LAB REPORTS

CONTENTS

SENDING SAMPLES TO EXTERNAL LABS

External Labs Integration Setup

Lab Result Download Setup (External Labs)

The Lab email module is not activated by default. For more information on activating this module please email sales@cfl.co.nz.

In New Zealand external Lab results by email can currently be received from Gribbles, SVS Labs and NZ Veterinary Pathology.
In Australia external Lab Results can currently be received from Gribbles, IDEXX, Vepalabs, ASAP, QMLVetnostics, TMLVetnostics, Vetpath and IVPath.

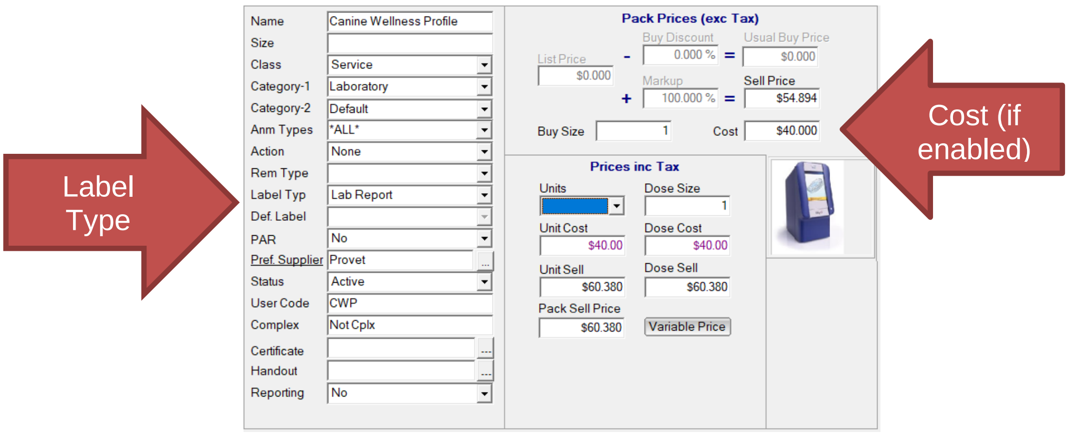
Once the Lab module is enabled results are retrieved via 4 methods;

- IDEXX Laboratories allow VetlinkPRO to connect directly to their laboratory to download results. To set this up simply go to **Options | Setup | Misc | 12: Labs** and enter your IDEXX download ID and Password.
- Gribbles, ASAP, QMLVetnostics, TMLVetnostics have apps that grab lab email and places it into the **'…/VL2/Data/Labmail/New'** folder. These apps will need to be installed by the laboratory. You can check with other supported labs to see if they have an app as well.
- For other labs you need to have an email address that is only used for labs, eg, labs@vetclinic.com. The lab will then send lab results to this address. An application will then be installed on your server to download the results and place them in the **'…/VL2/Data/Labmail/New'** folder.

Configure Goods & Services

Set up your lab test products to ask to print a label when they are entered on a bill. To setup change the **Label Type** setting on the product record to **Lab Report**. Now when that item is added to a bill the lab form will open where you can select Print Label.

If you wish services to have a cost price you can enable this in setup from **Options | Setup | Product | Options tab | Allow Services to have cost price.**

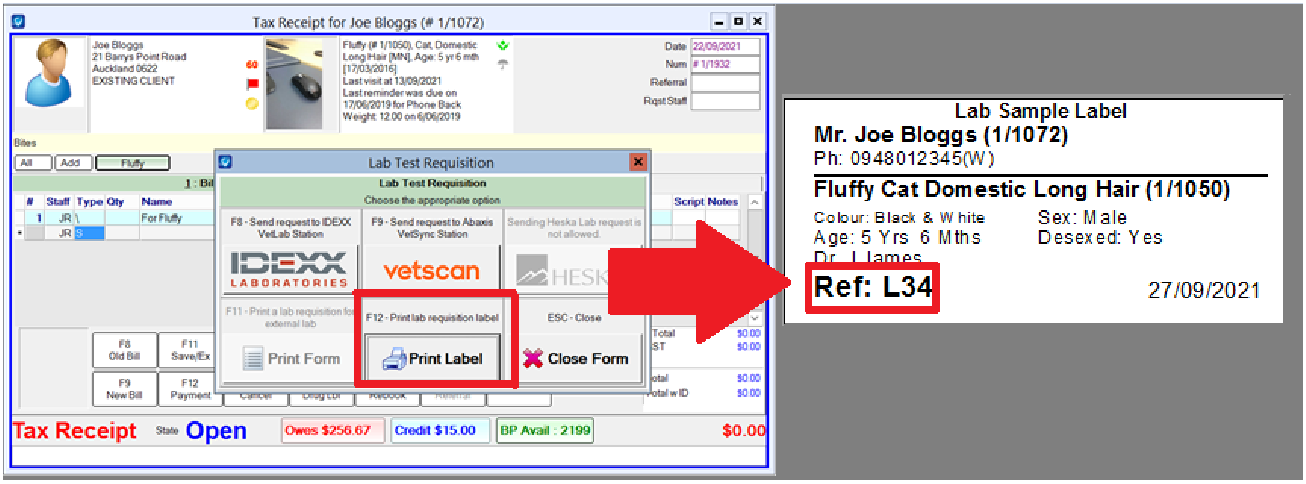


Set Lab Sample Label to Preview

To get the requisition number for the lab to enter you need to print a lab sample label. If you would prefer not to print the label, but rather preview it so you can get the number to write on the lab form then you can set the label to preview. To do this go to **Options | Picklist Setup | Reports | Other Reports | set category to Patient | double click on SR-098 Lab Sample Label | set Preview to Yes | Save and exit.**

Sending Samples to Labs

1. Print the Lab Sample Label either by;
   a. **Pop window at billing** (Recommended Method): If the test has Lab Report set for the Label type, then when the test is added at billing a popup window will appear. Click **Print Label**.
   b. **History tab**: From History tab of bill click **Lab Sample** button then **Print Label**



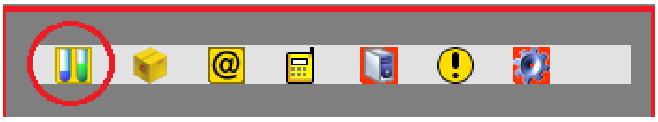
2. Send the Test to the Lab with the Lab Sample label or write the Reference number on the lab form. E.g. **L189**.

3. Once the result is imported back it will be able to be endorsed from the Endorse screen.

Endorsing New Lab Results

All new lab results imported from the External Laboratories will be automatically attached to the clinical history of the patient, if the ref # from the Lab sample label has been entered by the laboratory correctly. Results are also placed into the Endorse Labs repository as well.

The Endorse Labs repository is basically area that notifies users a new lab result has arrived in the system. When a report arrives the test tube icon at the top left of Vetlink will start blinking. Users can then just click the icon and check the repository to see if the result is one that they are waiting for.



If the result is one they have been waiting on then;

4. **If client and patient it has attached are <u>correct</u>**, then click the **Endorse** button, in bottom right corner to remove it from the list.
5. **If client and patient it has attached are <u>incorrect</u>**, because the Ref# from lab sample label was entered incorrectly in the analyser. Then click the **Move** button and select the correct client/patient and visit to link it to.

TESTS FOR IDEXX LABSTATION

Idexx Labstation Integration Setup

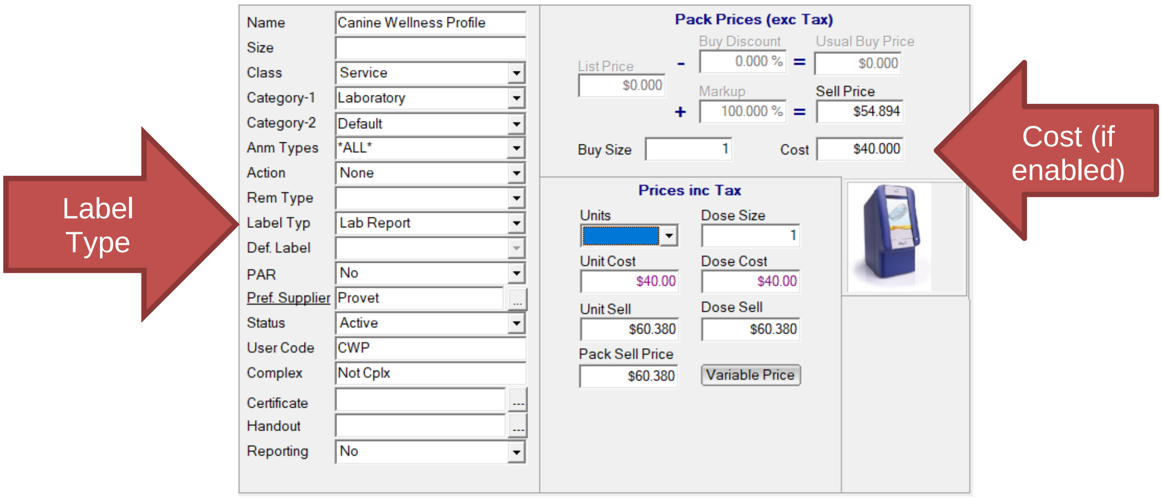
Configuration of VetlinkPRO

The IDEXX module is not activated by default. For more information on activating this module please email sales@cfl.co.nz. CFL staff members will do all configurations of VetlinkPRO to connect to the IDEXX Lab station. An IDEXX staff member will configure the IDEXX instrumentation and the IDEXX lab station to connect to VetlinkPRO.

Configure Goods & Services

Set up your lab test products to ask to print a label when they are entered on a bill. To setup change the **Label Type** setting on the product record to **Lab Report**. Now when that item is added to a bill the lab form will open where you can select **Print Label**.

If you wish services to have a cost price you can enable this in setup from **Options | Setup | Product | Options tab | Allow Services to have cost price.**



Enable PDF Results

If clinic would like to download results as PDF's enable this from **Options | Setup | Misc | Labs | Download and attach PDF support file**.

Pre-Configuring Idexx LabStation to Send results.

1. From the main menu click on **'Settings'** then select the **'Practice Management'** tab.

2. Click on **'Other'** and then **'Network connection'** and click **'OK'**.

3. Click on the **Configure** button and choose **"Direct Connect"** to add the Server's IP address.

4. If this is a multi-site setup then each IDEXX Labstation will need to have a unique **Integration name**. Enter this in the **Integration Name** field and advise CFL of the names. Tap **OK** to confirm that you want to save the options.

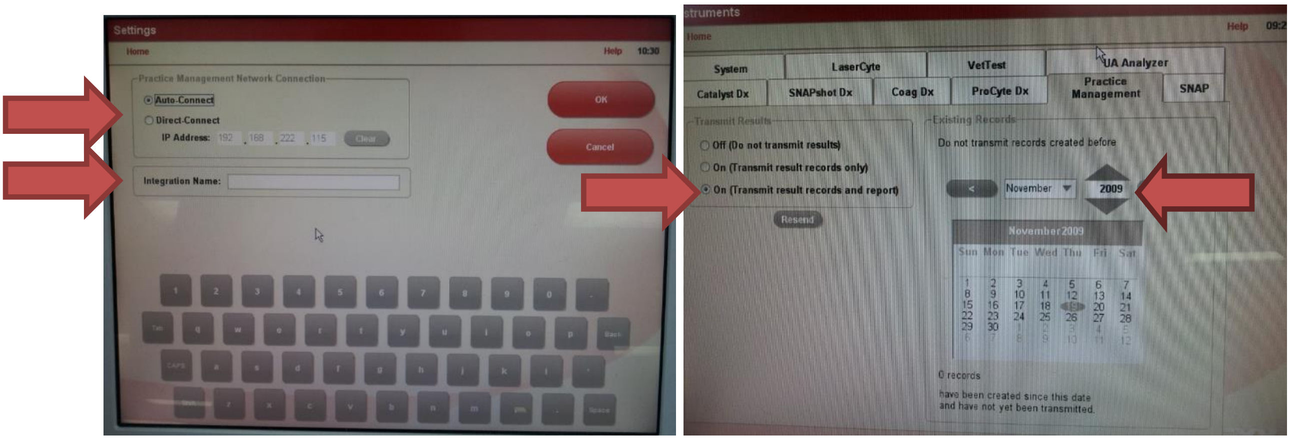
5. The VetlinkPRO icon on the Idexx labstation confirms the practice management system settings are activated and is connected to VetlinkQL.

6. Tap the icon on the bottom right corner of the IDEXX VetLab Station Home screen. The **Practice Management** tab on the **Instruments** screen appears.

7. Verify that the option is selected so that **'On (Transmit result records and report)'** can be transmitted to the practice management system. On (**Transmit records only**) will exclude sending PDF report.

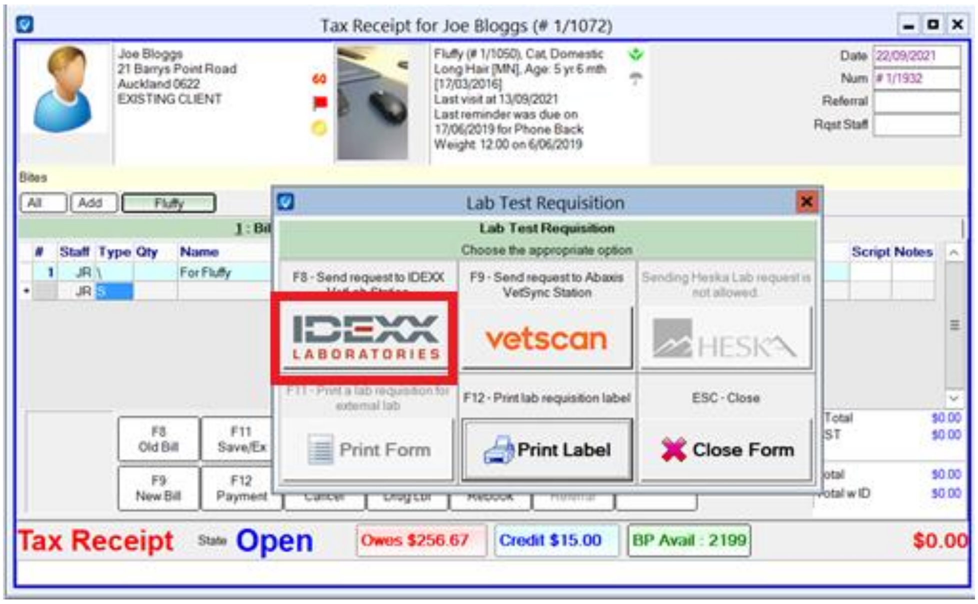
8. Set the date to transmit results **to today's or a recent date**. This will prevent old results, not linked patients in VetlinkPRO, being imported and the clinic then needing to link them back up one by one!!!

9. Get your hardware tech to open ports 45500 and 45501 in any firewalls so VetlinkPRO can receive results on the server.



Performing Test on LabStation

6. Send the request directly to the Labstation or Print the Lab Sample Label either by;
   a. **Pop window at billing** (Recommended Method): If the test has Lab Report set for the Label type, then when the test is added at billing a popup window will appear. Click **Idexx Laboratories**.
   b. **History tab**: From History tab of bill click **Lab Sample** button then **Idexx Laboratories**



7. Once you click save and exit on the bill the test will get sent to the Idexx Labstation.

8. Go to the Labstation and continue the test from the Pending List. (Contact Idexx if you require more instruction on performing this part.)

9. Once done the result will be imported back into VetlinkPRO.

Endorsing New Lab Results

All new lab results imported from the Idexx Labstation will be automatically attached to the clinical history of the patient, if the ref # from the Lab sample label has been entered in the analyser correctly. Results are also placed into the Endorse Labs repository as well.

The Endorse Labs repository is basically area that notifies users a new lab result has arrived in the system. When a report arrives the test tube icon at the top left of Vetlink will start blinking. Users can then just click the icon and check the repository to see if the result is one that they are waiting for.

If the result is one they have been waiting on then;

- **If client and patient it has attached are <u>correct</u>**, then click the **Endorse** button, in bottom right corner to remove it from the list.
- **If client and patient it has attached are <u>incorrect</u>**, because the Ref# from lab sample label was entered incorrectly in the analyser. Then click the **Move** button and select the correct client/patient and visit to link it to.

TESTS FOR VETSCAN WITH DATA MANAGER

Abaxis Data Manager Integration Setup

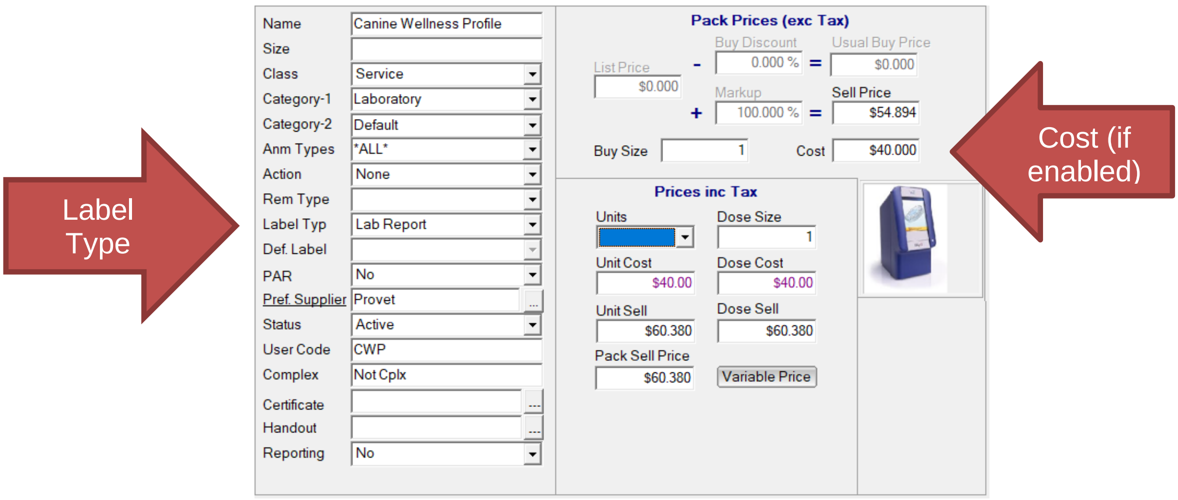
Configuration of VetlinkPRO

The Vetscan module is not activated by default. For more information on activating this module please email sales@cfl.co.nz. VetlinkPRO can currently download results from the VS2 and HM5 analysers with the Data Manager. The analysers must to be connected to a machine on the VetlinkPRO network where the Abaxis Data Manager can then be installed to download results.

Configure Goods & Services

Set up your lab test products to ask to print a label when they are entered on a bill. To setup change the **Label Type** setting on the product record to **Lab Report**. Now when that item is added to a bill the lab form will open where you can select **Print Label**.

If you wish services to have a cost price you can enable this in setup from **Options | Setup | Product | Options tab | Allow Services to have cost price.**

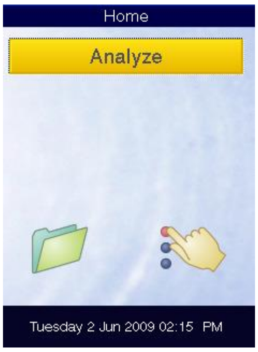


Set Lab Sample Label to Preview

To get the requisition number for the lab to enter you need to print a lab sample label. If you would prefer not to print the label, but rather preview it so you can get the number to write on the lab form then you can set the label to preview. To do this go to **Options | Picklist Setup | Reports | Other Reports | set category to Patient | double click on SR-098 Lab Sample Label | set Preview to Yes | Save and exit.**

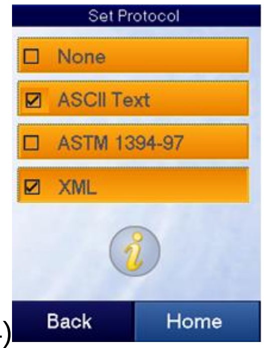
Pre-Configure VetScan VS2 Analyser

1. Click on the **settings** button from the Home screen
2. Click the **More Options** menu
3. Click **Protocol** Icon.
4. Select the file type of **XML**.

1) 

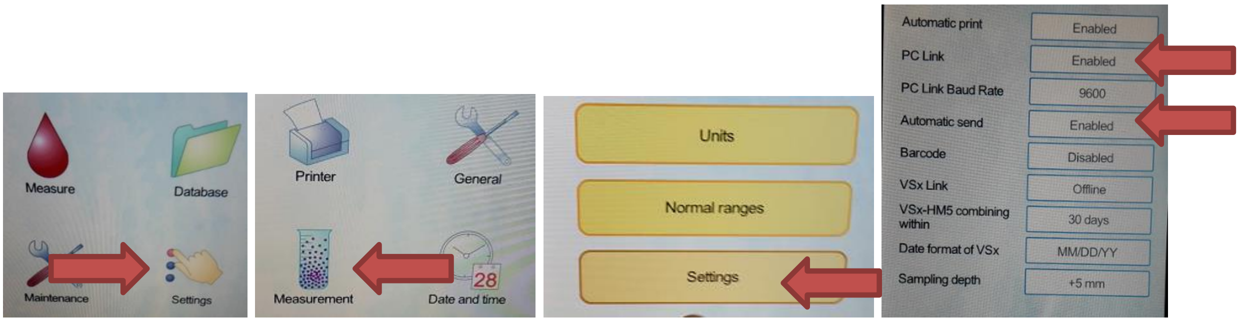
2) 

3) 

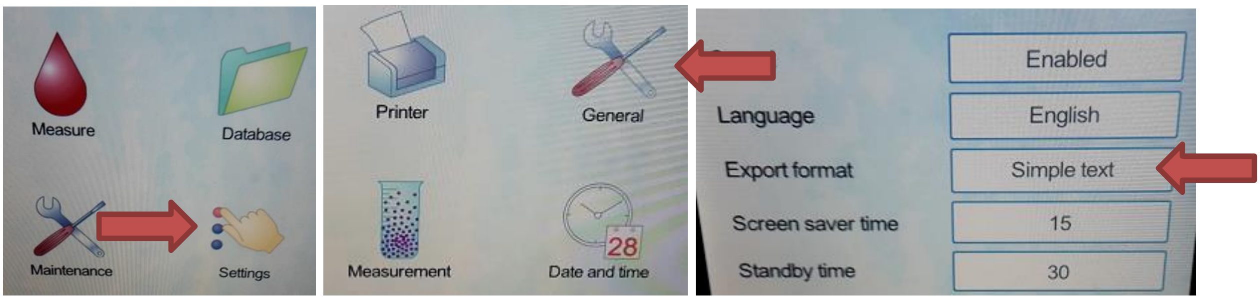
4) 

Pre-Configure VetScan HM5 Analyser

1. On your Vetscan HM5 Analyser click **Settings | Measurement | Settings**.
2. Configure Settings
   a. Set **PC Link** to **Enabled**
   b. Set **Automatic Send** to **enabled**



3. On your Vetscan HM5 Analyser click **Settings | General Settings | Set Export Format to Simple Text.**



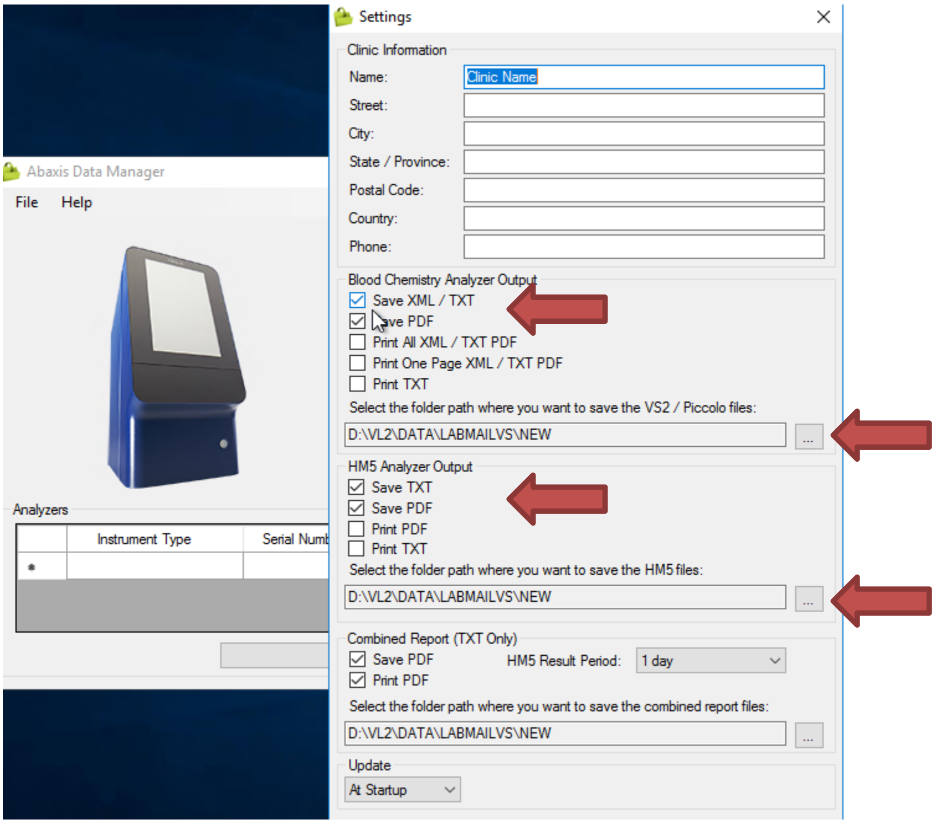
Configure Abaxis Data Manager

1) Install Data Manager on computer analysers are connected to. The data Manager can be downloaded from https://supportsoftware.abaxis.com/adm/

2) In Data Manager go to file then settings;

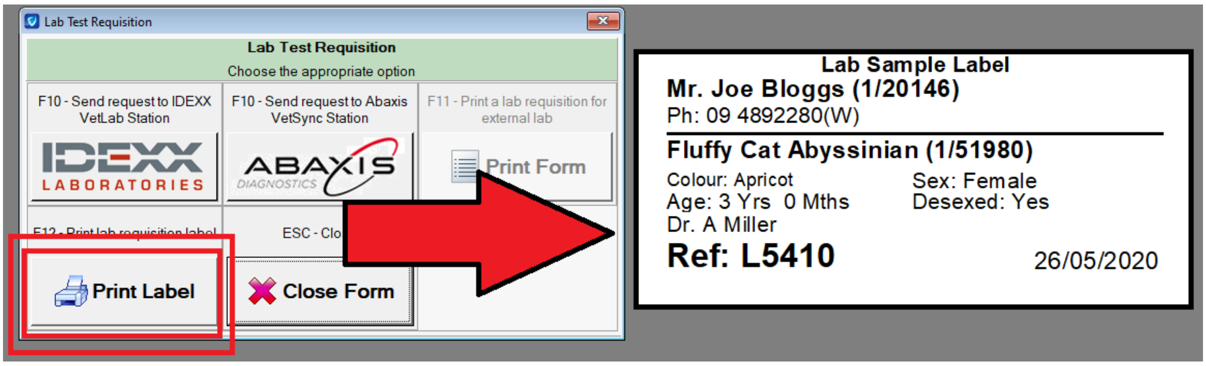
    a. Set Blood Chemistry Analyser output.
        i. Tick either **Save XML/txt** or **Save PDF**. You can tick both if clinic wants both downloaded.
        ii. Set Output to **d:\vl2\data\labmailvs\new**

    b. Set HM5 Analyser output
        i. Tick either **Save txt** or **Save PDF**. You can tick both if clinic wants both downloaded.
        ii. Set Output to **d:\vl2\data\labmailvs\new**

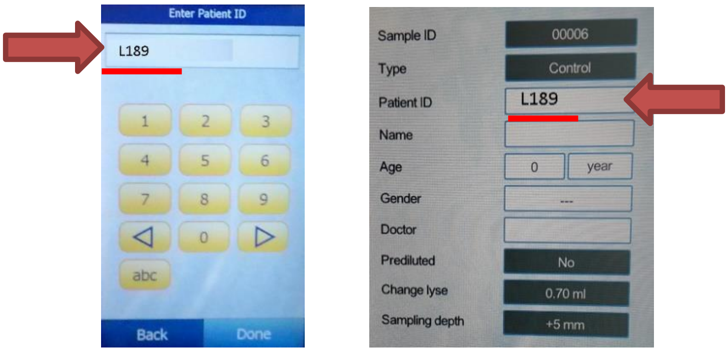


Performing Test in Analyser

10. Print the Lab Sample Label during the visit/bill either from;
    a. **Pop window at billing** (Recommended Method): If the test has a Lab Sample label attached to it, then when the test is added at billing a popup window will appear. Click **Print Label**.
    b. **History tab**: From History tab of bill click **Lab Sample** button then **Print Label**



11. Enter the Lab-Sample label requisition ID, eg L189, into the **Patient ID** field of the VetScan VS2 or HM5 machine.



VS2 **HM5**

12. Once done the result will be imported back into VetlinkPRO.

Endorsing New Lab Results

All new lab results imported from the Abaxis Fuse will be automatically attached to the clinical history of the patient, if the ref # from the Lab sample label has been entered in the analyser correctly. Results are also placed into the Endorse Labs repository as well.

The Endorse Labs repository is basically area that notifies users a new lab result has arrived in the system. When a report arrives the test tube icon at the top left of Vetlink will start blinking. Users can then just click the icon and check the repository to see if the result is one that they are waiting for.

If the result is one they have been waiting on then;

- **If client and patient it has attached are <u>correct</u>**, then click the **Endorse** button, in bottom right corner to remove it from the list.
- **If client and patient it has attached are <u>incorrect</u>**, because the Ref# from lab sample label was entered incorrectly in the analyser. Then click the **Move** button and select the correct client/patient and visit to link it to.

TESTS WITH ZOETIS/ABAXIS FUSE

Abaxis Fuse Integration Setup

Configuration of VetlinkPRO

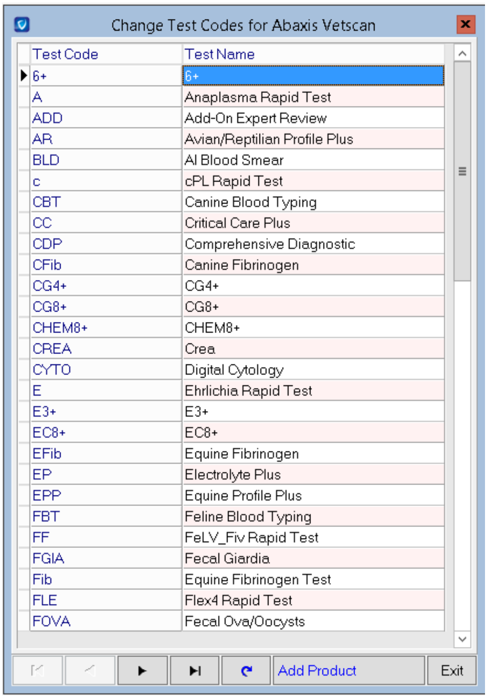
The Abaxis Fuse module is not activated by default. For more information on activating this module please email sales@cfl.co.nz.

Configure Goods & Services

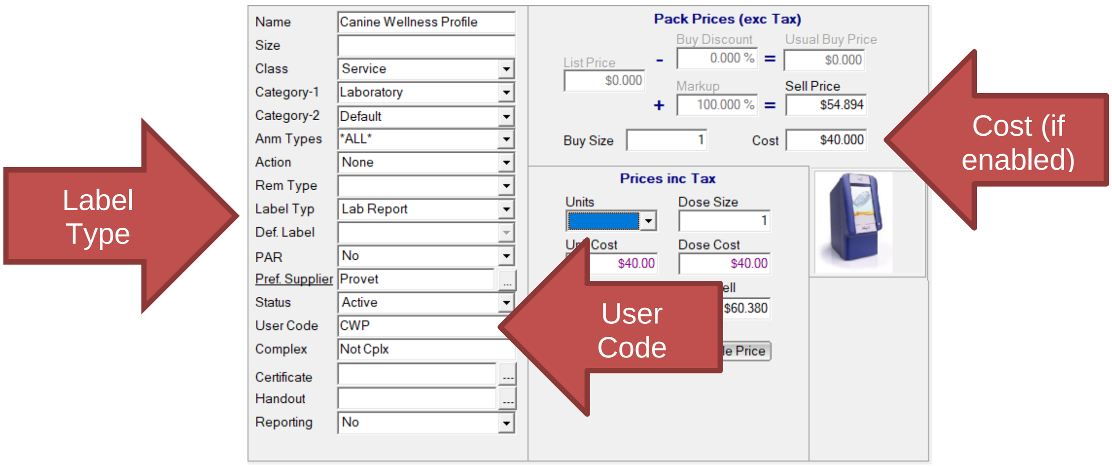
Set up your lab test products to send to Abaxis analysers. In VetlinkPRO either open an existing item or create a new item.

Set **Label Type** to **Lab Report**.
Set **User Code** to relevant test Code from Abaxis.

- The codes can looked up in VetlinkPRO from **Options | Picklist Setup | History | Abaxis Vetscan Test Codes**.
- New test/codes will be added by Abaxis periodically. These will automatically be downloaded from the Fuse machine into VetlinkPRO to use.
- **Note** that the code must be set on the components of any kitset or surgery complex product.
- If you need to create a new product you can single click a code from the Abaxis Vetscan Test Code list, then click the add product button at the bottom of the page. This will create a new product with the Name, label Typ and Code already filled in.



Enter other fields such as Name, category, Sell Price, etc as needed. If you wish services to have a cost price you can enable this in setup from **Options | Setup | Product | 1: Options | Allow Services to have cost price.**

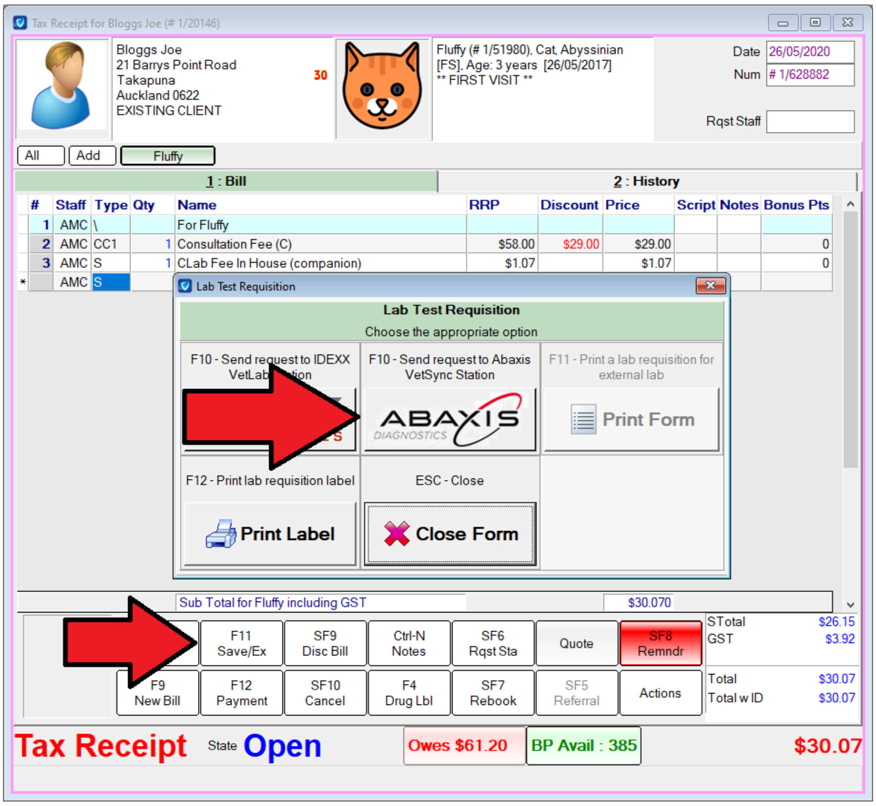


Multiple Tests with Complex Product

Only one code can be associated with a product. Therefore if you wanted a product to fire off multiple tests, e.g. Comprehensive Diagnostic and Haematology tests, you would need to create a service complex product. Into this product you would add 2 separate component products, each containing the relevant Abaxis Test code.

Performing Test

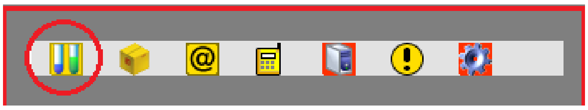
1. Make a bill as normal
2. Add analyser test to the bill
3. A popup windows will appear. Click **Abaxis** button, It will turn green to indicate test waiting to be sent.
4. Add any other tests.
5. **Save and Exit** bill and all tests will be sent to the analysers to process.
6. Perform tests on the analyser and they will be automatically synced back to the correct visit in VetlinkPRO.



Endorsing New Lab Results

All new lab results imported from the Abaxis Fuse will be automatically attached to the clinical history of the patient, if the ref # from the Lab sample label has been entered in the analyser correctly. Results are also placed into the Endorse Labs repository as well.

The Endorse Labs repository is basically area that notifies users a new lab result has arrived in the system. When a report arrives the test tube icon at the top left of Vetlink will start blinking. Users can then just click the icon and check the repository to see if the result is one that they are waiting for.



If the result is one they have been waiting on then;

- **If client and patient it has attached are <u>correct</u>**, then click the **Endorse** button, in bottom right corner to remove it from the list.
- **If client and patient it has attached are <u>incorrect</u>**, because the Ref# from lab sample label was entered incorrectly in the analyser. Then click the **Move** button and select the correct client/patient and visit to link it to.

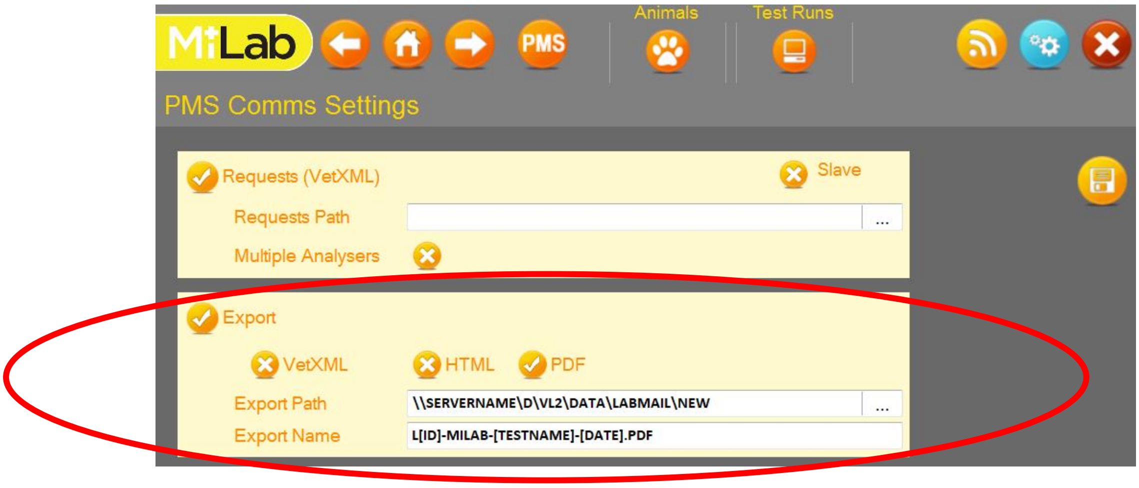
TESTS WITH MILAB ANALYSER

MiLab Integration Setup

Setup MiLab Analyser

In the MiLab Station;

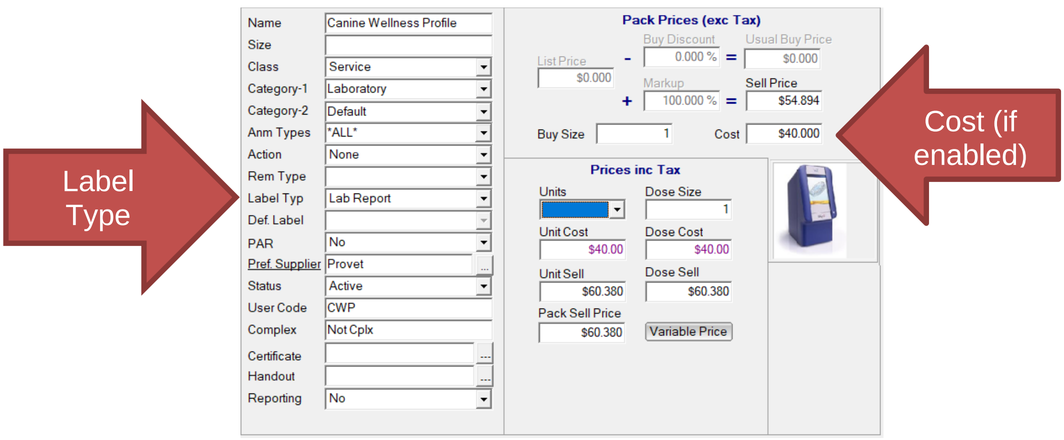
- Set export path to **d:\vl2\data\labmail\new**
- Export format to be PDF with format **L[ID]-MILAB-[TESTNAME]-[DATE].PDF**
- Requests Not Supported



Configure Goods & Services

Set up your lab test products to ask to print a label when they are entered on a bill. To setup change the **Label Type** setting on the product record to **Lab Report**. Now when that item is added to a bill the lab form will open where you can select **Print Label**.

If you wish services to have a cost price you can enable this in setup from **Options | Setup | Product | Options tab | Allow Services to have cost price.**

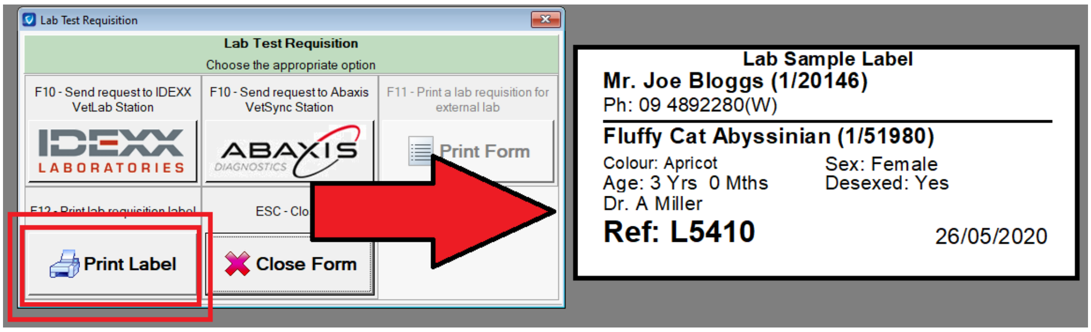


Set Lab Sample Label to Preview

To get the requisition number for the lab to enter you need to print a lab sample label. If you would prefer not to print the label, but rather preview it so you can get the number to write on the lab form then you can set the label to preview. To do this go to **Options | Picklist Setup | Reports | Other Reports | set category to Patient | double click on SR-098 Lab Sample Label | set Preview to Yes | Save and exit.**

Generating Requisition Number to Enter in Analyser

1. Print the Lab Sample Label during the visit/bill either from;
   c. **Pop window at billing** (Recommended Method): If the test has a Lab Sample label attached to it, then when the test is added at billing a popup window will appear. Click **Print Label**.
   d. **History tab**: From History tab of bill click **Lab Sample** button then **Print Label**



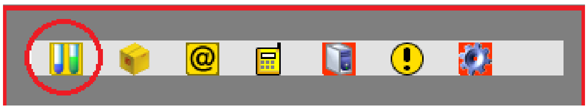
2. Enter the Ref #, e.g. L189, in the patient ID / requisition number in Milab analyser for the test.

3. Once the test is done the result is automatically imported back into VetlinkPRO to the visit the requisition was generate from.

Endorsing New Lab Results

All new lab results imported from the Milab Analyser will be automatically attached to the clinical history of the patient, if the ref # from the Lab sample label has been entered in the analyser correctly. Results are also placed into the Endorse Labs repository as well.

The Endorse Labs repository is basically area that notifies users a new lab result has arrived in the system. When a report arrives the test tube icon at the top left of Vetlink will start blinking. Users can then just click the icon and check the repository to see if the result is one that they are waiting for.



If the result is one they have been waiting on then;

- **If client and patient it has attached are __correct__**, then click the **Endorse** button, in bottom right corner to remove it from the list.
- **If client and patient it has attached are __incorrect__**, because the Ref# from lab sample label was entered incorrectly in the analyser. Then click the **Move** button and select the correct client/patient and visit to link it to.

TESTS WITH HESKA ANALYSER

Configuration of VetlinkPRO

The Heska module is not activated by default. For more information on activating this module please email sales@cfl.co.nz.

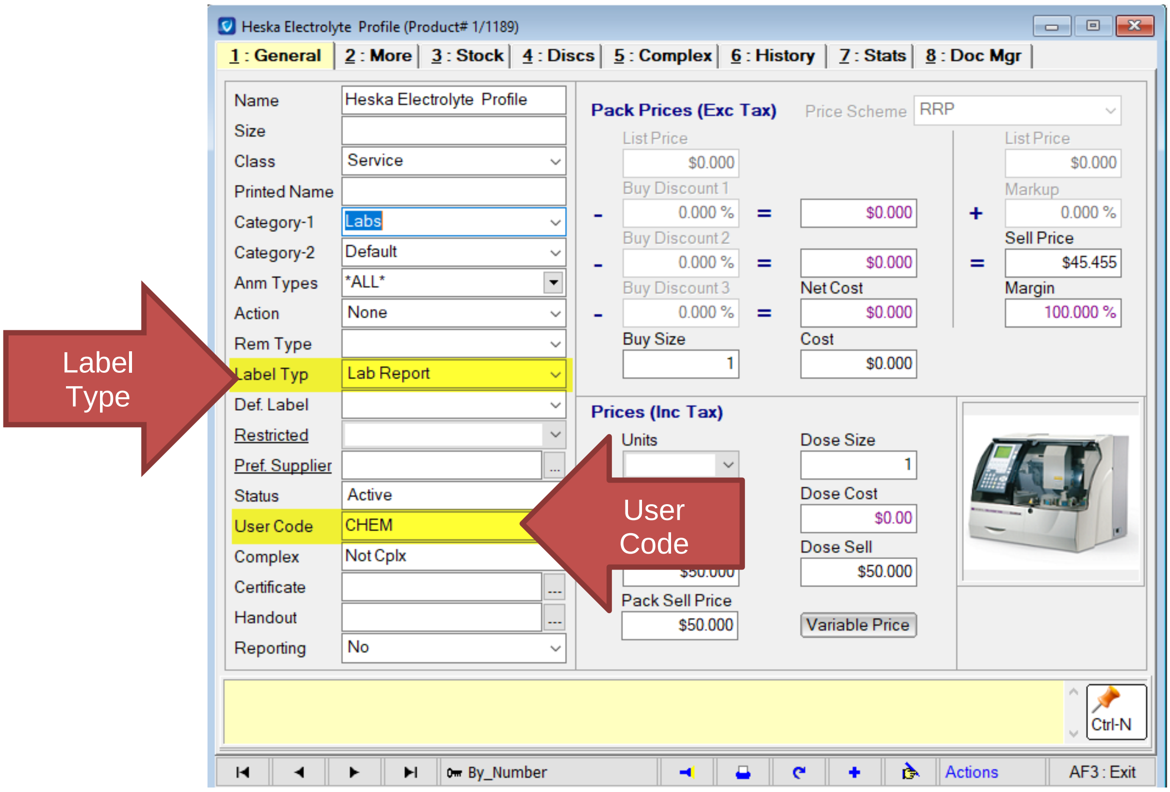
Configure Goods & Services

Set up your lab test products to send to Heska. In VetlinkPRO either open an existing item or create a new item.

Set **Label Type** to **Lab Report**.
Set **User Code** to one of the below EMR Codes so the test goes to correct analyser.

Parameter Name	EMR Codes
	CBC
	Chem
	Immuno
	Fecal
	Urine
	BloodGas
	COAG
cCRP	**cCRP**
Canine Progesterone	**cProg**
Bovine Progesterone	**bProg**
Equine Progesterone	**eProg**
Cortisol	**Cor**
Fibrinogen	**FIB**
Fructosamine	**Fruct**
GLDH	**GLDH**
Lactate	**Lactat**
Lipase (pancreatic)	**LIP**
NH3	**NH3**
Phenobarbital	**Phenob**
SAA	**SAA**
SDMA	**SDMA**
T4	**T4**

Enter other fields such as Name, category, Sell Price, etc as needed. If you wish services to have a cost price you can enable this in setup from **Options | Setup | Product | 1: Options | Allow Services to have cost price.**

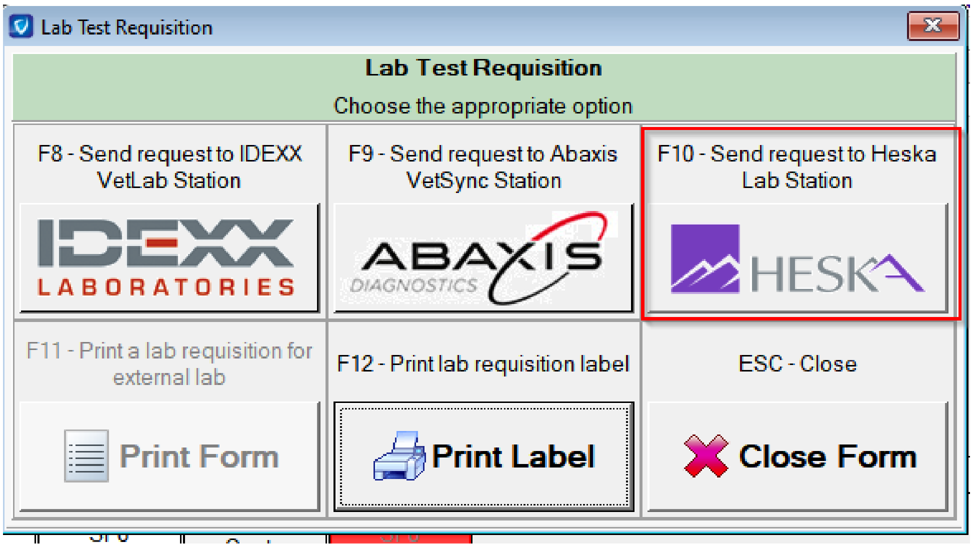


Multiple Tests with Complex Product

Only one code can be associated with a product. Therefore, if you wanted a product to fire off multiple tests, e.g. Comprehensive Diagnostic and Haematology tests, you would need to create a service complex product. Into this product you would add 2 separate component products.

Performing Test

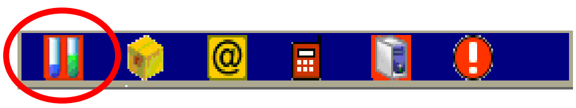
1. Make a bill as normal
2. Add analyser test to the bill
3. A popup window will appear. Click **Heska** button, It will turn green to indicate test waiting to be sent.
4. Add any other tests.
5. **Save and Exit** bill and all tests will be sent to the analysers to process.
6. Perform tests on the analyser and they will be automatically synced back to the correct visit in VetlinkPRO.



Endorsing New Lab Results

All new lab results imported from Heska will be automatically attached to the clinical history of the patient, if the ref # from the Lab sample label has been entered in the analyser correctly. Results are also placed into the Endorse Labs repository as well.

The Endorse Labs repository is basically area that notifies users a new lab result has arrived in the system. When a report arrives the test tube icon at the top left of VetlinkPRO will start blinking. Users can then just click the icon and check the repository to see if the result is one that they are waiting for.



If the result is one they have been waiting on then;

- **If client and patient it has attached are <u>correct</u>**, then click the **Endorse** button, in bottom right corner to remove it from the list.
- **If client and patient it has attached are <u>incorrect</u>**, because the Ref# from lab sample label was entered incorrectly in the analyser. Then click the **Move** button and select the correct client/patient and visit to link it to.

SEARCHING LAB RESULTS

Lab results that are imported into VetlinkPRO as ‘real’ numerical data, such as results from the IDEXX Vetlab Station, can be used to create client or patient lists using data in the lab results. For example, all results that fall outside a reference range can be obtained and an email sent to these clients. Currently most results from labs are received in HTML format which is unable to be used for analysis. For more information on using the history search please refer to the Marketing Module chapter.