Reader
User Guide

ISO8030 & ISO8030BT

Series Portable Wand

Including

Aleis DataLink

Version Draft A – 10/06/2009

IMPORTANT! This User Guide must be read in conjunction with Reader, prior to use.

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N13429

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Regularity Notices and Conformity

USA – FCC

Information to the user (FCC Part 15.105)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Modification warning (FCC Part 15.21)

Warning: Any changes or modifications not expressively approved by Aleis could void the user's authority to operate this equipment.

Canada

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Europe CE

This device has been tested and meets the Electromagnetic Compatibility requirements for EN300 330

Australia and New Zealand - C-Tick

This device has been tested and meets the Electromagnetic Compatibility requirements for CISPR 11

Part 1: Important User Instructions

1.0 8030 Reader Instructions

IMPORTANT

Must be read prior to using system

USER INSTRUCTIONS

The following instructions must be wholly adhered to or permanent damage to the antenna/reader and/or permanent data loss can occur. Non-conformance to the handling and operating instructions will immediately void all warranties for the antenna/reader and software.

1. Battery must be charged every two months and for maximum performance, batteries need to be charged before and after use.

2. The clock will lose time if the battery is run or left flat. Use DataLink to update your time.

3. Charge for 24 hours for 1st initial charge

4. Unit is ready to use straight out of the box. No need to change any settings. If settings are changed unit can be reset to factory defaults. (See Menu tree in this manual)

5. WARNING: All Aleis Warranties will be immediately voided if this reader is used in any way with HyperTerminal

6. Up to 1,000 sessions, with maximum of 4,000 RFID numbers per session or 100,000 total records. Data must be cleared at 100,000 total records, or 1000 sessions whatever comes first

7. During transportation, readers must be protected from shock in a padded case or box.

8. Aleis suggests a form of transient protection unit be used while charging the reader to help prevent power surges/spikes.

9. Charging batteries: please note specific male and female groove when fitting charge leads to unit.

10. Have only one reading system at a time switched on.

11. Do not hose or submerge antenna/reader in water.

12. Use only a very lightly damp cloth to clean antenna/reader.

13. Do not use chemicals to clean antenna/reader.

14. Do not use wand as a prodder or as any form of a cattle motivator.

15. Do not drop reader boxes as electronics are contained within.

16. All boxes with seals are to be kept sealed.

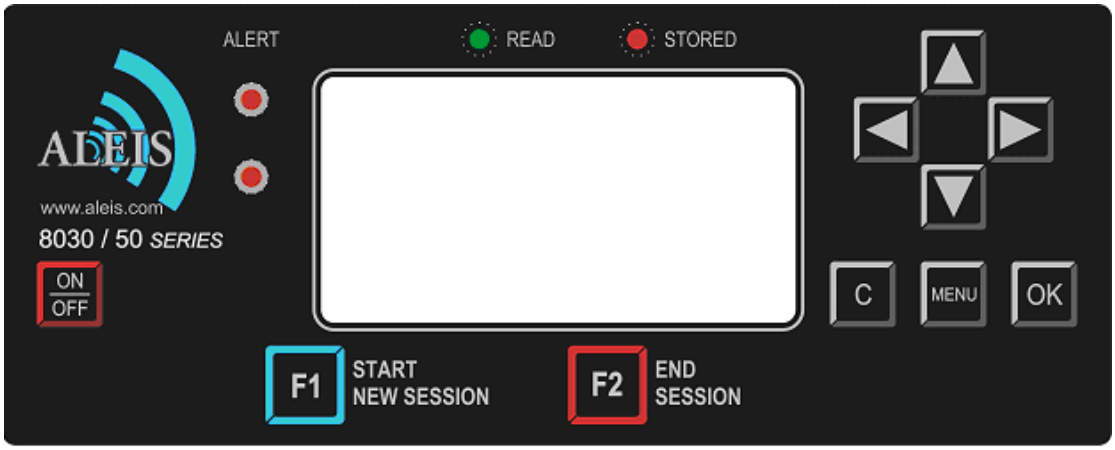
17. Do not remove any VOID stickers from readers.

18. (For RF link models) Do not have metal objects between reader and RF Link as it will affect range and data may not be transferred and may be lost.

19. **Aleis DataLink is a free program to transfer cattle to the NLIS database and download to Excel.**

20. Aleis Conditions of Sale apply.

2.0 The 8030 Keypad



3.0 8030 Series Reader Method of Use

Helpful Hints

- *First, it is recommended to go to Menu Setup diagram in User Guide, then go to MENU key on reader, and become familiar with the settings in the reader while looking at the User Guide.*
- *Pressing C once takes you back to previous step.*
- *Keep session numbers recorded somewhere so you know which cattle are recorded in individual session numbers.*
- *Screen will automatically turn off if not used within 30 minutes. (Menu selectable)*

3.1 How to: Read & Store RFIDs

1. Turn the 8030 Series Reader ON.

2. Press the button on the wand and wave the wand past the RFID device - ear tag or rumen pellet. When reading rumen pellets, simply wave the wand in a reverse 'L' pattern behind the front leg of the animal, or in front of the brisket.

3. When you have finished reading, you may turn the Reader OFF, and download it later at your PC, or you may start a new session and read another group of animals.

3.2 How to: **Create Sessions** using menu.

1. To start a new session to read another group of animals, simply press the MENU button.
2. The word 'Session' will be highlighted, press the OK button.
3. The word 'New' will be highlighted, press the OK button.
4. Select Yes by using the left arrow key, then press the OK button. (If previous sessions are empty, you will not be able to create a new session)
5. Press the C button *(located to the left of the MENU button)* until you return to the main reading screen, and read the next group of cattle.

3.3 How to: Create Sessions using F1 and F2 Keys.

1. Press F2 to end current session.
2. Press F1 to start new session. Four Beeps will be heard.

Note: you can start a new session even if the one you have ended has no RFID devices in it.

3.4 How to: Upload RFIDs into the Reader

The feature of uploading RFIDs into the 8030 portable wand is to allow you to find particular RFIDs that you need to identify. For example, if you need to find a particular animal that was treated with a certain medicinal treatment, you can upload the RFID into the reader. When you read the animal with that RFID, the reader will alert you with a long series of beeps so that you will know you have found the animal you were looking for.

To use this feature, there are two steps you will need to perform:

1. Create a file to upload into the reader.
2. Upload the RFIDs into the reader.

Before starting you will need:

1. Aleis DataLink installed on your computer.
2. A working COM port – you can check this by turning your 8030 reader on, and then opening Aleis DataLink. Down the bottom right corner of the Aleis DataLink screen, you should see that the software has connected to a particular unit.
3. A list of RFIDs that you want to put into the reader.

Step 1: Creating a file to upload into the reader.

Creating the file to upload into the reader is very easy. You can do this in Microsoft Excel or Wordpad or Notepad. All you need to do is have a list of RFIDs with the word TAG as the first entry, ie at the top of the list. It must look like this:

TAG
982 000023661452
982 000016654299
982 000027909419
982 000024909416
982 000009161045
982 000024566253
982 000015883922
982 000030781909

If you are using Microsoft Excel, then simply put this in Column A, with the word TAG in Row 1.

Once you have done this, you will need to save this as a text file (*.txt). It is very important that you save this as a text file or the operation will not work. Hint: When you save this, give it a name that is five letters or less.

Step 2: Upload the files into the reader.

1. Open up Aleis DataLink.
2. Once the software has found the reader, click on the Open button located at the left side of the DataLink screen (there is a big yellow manilla folder on the button).
3. Find the file that you created, and click on the open button.
4. You will see that file name listed in the main screen of Aleis DataLink where the session names and numbers are normally displayed.
5. Click on that file name.
6. Now click on the Upload button located at the left side of the DataLink screen.
7. You will be asked to enter a name. If you want to change the name, go ahead and type in what you would like, then click on the OK button.
8. When it has been successfully uploaded, you will see at the bottom left of the DataLink screen, the words, "Upload Complete".

3.5 How to: Compare RFIDs in the Reader

You want to ensure that every time you read an RFID, the reader is checking it against the list of RFIDs you have uploaded into the reader. To make this happen, do the following:

1. Ensure the reader is turned on.
2. Start a new session – as per your requirements . . . so you will be using a template that you are planning to do your work with.
3. Once you have started the new session, and you are in the main reading screen, press the MENU button.
4. Scroll down to **Read Setup** and press the OK button.
5. Scroll down to **Comparison** and press the OK button.
6. Scroll down to ☐ **Session ( )** and press the OK button.
7. Scroll back to the name you saved the uploaded file as and press the OK button.
8. Press the C button (located beside the MENU button).
9. The reader will then reboot – now press the MENU button again.
10. Scroll down to **Read Setup** and press the OK button.
11. Scroll down to **Alert** and press the OK button.
12. Ensure **Condition** is highlighted and press the OK button.
13. Scroll down to ☐ **On Match** and press the OK button – you will see a tick appear in the box.
14. Press the C button (located beside the MENU button).
15. Scroll down to **Action** and press the OK button.
16. Scroll down to ☐ **Msg, LEDs, Buzzer** and press the OK button – you will see a tick appear in the box.
17. Press the C button (located beside the MENU button).
18. Scroll down to **Duration** and press the OK button.
19. Choose the setting you want and press the OK button. 'Until Keypress' means that the reader will continue to beep and flash the LEDs until any key on the reader is pressed.
20. Press the C button (located beside the MENU button) three times – until you see the main reading screen.
21. Turn the reader off and then back on.
22. The reader is now ready to use and will compare the RFIDs you read against the list you uploaded.

Note: When you upload another new list of RFIDs into the reader, in Step 6 of the above, you will need to tick the box ☐ **Current Session and then scroll back down and tick the ☐ **Session ( )** again to reactivate the reader to search

3.6 Formatting the File System

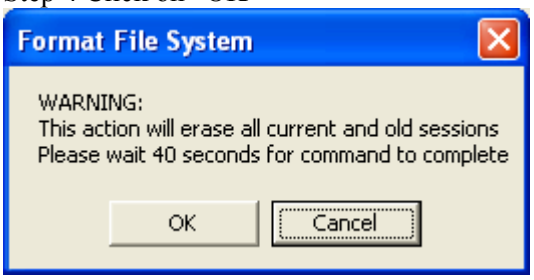
Formatting of the file system is very important to keep your reader operating at its maximum performance. Once the reader has read and stored a lot of tags eg 40000+ you may notice a slow down in its performance when storing and recalling data. This is similar to your PC when the Hard Drive gets full. When you clear the reader it doesn't actually remove the data so you can retrieve it if you accidentally have cleared the reader. When a "Format file system" is done the data then is lost.

Formatting of the file system should be done every 2-4 months for heavy users or 4-6 months for light users.
Before formatting the file system make sure you have saved any data in the reader. After formatting the data is **NOT** recoverable.
When the reader is formatted your templates will also be cleared so note down the names and the fields in the template so you can set them up again.

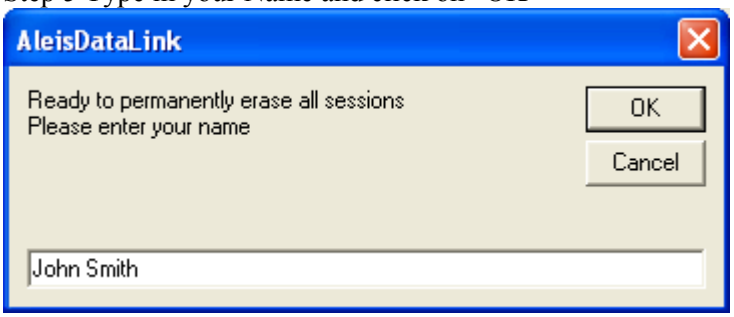
3.7 How to Format your reader

Note: Read above "Formatting File System in Reader" first

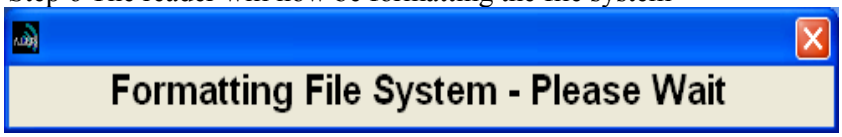
Step 1 Open DataLink
Step 2 Click on "Setup".
Step 3 Click on "Format file system"
Step 4 Click on "OK"



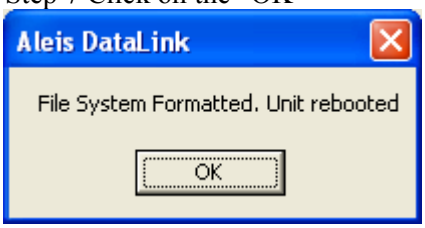
Step 5 Type in your Name and click on "OK"



Step 6 The reader will now be formatting the file system

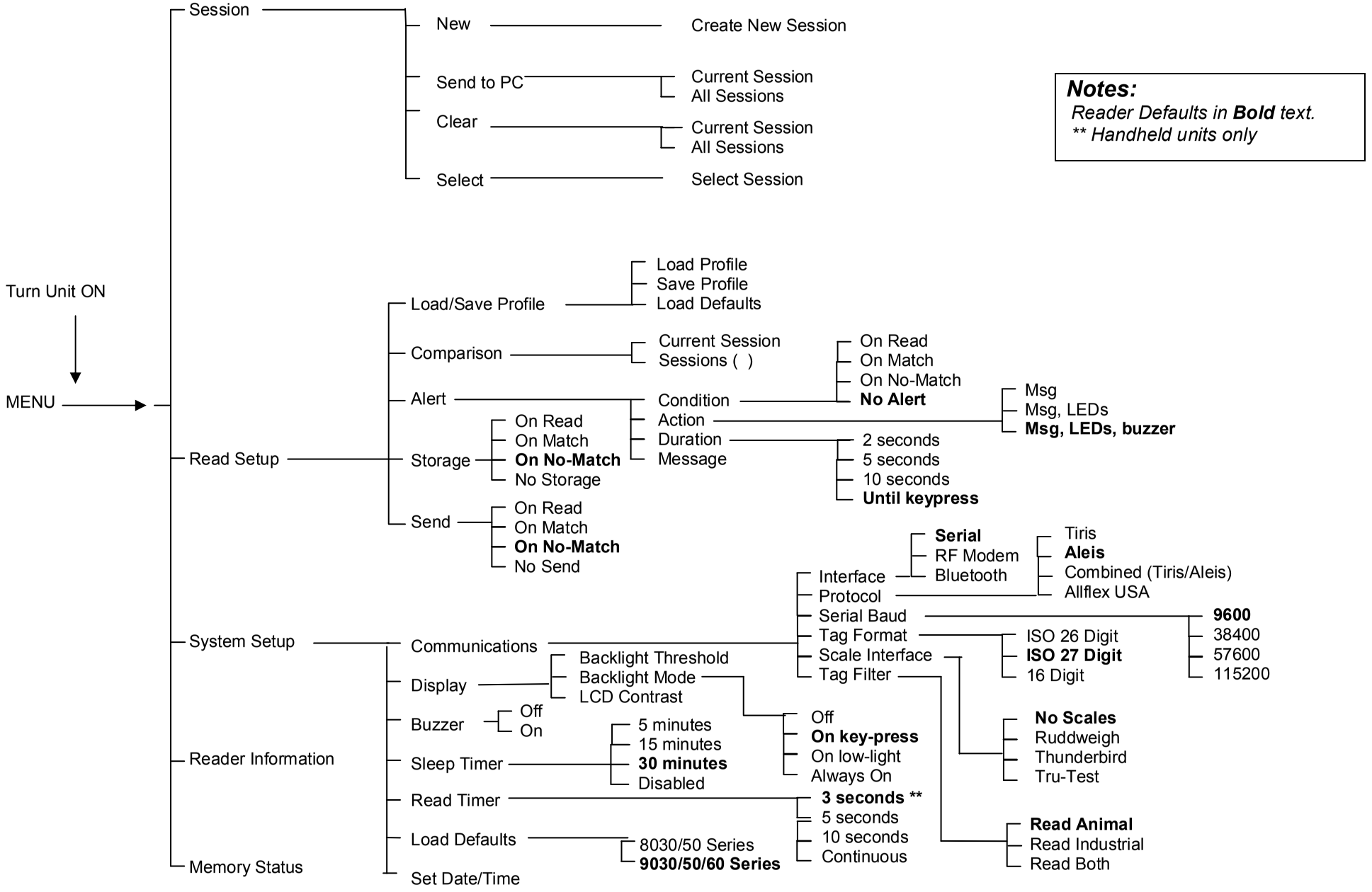


Step 7 Click on the "OK"



Your reader is now formatted.

4.0 8030 Series Menu Tree



5.0 Audio and Visual Alerts

Features	Buzzer	LCD Display	LED's at Top of LCD	6 Auxiliary LED's – 3 each side of the screen
Valid READ	One beep	Current RFID number, eg. 971 000000002861, at top of screen	READ LED blinks once	
Valid READ & ID STORED	Two beeps	Current RFID number, eg. 971 000000002861, at top of screen, and counter at bottom right of screen will increase.	READ and STORED LED's blink once	
No ID Read	One long beep (after read on time out)	NO RFID READ		
No RF Signal being received.	Two very quick beeps (every 30 seconds)	(Flashing)		
Battery Charge at Low Level	Three very quick beeps (every 60 seconds)			
Battery Charge at Critically Low Level	Constant Beeping	BATTERY LOW		Flashes as unit is about to turn off.

Legend for LCD Visual Displays.

Battery Level Indicator

- Fully Charged
- Half Charged
- No Charge—unit will turn off

BlueTooth

BT **(Solid)** Connected

BT **(Flashing)** Not Fitted

RF Signal Indicator

- Signal at Full Strength
- Signal at 2/3 Strength
- **(Flashing)** No Signal—no IDs will be sent

6.0 Menu Main Menu (Reader selection choices)

6.1 Sesssion

New

-New Session

Send to PC

Send to PC

- Current Session
- All Sessions

Clear

Clear

- Current Session
- All Sessions

Select

- Selects Session number and count.

6.2 Read Setup

Load/Save Profile

Load defaults – (Resets Read Setup to factory defaults)

Comparison

Compare with

- Current Session
- Session (Select which session number you want to compare RFID's with)

Alert

Alert Options

Condition

Alert Condition

- On Read
- On Match
- On No Match
- No alert

Action

Alert Action

- Msg = Message on screen
- Msg,LED's = Message & Lights
- Msg, LED's, Buzzer = Message, Lights & Buzzer

Duration

Duration

- 2 Seconds
- 5 Seconds
- 10 Seconds
- Until Keypress

Storage

Store Condition

- On Read
- On Match
- On No-Match
- No Alert

Send

Send Condition

- On Read
- On Match
- On No-Match
- No Send

6.3 System Setup

Communications

Interface

Select Interface

- Serial
- RF Modem
- Bluetooth

Protocol

Select Protocol

- Tiris
- Aleis
- Combined (Tiris/Aleis)
- Allflex USA

Serial

Baud Rate

- 9600
- 38400
- 57600
- 115200

Tag Format

- ISO 26 Digit
- ISO 27 Digit
- 16 Digit

Scale Interface

- No Scales
- Ruddweigh
- Thunderbird
- Tru-Test

Display

Backlight Threshold

(Select required lighting Eg 1 = always bright. 16 = will come on when very dark. Subject to Backlight Mode selection below)

Backlight Mode

- Off
- On key-press
- On low-light
- Always On

LCD Contrast

(Select required contrast Eg 90 = light contrast. 120= very dark. Subject to viewing angle)

Buzzer

Buzzer On/Off

- Off
- On

Sleep Timer

Sleep Timer

- 5 Minutes
- 15 Minutes
- 30 Minutes
- Disabled

Read Timer

Read Timer

- 3 Seconds
- 5 Seconds
- 10 Seconds
- Continuous

Load Defaults

Load Defaults

- 8030/50 Series
- 9030/50/60 Series

Set Date/Time

-Sets Date and Time

6.4 Reader Information

(This is for technical assistance only & product identification)

Reader Info
Hardware: (Hardware Version)
Software: (Software Version)
Date: (Software Date)
Serial No: (Reader Serial Number)
Reader Type: (Aleis Reader Model)

6.5 Memory Status

Used Memory X%	Percentage of Used Memory
Free Memory X%	Percentage of Free Memory
Reclaimable Memory X%	Percentage of Recoverable Cleared Memory (old Sessions)

7.0 Battery Charging

Charge for 24 hours for 1st initial charge.
Aleis suggests a form of transient protection unit be used while charging the reader to help prevent power surges/spikes.

The batteries in the unit can be charged by using the 6-pin connector on the side of the unit. When the battery charger is plugged in, it will automatically turn the reader ON. This is completely normal – you do not need to turn the unit OFF.

Once the unit has been on charge overnight the unit will display one of these messages.

- Battery Charged (dv)
- Battery Charged (to)
- Battery Charged (t)

7.1 Battery Messages

Battery Charged (dv)	-Battery charged at normal conditions
Battery Charged (to)	-Battery charged and timed out at 8 hours.
Battery Charged (t)	- Battery charged and tripped out on high temperature.
Thermistor Error	-Unit has reported a battery error and will not charge. Contact supplier for further help.
Battery Too Hot	-Battery Temperature over 55oC. Will not start charging until battery temperature falls to 40oC.

Message will appear and stay on top of screen until cleared or unit is turned off

7.2 Battery Charging Requirements

- Charge unit using supplied charger only.
- Do not use Reader while it is being charged.
- Ensure when fitting charger connector that the male and female groove are aligned and pushed in correctly.
- Must charge reader prior to storage and every 10-12 weeks to maintain clock time.

7.3 Battery Charging Tips

- To ensure that the battery receives a full charge, charge the unit overnight (8hrs).
- To verify that the unit is charging, the battery icon will simulate being filled up, i.e. the icon will turn black.
- The battery does not have to be flat to be charged. It is recommended that after each use, the unit is charged.

7.4 Battery Charging Options

An optional Car Cigarette Lighter Battery Charger is available.

7.5 Alternative Recharging Methods

Contact Aleis for alternative methods of charging.

8.0 The Clock on the 8030 Reader

The clock on the 8030 Reader is what will put the date and time stamp on each RFID that is read by the reader. To reset or change the date and time on the clock, simply plug the 8030 Reader into your computer, turn the reader on, and then open Aleis DataLink. (This is the default setting in DataLink Setup). After 30 seconds, the reader will automatically be updated with the date and time that is on your computer. **Please ensure the date and time on your computer is correct.** This feature can be disabled in the DataLink setup menu by unticking the box.
You can also change the clock in the Menu through System Setup.

NOTE: The clock will lose time if the battery is run or left flat.

9.0 Using BlueTooth (On 8030BT models only)

The BlueTooth is turned on via the menu.
Eg. Menu/System Setup/Communications/Interface/Bluetooth
The BT symbol will appear solid if a Bluetooth is fitted. If it flashes a Bluetooth is not fitted.

Notes:
1. The BlueTooth Feature is only available if you have a 8030BT model. If you don't your unit can be upgraded for this feature. Contact the supplier for further information and costing.

2. BlueTooth is a way you can communicate to a PC, PDA or other device without using the serial cable, referred to as a Wireless connection.

3. The PC or device that 8030BT is going to communicate to must have BlueTooth fitted. The PC or device sets up the link between the two units.

9.1 BlueTooth PIN code

The Pin Code or access code as it is sometimes referred to is the 4 digit serial number on the side of the 8030BT.
If the sticker is missing, when you discover the 8030BT on the PC or device, the 4 digit number which comes up in the name of the 8030BT discovered, is the pin number.

Refer to your PC or other devices manual to see how to discover and connect to a BlueTooth device

Aleis DataLink Software

10.0 Aleis DataLink Software

IMPORTANT

Must be read prior to using software

This software has been purposefully designed to download the RFID's and/or respective data relating to those RFID's from the Aleis 7000 8030/50 and 9030/50/60 Series Readers. Aleis accepts no responsibility for any form of improper use, negligent or otherwise, resulting in the loss of RFID's with the use of this software. All practical assistance will be given in the operation and understanding of this software, and this can be obtained by contacting Aleis or an Aleis distributor. Copying of this software is strictly prohibited.

1. This software is designed for Aleis 7000 8030/50 and 9030/50/60 Series Readers ONLY.

2. Aleis Reader must be plugged into computer this software is installed on.

3. Aleis Reader must be turned ON before opening Aleis DataLink.

4. Aleis DataLink PC Requirements:

Operating Systems

- Windows ME
- Windows NT 4.0
- Windows 2000
- Windows XP (*Recommended*)
- Vista

Minimum Hardware

- Pentium 233 MHz (*Recommended:* Pentium 500MHz or greater)
- 64 MB RAM (*Recommended:* 128 MB RAM or greater)
- 20 MB hard drive space

This software package serves as an easy download program which automatically downloads the reader's session list. Once the reader is downloaded, you can then save particular downloaded sessions or all downloaded sessions on your computer. You can then open these saved files in Excel or your desired program. The program also allows you to transfer animals on the NLIS database.

Special features include:

- Auto-detects what com-port reader is plugged into.
- Quick and easy animal transfers to the NLIS database for Producers and 3rd party users.
- Downloading all animal data from reader to excel.
- Loading tag file buckets from database to the reader.
- Updating readers software.
- Updates clock on reader to time displayed on computer. (For models that have clocks.)

10.1 Aleis DataLink Installation

To install DataLink**:**

1. Place the DataLink CD into the CD drive; the program will automatically begin installation.
   If not Go to My Computer Double click on the CD Rom Drive Browse the CD and Double click on the icon called DataLink

2. Follow the installation prompts, and click on Finish when installation is complete.

10.2 Aleis DataLink Operation

Operating Aleis DataLink:

IMPORTANT: The Aleis Reader *must be plugged securely into your computer and turned on* before opening Aleis DataLink.

1.0 Plugging the Aleis Reader into your computer.

Plug the 9 pin female serial connector into the 9 Pin male serial connection at the back of your computer or laptop. Some laptops do not have a serial connection, and so a Serial to USB adaptor can be used. Should such an adaptor be used, Aleis DataLink works just as effectively provided you have installed the drivers for the adaptor correctly.

2.0 Opening Aleis DataLink.

1. Turn Aleis Reader on

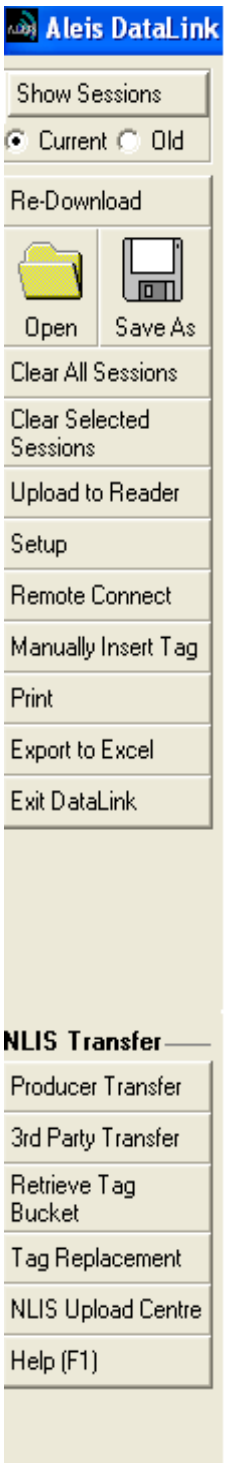
2 Double click on the Aleis DataLink icon located on your desktop.

3. This will open up the software for operation. As soon as the program is opened, it will automatically download the reader for you.

10.3 Aleis DataLink Menu Screen

Full Index for Help in software (F1)

Brief overview of Aleis DataLink Menu Screen



Show Session- Displays lists of sessions when you select old or current
Current -Displays current session
Old- Displays sessions previously cleared from reader

Re-downloads session out of reader

Open: Opens sessions previously saved on computer
Save As: Saves sessions to file of choice on computer

Clears all Sessions from reader

Clears selected session from reader

Uploads selected session to reader

Setup **1**: Update reader software, **2**: Format file systems, **3**: Advanced features

Remote Connect only used in multiple reader situations

Gives the ability to enter RFID number or NLIS number manually in the event of tag failure.

Prints selected information

Exports session to Excel

Exits DataLink

Below are a list of options used for transferring information and retrieving information from the NLIS database (Australia Only)

Used for producers to transfer livestock to the NLIS database

Used for third party to transfer livestock to the NLIS database

Retrieves all NLIS numbers recorded to individual PIC from NLIS database

Used for replacing non reading identification tags

History of all transfers to NLIS Database

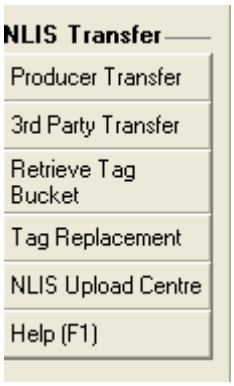
Gives a full index of all help functions

10.4 Producer Transfer (Australia Only)

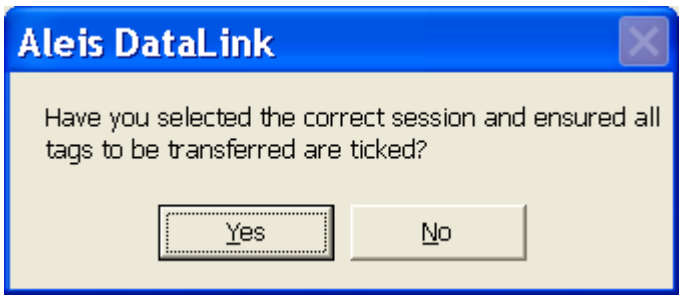
This opens the NLIS Transfer Wizard, using the selected fields in the current session(s). This button is used for Producer to Producer transfers.
For further information please use the help feature in Aleis DataLink.

Producer Transfer Steps

Step 1 Click on the "Producer Transfer" button.

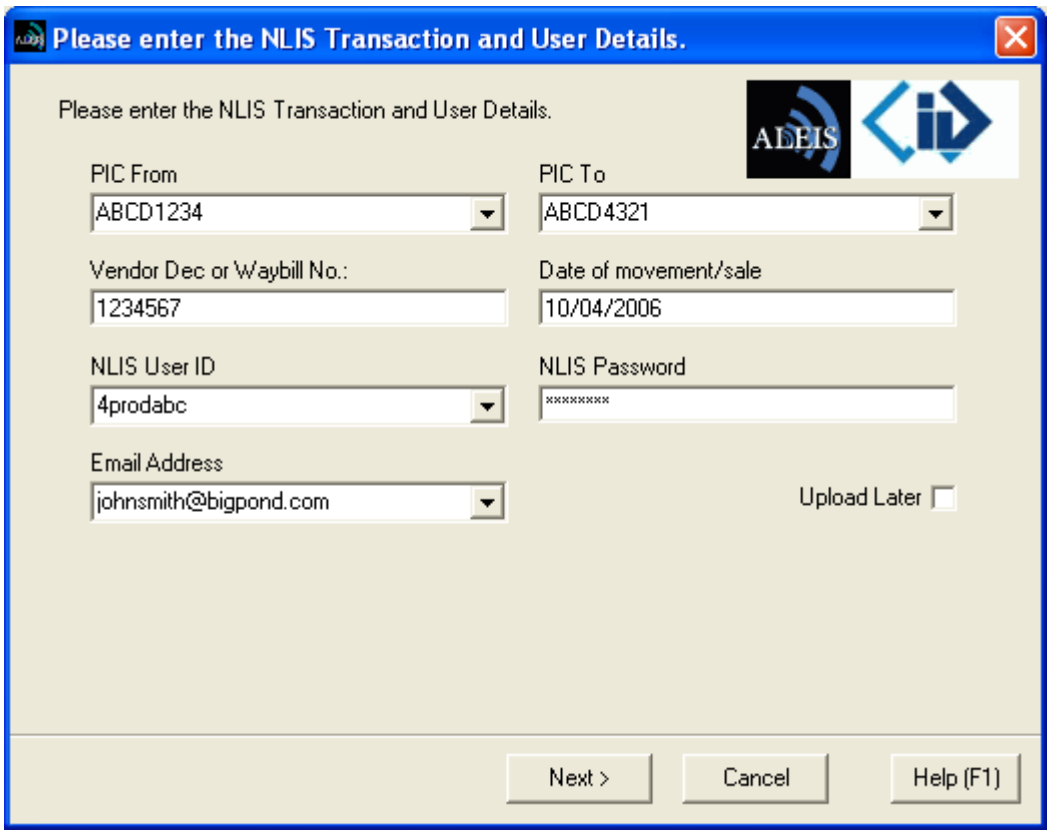


You will be presented with the following Box



Step 2 Click on "Yes" if you are sure you have selected the correct session and unticked any tags not to be transferred.

You will then be presented with the following Box

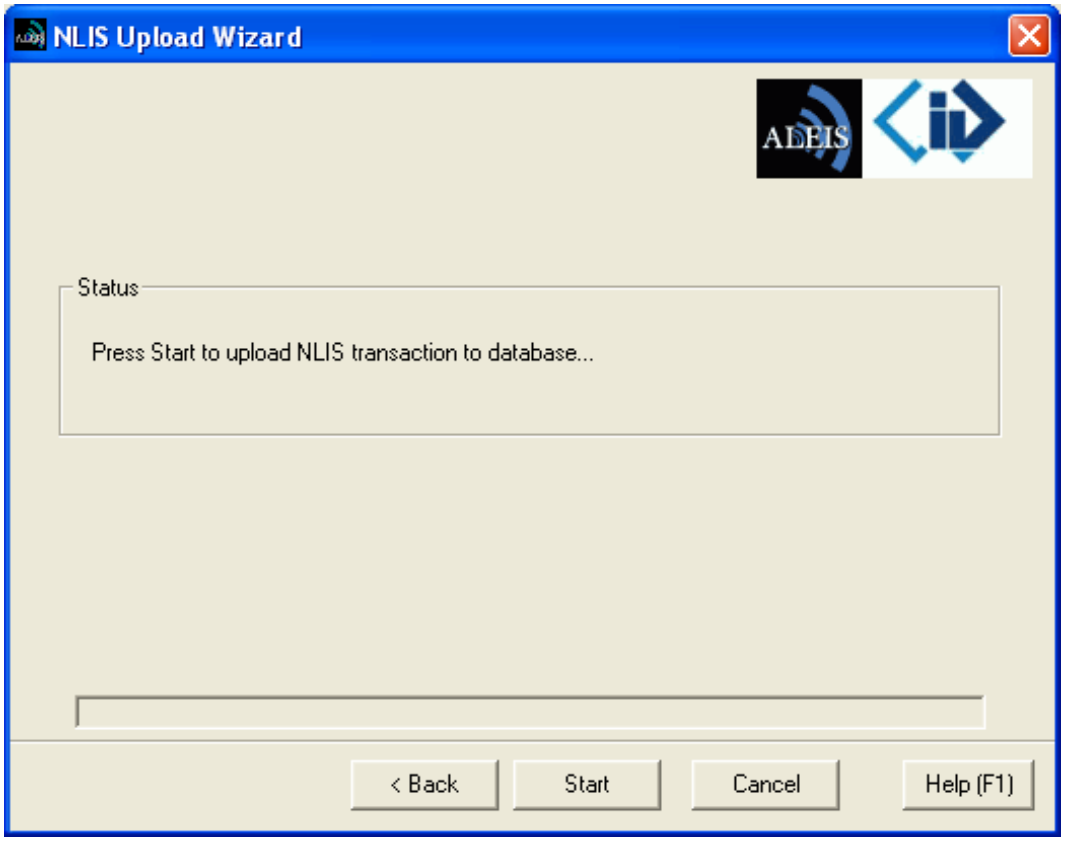


Step 3 After completing the form Click on "Next"

If you choose to tick the Upload Later box the Transfer will not be completed but you can complete the transfer at any time by resuming the upload from the Upload Centre.

The PIC From PIC To and Vendor Dec/Waybill No. can be loaded straight into the form if the fields PI1, PI2 and VEN were used as Data entry on Data entry readers.

You will then be presented with the following Box



Step 4 Click on the "Start" box

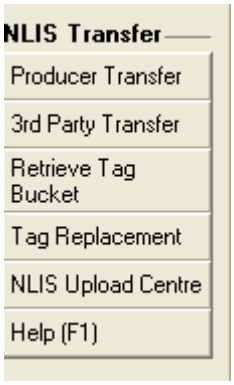
On a successful or unsuccessful transfer you will get a message in the status box.

10.5 3rd Party Transfer (Australia Only)

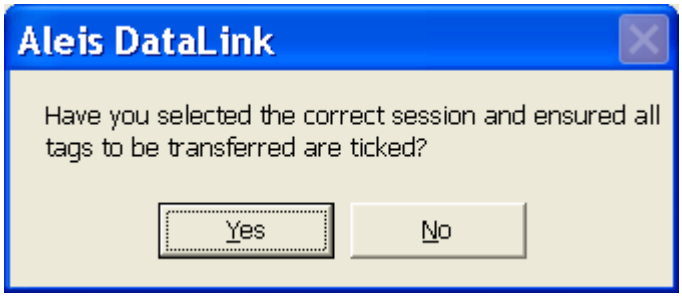
This opens the NLIS Transfer Wizard, using the selected fields in the current session(s). This button is used for Third Party transfers with or without written permission.
For further information please use the help feature in Aleis DataLink

3rd Party Transfer Steps

Step 1 Click on the "3rd Party Transfer" button.

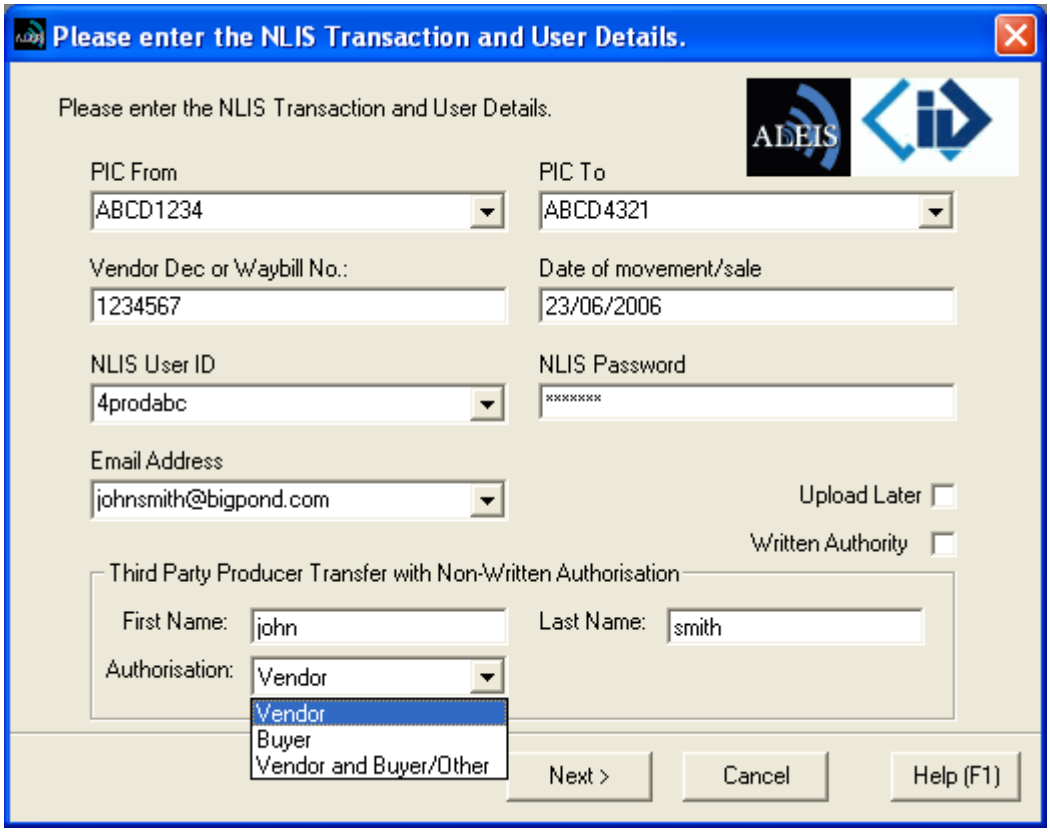


You will be presented with the following Box



Step 2 Click on "Yes" if you are sure you have selected the correct session and unticked any tags not to be transferred.

You will then be presented with the following Box

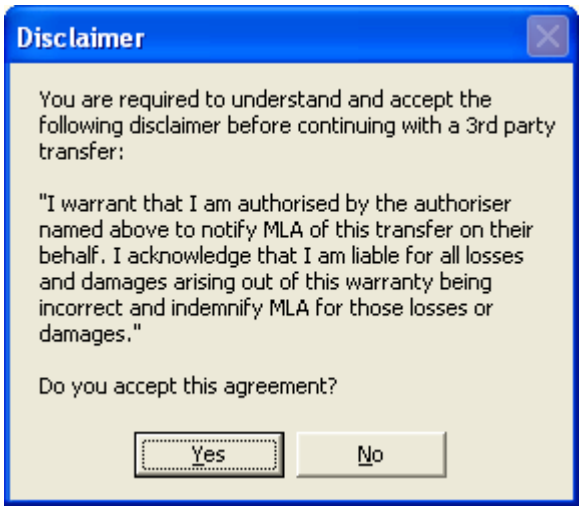


Step 3 After completing the form Click on "Next"

If you choose to tick the Upload Later box the Transfer will not be completed but you can complete the transfer at any time by resuming the upload from the Upload Centre.

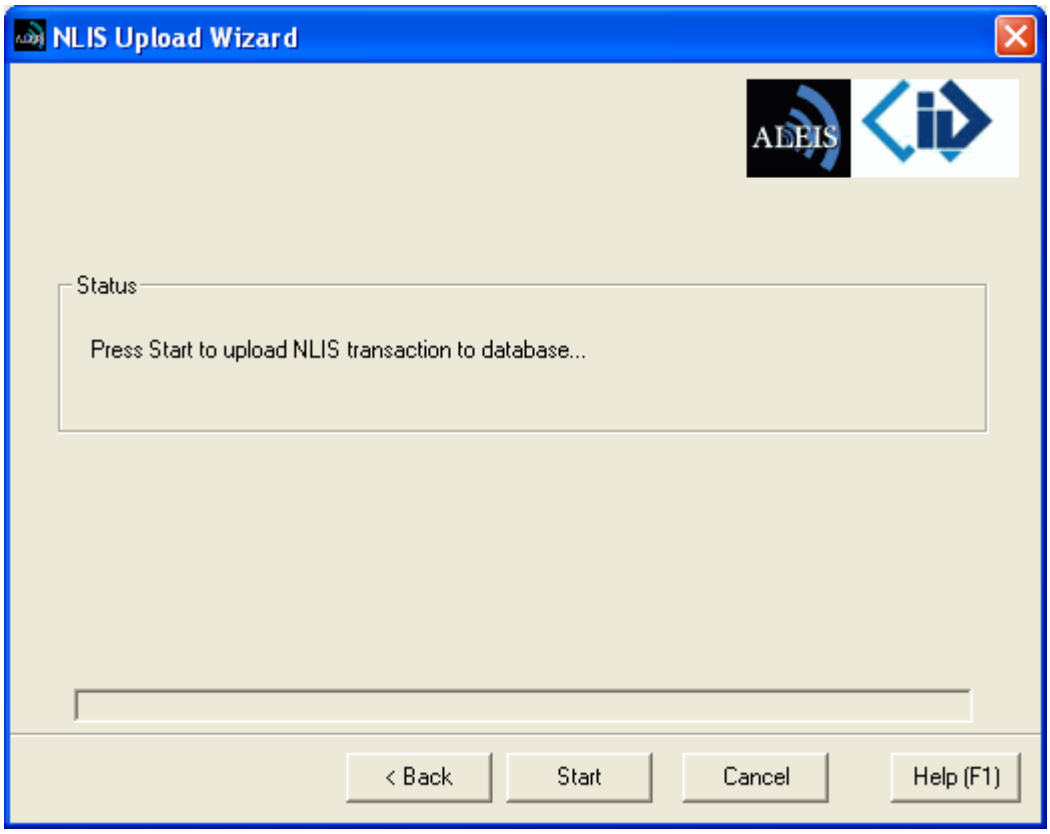
The PIC From PIC To and Vendor Dec/Waybill No. can be loaded straight into the form if the fields PI1, PI2 and VEN were used as Data entry on Data entry readers.

You will then be presented with the following Box



Step 4 Click on "Yes"
You have to accept this agreement to finish the transaction

You will then be presented with the following Box



Step 5 Click on the "Start" Box

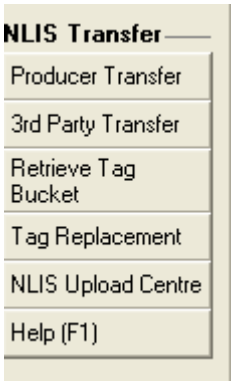
On a successful or unsuccessful transfer you will get a message in the status box.

10.6 Retrieve Tag Bucket (Australia Only)

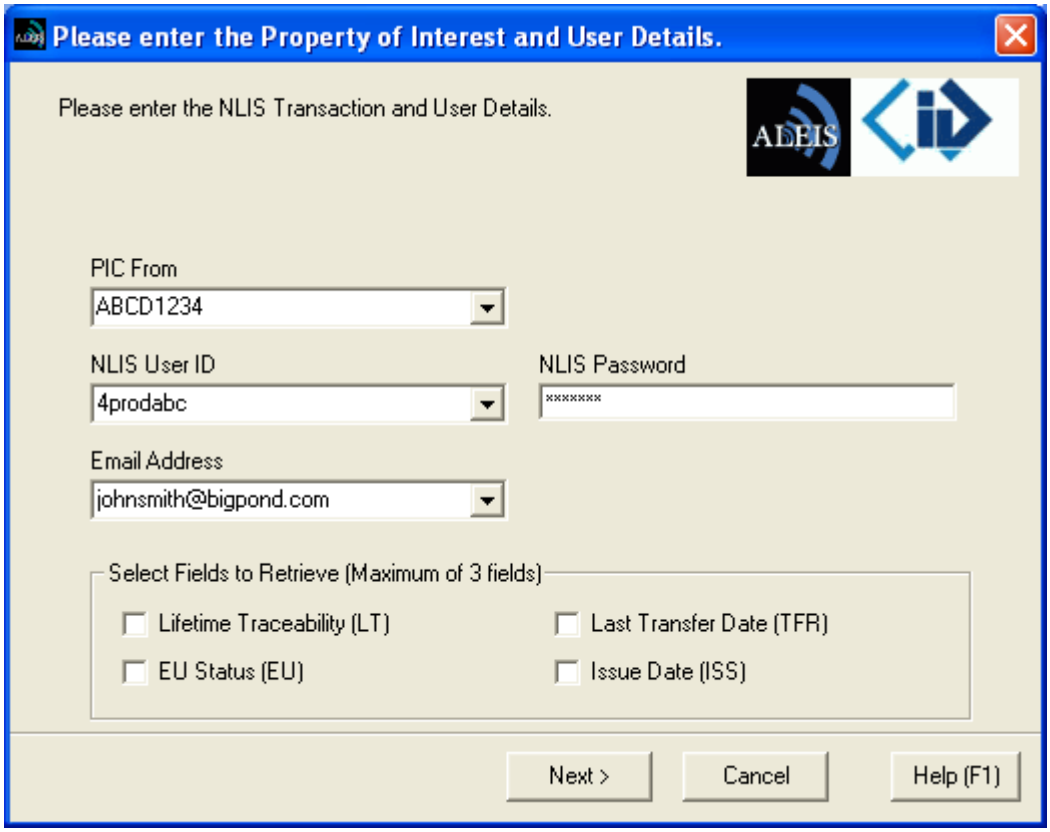
This opens the NLIS Transfer Wizard, to retrieve all RFID and NLIS ID tag numbers that match a specific PIC from the NLIS database. You can also retrieve the Lifetime Traceability (LT), EU Status (EU), Last Transfer Date (TFR) and the Issue Date (ISS)
For further information please use the help feature in Aleis DataLink

Retrieve Tag Bucket Steps

Step 1 Click on the "Retrieve Tag Bucket" button.

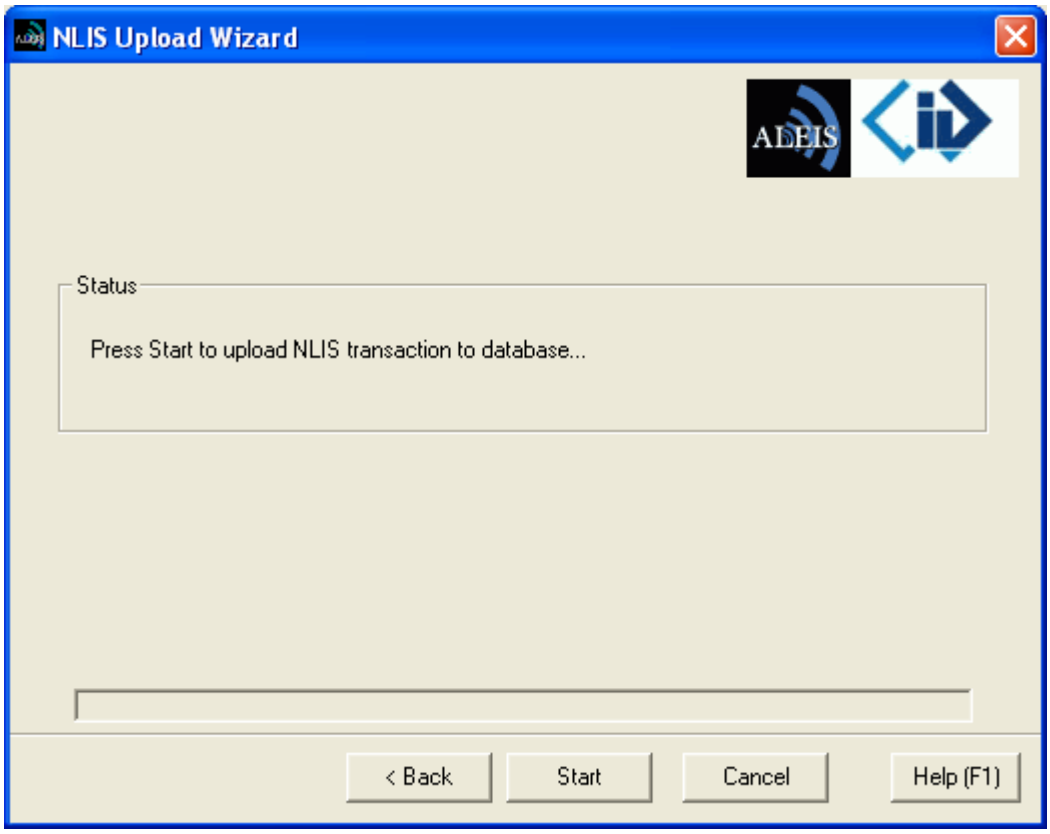


You will then be presented with the following Box



Step 2 After completing the form Click on "Next"

You will then be presented with the following Box



Step 3 Click on "Start"

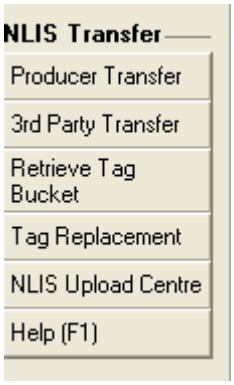
The Tag Bucket will be loaded into the main screen of DataLink.

10.7 Tag Replacement (Australia Only)

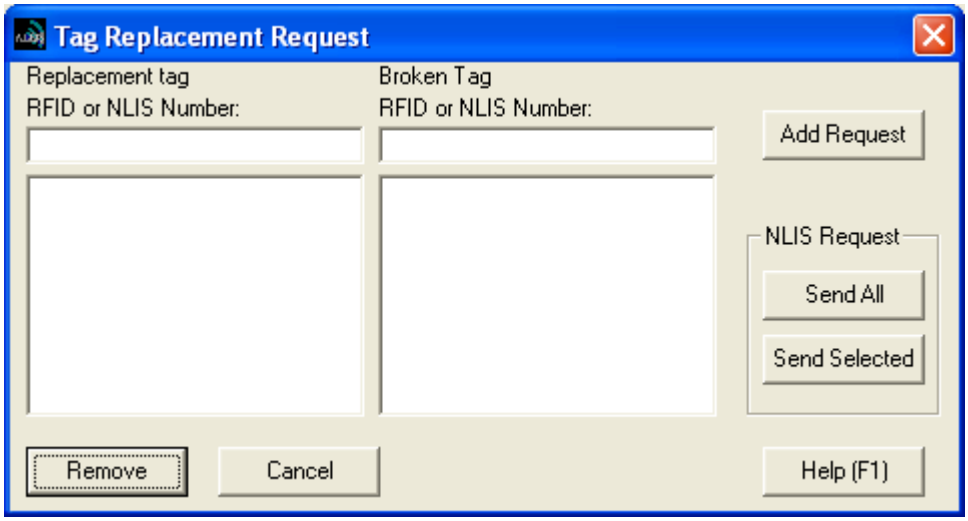
This opens the NLIS Tag Replacement Request form using the selected tags in the current session. This button is used for replacing defective RFID tags.
For further information please use the help feature in Aleis DataLink

Tag Replacement Steps

Step 1 Click on the "Tag Replacement" button.

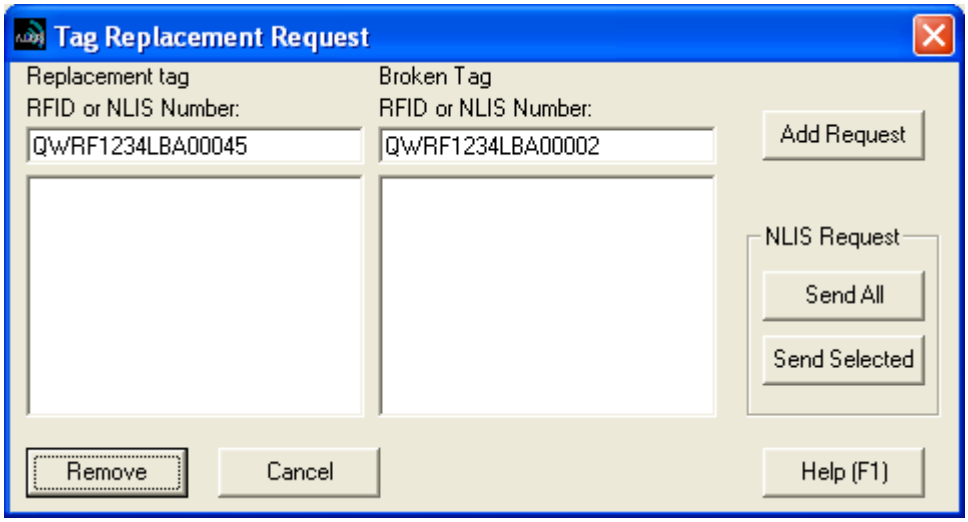


You will be presented with the following Box

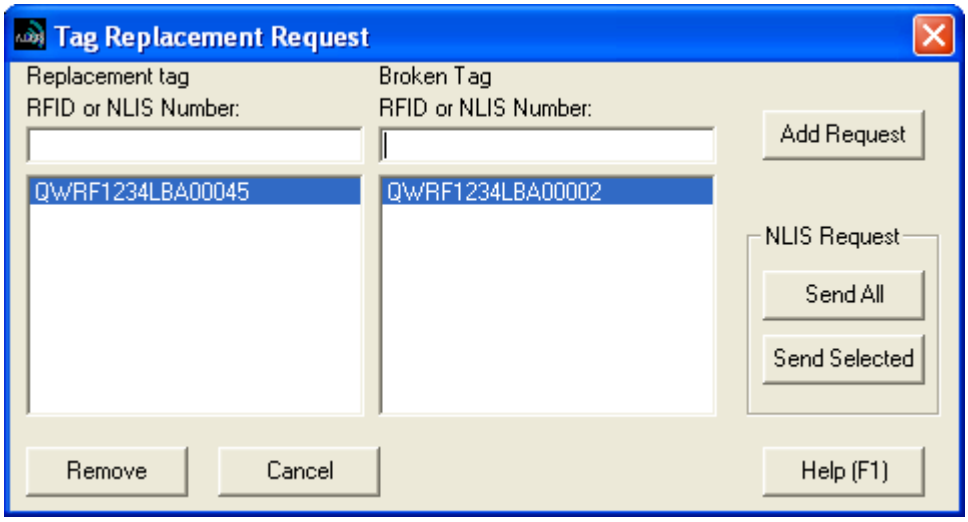


If there are any tags in the current session you are given the option to load them into the Replacement tag box.

Step 2 Type in the Replacement tag and the Broken tag in the boxes below

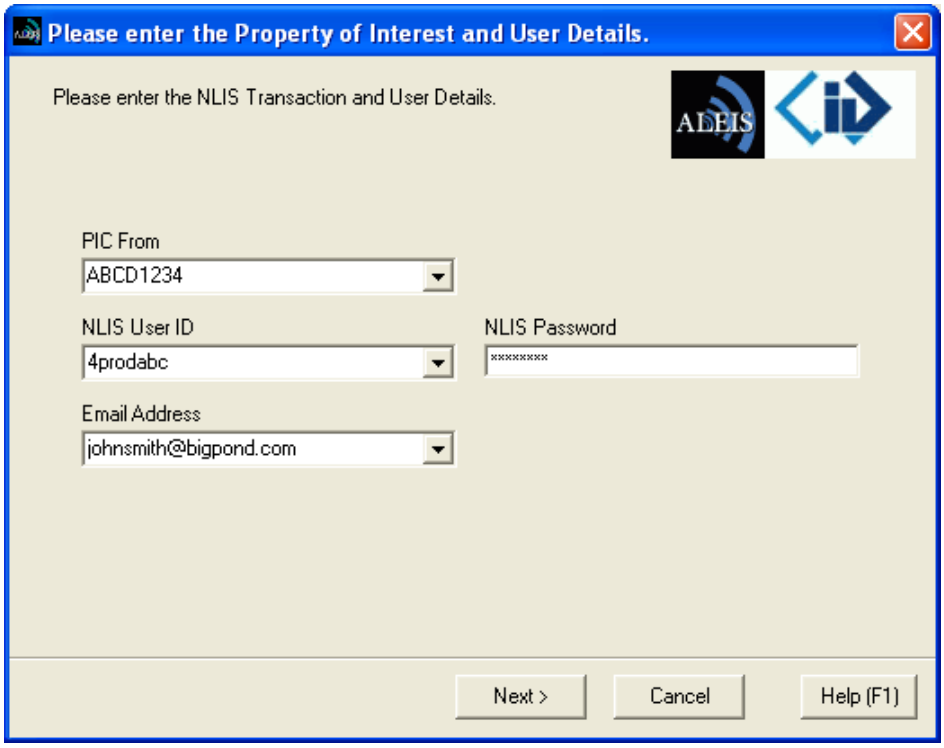


Step 3 Click on the "Add Request" Box and the tags will be inserted into the box below.



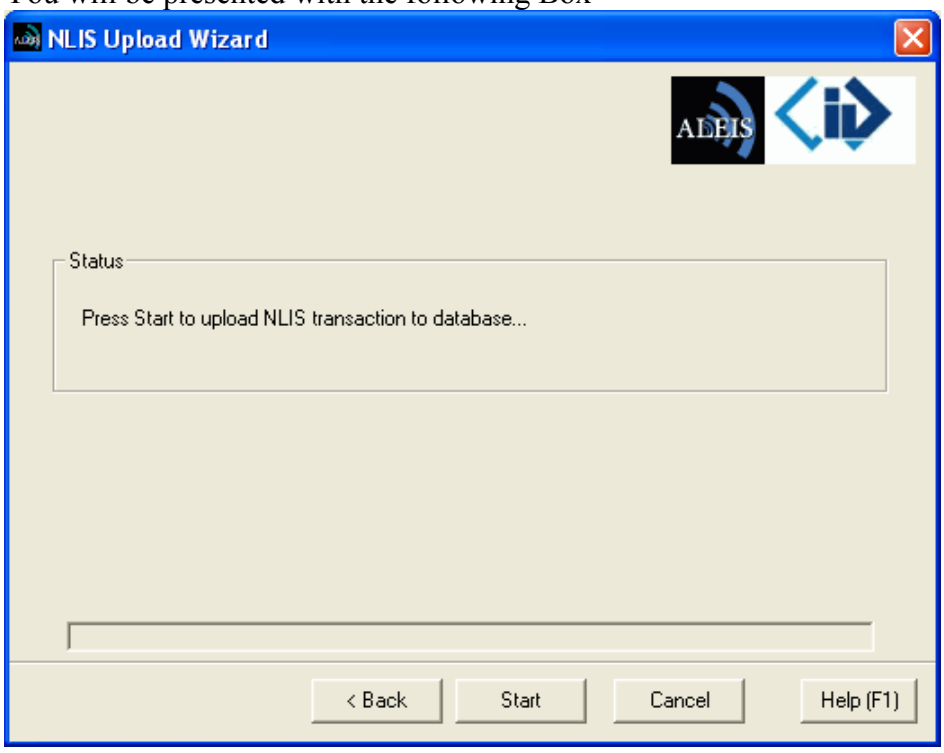
Step 4 Click on the "Send All" or "Send Selected" button (it can only send the selected tags if required)

You will be presented with the following Box



Step 5 After completing the form Click on "Next"

You will be presented with the following Box

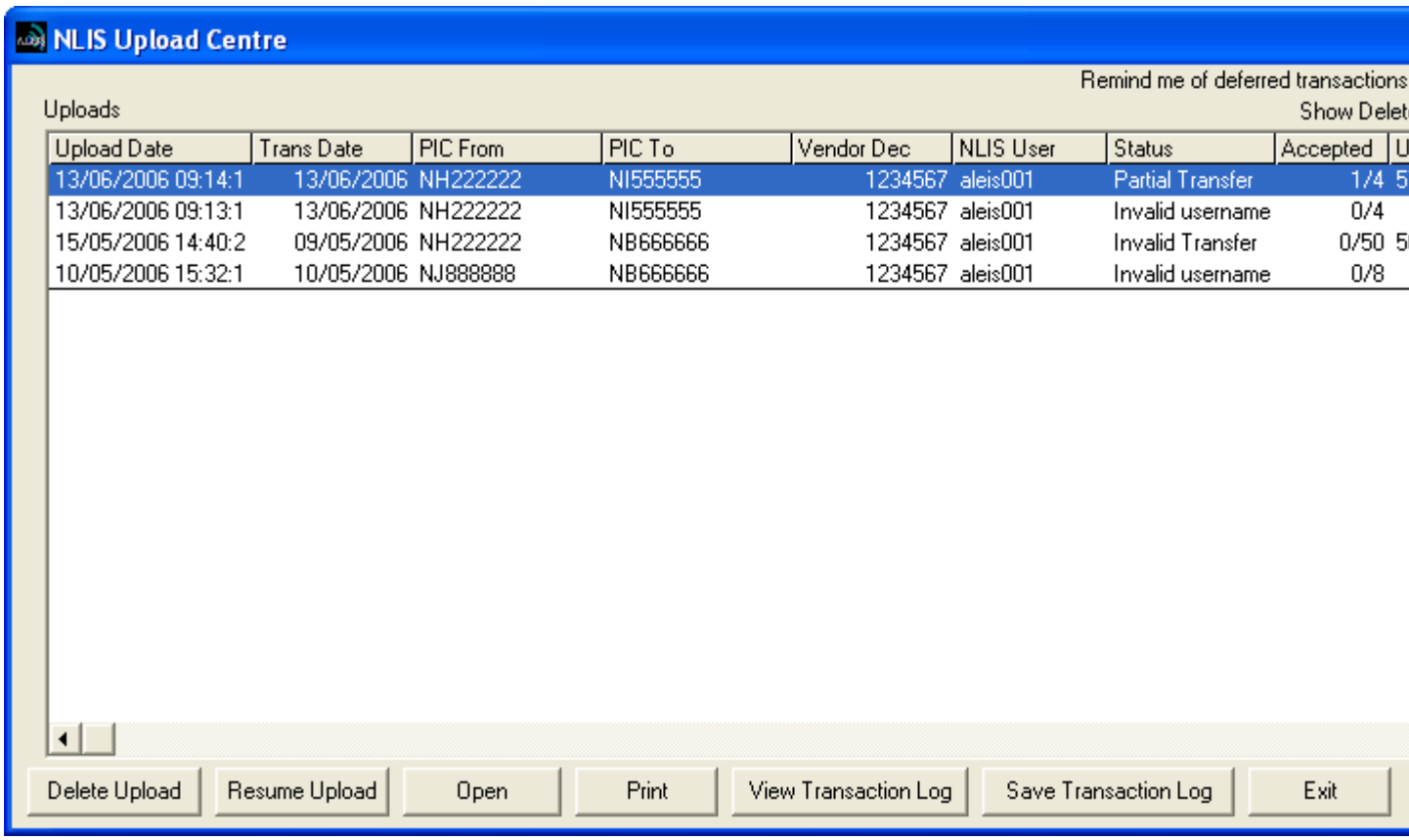


Step 6 Click on "Start"

On a successful or unsuccessful tag replacement you will get a message in the status box

10.8 NLIS Upload Centre (Australia Only)

This opens the Upload Centre screen, which displays all transactions with the NLIS database. Both successful and unsuccessful transactions are displayed and information regarding the transaction. For further information please use the help feature in Aleis DataLink



11.0 Aleis Conditions of Sale

1. In these conditions:

   (1) `Vendor' means Aleis Pty Ltd ACN 130 754 826 of the Cnr Old Rosevale & Jandowae/Kingaroy Rds, Jandowae, Queensland, 4410 which is the seller of the goods

   (2) 'Factory' means the Vendor's principal place of business at the Cnr Old Rosevale & Jandowae /Kingaroy Rds, Jandowae, Queensland 4410.

   (3) Purchaser' means the customer(s) described overleaf which is the purchaser of the goods.

   (4) `Goods' means the products and, if any, services specified overleaf

   (5) Nothing in these conditions shall be read or applied so as to exclude, restrict or modify or have the effect of excluding, restricting or modifying any condition, warranty, guarantee, right or remedy implied by law (including the Trade Practices Act 1974) and which by law cannot be excluded, restricted or modified.

   (6) Words denoting the singular number only include the plural number and vice versa; where reference to any gender includes every other gender and words denoting individuals include corporations

2. These conditions (which shall only be waived in writing signed by the vendor) shall prevail over all conditions of the purchaser's order to the extent of any inconsistency.

3. The goods and all other products sold by vendor are sold on these terms and conditions.

4. Unless previously withdrawn, vendor's quotation is open for acceptance within the period stated therein or, when no period is so stated, within thirty (30) days only after its date. The vendor reserves the right to refuse any order based on this quotation within 7 days after the receipt of the order.

5. The cost of any special packing and packing materials used in relation to the goods shall be at the purchaser's expense notwithstanding that such cost may have been omitted from any quotation.

6. The purchaser waives any claim for shortage or discrepancy of any goods delivered if a claim in respect thereof has not been lodged with vendor within seven (7) days from the date of receipt of goods by the purchaser.

7. All specifications, drawings, and particulars of weights and dimensions submitted by vendor are approximate only and any deviation shall not be taken to vitiate any contract with vendor or form grounds for any claim against vendor. The descriptions, illustrations and performances contained in catalogues, price lists and other advertising matter do not form part of the contract of sale of the goods. Where specifications, drawings or other particulars are supplied by purchaser, vendor's price is made on estimates of quantities required. Should there be any adjustments in quantities above or below the quantities estimated by vendor and set out in a quotation, then any such increase or decrease shall be adjusted on a unit rate basis according to unit prices set out herein.

8.1 Any performance figures given by vendor are estimates only. Vendor shall be under no liability for damages for failure to attain such figures unless specifically guaranteed in writing and any such written guarantee shall be subject to the recognised tolerances applicable to such figures.

8.2 The Purchaser acknowledges that frequency from other products, for example computer equipment, videos, loud speakers and other metal products may affect the goods' performance. The Vendor gives no warranty that in the event of any frequency disruption the goods will remain fit for the purpose intended. The Vendor will not be liable for any claims made as a result of other equipment or other things interfering with the performance of the goods whether on account of frequency disruption or otherwise.

9. Delivery dates mentioned are an estimate only and vendor shall not be liable for late delivery or non-delivery and under no circumstances shall the vendor be liable for any loss, damage or delay occasioned to the purchaser arising from late or non-delivery or late installation of the goods.

10. (1) Unless specifically agreed otherwise in writing, delivery shall be ex-factory. The Purchaser must make its own arrangements for the transport of the goods from the factory and any assistance that the Vendor gives in transporting the goods shall not effect the rights of the Vendor under this Clause. Vendor is not responsible for any loss or damage to goods in transit.

    (2) Risk in the goods shall pass to the Purchaser upon dispatch of goods from Factory.

11. (1) Vendor's liability for goods manufactured by it is limited to making good any defects by repairing the same or at vendor's option by replacement, within a period not exceeding twelve calendar months after the goods have been dispatched (or installed by Aleis) provided that:

        (a) defects have arisen solely from faulty materials or workmanship;

        (b) the goods have not received maltreatment, inattention or interference;

        (c) accessories of any kind used by the purchaser are manufactured by or approved by vendor;

        (d) the seals of any kind on the goods remain unbroken; and

        (e) the defective parts are promptly returned free of cost to vendor.

        (f) all freight is paid by the purchaser.

    (2) If goods are not manufactured by vendor the guarantee of the manufacturer thereof shall be accepted by the purchaser and is the only guarantee given to purchaser in respect of the goods.

(3) Vendor shall not be liable for and purchaser releases vendor from any claims in respect of faulty or defective design of any goods supplied unless such design has been wholly prepared by vendor and the responsibility for any claim has been specifically accepted by vendor in writing and in any event vendor's liability hereunder shall be strictly limited to the replacement of defective parts in accordance with para 11(1) of these conditions.

(4) Except as provided herein, all express and implied warranties, guarantees and conditions under statute or general law as to merchantability, description, quality, suitability or fitness of the goods for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded and vendor shall not be liable for physical or financial injury, loss or damage or for consequential loss or damage of any kind arising out of the supply, layout, assembly, installation or operation of the goods or arising out of vendor's negligence or in any way whatsoever.

12. Vendor's liability for a breach of a condition or warranty implied by Div 2 of Pt V of the Trade Practices Act 1974 (other than s 69) is hereby limited to:

(1) in the case of goods, any one or more of the following:

(a) the replacement of the goods or the supply of equivalent goods;

(b) the repair of the goods;

(c) the payment of the cost of replacing the goods or of acquiring equivalent goods;

(d) the payment of the cost of having the goods repaired; or

(2) in the case of services:

(a) the supplying of the services again; or

(b) the payment of the cost of having the services supplied again.

13. Vendor's liability under s 74H of the Trade Practices Act 1975 is expressly limited to a liability to pay to the purchaser an amount equal to:

(1) the cost of replacing the goods;

(2) the cost of obtaining equivalent goods; or

(3) the cost of having the goods repaired, whichever is the lowest amount.

14. Unless otherwise stated all prices quoted by vendor are net, exclusive of tax. Prices quoted are those ruling at the date of issue of quotation and are based on rates of freight, insurance, customs duties, exchange, shipping expenses, sorting and stacking charges, cartage, rate of weighs, cost of materials and other charges affecting the cost of production ruling on the date the quotation is made and any alterations thereto either before acceptance of or during the currency of the contract shall be to the purchaser's account.

15 The purchase price in relation to goods shall be payable and payment or balance thereof shall be made immediately at time of order, or otherwise as agreed in writing.

16. Vendor reserves the following rights in relation to the goods until all accounts owed by the purchaser to vendor are fully paid:

(1) legal ownership of the goods;

(2) to enter the purchaser's premises (or the premises of any associated company or agent where the goods are located) without liability for trespass or any resulting damage and retake possession of the goods; and

(3) to keep or resell any goods repossessed pursuant to (2) above;

If the goods are resold, or products manufactured using the goods are sold, by the purchaser, the purchaser shall hold such part of the proceeds of any such sale as represents the invoice price of the goods sold or used in the manufacture of the goods sold in a separate identifiable account as the beneficial property of vendor and shall pay such amount to vendor upon request. Notwithstanding the provisions above vendor shall be entitled to maintain an action against the purchaser for the purchase price and the risk of the goods shall pass to the purchaser upon delivery.

17. Any property of the purchaser under vendor's custody or control shall be entirely at the purchaser's risk as regards loss or damage caused to the property or by it.

18. Vendor reserves the right to make a reasonable charge for storage if the purchaser does not take delivery of goods within fourteen days of notification that the goods are ready for collection.

19. Vendor shall not be under any obligation to accept goods returned by the purchaser and will do so only on terms to be agreed in writing in each individual case.

20. All goods to be supplied by vendor shall be as described on the quotation overleaf and the description on such order modified as so agreed shall prevail over all other descriptions including any purchaser's specification or inquiry.

21. No order may be cancelled except with consent in writing and on terms which will indemnify vendors against all losses.

22. The contract for sale of the goods is made in the state of Queensland and the parties agree to submit all disputes arising between them to the courts of such state at any court competent to hear appeals therefrom.

23. The Purchaser shall pay all and any import duties, levies or imports and/or any sales, use, excise, gross receipts, value added, goods and services tax, property or other taxes or duties of any kind whatsoever assessed upon or relating in any way to the goods ordered by the Purchaser irrespective of the person, nation, state or authority requiring payment thereof.

24. If the Vendor has not paid for any goods on the due date specified in this Agreement, without prejudice to any other right or remedy, all outstanding money shall bear interest on daily balances until paid at the rate of 1.5% per month and such money together with all interest shall be recoverable forthwith from the Purchaser.

The Purchaser charges as a fixed charge with the payment of all monies now or in the future becoming owing hereunder all his property both real and personal (other than property referred to in *Section 262 (i) of the Corporations Law*) and as a separate charge charges all his other property with the payment of all monies now or in the future becoming owing hereunder, provided that this second charge will be a floating charge in respect of the Purchaser's current assets but otherwise will be a fixed charge. The Purchaser irrevocably makes, nominates, constitutes and appoints, and in the place and stead of the Purchaser puts and deputes the Vendor and (if the Vendor is a corporation) the directors, general manager and secretary for the time being of the Vendor jointing and each of them severally to be the Attorney or Attorneys of Purchaser at any time after default as aforesaid has been made (sufficient proof of which will be the Statutory Declaration of the Attorney or Attorneys or either or any of them) to do all such things as may be required to consent to any Caveat or other like instrument under the Real Property Legislation of any other jurisdiction in the form prepared by the Vendor's Solicitor over any or all of the Purchaser's property and to execute a mortgage and/or charge or other like instrument under the Real Property Legislation of any other jurisdiction in such form and containing such terms and conditions as the Vendor may require over any or all of the Purchaser's property and from time to time to appoint a substitute or substitutes and such appointment or appointments at pleasure to revoke and another or other substitute or substitutes to appoint and generally to do, execute and perform any act, deed, matter or thing for that purpose as fully and effectually as the Purchaser could do and the Purchaser agrees to ratify and confirm all and whatever the said Attorney or Attorneys or any substitute or substitutes lawfully do or cause to be done for that purpose. The End Ver10/05/01