlis:TransferCorrection>	This method is used to replace incorrect transfer data with the correct information, or remove incorrect transfers from the NLIS Database.
	<nlis:RecoveredDeviceUpload>	This method is used to upload recovered devices into the database, which will set RC1 or RC2 status.
Removed in version 9.0.	<nlis:NVDWaybill> PLEASE NOTE – OBSOLETE REMOVED IN VERSION 9.0 REPLACED BY: <nlis:GenericWaybillUpload>	<i>This method is to notify the database of the details that appear in a LPA National Vendor Declaration (Cattle) and Waybill form for First Edition, March, 2004 and First edition, November, 2005. This XML data structure for this upload takes into account all the fields captured by both forms.</i>
	<nlis:OptionalAnimalInformation>	This method is to update 'Date of Birth' information of devices. Must contain at least one instance of : <nlis:opt-animal-info> There are complex rules around this information. Currently not available in production.
	<nlis:LPAserialNumberUpload>	This method is used to add LPA NVD serial number and PICS to the system. Must contain at least one instance of: <nlis:lpa-upload-record>
	<nlis:NVDGenericWaybillUpload>	This method replaces the NVDWaybill method that adds NVD answers to the NLIS system. It must contain one or more <nlis:NVDGenericWaybill> elements. Currently, only LPA NVD and EUVD is implemented. This method also accommodates species.

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Version	XML Method	Description
	<nlis:NVDImageUpload>	This method is used to upload images onto server folders and to save information on the NVD Database. It must contain only one instance of : <nlis:NVD-Transfer-Details>
	<nlis:NVDUpload>	This method is used to upload images on server folders and to save information on the NVD Database. It must contain only one instance of : <nlis:NVDMovementGroup>
	<nlis:NVDDelete>	This method is used to delete NVD transactions. It must contain only one instance of : <nlis:NVDDeleteTransaction>
	<nlis:NVDDownload>	This method is used to retrieve NVD Information. It must contain only one instance of: <nlis:NVDDownloadTransaction>
	<nlis:MobBasedKill>	This method is used to upload mob based kill information. This must contain only one instance of: <nlis:mobbasedkill-upload-grp>
	<nlis:MobBasedMovementOntoPIC>	This method is used to transfer mob on to a property. This must contain only one instance of: < nlis:MobBasedMovementOntoPIC-upload-grp>
	<nlis:MobBasedMovementOffPIC>	This method is used to transfer mob from property. This must contain only one instance of: < nlis:MobBasedMovementOffPIC-upload-grp>
	<nlis:MobBasedMovementNonWrittenAuthority>	This method is used to transfer mob between properties with a non-written authority. This must contain: <nlis:MobBasedMovementNonWrittenAuthority-upload-grp>
	<nlis:CarcaseFeedback>	This method is used to upload carcase kill data. This must contain: <nlis:carcase-uploadfeedback-grp>

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XML Results

Results are returned from the database, in response to the information uploaded in the XML SOAP file.

Version	XML Results	Description
	<nlis:Query-Result>	<p>There will be one <nlis:Query-Result> returned for each <nlis:Query> method sent. Within the <nlis:Query-Result>, there would be an optional <nlis:transaction-id> and a <nlis:query-results-grp> for each device or PIC queried, which may contain the following elements:</p> <ul style="list-style-type: none"> <nlis:query-type> <nlis:free-text> <nlis:message-grp> <nlis:tag-eu-grp> for a All RFID query <nlis:report-results-grp> for report queries <nlis:killed-device-list-grp-result> for deceased device enquiries <p>The tag that has been queried will be returned in the XML attribute “tag” or “pic”, e.g. tag = “982 000089765423” pic = “3MRDG099”</p> <p>For deceased device enquiries an <nlis:killed-device-list-grp-result> element will be returned for each <nlis:killed-device-list-grp> element sent. These elements will contain two attributes “establishment-number” and “kill-date” which would correspond to the establishment number and kill dates provided. Each <nlis:killed-device-list-grp-result> will contain 1 or more <nlis:tag> elements, which would contain the <nlis:rfid> and <nlis:nlisid> of the devices found, or <nlis:errortext> if no devices were found.</p>
	<nlis:SaleyardIn-Result>	<p>There will be one <nlis:SaleyardIn-Result> returned for each <nlis:SaleyardIn> method sent. Within the <nlis:SaleyardIn-Result>, there would be an optional <nlis:transaction-id> and at least one <nlis:saleyard-in-results-grp> for each device queried, which may contain the following elements:</p> <ul style="list-style-type: none"> <nlis:transaction-id> (optional) <nlis:status> <nlis:message-grp> <p>The tag that has been queried will be returned in the XML attribute “tag”, e.g. Tag = “982 000089765423”</p>

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Version	XML Results	Description
	<nlis:SaleyardOut-Result>	There will be one <nlis:SaleyardOut-Result> returned for each <nlis:SaleyardOut> method sent. Within the <nlis:SaleyardOut-Result> there would be an optional <nlis:transaction-id> and at least one <nlis:saleyard-out-results-grp> for each device queried, which may contain the following elements: <nlis:status> <nlis:message-grp> The tag that has been queried will be returned in the XML attribute “tag”, e.g. Tag = “982 000089765423”
	<nlis:P2PTransfer-Result>	There will be one <nlis:P2PTransfer-Result> returned for each <nlis:P2PTransfer> method sent. Within the <nlis:P2PTransfer-Result> there would be an optional <nlis:transaction-id> and at least one <nlis:p2ptransfer-results-grp> for each device queried, which may contain the following elements: <nlis:transaction-id> (optional) <nlis:status> <nlis:message-grp> The tag that has been queried will be returned in the XML attribute “tag”, e.g. Tag = “982 000089765423”
	<nlis:ErpException-Result>	There will be one <nlis:ErpException-Result> returned for each <nlis:ErpException>. Each <nlis:ErpException-Result> must contain the following tags: <nlis:transaction-id> (optional) at least one <nlis:erpexception-results-grp>
	<nlis:KillUpload-Result>	There will be one <nlis:KillUpload-Result> returned for each <nlis:KillUpload>. Each <nlis:KillUpload-Result> must contain the following tags: <nlis:transaction-id> (optional) at least one <nlis:killupload-results-grp>.
	<nlis:TagUpload-Result>	There will be one <nlis:TagUpload-Result> returned for each <nlis:TagUpload>. Each <nlis:TagUpload-Result> must contain the following tags: <nlis:transaction-id> (optional) at least one <nlis:tagupload-results-grp>.
	<nlis:NewPics-Result>	There will be one <nlis:NewPics-Result> returned for each <nlis:NewPics>. Each <nlis:NewPics-Result> must contain the following tags: <nlis:transaction-id> (optional) at least one <nlis:newpics-results-grp>.

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Version	XML Results	Description
	<nlis:Lodgement-Result>	There will be one <nlis:Lodgement-Result> returned for each <nlis:Query> whose <nlis:query-type> is report . Each <nlis:Lodgement-Result> will have at least one <nlis:lodgement-results-grp>.
	<nlis:TPartyP2PTransfer-Result>	There will be one <nlis:TPartyP2PTransfer-Result> returned for each <nlis:TPartyP2PTransfer>. Each <nlis:TPartyP2PTransfer -Result> must contain the following tags: <nlis:transaction-id> (optional) at least one <nlis:tparty2ptransfer-results-grp>.
	<nlis:RetrieveResults-Result>	There will be one <nlis:RetrieveResults-Result> returned for each <nlis:RetrieveResults>. Each <nlis:RetrieveResults-Result> would have at least one <nlis:retrieve-results-grp>.
	<nlis:SDAPICDetails-Result>	There will be one <nlis:SDAPICDetails-Result> returned for each <nlis:SDAPICDetails>. Each <nlis:SDAPICDetails-Result> must contain the following tags: <nlis:transaction-id> (optional) at least one <nlis:sdapicdetails-results-grp>.
	<nlis:MOBBasedInTransfer-Result>	There will be one <nlis:MOBBasedInTransfer-Result> element returned for each <nlis:MOBBasedInTransfer>. Each <nlis:MOBBasedInTransfer> will contain the following tags: <nlis:transaction-id> and at least one <nlis:mobbasedintransfer-results-grp>.
	<nlis:MOBBasedOutTransfer-Result>	There will be one <nlis:MOBBasedOutTransfer-Result> element returned for each <nlis:MOBBasedOutTransfer>. Each <nlis:MOBBasedOutTransfer> will contain the following tags: <nlis:transaction-id> and at least one <nlis:mobbasedouttransfer-results-grp>.
	<nlis:ManualKillUpload-Result>	There will be one <nlis:ManualKillUpload-Result> element returned for each <nlis:ManualKillUpload>. Each <nlis:ManualKillUpload> will contain the following tags: <nlis:transaction-id> and at least one <nlis:manualkillupload-results-grp>.

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	<nlis:DeceasedTransfer-Result>	<p>There will be one <nlis:DeceasedTransfer-Result> element returned for each <nlis:DeceasedTransfer>.</p> <p>Each <nlis:DeceasedTransfer> will contain the following tags: <nlis:transaction-id> and at least one <nlis:deceasedtransfer-results-grp>.</p>
	<nlis:ErpStatusUpload-Result>	<p>There will be one <nlis:ErpStatusUpload-Result> element returned for each <nlis:ErpStatusUpload>.</p> <p>Each <nlis:ErpStatusUpload> will contain the following tags: <nlis:transaction-id> and at least one <nlis:erp-status-results-grp>.</p>
	<nlis:TagStatusUpload-Result>	<p>There will be one <nlis:TagStatusUpload-Result> element returned for each <nlis:TagStatusUpload>.</p> <p>Each <nlis:TagStatusUpload> will contain the following tags: <nlis:transaction-id> and at least one <nlis:tagstatuschange-results-grp>.</p>
	<nlis:DevicesStatusInPICUpload-Result>	<p>There will be one <nlis:DeviceStatusInPICUpload-Result> element returned for each <nlis:DeviceStatusInPICUpload>.</p> <p>Each <nlis: DeviceStatusInPICUpload > will contain the following tags: <nlis:transaction-id> and at least one <nlis: devicestatusinpic - results-grp>.</p>
	<nlis:ReplacedTag-Result>	<p>There will be one <nlis:ReplacedTag-Result> element returned for each <nlis:ReplacedTag>.</p> <p>Each <nlis:ReplacedTag-Result> will contain the following tags: <nlis:transaction-id> and at least one <nlis:replacedtag-results-grp>.</p>
	<nlis:TransferCorrection-Result>	<p>There will be one <nlis:TransferCorrection-Result> element returned for each <nlis:TransferCorrection></p> <p>Each <nlis:TransferCorrection-Result> will contain the following tags: <nlis:transaction-id> And at least one <nlis:transfercorrection-results-grp>.</p>

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	<nlis:GenericWaybillUpload-Result>	<p>There will be one <nlis:GenericWaybillUpload-Result> element returned for each <nlis:GenericWaybillUpload>.</p> <p>Each <nlis:GenericWaybillUpload-Result> will contain the following tags: <nlis:transaction-id> And at least one <nlis:generic-waybill-results-grp>.</p>
	<nlis:OptionalAnimalInformation-Result>	<p>There will be one <nlis:OptionalAnimalInformation-Result> element returned for each <nlis:OptionalAnimalInformation>.</p> <p>Each <nlis:OptionalAnimalInformation-Result> will contain the following tags: <nlis:transaction-id> And at least one <nlis:opt-animal-info-result-grp></p>
	<nlis:LPASerialNumberUpload-Result>	<p>There will be one <nlis:LPASerialNumberUpload-Result> element returned for each <nlis:LPASerialNumberUpload></p> <p>Each <nlis:LPASerialNumberUpload-Result> will contain the following tags: <nlis:transaction-id> And at least one <nlis:lpa-upload-record-result-grp></p>

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Version	XML Results	Description
	<nlis:NVDImageDownload-Result>	<p>There will be one <nlis:NVDImageDownload-Result> element returned for each <nlis:NVDupload></p> <p>Each <nlis:NVDImageDownload-Result> will contain the following tags:</p> <p><nlis:species> <nlis:transfer-date> <nlis:from-pic> <nlis:num-head> <nlis:image-file-name> <nlis:image> <nlis:saleyard-ID> or<nlis:saleyard-pic> <nlis:nvd-comment> <nlis:bred-on-vendor-pic> <nlis:answer> <nlis:time-since-purchase></p> <p>And the below groups:</p> <p><nlis:nvd-other-image-grp> <nlis:nvd-selling-agent-grp> <nlis:nvd-destination-grp> <nlis:other-from-pic-grp> <nlis:post-breeder-grp></p>
	<nlis:RecoveredDeviceUpload-Result>	<p>This method is used to return the result for the recovered device upload.</p> <p>Each <nlis: RecoveredDeviceUpload-Result> will contain the following elements:</p> <p><nlis:transaction-id> and at least one <nlis: RecoveredDeviceUpload -results-grp>.</p>
	<nlis:MobBasedKill-Result>	<p>This method is used to return the result for the Mob-based kill upload.</p> <p>Each <nlisMobBasedKill-Result> will contain the following elements:</p> <p><nlis:transaction-id> and at least one <nlis: mobbasedkill -results-grp>.</p>
	<nlis:MobBasedMovementOffPIC-Result>	<p>This method is used to return the result for the Mob-based movement off PIC upload.</p> <p>Each <nlisMobBasedMovementOffPIC-Result> will contain the following elements:</p> <p><nlis:transaction-id> and at least one <nlis:MobBasedMovementOffPIC-results-grp>.</p>

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Version	XML Results	Description
	<nlis:MobBasedMovementOntoPIC-Result>	<p>This method is used to return the result for the Mob-based movement onto PIC upload.</p> <p>Each <nlis:MobBasedMovementOntoPIC-Result> will contain the following elements:</p> <p><nlis:transaction-id> and at least one <nlis:MobBasedMovementOntoPIC-results-grp>.</p>
	<nlis:MobBasedMovementNonWrittenAuthority-Result>	<p>This method is used to return the result for the Mob-based Movement non-written authority upload.</p> <p>Each <nlis:MobBasedMovementNonWrittenAuthority-Result> will contain the following elements:</p> <p><nlis:transaction-id> and at least one <nlis:MobBasedMovementNonWrittenAuthority-Result-grp></p>
	<nlis:CarcaseFeedback-Result>	<p>This method is used to return the result for the Carcase Feedback upload.</p> <p>Each <nlis: CarcaeFeedback-Result> will contain the following element.</p> <p><nlis:transaction-id> and at least one <nlis:CarcaseFeedback-Result-grp></p>

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Large Report Handling

The NLIS database supports requests of custom reports through the <nlis:Query> NLIS SOAP method. Report results are fetched from the database before being rendered in XML format and packaged in a SOAP response. If the report request returns a large report result set, this would take a long time before the SOAP response is ready. The waiting time often exceeds session timeout limits and report results are therefore never returned. This section proposes an approach that delivers report results responsively.

What is a Large Report?

A report request is a *Large Report* if the size of its result set exceeds a predefined threshold. This predefined threshold is 2 megabytes (2,000,000 bytes). In this approach, *Large Report* results are returned in parts. In doing this, SOAP clients are to request for the report result part by part and combine the results at the SOAP client end. Report requests whose result set does not exceed the threshold are returned in full. **NLIS Ltd reserves the right to change the predefined threshold for performance-tuning reasons without notice.**

A typical SOAP response of a *Large Report* request would return three pieces of information – current part number, next part number and a total parts count. The initial *Large Report* response would advise that the report result is to be retrieved in parts due to the large size of the report. A SOAP client may request for a specific part using any part number from 1 to total parts count. The total parts count gives SOAP clients an indication of the total number of parts available. The next part number will be absent when the last *Large Report* result part is returned.

An example of this can be found in the *Large Report - Example Large Report Response* section in *NLIS XML Interface Specification Part 3 – Example Files*.

Part identifier format

The part number is a positive integer. The part number for the first part of a *Large Report* is 1.

Request for specific report result parts

To request for a specific part of a report, SOAP clients are to use <nlis:RetrieveResults> SOAP method. The <nlis:RetrieveResults> SOAP method is an existing SOAP method that retrieves upload results for an upload. This SOAP method is extended to accept an optional part number.

If the part number is not specified in the <nlis:RetrieveResults> SOAP method and if the upload ID is for a *Large Report*, then the first part of the report result would be returned. If the report is not a *Large Report*, then the part number will be ignored and the <nlis:RetrieveResults> SOAP method will return the upload result for that upload.

If a *Large Report* was requested from the website instead of via a SOAP request, then the report result will not be stored in parts. Fetching the report result via the <nlis:RetrieveResults> SOAP method would return the entire result set, regardless of its size. In this scenario, the part number attribute of the <nlis:RetrieveResults> SOAP method becomes irrelevant. The report results would be available provided that the report was not generated more than 7 days ago.

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For examples of SOAP requests that request for a specific report result part, please refer to the *Large Report – Request a specific report result part* section in *NLIS XML Interface Specification Part 3 – Example Files*.

Error Scenarios

There are, however, scenarios where *Large Report* results are not returned.

If the upload ID corresponds to a report-type upload but the report was requested by another user, the SOAP client would not be allowed to have access to the report results.

If the requested part is not yet available at the time of request, the SOAP client would be informed of such in the SOAP response and advised to re-submit requests. One possible reason for this to occur is because the requested part is still being generated.

If the requested part number is invalid, then the SOAP client would be advised that the report results cannot be retrieved due to an invalid part number. A part number is invalid when it is:

- less than 1; or
- greater than the total number of parts available; or
- not a numeric value.

The system removes *Large Report* results that were generated more than 7 days ago. A request for a *Large Report* result that has been removed would be notified as such. The removal process is performed on a daily basis.

Please refer to the *Large Report – Error Messages* section in *NLIS XML Interface Specification Part 3 – Example Files* for examples of SOAP responses returning error messages.

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How to submit SOAP requests

NLIS Transactions

A NLIS SOAP request is to be submitted as a file attachment using the HTTP POST method¹. The way NLIS SOAP requests are submitted is no different to the way files are uploaded to a HTML webpage. The database would only process one file in the SOAP request. If there are more than one file attachments, only the first file attachment will be processed.

NLIS SOAP requests are to be posted to <https://newstage.nlis.mla.com.au/soap/upload.aspx> on the Staging server. To submit SOAP requests to Production server, the URL to use is <https://www.nlis.mla.com.au/soap/upload.aspx>.

The "Content-Type" header of the HTTP request should be set to "multipart/form-data". A mime boundary should also be specified to define the beginning and end of the file attachment. Thus, the content type of the entire HTTP request should be set to "multipart/form-data; boundary=092349234asdfasdf87234", where the mime boundary is "092349234asdfasdf87234". The mime boundary is simply a random string.

The HTTP method in the SOAP request must be the POST method.

The request must also provide a "Content-Disposition" header and also specify the name of the file attached. The "Content-Type" header of the file attachment should be set to "text/xml".

The following is a capture of the HTTP request embedded with a NLIS SOAP request. The mime boundary used here is "0000012378123877adasd000000".

```
--0000012378123877adasd000000
Content-Disposition: form-data;name="xml" filename="myUploadFile.xml"
Content-Type: text/xml

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nlis="http://www.nlis.com.au/soap/ver2.0/nlis-soap.xsd">
<SOAP-ENV:Header>
<nlis:originator-grp>
<nlis:user>username</nlis:user>
<nlis:password>xxxxxxx</nlis:password>
<nlis:email>email@mail.com</nlis:email></nlis:originator>
<nlis:create-date>20060302</nlis:create-date><nlis:create-time>042617</nlis:create-time>
</SOAP-ENV:Header>
<SOAP-ENV:Body>
<nlis:Query>
<nlis:query-type>report</nlis:query-type>
<nlis:sub-type>Current available reports</nlis:sub-type>
<nlis:output-type>csv</nlis:output-type>
<nlis:delivery-method>email</nlis:delivery-method>
</nlis:Query></SOAP-ENV:Body>
</SOAP-ENV:Envelope>
--0000012378123877adasd000000--
```

More sample source code to submit NLIS SOAP requests is provided in Appendix A.

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NVD Transactions

NVD SOAP requests are to be constructed in the same way as NLIS SOAP transaction requests described above.

However, NVD SOAP requests to the staging server are to be posted to the URL <http://nvdstage.nlis.mla.com.au/soap/upload.aspx>, while NVD SOAP requests to the Production server is via the URL <http://nvd.nlis.mla.com.au/soap/upload.aspx>.

To download NVD data and scanned images on the Staging Server, these requests need to be posted to the URL <http://nvdstage.nlis.mla.com.au/soap/download.aspx>. To download NVD data and scanned images from the Production Server, these requests need to be posted to the URL <http://nvd.nlis.mla.com.au/soap/download.aspx>.

The following is a capture of the HTTP request embedded with a NVD SOAP request. The mime boundary used here is "0000012378123877adasd000000".

```
--0000012378123877adasd000000
Content-Disposition: form-data;name="xml" filename="myUploadFile.xml"
Content-Type: text/xml

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:nlis="http://www.nlis.com.au/soap/ver2.0/nlis-soap.xsd">
<SOAP-ENV:Header>
<nlis:originator-grp>
<nlis:user>username</nlis:user>
<nlis:password>xxxxxxx</nlis:password>
<nlis:email>email@mail.com</nlis:email></nlis:originator>
<nlis:create-date>20060302</nlis:create-date><nlis:create-time>042617</nlis:create-time>
</SOAP-ENV:Header>
<SOAP-ENV:Body>
<nlis:Query>
<nlis:query-type>report</nlis:query-type>
<nlis:sub-type>Current available reports</nlis:sub-type>
<nlis:output-type>csv</nlis:output-type>
<nlis:delivery-method>email</nlis:delivery-method>
</nlis:Query></SOAP-ENV:Body>
</SOAP-ENV:Envelope>
--0000012378123877adasd000000--
```

More sample source code to submit NVD SOAP requests is provided in Appendix B.
NB: Delphi is not supported with regard to NVD SOAP requests.

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Appendix

A. Sample Code to submit NLIS SOAP requests

By using sample source code in this Appendix, you acknowledge that National Livestock Identification System (NLIS) Ltd will not be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and in any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

C#.NET

```
using System;
using System.Net;

namespace HttpPostExample
{
    /// <summary>
    /// Console application example for posting files to a web page
    /// </summary>
    class HttpPostExample
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main(string[] args)
        {
            // Create a new webclient object
            System.Net.WebClient wc = new System.Net.WebClient();

            // Set the content type to xml
            wc.Headers["Content-Type"] = "text/xml";

            // upload the file. Make sure that the file exists,
            // or else you will get an exception

            string url = "http://stage.nlis.mla.com.au/soap/upload.aspx";
            string file = "Path to your file here";
            byte [] resp = wc.UploadFile(url, file);

            // convert the response to a string
            string strResponse = System.Text.ASCIIEncoding.ASCII.GetString(resp);
        }
    }
}
```

Listing 1 - C#.NET source code to submit NLIS SOAP requests using .NET classes.

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```

using System;
using System.Web;
using System.Net;
using System.Text;
using System.IO;

public static void UploadSOAP()
{
    string sMime = "0000012378123877adasd000000";
    ASCIIEncoding enc = new ASCIIEncoding();

    // read the file contents into memory
    string path = @"path to your file here";
    StreamReader sr = new StreamReader(path);
    string sFileData = sr.ReadToEnd();
    sr.Close();

    // in this example, we want it to send it to staging server
    HttpRequest w = (HttpRequest)WebRequest.Create(
        "http://stage.nlis.mla.com.au/soap/upload.aspx");
    w.ContentType = "multipart/form-data; boundary=" + sMime;
    w.Method = "POST"; // use the HTTP POST method

    // construct the request manually
    StringBuilder sRequestData = new StringBuilder();
    sRequestData.AppendFormat("--{0}\r\n", sMime);

    sRequestData.AppendFormat("Content-Disposition: form-data;name=\"xml\"
filename=\"myUploadFile.xml\"\r\n");
    sRequestData.AppendFormat("Content-Type: text/xml\r\n");
    sRequestData.AppendFormat("\r\n{0}\r\n--{1}--", sFileData, sMime);

    // write the request data to the stream
    Stream s = w.GetRequestStream();
    byte[] data = enc.GetBytes(sRequestData.ToString());
    s.Write(data, 0, sRequestData.Length);
    s.Close();

    // get the response. This is a synchronous call.
    HttpResponse resp = (HttpResponse)w.GetResponse();
    Stream r = resp.GetResponseStream();
    StreamReader sr2 = new StreamReader(r);
    string sResponse = sr2.ReadToEnd();
    r.Close();
}

```

Listing 2 – Source code manually construct the file attachment to submit NLIS SOAP requests to staging server.

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Delphi

The following is a Delphi console application written in Delphi 7 and uses Indy 10 components.

```

program Project1;

{$APPTYPE CONSOLE}

uses
  SysUtils,
  Messages,
  IdHTTP, IdMultipartFormData, IdGlobalProtocols;

var
  stream : TIdMultiPartFormDataStream;
  httpClient : TIdHTTP;
  fileName :string;
  mimeType : string;
  stageurl : string;
  response: string;

begin
  { TODO -oUser -cConsole Main : Insert code here }
  try
    stageurl := 'http://stage.nlis.mla.com.au/soap/upload.aspx';
    fileName := 'C:\\lab\\docs\\FileUploads\\new soap tests\\query\\CurrentAvailableReports.xml';

    // Create a TIdMultiPartFormDataStream object
    stream := TIdMultiPartFormDataStream.Create();

    // create the HTTP object to submit HTTP requests
    httpClient := TIdHTTP.Create();

    // determine the mime type of the file
    mimeType := IdGlobalProtocols.GetMIMETypeFromFile(fileName);
    // attach the file
    stream.AddFile("", fileName, mimeType);

    // specify the content-type
    httpClient.Request.ContentType := stream.RequestContentType;

    // finally, post it to the url
    response := httpClient.Post(stageurl, stream);

    // and here we have the response
    System.WriteLine(response);

  finally
    stream.Free;
    httpClient.Free;
  end;
end.

```

Listing 3 – Delphi source code to submit NLIS SOAP requests to staging server.

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B. Sample Code to submit NVD SOAP requests

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C#.NET

```
using System;
using System.Net;

namespace HttpPostExample
{
    /// <summary>
    /// Console application example for posting files to a web page
    /// </summary>
    class HttpPostExample
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main(string[] args)
        {
            // Create a new webclient object
            System.Net.WebClient wc = new System.Net.WebClient();

            // Set the content type to xml
            wc.Headers["Content-Type"] = "text/xml";

            // upload the file. Make sure that the file exists,
            // or else you will get an exception

            string url = " http://nvdnewstaging.nlis.mla.com.au//SOAP//Upload.aspx";
            string file = "Path to your file here";
            byte [] resp = wc.UploadFile(url, file);

            // convert the response to a string
            string strResponse = System.Text.ASCIIEncoding.ASCII.GetString(resp);
        }
    }
}
```

Listing 4 - C#.NET source code to submit NVD SOAP requests using .NET classes.

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```

using System;
using System.Web;
using System.Net;
using System.Text;
using System.IO;

public static void UploadSOAP()
{
    string sMime = "0000012378123877adasd000000";
    ASCIIEncoding enc = new ASCIIEncoding();

    // read the file contents into memory
    string path = @"path to your file here";
    StreamReader sr = new StreamReader(path);
    string sFileData = sr.ReadToEnd();
    sr.Close();

    // in this example, we want it to send it to staging server
    HttpRequest w = (HttpRequest)WebRequest.Create(
        "http://nvdnewstaging.nlis.mla.com.au/SOAP/Upload.aspx");
    w.ContentType = "multipart/form-data; boundary=" + sMime;
    w.Method = "POST"; // use the HTTP POST method

    // construct the request manually
    StringBuilder sRequestData = new StringBuilder();
    sRequestData.AppendFormat("--{0}\r\n", sMime);

    sRequestData.AppendFormat("Content-Disposition: form-data;name=\"xml\"
filename=\"myUploadFile.xml\"\r\n");
    sRequestData.AppendFormat("Content-Type: text/xml\r\n");
    sRequestData.AppendFormat("\r\n{0}\r\n--{1}--", sFileData, sMime);

    // write the request data to the stream
    Stream s = w.GetRequestStream();
    byte[] data = enc.GetBytes(sRequestData.ToString());
    s.Write(data, 0, sRequestData.Length);
    s.Close();

    // get the response. This is a synchronous call.
    HttpResponse resp = (HttpResponse)w.GetResponse();
    Stream r = resp.GetResponseStream();
    StreamReader sr2 = new StreamReader(r);
    string sResponse = sr2.ReadToEnd();
    r.Close();
}

```

Listing 5 – Source code manually construct the file attachment to submit NVD SOAP requests to staging server.

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C. Sample Code to download NVD SOAP Information

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C#.NET

```

using System;
using System.Net;

namespace HttpPostExample
{
    /// <summary>
    /// Console application example for posting files to a web page
    /// </summary>
    class HttpPostExample
    {
        /// <summary>
        /// The main entry point for the application.
        /// </summary>
        [STAThread]
        static void Main(string[] args)
        {
            // Create a new webclient object
            System.Net.WebClient wc = new System.Net.WebClient();

            // Set the content type to xml
            wc.Headers["Content-Type"] = "text/xml";

            // upload the file. Make sure that the file exists,
            // or else you will get an exception

            string url = " http://nvdstage.nlis.mla.com.au//SOAP//Download.aspx";
            string file = " Path to your file here ";
            byte [] resp = wc.UploadFile(url, file);

            // convert the response to a string
            string strResponse = System.Text.ASCIIEncoding.ASCII.GetString(resp);
        }
    }
}

```

Listing 4 - C#.NET source code to download NVD SOAP information using .NET classes.

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References

RFC 2616: Hypertext Transfer Protocol -- HTTP/1.1. Jun 1999. [Online]. Available: <http://www.w3.org/Protocols/rfc2616/rfc2616.html> [22 March 2006].

**** END OF DOCUMENT ****

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