

Bika Laboratory Management System

Lab User Manual







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1 Bika LIMS

Bika LIMS System

The Bika LIMS System is a laboratory information system built in Open Source technology. It is based on Plone, the globally renowned web content management system, providing global access via the Internet

Bika LIMS delivers analysis results to clients and research staff immediately upon verification, via the web, email, SMS, fax or print. Clients may submit requests for analyses and track their samples on-line

Workflows are customized to the needs and requirements of the laboratory, optimising lab efficiency and enabling productivity tracking. Automated data-capturing and exports to financial software facilitate processing

Client/user management and authorisation profiles for technicians, data clerks, managers and clients enforce reliable security. Audit logging ensures integrity. Security is provided by 128 bit encryption, Secure Socket Layer and Trusted Digital Certification

The Bika LIMS system is modular and scalable, running on all architecture, big or small, on the Internet, Intranet via Wireless, LAN or WAN. The system is platform independent, currently running on BSD, Linux, Solaris, Mac OS X and Windows

Access to the system is via web browsers, resulting in a smooth integration with no disruptive desktop installation or network installation. Only a server is added to host the system

The Plone framework provides laboratories with a groupware tool to further enhance collaboration and document publishing. Plone is designed by usability professionals for flexibility and ease of use. Plone includes a powerful content sensitive search engine which is implemented in the Bika LIMS system

Bika LIMS User Manual

This manual describes the Bika LIMS system in the manner in which it is viewed by the lab personnel. Client contacts have functionality restricted to information pertaining directly to their own companies, and do not see data for other clients or lab data

Differences in the system as they apply to clients are noted in a framed box like this.

Users, groups and roles are discussed fully under Bika LIMS System Setup

2 Starting Up

Bika LIMS System Website

The static display part of the client's web site at e.g. www.vintnerinc.com, will be the entry point to the Bika LIMS system. To facilitate the Bika LIMS on the client's

ADSL connection, it is hosted on its own domain, e.g. www.vintnerinlab.com is integrated seamlessly into the client's site, maintaining the client's brand

Clients are led to log onto the Bika LIMS system via the client's homepage, where they are informed of product and service updates, promotions, industry news and digital resources pertaining to the client's activities

Static display pages and dynamic pages in the Bika LIMS system are hyper linked where appropriate, e.g. Price lists, Analytical Services and Laboratory Products offered are listed from the Bika LIMS system data

References to individual analyses in the Bika LIMS system can be hyper linked to content displaying the analytical method used to make it easier for client contacts when requesting analyses

System users may bookmark pages within the Bika LIMS part of the site – a logon prompt is issued before they are given access

A log-off url is provided on all pages for logging out of the Bika LIMS part of the site. The user is returned to the client's homepage

As a security measure, the Bika LIMS system can be configured to log any user off after a predetermined period of inactivity

Logging on to the system

The registration of users and assignment of roles and groups is performed by the system administrator. See Bika LIMS System Setup

Once the user has been defined to the system, the login screen is used. The user name and password is case sensitive. The **Remember my name** checkbox may be used to have the system automatically fill in the user name in subsequent sessions

Please log in

To access this part of the site, you need to log in with your user name and password.
If you do not have an account here, head over to the [registration form](#).

Account details

Login Name
Login names are case sensitive, make sure the caps lock key is not enabled.

Password
Case sensitive, make sure caps lock is not enabled.
If you have forgotten your password, [click here to retrieve it](#).

Remember my name.
Check this to have your user name filled in automatically when you log in later.

Please log out or exit your browser when you're done.

1. Login screen

The home screen is displayed

Forgotten Password

An incorrect password will result in the user being offered the option of having the password emailed

Lost Password

Enter your user name below, click **Send me my password**, and your password will be mailed to you if you gave a valid e-mail address when you registered. If this will not work for you (for example, if you forgot your user name or didn't enter your e-mail address) send a request to postmaster@localhost.

User Details

My user name is

2. Lost password

Personal Preferences

The first time you log in, you are invited to setup your preferences. These preferences may also be reached via the link on the menu bar

You are now logged in

Notice that the top right bar has changed. It now contains several personalized items. Use these items to control your settings and your personal area. They will remain as long as you are logged in.

You might want to head over to and add some content, or [set up your Preferences](#).

[Continue to the bika home page](#)

3. First time login screen

The **My Preferences** area provides the ability to change password and set user preferences

My Preferences

This area allows you to set your preferences.

Plone Member Preferences

 [Change Password](#)

 [Personal Preferences](#)

4. User preferences

The **Change Password** hyperlink presents the form for changing the password. The current password must be entered to ensure security

Change password for wthomson

[▲ Up to My Preferences](#)

— Password Details —

Current password
Enter your current password.

New password
Enter your new password. Minimum 5 characters.

Confirm password
Re-enter the password. Make sure the passwords are identical.

5. Change password

The **Personal Preferences** hyperlink presents the form to change preferences for the logged on user.

view
edit

Personal Preferences

[▲ Up to My Preferences](#)
 Your personal settings.

Personal Details

Full Name

E-mail ■

Location
 Your location - either city and country - or in a company setting, where your office is located.

Language
 Your preferred language.

Biography
 A short overview of who you are and what you do. Will be displayed on the your author page, linked from the items you create.

Home page
 The URL for your external home page, if you have one.


Content editor
 Select the content editor that you would like to use.
 Note that content editors often have specific browser requirements.

Enable external editing
 When checked, an icon will be made visible on each page which allows you to edit content with your favorite editor instead of using browser-based editors. This requires an additional application called ExternalEditor installed client-side. Ask your administrator for more information if needed.

Listed in searches
 Determines if your user name is listed in user searches done on this site.

Portrait
 To add or change the portrait: click the "Browse" button; select a picture of yourself.
 Recommended image size is 75 pixels wide by 100 pixels tall.

Delete Portrait



6. Personal preferences

The email address is required. Other personal information may optionally be captured. It is possible to add a portrait which will be stored in the Bika LIMS system

General Information

The screenshot shows the Bika LIMS home screen. At the top left is the Bika Lab Systems logo. To the right are links for 'site map', 'accessibility', and 'contact'. Below the logo is a search bar with a 'search' button. A navigation bar contains links for 'home', 'clients', 'analysis requests', 'jobcards', 'orders', 'queries', 'import winescan', and 'reports'. Below this is a user profile bar for 'wthomson' with links for 'preferences', 'undo', and 'log out'. A breadcrumb trail shows 'you are here: home'. On the left is a 'navigation' sidebar with folders for 'Clients', 'Jobcards', 'Statements', and 'Price lists'. The main content area is titled 'bika' and 'Bika LIMS'. It lists four folders: 'Clients' (last modified 09 Feb 2006 01h07, description: Clients that requested to submit samples on-line), 'Jobcards' (last modified 09 Feb 2006 01h07, description: Jobcards in the system), 'Statements' (last modified 09 Feb 2006 01h07, description: Monthly statements), and 'Price lists' (last modified 09 Feb 2006 01h07, description: Price lists).

7. Home screen for lab personnel

The home screen, and all subsequent screens, provide a number of functions and menu choices

At the top right, a number of links provide quick access to the following functionality:

- site map – an overview of available functionality of the site

The screenshot shows the 'Site map' page. It has a title 'Site map' and a description: 'An overview of the available content on this site. Keep the pointer still over an item for a few seconds to get its description.' Below the description are four folder icons with labels: 'Clients', 'Jobcards', 'Statements', and 'Price lists'.

8. Site map

- accessibility – a link to text size selection, access key descriptions and their

usage in various browsers

Accessibility

Text size:

- [Large](#)
- [Normal](#)
- [Small](#)

This site uses the Open Source Content Management System Plone ...

Access keys

Access keys are a navigation device enabling you to get around ...

Available access keys

This site uses a setup that closely matches most international ...

- **1** — Home Page
- **2** ...

Using access keys in different web browsers

Internet Explorer 5+ (Windows)

Hold down the **Alt** key, press the number or letter ...

Firefox, Mozilla and Netscape 7+ (Windows) ...

...

9. Accessibility information

- contact – a link to a form to send feedback to the site administration

Contact information

Bika LIMS

If you want to contact the site administration, fill in the form below.

Feedback details

Subject ■

Please enter the subject of the message you want to send.

Message ■

Please enter the message you want to send.

10. Contact information

- site setup – for administrators only. A link to the Plone and Bika LIMS setup area

A search area and **[search]** button provide the ability to search for entries in the Bika LIMS database





Tabs accross the top of the screen, and a navigation area to the left, give access to

the functional areas of the system

The status bar below the tabs shows

- the current location within the system
- the user currently logged on to the system
- a link to user preferences
- an undo link – lab managers only
- a log out link

Many of the forms have linked icons to the top right, providing functionality specific to the object displayed

-  email the current object
-  print the current object
-  switch to full screen mode
-  for analysis request – print sticker

For lab managers, pop-ups on the right of the screen show late analysis requests, analysis requests and jobcards awaiting verification and publication

For lab clerks, pop-ups on the right of the screen show late analysis requests, analysis requests for which samples are due, and orders which are pending


For lab technicians, the home page shows the list of current jobcards

Client contacts are able to view data pertaining only to their own company


*The home screen for client contacts shows the list of analysis requests which are in **sample due** status*

The client contact may modify client company and client contact information; submit analysis requests and view their progress through the system; submit orders; change their personal preferences

site map accessibility contact








home queries


 jburton preferences log out

you are here: home → clients → vintner inc




navigation

-  Vintner Inc
-  Genevieve Messeque
-  Jennifer Burton
-  John Dyonkile
-  Klaus Blondzik

edit
contacts
analysis requests
orders



Analysis requests

Sample due
 In lab
 Assigned
 To be verified
 Ver
 Pub

request id	contact	sample id	tank	cultivar	vintage	date requested	date received
AR-00011	Jennifer Burton	251C	C23	Cinsaut	2005	01 Aug 2005 22h53	

11. Client contact's home screen

3 Clients

Clients must be defined to the system before they can submit an analysis request. The **clients** tab or **clients** folder on the navigation bar shows the list of current clients. Clients may be deleted from the system by selecting the checkbox, and clicking on the **delete** button

*Client contacts do not see the **clients** tab or **clients** folder on the navigation bar. Any modifications to the client details are for their own company only*

clients

Clients

▲ one level up 📧 🖨️ 📄

<input type="checkbox"/>	name ▲	email address	phone	fax
<input type="checkbox"/>	Banghoek Roux	banghoek@scapp.co.za	021 3443026	0213443157
<input type="checkbox"/>	Chateaux Pau	pau@scapp.co.za	021 6261663	0216263295
<input type="checkbox"/>	Darwin Dry	darwin@scapp.co.za	021 3425264	0213404557
<input type="checkbox"/>	Drogerijst Kloof	wabooms@scapp.co.za	021 3551730	0213551731
<input type="checkbox"/>	Gna Products	gna@scapp.co.za	021 3404220	0213404220
<input type="checkbox"/>	GouKou Koöp	goukou@scapp.co.za	021 6162050	0216162192
<input type="checkbox"/>	Nuwehoop	nh@scapp.co.za	021 3491150	0213491504
<input type="checkbox"/>	Russell Reed	rreed@scapp.co.za	021 6141705	0216141705
<input type="checkbox"/>	Vizcaino Bay	vbay@scapp.co.za	021 6151901	0216153417

12. Client list

Creating a client

Client contacts may not create new clients. This function is only possible by the lab personnel. However, they are able to change address and contact numbers for their own company once it has been created

A new client is added by clicking on the **[add new client]** button

edit contacts analysis requests orders

Client has been created.

Edit Client

by [Will Thomson](#) — last modified 20 Feb 2006 14h44

[\[Name\]](#) [\[Address\]](#) [\[Contact numbers\]](#)

Name ■

Vintner Inc

Tax number

12345678

Account number

54321

Member discount applies

next save cancel

13. Create new client

Click on the **[next]** button to navigate to the address form

edit contacts analysis requests orders

Changes saved.

Edit Client

by [Will Thomson](#) — last modified 20 Feb 2006 14h49

[\[Name\]](#) [\[Address\]](#) [\[Contact numbers\]](#)

Email address

admin@vintner.com

Addresses

add

previous next save cancel

14. Client address

An email address for the client company may be added. Click on the **[add]** button in the **Addresses** area to add up to four different addresses. An address may be added for each of **Physical address, Mailing address, Billing address** and **Shipping address**. Select the type of address from the drop-down, and enter the address details. Repeat the address add procedure to add each type of address

view edit

New Reference Created.

Edit Address

by [Will Thomson](#) — last modified 20 Feb 2006 14h52

Type of address

Address

City

Postal/Zip code

Country

15. Add client address

The added addresses are presented in the client address form, where they may be deleted or edited

edit contacts analysis requests orders

Reference Added.

Edit Client

by [Will Thomson](#) — last modified 20 Feb 2006 14h49

[\[Name\]](#) [\[Address\]](#) [\[Contact numbers\]](#)

Email address

Addresses

[Mailing address](#)
P.O.Box 1235, Franschhoek, 2451, South Africa

[Physical address](#)
1244 Rose Way, Franschhoek, 2451, South Africa

16. Client address details

Click on the **[next]** button to enter the client contact numbers

edit | contacts | analysis requests | orders

Changes saved.

Edit Client

by [Will Thomson](#) — last modified 20 Feb 2006 15h03

[\[Name\]](#) [\[Address\]](#) **[Contact numbers]**

Phone
+27 284 555-1435

Fax
+27 284 555-1436

previous | save | cancel

17. Client contact numbers

Client Contacts

The **[contacts]** subtab shows the current client contact persons, and allows the addition of new contacts with the **[add new contact]** button

edit | login details

Contact has been created.

Edit Contact

by [Will Thomson](#) — last modified 20 Feb 2006 15h07

[\[Name\]](#) [\[Address\]](#) [\[Contact numbers\]](#) [\[Publication preference\]](#)

Title
Greeting title eg. Mr, Mrs, Dr
Dr

Firstname
The firstname of the person
Jennifer

Surname
The lastname of the person
Burton

Job title
Master Winemaker

Department
Production

next | save | cancel

18. Client contact person

The client contact person is defined, and using the **[next]** button, the addresses, contact numbers and publication preferences for each contact is defined

Publication preferences specify the way in which the results of an analysis request submitted by that client contact should be returned. This may be by fax or email

edit login details

Edit Contact

by [Will Thomson](#) — last modified 20 Feb 2006 15h10

[\[Name\]](#) [\[Address\]](#) [\[Contact numbers\]](#) **[Publication preference]**

Publication preference

Email
Fax

previous save cancel

19. Client contact publication preference

Once the client contact has been defined, it is necessary to define a userid for that person to access the system. This is done using the **|login details|** subtab

Client contacts are able to create new client contacts for their company, but they are not permitted to create login details for that new client contact. This must be requested from the lab personnel

edit login details

login details

There is no user for Jennifer Burton yet. He/she won't be able to login without a username. Please complete the form below to create a user

Username ■
Enter a user name, usually something like 'jsmith'. No spaces or special characters. Usernames and passwords are case sensitive, make sure the caps lock key is not enabled. This is the name used to log in.

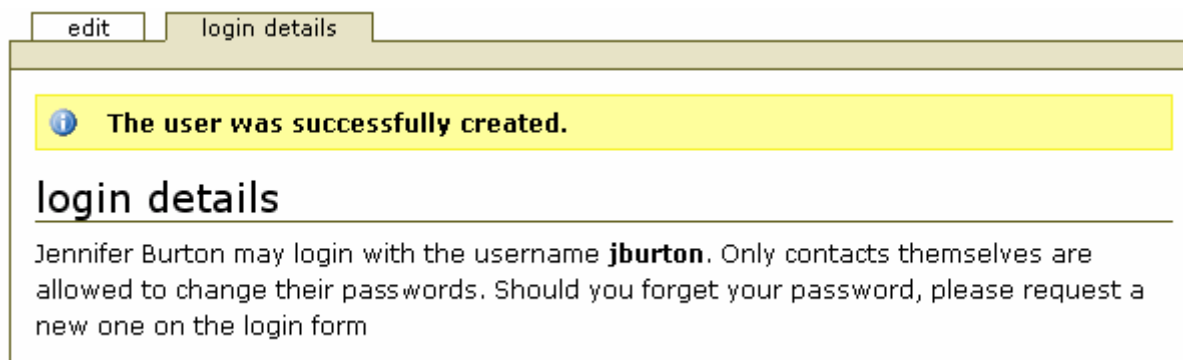
Password ■
Minimum 5 characters.

Confirm password ■
Re-enter the password. Make sure the passwords are identical.

E-mail ■
Enter an email address. This is necessary in case the password is lost. We respect your privacy, and will not give the address away to any third parties or expose it anywhere.

20. Client contact login details

Once the client contact has a login defined, a confirmation message is presented



The screenshot shows a web interface with two tabs: 'edit' and 'login details'. The 'login details' tab is active. A yellow banner at the top contains an information icon and the text 'The user was successfully created.' Below the banner, the heading 'login details' is followed by a paragraph: 'Jennifer Burton may login with the username **jburton**. Only contacts themselves are allowed to change their passwords. Should you forget your password, please request a new one on the login form'.

21. Confirmation of client login definition

The client may now login to the system to submit analysis requests, orders and to view results

4 Analysis Requests and Samples

An analysis request is the service request submitted by the client to the laboratory. It is a request for one or more analyses to be performed on a sample. The entire analysis request and the individual test requests pass through a number of stages

- 1. Sample due** - The sample has been shipped to the lab and the request for analysis has been registered on the system by the client
- 2. In the lab** - The sample has arrived in the lab, been received by the lab clerk, and a label has been printed and affixed to the sample
- 3. Assigned to jobcard** - Applies to individual test requests within the analysis request. Grouping related tests in a jobcard facilitates lab processes
- 4. To be verified** - The analysis has been completed and the result entered into the system. The result has yet to be verified by the lab manager. This status is applied to individual test requests on the analysis request, and to the analysis request as a whole once all the component tests are in this status
- 5. Verified** - The analysis result has been verified by the lab manager and is ready to be published. This status is applied to individual test requests on the analysis request, and to the analysis request as a whole once all the underlying tests are verified
- 6. Published** - The verified result has been published to the client by the method specified for the client contact. This status is applied to individual test requests on the analysis request, and to the analysis request as a whole once all the underlying tests are published

The **[analysis requests]** tab provides the functionality associated with the submission and processing of the analysis requests submitted to the lab

As an analysis request passes through the various statuses, it appears in the appropriate list selected by the radio button in the **Analysis Request** area

Analysis requests

Sample due
 In the lab
 Assigned to Jobcard
 To be verified
 Verified
 Published

22. Analysis Request list headings

Several pop-ups to the right of the screen also contain links to analysis requests which have exceeded their maximum time period and those which are in **To be verified** or **Verified** status from where they may be accessed directly. These pop-ups are only presented to the lab manager

late analyses
Density on AR-00004 2006-02-11
SpecificGravity on AR-00005 2006-02-11
More...
verified
AR-00024 2006-02-20
AR-00023 2006-02-20
to be verified
AR-00026 2006-02-20

23. Analysis request links

Analysis Request Registration

A new analysis request is registered by the client, or by the lab clerk on behalf of the client. From the **clients** tab, click on the **analysis requests** subtab. A list of current analysis requests for the client is shown. Click on the **add new analysis request** button for the analysis request form

edit	contacts	analysis requests	orders
------	----------	-------------------	--------

Request new analyses

Contact person: Jennifer Burton

Cultivar	Cinsaut	Blanc De	Blanche				
Vintage	2005	2005	2005				
Tank	C134	BN33	CB2				
Sample ID	322C	323BN	324CB				

Analyses								
Alcohol (R10.00)	% vol	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amg (R10.00)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appelsuur (R10.00)	g/l	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Balling (R10.00)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bar (R10.00)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ca (R10.00)	mg/l	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CO2 (R10.00)	g/l	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(R10.00)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VA (R10.00)	g/l	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VSO2 (R10.00)	mg/l	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Subtotal	R	30.00	30.00	30.00	0.00	0.00	0.00	0.00
VAT	R	4.20	4.20	4.20	0.00	0.00	0.00	0.00
Total	R	34.20	34.20	34.20	0.00	0.00	0.00	0.00

A discount of 33.33% applies to all items listed above.

24. Request new analyses

Up to eight samples may be registered for analyses on the form. The contact person is selected from the drop-down list, and sample identification information is entered. The sample identification information identifies the sample to the client company and does not have any formatting restrictions. The required analyses are checked and the total is calculated as the items are selected. The **[submit]** button will register the analysis request

The analysis request now appears in the **sample due** list. The analysis request may be modified by both the client and the lab staff while it is still in **sample due** status

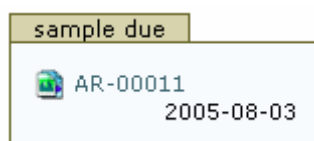
Analysis requests



<input type="checkbox"/>	request id	client	contact	sample id	tank	cultivar	vintage	date requested
<input type="checkbox"/>	AR-00006	Vintner Inc	Jennifer Burton	326C	C34	Cinsaut	2005	01 Aug 2005 20h53
<input type="checkbox"/>	AR-00005	Vintner Inc	Jennifer Burton	325FP	FP4	Fernao Pires	2005	01 Aug 2005 20h53
<input type="checkbox"/>	AR-00004	Vintner Inc	Jennifer Burton	327CO	CO5	Colombar	2005	01 Aug 2005 20h53
<input type="checkbox"/>	AR-00003	Vintner Inc	Jennifer Burton	323BN	BN33	Blanc De Noir	2005	01 Aug 2005 20h50

25. Analysis Requests – Sample due

The analysis requests which are in **sample due** status are presented in a pop-up to members with labclerk role. From here the request id may be clicked on to view the analysis request



26. Analysis Requests – Sample due pop-up.

On receiving the physical sample, the lab clerk checks the analysis request's check box and clicks on the **[receive sample]** button. The analysis request's status is changed to **In the lab** and the sample sticker is shown for printing. More than one sample may be processed in this manner. The **receive sample** functionality is not available to the lab technician

The details of the analysis request may be viewed by clicking on the **request id** in the list

view edit manage results results not requested log

state: sample due ▼

AR-00006

Contact person	Jennifer Burton				
Request ID	AR-00006				
Cultivar	Cinsaut				
Vintage	2005				
Tank	C34				
Sample ID	326C				
Date requested	01 Aug 2005 20h53				
Date received					
Analysis	Status	Job Card	Result	Unit	Price
Alcohol	sample_due			mg/L	30.00
Filter ind	sample_due			% vol	20.00
Subtotal					R 50.00
VAT					R 7.00
Total					R 57.00

A discount of 33.33% applies to all items listed above.

Test results relate only to the items tested. This document shall not be reproduced except in full, without the written approval of Local Demo Lab. Test results are 95% accurate.

Environmental conditions: Ambient, unless stated otherwise under 'Remarks'.

27. Analysis Request details – Sample due

For client contacts only the **edit** tab is shown. Client contacts are not able to **manage results**, view the **results not requested** or view the **log**. The state drop-down shown above appears as text for the client contact, and may not be changed

The drop-down at the top right of the form may be used to change the status of the analysis request to **In the lab** and the sample sticker information is shown, ready to be printed

Request	AR-00006		
Vintner Inc			
Cinsaut			
Tank	C34	Sample	326C
Received	01 Aug 2005 20h57		
Alcohol	Filter ind		

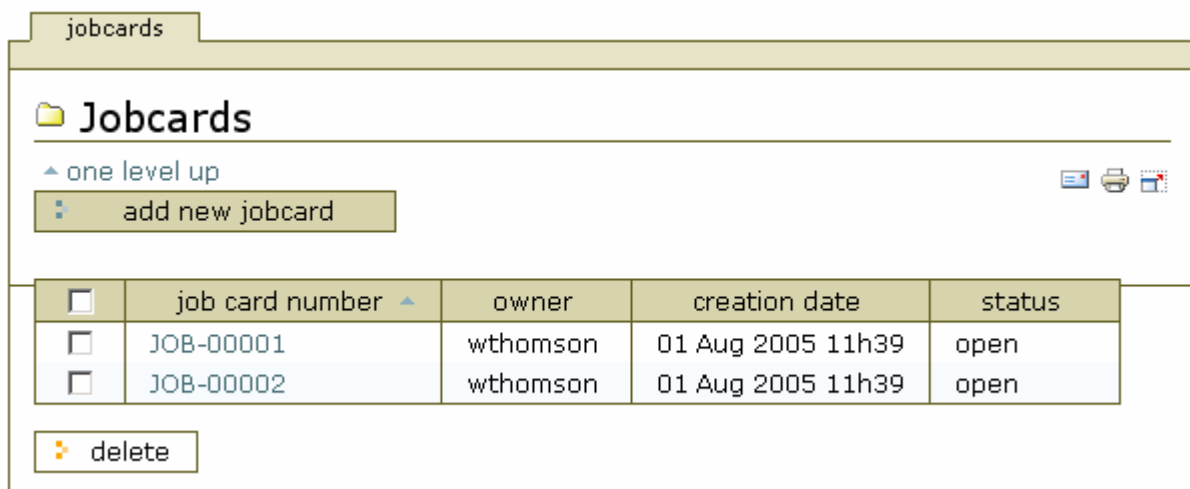
28. Sample sticker

The lab clerk sticks the sticker to the sample container and the sample is ready for processing by the lab technician. The analysis request, and each of its component test requests are all in **In the lab** status

Jobcards

A jobcard is a worksheet for use at a specific test station – a means by which a number of tests, on different samples, may be grouped into a single unit of work. E.g. Several different analysis requests may all require an alcohol content test. The lab clerk may choose to group all these tests onto a single jobcard, so that all the tests may be run at the same time at the alcohol testing workstation. Or a single workstation may perform a number of tests simultaneously. These too would be grouped into a single jobcard. The lab technician prints the worksheet and uses it in the lab to record results. The completed worksheet is eventually returned to the lab clerk for capturing the results into the system

The **[jobcards]** tab provides the functionality associated with jobcards



jobcards

Jobcards

▲ one level up

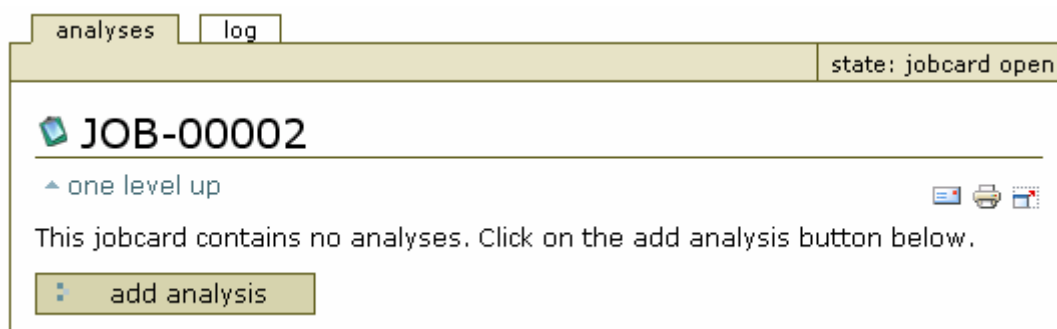
add new jobcard

<input type="checkbox"/>	job card number ▲	owner	creation date	status
<input type="checkbox"/>	JOB-00001	wthomson	01 Aug 2005 11h39	open
<input type="checkbox"/>	JOB-00002	wthomson	01 Aug 2005 11h39	open

delete

29. List of current jobcards

The lab technician clicks on the **[add new jobcard]** button to create a new jobcard. A unique jobcard number is generated with a blank jobcard, to which analysis requests are to be added, by clicking on the **[add analysis]** button



analyses log

state: jobcard open

JOB-00002

▲ one level up

This jobcard contains no analyses. Click on the add analysis button below.

add analysis

30. Add analysis to new jobcard

The user selects the analysis type and client for which the jobcard is to be created

analyses log state: jobcard open

Search

Analysis
Alkohol

Client
Vintner Inc

search

Search results

<input type="checkbox"/>	client	analysis request id	date requested	analysis
<input checked="" type="checkbox"/>	Vintner Inc	AR-00004	01 Aug 2005 20h53	Alkohol
<input type="checkbox"/>	Vintner Inc	AR-00005	01 Aug 2005 20h53	Alkohol
<input checked="" type="checkbox"/>	Vintner Inc	AR-00006	01 Aug 2005 20h53	Alkohol

add to jobcard

31. Select analysis requests for jobcard

The search result presents all the analysis requests in the lab which meet the specified criteria. The user then selects analysis requests for inclusion on the jobcard

analyses log state: jobcard open

JOB-00001

one level up

add analysis

Orientation: AR in columns AR in rows

Request ID	AR-00003	AR-00007	AR-00008	AR-00009
Client	Vintner Inc	Vintner Inc	Vintner Inc	Vintner Inc
Cultivar	Blanc De Noir	Cinsaut	Hermitage	Cinsaut
Vintage	2005	2005	2005	2005
Tank	BN33	C47	H12	C44
Sample ID	323BN	350C	348H	349C
Date requested	01 Aug 2005 20h50	01 Aug 2005 21h10	01 Aug 2005 21h10	01 Aug 2005 21h10
Date received	01 Aug 2005 21h11	01 Aug 2005 21h11	01 Aug 2005 21h11	01 Aug 2005 21h11
Analyses				
Alkohol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

submit results

32. Jobcard with analysis requests in columns

These three analysis requests have now been added to the jobcard. They are both **in the lab** and **assigned to jobcard**. The results may be submitted at either

point

The analysis request may be edited, at which point specific requests may be added or removed. Deleting an analysis request removes it from the jobcard, it does not delete the request from the system. Once an analysis request has been added to a jobcard, the jobcard is shown as a link in the analysis request

Results may be added as they become available

analyses log state: jobcard open

JOB-00001

one level up

add analysis

Orientation: AR in columns AR in rows

<input type="checkbox"/>	client	request id	date requested	date received	analysis	result	status
<input type="checkbox"/>	Vintner Inc	AR-00003	01 Aug 2005 20h50	01 Aug 2005 21h11	Alkohol	<input type="text"/>	assigned
<input type="checkbox"/>	Vintner Inc	AR-00007	01 Aug 2005 21h10	01 Aug 2005 21h11	Alkohol	<input type="text"/>	assigned
<input type="checkbox"/>	Vintner Inc	AR-00008	01 Aug 2005 21h10	01 Aug 2005 21h11	Alkohol	<input type="text"/>	assigned
<input type="checkbox"/>	Vintner Inc	AR-00009	01 Aug 2005 21h10	01 Aug 2005 21h11	Alkohol	<input type="text"/>	assigned

delete submit results

33. Jobcard with analysis requests in rows

Analysis Request Status Monitoring

The analysis requests appear in the appropriate status lists. Lab personnel see all results data. The lab manager and any lab personnel with the role of **reviewers** are allowed to edit results

*Client contacts may only view results which have been verified. Although they can see the lists of analysis requests in the various statuses, the results are not visible to them until **verified** or **published***

Analysis Request Result Capturing

Manual analysis results capture

Once an analysis request is in **in the lab** status, results may be entered. Click on the **[manage results]** subtab. The **[submit results]** button saves the results which have been entered

view edit manage results results not requested log

state: in the lab

AR-00010

▲ one level up

<input type="checkbox"/>	analysis ▲	unit	result	status
<input type="checkbox"/>	Alkohol	% vol	2	in_the_lab
<input type="checkbox"/>	Ca	mg/l	10	in_the_lab
<input type="checkbox"/>	Steriel		8	in_the_lab

delete submit results

34. Analysis request manage results

Minimum and maximum values have been set up for each test in the **bika setup - > Analysis Services** area. See Analysis Services section. A result which falls outside of this range is highlighted in red

Analysis	Status	Job Card	Result	Unit	Price
Alkohol	in_the_lab		2	% vol	10.00
Ca	in_the_lab		10	mg/l	10.00
Steriel	in_the_lab		8		10.00

35. Result out of range highlighted

Those analyses for which results have been entered are changed to **To be verified** status, while the analysis request as a whole becomes **To be verified** once results have been submitted for each of its component tests

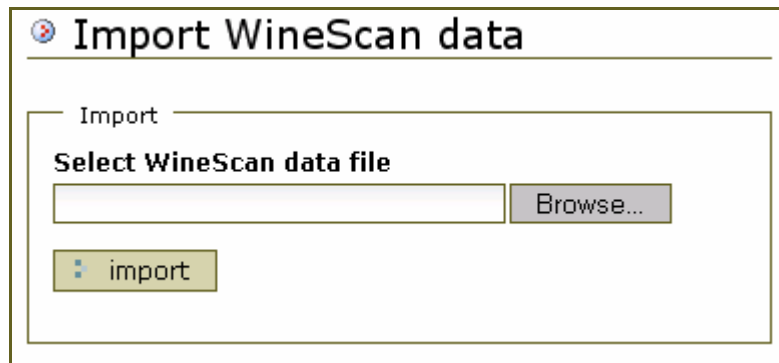
Client contacts may not manage results nor see them until they have been verified

Foss Instrument interface results capturing

Analysis results obtained from the Foss instrument may be imported into the Bika LIMS system

The mean values as recorded by the Foss instrument must be stored on the LIMS server as a comma delimited file (.csv). The name of the services as identified by the Foss instrument must have been added to the Bika LIMS service names. See Analysis Services section

In the Bika LIMS system, the lab personnel clicks on the **[import winescan]** tab where they are prompted to enter the name of the Foss data file, or may browse the computer to locate the file. Click on the **[import]** button to load the results data into the Bika LIMS system



36. Import WineScan data

The request numbers are matched to the analysis requests in the system, in **in the lab** status, and the results are entered into the analysis request in **to be verified** status

The Foss delivers a complete set of analyses for every sample, regardless of whether the client has requested it or not. The values which were not requested are written to the database, but flagged as 'not requested'. These results are not visible to clients or to lab personnel other than the lab manager. The unrequested results are viewed by the lab manager at the **[results not requested]** subtab

<input type="checkbox"/>	analysis	unit	result	status
<input type="checkbox"/>	TA	g/l	6.27	not_requested
<input type="checkbox"/>	pH		3.85	not_requested
<input type="checkbox"/>	VA	g/l	0.44	not_requested

37. Analysis Request – results not requested

The lab manager may release these results should the client request them, by clicking on the **[verify]** button, which moves that test, and its verified result into the requested results area

Results Verification

Verification of analysis requests

The **To be verified** list reflects all analysis requests for which all the results have been submitted

Analysis requests											
<input type="checkbox"/>	Sample due	<input type="checkbox"/>	In the lab	<input type="checkbox"/>	Assigned to Jobcard	<input checked="" type="checkbox"/>	To be verified	<input type="checkbox"/>	Verified	<input type="checkbox"/>	Published
<input type="checkbox"/>	request id	client	contact	sample id	tank	cultivar	vintage	date requested	date received		
<input type="checkbox"/>	AR-00010	Vintner Inc	Jennifer Burton	347C	C43	Cinsaut	2005	01 Aug 2005 21h10	01 Aug 2005 21h11		
<input type="checkbox"/>	AR-00002	Vintner Inc	Jennifer Burton	322C	C134	Cinsaut	2005	01 Aug 2005 20h50	01 Aug 2005 20h52		

38. To be verified list

The results may be verified by selecting the checkbox and clicking on the **[verify]** button. The analysis request is then moved into **Verified** status

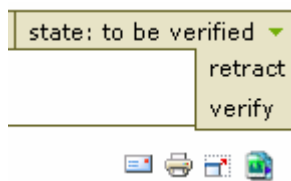
The results may be retracted by selecting the checkbox and clicking on the **[retract]** button. The analysis request is then moved back into **In the lab** status, and the results must be resubmitted to process the request

The lab manager additionally sees these requests in a pop-up on the right of the screen



39. To be verified pop-up

An individual analysis request may be viewed by clicking on the **request id** link, from where the request may be verified or rejected via the **state** drop-down



40. State drop-down

Verification of individual test results

Due to the fact that some analysis methods take longer than others, it may be necessary to publish results of some tests before all the tests on the analysis request have been completed. This is made possible by permitting verification of a jobcard

Once the results have been submitted on a jobcard, it is possible to change the status to **to be verified** by selecting **submit for verification** from the drop-down on a jobcard

analyses | log

state: jobcard open submit for verification

JOB-00007

▲ one level up [email] [print] [refresh]

add analysis

Orientation: AR in columns AR in rows

Request ID	AR-00003
Client	Vintner Inc
Cultivar	Blanc De Noir
Vintage	2005
Tank	BN33
Sample ID	323BN
Date requested	01 Aug 2005 20h50
Date received	01 Aug 2005 21h11
Analyses	
CO2	<input type="text" value="6"/>

submit results

41. Jobcard – submit for verification

The jobcard is then in **to be verified** status, and appears in the lab manager's pop-up of **to be verified** requests. The lab manager selects this jobcard, either from the pop-up or from list of jobcards, and verifies or retracts the results. The individual test results are recorded in the analysis request in the same status as the jobcard

Results Publication

Once an analysis request has been verified, it is ready for publication to the requesting client contact. All the verified requests are viewed by selecting the **verified** radio button in the analysis request area

Analysis requests

Sample due
 In the lab
 Assigned to Jobcard
 To be verified
 Verified
 Published

<input type="checkbox"/>	request id	client	contact	sample id	tank	cultivar	vintage	date requested	date received
<input type="checkbox"/>	AR-00010	Vintner Inc	Jennifer Burton	347C	C43	Cinsaut	2005	01 Aug 2005 21h10	01 Aug 2005 21h11
<input type="checkbox"/>	AR-00001	Vintner Inc	Jennifer Burton	324CB	CB2	Clairette Blanche	2005	01 Aug 2005 20h50	01 Aug 2005 20h51

publish retract

42. Verified analysis requests

The results may be published by selecting the checkbox and clicking on the **[publish]** button. The results may also be retracted, which returns the analysis

request and each of the component tests to **in the lab** status

Bulk publication is achieved by selecting the top checkbox in the list, which selects all the checkboxes, and clicking on the **[publish]** button. All the selected analysis requests are published

The analysis request may be viewed by clicking on the request number within the list. The lab manager also has the verified analysis requests presented in the verified pop-up, from which individual requests may be viewed and published

view
results not requested
log

state: verified ▼

AR-00010

publish
retract

Contact person	Jennifer Burton				
Request ID	AR-00010				
Cultivar	Cinsaut				
Vintage	2005				
Tank	C43				
Sample ID	347C				
Date requested	01 Aug 2005 21h10				
Date received	01 Aug 2005 21h11				
Analysis	Status	Job Card	Result	Unit	Price
Alkohol	verified	JOB-00002	2	% vol	10.00
Ca	verified		10	mg/l	10.00
Steriel	verified		8		10.00
Subtotal					R 30.00
VAT					R 4.20
Total					R 34.20

43. Analysis request verified

On viewing the details of the analysis request, the results may be published or retracted using the drop-down

On publication, the system sends the results to the client via the method selected by the client contact. This is by email, fax or letter



Request ID	V05-002648
Client	Vintner Inc
Cultivar	Jerepigo Wit
Vintage	2005
Tank	t13
Sample ID	S467
Date requested	2005-07-16 21:53
Date received	2005-07-17 23:36
Analyses	
Alcohol	6
Dist VSO2	12

Regards, BBK Test laboratory

Test results relate only to the items tested. This document shall not be reproduced except in full, without the written approval of BBK Test laboratory.

Test results are 95% accurate. Environmental conditions: Ambient, unless stated otherwise under 'Remarks'

44. Analysis request result email

The published analysis requests may be viewed by selecting the **published** radio button in the analysis request area

Should the results be required by the client before they are verified, they may be given telephonically. A record of this is made in the **Remarks** text area linked to the analysis request while it is still **in the lab**. This field is visible only to lab personnel

view
edit
manage results
results not requested
log

state: in the lab ▼

Edit Analysis request

by [admin](#) — last modified 20 Feb 2006 15h23 History

Cultivar		Blanc De N ▼	Remarks
Vintage		2005	Results given by phone to Jennifer.
Tank		BN33	
Sample ID		323BN	

45. Analysis request remarks column

Authorising lab clerks to verify and publish results

It is possible for a lab manager to assign verification and publication capability to a lab clerk. To do this the system administrator assigns the lab clerk to a group which has a **reviewer** role. Details under Bika LIMS System Setup

Analysis Request Modifications

An analysis request may be modified by the client while it is still in **sample due** status. Once it is in **in the lab** status, it may be modified only by the lab manager

Analysis Request Query, View, Print and Email

Queries may be run against the Bika LIMS database to find analysis requests, jobcards, orders and statements defined by specified search criteria. All access to data is restricted to the authorisation profiles of the users' roles. Clients may view only their own data. The **[queries]** tab presents the various query options

Queries	
<u>Query Analysis Requests</u>	Query analysis requests on client, tank number, sample id, cultivar, vintage, analyses, date requested and status.
<u>Orders</u>	Query orders on client, order date, product and status.
<u>Statements</u>	Query statements on client, statement date and description.

46. Query options

Click on the **Query Analysis Requests** link to search for analysis requests and job cards. The search is specified through one or more search criteria fields as shown. Any or all of the search criteria may be used



Query analysis requests

Search

Client
Vintner Inc ▼

Request ID

Sample ID

Date requested
From
2005 ▼ / ---- ▼ / ---- ▼  : ---- ▼ : ---- ▼
to
2005 ▼ / ---- ▼ / ---- ▼  : ---- ▼ : ---- ▼

Vintage

Cultivar

Tank

Analysis

Status

47. Query analysis request search specification

Client contacts do not have the option of selecting the company. The system restricts the query to data pertaining to the client

The results of the query are displayed, with the option to email these results to a specified address, or to a client contact registered to the system

Search results

Email query results

Search for contact

or

Enter email address

Your query found 11 items.

Request ID	AR-00001	AR-00002	AR-00003	AR-00007	AR-00008	AR-00009	AR-00010	AR-00004
Client	Vintner Inc	Vintner Inc	Vintner Inc	Vintner Inc	Vintner Inc	Vintner Inc	Vintner Inc	Vintner Inc
Cultivar	Clairette Blanche	Cinsaut	Blanc De Noir	Cinsaut	Hermitage	Cinsaut	Cinsaut	Colombar
Vintage	2005	2005	2005	2005	2005	2005	2005	2005
Tank	CB2	C134	BN33	C47	H12	C44	C43	C05
Sample ID	324CB	322C	323BN	350C	348H	349C	347C	327CO
Date requested	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01
Date received	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01	2005-08-01
Status	verified	to be verified	in the lab	assigned	assigned	assigned	published	assigned
Analyses								
Alcohol	2	12					2	
Amg								
Appelsuur	12							
Bar		2						

48. Query analysis request results

Click on the **[browse]** button to select a client contact

Contact back | close window

Search

Search terms

[Home](#) » [Clients](#) » [Vintner Inc](#)

Genevieve Messeque	select view
Jennifer Burton	select view
John Dyonkile	select view
Klaus Blondzik	select view

49. Browse contact email addresses

Click on the **select** link of the appropriate client contact person to return to the query result page with the appropriate email address, or click on the **view** link to view the contact details

Analysis request summary reports are available to lab management, and described under the section **Management Reports**

5 Price Lists

Price Lists provide a snapshot of prices at a moment in time. They may be created and deleted by lab managers. All lab personnel may view, print and email price lists

Client contacts do not have access to price lists. However, lab personnel may email a price list to a client contact

The link to price lists is on the left navigation bar. Click on the **Price Lists** link, to see all the current price lists

price lists

Price lists

▲ one level up

Click on add below to add new items

add new pricelist

<input type="checkbox"/>	title ▲	valid from	valid until
<input type="checkbox"/>	20050701 - Analyses	01 Jul 2005 00h00	31 Jul 2005 23h59
<input type="checkbox"/>	20050701 - Products	01 Jul 2005 00h00	31 Jul 2005 23h59
<input type="checkbox"/>	20050801 - Analyses	01 Aug 2005 00h00	31 Aug 2005 23h59
<input type="checkbox"/>	20050801 - Products	01 Aug 2005 00h00	31 Aug 2005 23h59

delete

50. Price lists

Click on the **[add new pricelist]** button to create a new price list, or select a price list checkbox to delete by clicking on the **[delete]** button

print pricelist email pricelist

Pricelist has been created.

Edit Pricelist

Pricelist Details

Title ■

Pricelist for ■
 Analysis services
 Lab products

Valid from ■
 / / :

Valid until ■
 / / :

Notes

51. Create a pricelist

Once the price list has been saved, it is displayed, and may be printed or emailed

print pricelist email pricelist

20050701 - Analyses

20050701 - Analyses
Pricelist for Analysis services
Valid from 01 Jul 2005 00h00 to 31 Jul 2005 23h59

Description	Amount	VAT	Amount incl VAT
Alkohol	15.00	2.10	17.10
Amg	15.00	2.10	17.10
Appelsuur	15.00	2.10	17.10
Balling	15.00	2.10	17.10
Bar	15.00	2.10	17.10
Ca	15.00	2.10	17.10
CO2	15.00	2.10	17.10
Cu	15.00	2.10	17.10

52. Price List

Click on the **print pricelist** tab to prepare a printable format of the price list, or on the **email pricelist** tab to send the price list to an email address

print pricelist | email pricelist

Email query results

Search for contact

or

Enter email address

53. Email price list

Enter a known email address, or click on the **[browse]** button to select a client contact

Contact back | close window

Search

Search terms

Home » Clients » Vintner Inc

Genevieve Messeque	select view
Jennifer Burton	select view
John Dyonkile	select view
Klaus Blondzik	select view

54. Browse contact email addresses

Click on the **select** link of the client contact to return to the email price list page with the appropriate email address, or click on the **view** link to view the contact details

Click the **[send mail]** button to send the email to the selected address

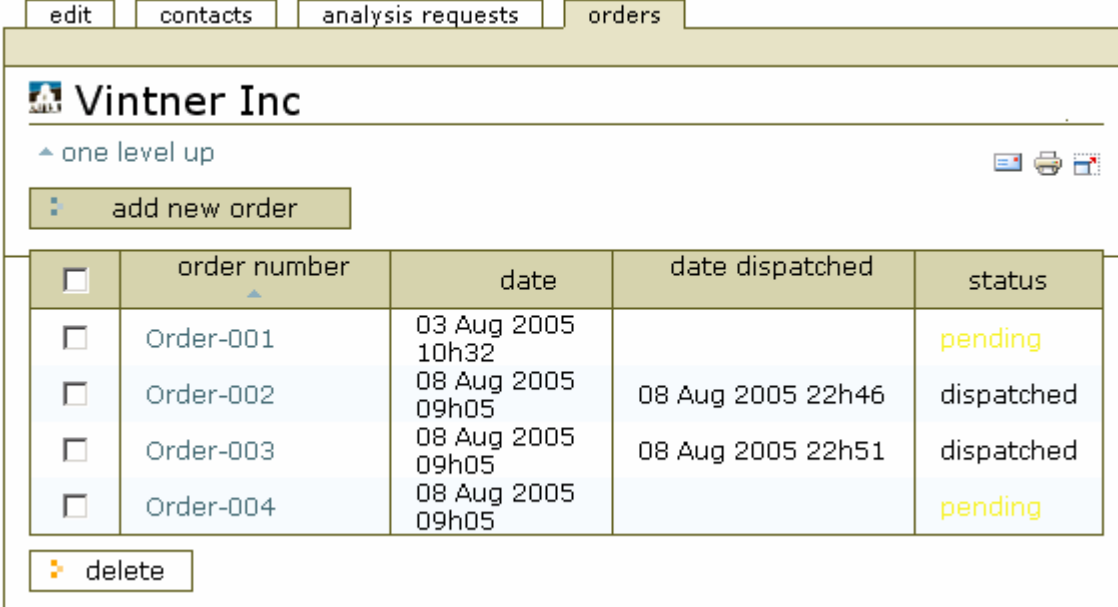
6 Product Ordering

The laboratory offers a number of items for sale to its clients. The list of items are defined by the lab manager under **bika setup**. These items appear in the list of items to be ordered when placing an order

A newly placed order is in **pending** status. Once the order has been fulfilled, the status changes to **dispatched**

Placing an Order

The client clicks on the **orders** tab to view existing orders and add a new order. Lab personnel placing an order on behalf of the client navigate to the **client**, then click on the **orders** tab. All the orders for that company, pending and dispatched, are shown



The screenshot shows a web application interface for 'Vintner Inc'. At the top, there are navigation tabs: 'edit', 'contacts', 'analysis requests', and 'orders'. Below the tabs, the company name 'Vintner Inc' is displayed with a logo. A link 'one level up' is visible. A button labeled 'add new order' is present. Below this is a table with the following columns: 'order number', 'date', 'date dispatched', and 'status'. The table contains four rows of order data. At the bottom, there is a 'delete' button.

<input type="checkbox"/>	order number	date	date dispatched	status
<input type="checkbox"/>	Order-001	03 Aug 2005 10h32		pending
<input type="checkbox"/>	Order-002	08 Aug 2005 09h05	08 Aug 2005 22h46	dispatched
<input type="checkbox"/>	Order-003	08 Aug 2005 09h05	08 Aug 2005 22h51	dispatched
<input type="checkbox"/>	Order-004	08 Aug 2005 09h05		pending

55. Client's order list

The client clicks on the **[add new order]** button to place an order, or on an order number link to edit an existing order in pending status

view edit print order log

state: **order pending** ▼

Order has been created.

Edit Order

Order number	Order-002					
Order date	08 Aug 2005 09h05					
Contact person	Jennifer Burton ▼					
Product	Description	Volume	Unit	Price	Quantity	Total
Appelsuur	Byvoegings by Wyn	1	kg	20.00	<input type="text" value="2"/>	40.00
Asetaldehyd		500	ml	180.00	<input type="text" value="0"/>	0.00
Balling standaard	18°	100	ml	20.00	<input type="text" value="0"/>	0.00
Ballingmeter	-5 - +5°			185.00	<input type="text" value="1"/>	185.00
PVC Beker		25	ml	8.50	<input type="text" value="0"/>	0.00
Timer	Digitaal			140.00	<input type="text" value="1"/>	140.00
WL Nutrient Agar		500	g	245.00	<input type="text" value="1"/>	245.00
Wynsteen L (+) suur		500	g	186.00	<input type="text" value="0"/>	0.00
Subtotal					<input type="text" value="5"/>	R 610.00
VAT						R 85.40
Total						R 695.40

56. Create new order

Managing Orders

Lab personnel may view orders by clicking on the **orders** tab on the main menu line. The orders for all clients are sorted by status, viewed by clicking on the appropriate radio button

Orders						
<input checked="" type="radio"/> Order pending		<input type="radio"/> Dispatched				
<input type="checkbox"/>	order number^	client	contact	order date	dispatch date	total price
<input type="checkbox"/>	Order-004	Vintner Inc	John Dyonkile	08 Aug 2005 09h05		900.60
<input type="checkbox"/>	Order-005	Banghoek Roux	Nico Roux	08 Aug 2005 09h05		835.62
<input type="checkbox"/>	Order-006	Russell Reed	Chris Reed	08 Aug 2005 09h05		3522.60
<input type="checkbox"/>	Order-001	Vintner Inc	Jennifer Burton	03 Aug 2005 10h32		45.60

57. Order list

Pending orders also appear to the lab clerk in a pop-up to the right of the screen

pending orders	
<input type="checkbox"/> Order-004	2005-08-08
<input type="checkbox"/> Order-005	2005-08-08
<input type="checkbox"/> Order-006	2005-08-08
<input type="checkbox"/> Order-001	2005-08-03

58. Orders pending pop-up

The lab clerk may select the checkboxes and click on **[dispatch]**, or click on the order number link in the list, or click on the order number link in the pop-up to see the order details

view	edit	print order	log	state: order pending ▼			dispatch
Order-002							
Order number	Order-002						
Order date	08 Aug 2005 09h05						
Dispatch date							
Contact person	Jennifer Burton						
Product	Description	Volume	Unit	Price	Quantity	Total	
Appelsuur	Byvoegings by Wyn	1	kg	20.00	2	40.00	
Ballingmeter	-5 - +5°			185.00	1	185.00	
Timer	Digitaal			140.00	1	140.00	
WL Nutrient Agar		500	g	245.00	1	245.00	
Subtotal					5	R 610.00	
VAT						R 85.40	
Total						R 695.40	

59. Order detail

Use the drop-down to change the status of the order to **dispatched**

Order Query, View, Print and Email

Queries may be run against the Bika LIMS database to find orders defined by specified search criteria. All access to data is restricted to the authorisation profiles of the users' roles. Clients may view only their own data. The **[queries]** tab presents the various query options

<h2>Queries</h2> <hr/> <p><u>Query Analysis Requests</u> Query analysis requests on client, tank number, sample id, cultivar, vintage, analyses, date requested and status.</p> <p><u>Orders</u> Query orders on client, order date, product and status.</p> <p><u>Statements</u> Query statements on client, statement date and description.</p>

60. Queries menu

Click on the **Orders** link. The order query form is presented

Orders

Search

Client

Order date
From
2006 / / :
to
2006 / / :

Product

Status

61. Query orders

Any or all of the search criteria may be used to perform the search. Click on the **[search]** button to execute the search

Search results

Email query results

Search for contact

or

Enter email address

Your query found 4 items.

order number	client	order date	dispatch date
Order-004	Vintner Inc	08 Aug 2005 09h05	
Order-003	Vintner Inc	08 Aug 2005 09h05	08 Aug 2005 22h51
Order-001	Vintner Inc	03 Aug 2005 10h32	
Order-002	Vintner Inc	08 Aug 2005 09h05	08 Aug 2005 22h46

62. Query orders results

Client contacts do not have the option of selecting the company. The system restricts the query to data pertaining to the client.

The query results are displayed. Individual order details may be viewed by clicking on the order number link, or the results may be emailed to a specified address, or to a client contact registered to the system





Click on the **[browse]** button to select a client contact

Contact back | close window

Search

Search terms

[Home](#) » [Clients](#) » [Vintner Inc](#)

 Genevieve Messeque	select view
 Jennifer Burton	select view
 John Dyonkile	select view
 Klaus Blondzik	select view

63. Browse contact email addresses

Click on the **select** link associated with the client contact person to return to the query result page with the appropriate email address, or click on the **view** link to view the contact details

Once the contact name or email address has been entered, click on the **[send mail]** button to send

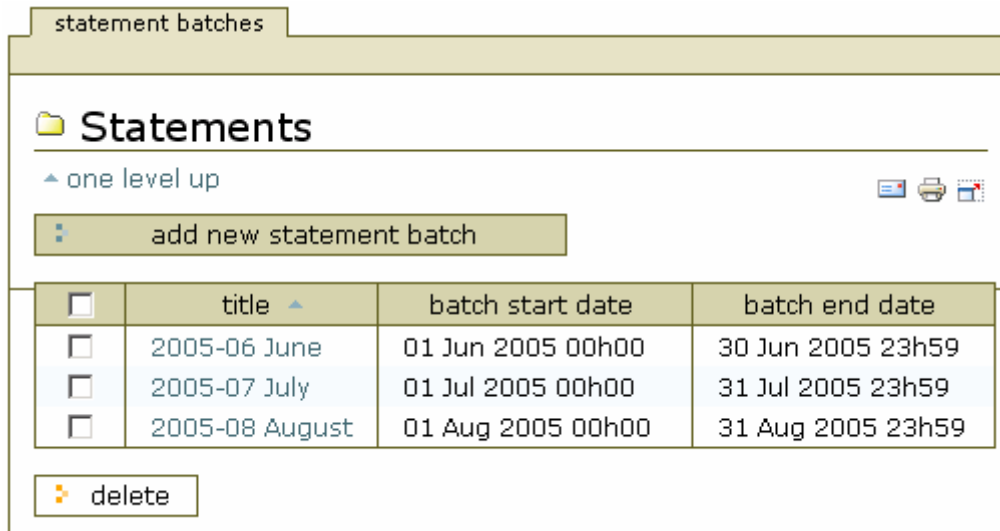
7 Statements

Statement batches are a means of grouping chargeable services in a specified date range, in a format which may be printed or emailed

Statements may be created and deleted by lab managers. They may be viewed and printed by all lab personnel

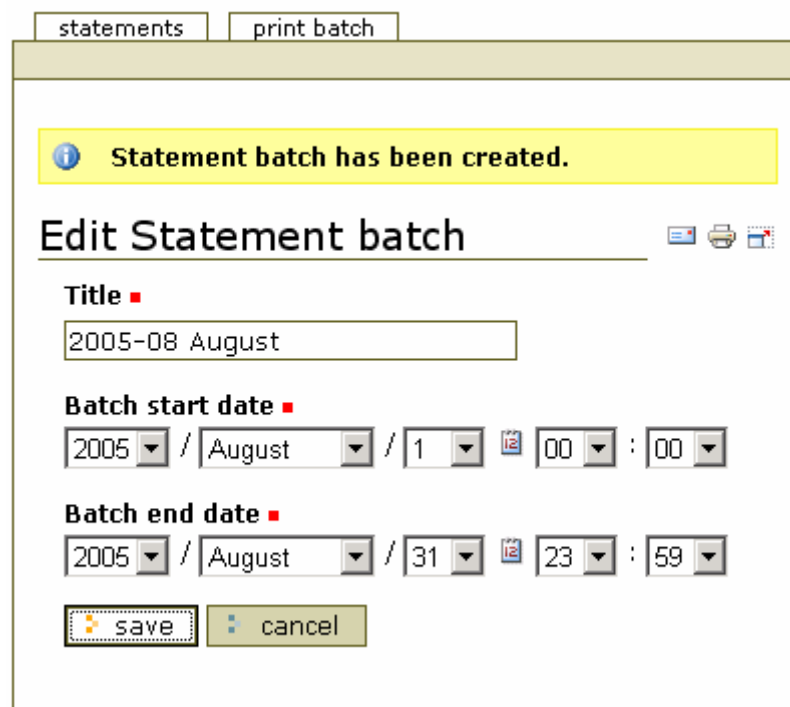
Client contacts do not have access to the statement functionality

Statements are accessed from the left navigation bar. All current statement batches are shown, and may be drilled down to view individual statements per client company



64. Statement batches

Click on the **[add new statement batch]** button to create a new statement batch, or on a statment batch title to view an existing statement batch



65. Create statement batch

The statement batch is created, comprising one statement per client company, for the specified date range

statements		print batch			
2005-08 August					
▲ one level up					
statement number ▲	client	date	subtotal	vat	total
statement_11	Banghoek Roux	05 Sep 2005 22h12	30.00	4.20	34.20
statement_12	Vintner Inc	05 Sep 2005 22h12	280.00	39.20	319.20

66. Statement batch

Click on the statement number to view the statement

print statement		log		
Vintner Inc				
Vintner Inc 54321	P.O.Box 1235, Franschhoek, 2451, South Africa	Tel: +27 284 555-1435 Fax: +27 284 555-1436		
Monthly Statement	statement_12	2005 Aug, 2005-08-01 to 2005-08-31		
Date	Description	Amount	VAT	Amount incl VAT
02 Aug 2005	AR-00010 C43 Cinsaut 2005 347C	30.00	4.20	34.20
03 Aug 2005	AR-00005 FP4 Fernao Pires 2005 325FP	20.00	2.80	22.80
09 Aug 2005	AR-00013 C12 Cinsaut 2005 362C	70.00	9.80	79.80
09 Aug 2005	AR-00002 C134 Cinsaut 2005 322C	80.00	11.20	91.20
09 Aug 2005	AR-00001 CB2 Clairette Blanche 2005 324CB	80.00	11.20	91.20
2005 Aug	Total	R 280.00	R 39.20	R 319.20

67. Statement

The statement includes all the analytical services which were performed within the specified date range

Click on the **|print statement|** tab to view the statement in a printer-friendly format

Statement Query, View, Print and Email

Queries may be run against the Bika LIMS database to find statements defined by specified search criteria. All access to data is restricted to the authorisation profiles

of the users' roles. The **queries** tab presents the various query options

Queries

Query Analysis Requests
Query analysis requests on client, tank number, sample id, cultivar, vintage, analyses, date requested and status.

Orders
Query orders on client, order date, product and status.

Statements
Query statements on client, statement date and description.

68. Query options

Click on the **Statements** link to search for statements. The search is specified through one or more search criteria fields as shown

Statements

Search _____

Client

statement date
From
 / / :

to
 / / :

Analysis Request ID

69. Query statement search specification

The list of statements which satisfy the query is displayed, with the option to email these results to a specified address, or to a client contact registered to the system

Search results

Email query results

Search for contact

or

Enter email address

Your query found 1 items.

statement number	client	statement date
statement_12	Vintner Inc	05 Sep 2005 22h12

70. Query statement results

Click on the **[browse]** button to select a client contact





Contact

[back](#) | [close window](#)

Search

Search terms

[Home](#) » [Clients](#) » [Vintner Inc](#)

 Genevieve Messeque	select view
 Jennifer Burton	select view
 John Dyonkile	select view
 Klaus Blondzik	select view

71. Browse contact email addresses

Click on the **select** link associated with the client contact to return to the query result page with the appropriate email address, or click on the **view** link to view the contact details

8 Management Reports

Management reports provide summary information for the number of requests per analysis service, and the number of requests per client. The reports are available to those lab personnel with lab manager or lab clerk permissions. The reports are available from the **[reports]** tab on the main menu

Reports

Analyses totals

Report the number of analyses requested per analysis service.

Analysis requests per client

Report the number of requests per client.

72. Report menu

Click on the **Analyses totals** link to view the number of analyses requested per analysis service

Requests for analyses	
analyses ^	number of requests
Alkohol	14
Amg	2
Appelsuur	6
Balling	1
Bar	1
Ca	1
CO2	2
Cu	1
Dist TSO2	0
Dist VSO2	0
Fe	0
Fenole	0
Filter ind	1
Koud stab	0
Melksuur	4
Mikro	0
O2	1
Org lep	0
Pektien	0
pH	4
pH Dropout	0
Prot	0
Reduserende Suikers	4
Steriel	1
TA	4
TS Dropout	0
TSO2	1
VA	5
VSO2	1

73. Analyses requests per analysis service

Click on the **Analyses requests per client** link to view the summary of analyses requests issued per client

Analysis requests per client	
client	number of requests
Banghoek Roux	0
Chateaux Pau	0
Darwin Dry	0
Drogerijstkloof	0
Gna Products	0
GouKou Koöp	0
Nuwehoop	0
Russell Reed	0
Vintner Inc	14
Vizcaino Bay	0












74. Analysis requests per client

9 Site Setup

The Bika LIMS system is configured in the **Site Setup** area, reached by clicking on the **site setup** link. This function is only available to the administrator.

Site Setup covers

- **Plone Configuration** – Plone configuration settings, not covered in this manual
- **Add-on Product Configuration** – additional product configuration settings. Not covered in this manual.
The **schema editor** enables the modification of the Bika LIMS to industry and laboratory specifications. Described in the Schema Editor manual
- **Bika Configuration** – Specification of laboratory specific information for the Bika LIMS. This section describes Bika Configuration

Bika Configuration	
	Analysis services
	Bika settings
	Client categories
	Client publication preferences
	Client statement preferences
	Client status
	Cultivars
	Laboratory information
	Mail Templates settings
	Products
	Users and Groups Administration

75. Bika configuration

All the menu functions are presented, and remain in the left navigation area while in the control panel

Analysis Services

All the Bika LIMS system's analytical services and their prices are listed here

Analysis services

▲ Up to Plone Setup

Setup the services we offer our clients.

 add new analysis service

<input type="checkbox"/>	title	unit	minimum value	maximum value	price excluding vat	vat	total price
<input type="checkbox"/>	Alkohol	% vol	5.00	10.00	15.00	2.10	17.10
<input type="checkbox"/>	Amg		5.00	10.00	15.00	2.10	17.10
<input type="checkbox"/>	Appelsuur	g/l	5.00	10.00	15.00	2.10	17.10
<input type="checkbox"/>	Balling		5.00	10.00	15.00	2.10	17.10
<input type="checkbox"/>	Bar		5.00	10.00	15.00	2.10	17.10
<input type="checkbox"/>	Ca	mg/l	5.00	10.00	15.00	2.10	17.10
<input type="checkbox"/>	CO2	g/l	5.00	10.00	15.00	2.10	17.10

 delete

76. Analysis services

Click on **[add new analysis service]** to add a new service, or click on the title of an existing service to edit it

Edit Analysis service

by [admin](#) — last modified 20 Feb 2006 12h59

Title ■

Description

Unit

Minimum value

Maximum value

Price excluding VAT

VAT %
Enter percentage value eg. 14

FOSS Keyword
This is the name of the service in the CSV file exported by the FOSS instrument

Maximum Hours Allowed
Maximum time allowed for publication of results

77. Analysis service

The **Minimum value** and **Maximum value** fields are used to determine whether a test result is out of range, and therefor highlighted in the analysis request results

The **VAT %** defaults to the system default but may be edited

The **FOSS Keyword** is the name of the service in the .csv file created by the Foss instrument

Maximum Hours Allowed is the time limit specified for this test to be concluded. When an analysis request exceeds this time limit, it is displayed in the **late analyses** pop-up

Bika Settings ✕

Bika settings define the default values specific to the Bika LIMS installation

Bika Settings

▲ [Up to Plone Setup](#)

Configure password lifetime, auto log-off, VAT % and system prefixes.

Edit [bika settings](#).

78. Bika settings menu

Edit Bika settings

by [admin](#) — last modified 09 Feb 2006 01h06

Password lifetime ■
The number of days before a password expires. 0 disables password expiry.

Automatic log-off ■
The number of minutes before a user is automatically logged off. 0 disable automatic log-off.

Member discount %
Enter percentage value eg. 33.0

VAT %
Enter percentage value eg. 14.0

Prefixes

Portal type	Prefix	Padding	delete
<input type="text" value="AnalysisRequest"/>	<input type="text" value="AR-"/>	<input type="text" value="5"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

delete all entries

79. Bika settings

System wide preferences are set here by the lab manager or system administrator

Password lifetime defines the number of days before users' passwords expire, requiring them to renew their passwords. A zero value implies passwords do not expire

Automatic log-off defines the number of minutes of inactivity before the system automatically logs the user off. A zero value implies automatic log-off is disabled

VAT percentage to be applied to services and products. The VAT may be changed per individual service, but this value sets the system default

The Bika LIMS system generates serial numbers as new objects are created, e.g. analysis requests, jobcards, orders. The prefixes and formats for these serial numbers are defined in the **Prefixes** list. The prefix may include special characters, typically ``

Client Categories

May be used as applicable to the client

Client categories

▲ Up to Plone Setup

add new client category

<input type="checkbox"/>	title
<input type="checkbox"/>	Co-op
<input type="checkbox"/>	Estate
<input type="checkbox"/>	Export label
<input type="checkbox"/>	Research institute

delete

80. Client categories

Publication Preferences

The publication preference options available to client contacts. The values will appear in the list of options offered when client contacts' publication preferences are selected

Publication preferences

▲ Up to Plone Setup

add new publication preference

<input type="checkbox"/>	title
<input type="checkbox"/>	email
<input type="checkbox"/>	fax

delete

81. Client publication preferences

Statement Preferences

The statement publication preference options available to client contacts

Statement preferences

▲ Up to Plone Setup

add new statement preference

<input type="checkbox"/>	title
<input type="checkbox"/>	email
<input type="checkbox"/>	fax

delete

82. Client statement preferences

Client Status

For future use

Client status

▲ Up to Plone Setup

add new client status

<input type="checkbox"/>	title
<input type="checkbox"/>	active
<input type="checkbox"/>	arrears
<input type="checkbox"/>	history

delete

83. Client status

Cultivars

Cultivars

[▲ Up to Plone Setup](#)

Setup cultivars used when registering analysis requests

[+ add new cultivar](#)

<input type="checkbox"/>	title
<input type="checkbox"/>	Barbera
<input type="checkbox"/>	Blanc De Noir
<input type="checkbox"/>	Blanc Fume
<input type="checkbox"/>	Cabernet Franc
<input type="checkbox"/>	Cabernet Sauvignon
<input type="checkbox"/>	Chardonnay/Steen
<input type="checkbox"/>	Chenin Blanc/Colombar
<input type="checkbox"/>	Cinsaut/Shiraz
<input type="checkbox"/>	Ruby Cabernet/Shiraz
<input type="checkbox"/>	Ruby Port
<input type="checkbox"/>	Sangiovese
<input type="checkbox"/>	Tempranillo
<input type="checkbox"/>	Tinta Barocca
<input type="checkbox"/>	Weisser Riesling

[+ delete](#)




84. *Cultivars*

These are the cultivars of the samples which are submitted. This list appears for selection when the cultivar is entered into an analysis request

Laboratory Information

Laboratory information includes the name of the laboratory, contact numbers, physical and postal address, email address and the laboratory personnel and their contact details. Click on the **laboratory information** link

The laboratory name is entered, and using the **[next]** button, the addresses, contact numbers and bank account details are entered

Edit Laboratory   

by [admin](#) — last modified 20 Feb 2006 12h59

[\[Name\]](#) [\[Address\]](#) [\[Contact numbers\]](#) [\[Bank account\]](#)

Name ■




Registration number

Tax number


Number of employees

85. Laboratory details

Click on the **[next]** button to navigate to the address form

Edit Laboratory   

[\[Name\]](#) [\[Address\]](#) [\[Contact numbers\]](#) [\[Bank account\]](#)

 **Address Details**

Email address

Addresses

86. Laboratory address details

Enter the email address, then click on the **[add]** button to add up to four addresses

view edit properties

New Reference Created.

Edit Address

Address Details

Type of address
Physical address

Address
1245 Theodor St
Wynberg

City
Cape Town

Postal/Zip code
2012

Country
South Africa

save cancel

87. Laboratory address details

An address may be added for each of **Physical address, Mailing address, Billing address** and **Shipping address**. Select the type of address from the drop-down, and enter the address details. Repeat the address add procedure to add each type of address

Click on the **[next]** button to navigate to the Contact Numbers form

Edit Laboratory

[Name] [Address] **[Contact numbers]** [Bank account]

Contact numbers Details

Phone
+27 12 555-6589

Fax
+27 12 555-6590


previous next save cancel

88. Laboratory contact numbers

Click on the **[next]** button to navigate to the bank account details form

Edit Laboratory

[Name] [Address] [Contact numbers] **[Bank account]**

 Bank account Details

Type of account

Account number

Branch number

Bank name

89. Laboratory bank details

Mail Templates

The lab manager or systems administrator maintains lay-out templates for results publication to clients as emails and faxes. Graphics, e.g. logos, may be included in the templates

Manage E-mail Templates

[▲ Up to Phone Setup](#)

Categories

bika mail templates

- [Email statement query template](#)
- [Pricelist mail template](#)
- [Analysis results mail template](#)
- [Email order query template](#)
- [Email analysis requests template](#)

Add new category

Id

Title

90. Email templates

Click on the links to view and edit the email templates

view edit

Email statement query template

▲ Up to Manage E-mail Templates

E-mail Details

Subject

```
string:Results for query on statements
```

Body

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
<html tal:define="portal options/portal">
<style>
body {
  font: 10; "Lucida Grande", Verdana, Lucida, Helvetica, Arial;
  background-color: White;
  color: Black;
  margin: 1em;
  padding: 0;
```

91. Excerpt of email statement template

Click on the **edit** tab to edit the template

view
edit

Edit Mail Template

PT_MailTemplate Details

Short Name
Should not contain spaces, underscores or mixed case. Short Name is part of the item's web address.

Title ■

Description

Before script
This script would be called before template rendering.

-- None --

Strip html

Subject ■

Body ■

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
 <html tal:define="portal options/portal">
 <style>
 body {
 font: 10; "Lucida Grande", Verdana, Lucida, Helvetica, Arial,

92. Email template edit

Click on **[save]** to commit the changes


Products

The products available for sale are specified in this area

Lab products

▲ Up to Plone Setup

Setup the products sold to our clients.

 add new product

<input type="checkbox"/>	title	volume	unit	price excluding vat	vat	total price
<input type="checkbox"/>	Appelsuur	1	kg	20.00	2.80	22.80
<input type="checkbox"/>	Asetaldehyd	500	ml	180.00	25.20	205.20
<input type="checkbox"/>	Balling standaard	100	ml	20.00	2.80	22.80
<input type="checkbox"/>	Ballingmeter			185.00	25.90	210.90
<input type="checkbox"/>	Cream of Tartar	1	kg	35.00	4.90	39.90
<input type="checkbox"/>	Erlenmeyer Fles	250	ml	20.50	2.87	23.37
<input type="checkbox"/>	Ethanol	1000	ml	30.00	4.20	34.20
<input type="checkbox"/>	Ethanol - Aangesuur	1	l	30.00	4.20	34.20
<input type="checkbox"/>	KI	500	g	250.00	35.00	285.00
<input type="checkbox"/>	pH Buffer	500	ml	35.00	4.90	39.90
<input type="checkbox"/>	Pipette	15	ml	26.50	3.71	30.21
<input type="checkbox"/>	Plaatfilters 40 x 40			7.90	1.11	9.01
<input type="checkbox"/>	PVC Beker	25	ml	8.50	1.19	9.69
<input type="checkbox"/>	Timer			140.00	19.60	159.60
<input type="checkbox"/>	WL Nutrient Agar	500	g	245.00	34.30	279.30
<input type="checkbox"/>	Wynsteen L (+) suur	500	g	186.00	26.04	212.04

 delete

93. Laboratory products

Click on a product title to edit the product details

Edit Product

LabProduct Details

Title

Product description

Volume

Unit

VAT %
Enter percentage value eg. 14

Price excluding VAT

94. Edit product details

The VAT % defaults to the system defined value, but may be overridden here for this product

Users and Groups Administration

Users

Laboratory personnel are registered and assigned their roles from the **Users and Groups Administration** menu option. Note that client contacts are not registered here – they are accessed via the **Clients** option on the main menu

users groups

Users Overview

[▲ Up to Site Setup](#)

Click the user's name to see and change the details of a specific user.
Click the envelope icon to send a mail to the user.
You can also edit the e-mail addresses, and add/remove users.

Note that roles listed here apply directly to a user. They do not reflect additional roles users may have due to group memberships.

user search:

Enter a username to search for, or click 'Show All'

95. Users overview

The **[search]** or **[show all]** buttons display the users

user search: <input type="text"/> <input type="button" value="search"/> <input type="button" value="show all"/>									
user name	e-mail address	roles						reset pwd	remove user
		mem	reviewer	mnger	tech	clerk	mrger		
labclerk (labclerk)	<input type="text" value="labclerk@scapp.co"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
labmanager (labmanager)	<input type="text" value="labmanager@scap"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
labtechnician (labtechnician)	<input type="text" value="labtechnician@scap"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
sturner (Sandra Turner)	<input type="text" value="sturner@bika.com"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
wthomson (Will Thomson)	<input type="text" value="wthomson@bika.c"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

96. Users

The email addresses may be modified, roles assigned the password reset, a user removed from the system. Click on the **[add new user]** button to add a user, or click on the **user name** to view or modify user details

user properties | group memberships

User Properties for wthomson

[▲ Up to Users Overview](#)
Change user properties.

User Details

Full Name

E-mail ■

Location
 Your location - either city and country - or in a company setting, where your office is located.

Language
 Your preferred language.

Biography
 A short overview of who you are and what you do. Will be displayed on the your author page, linked from the items you create.

Home page
 The URL for your external home page, if you have one.


Content editor
 Select the content editor that you would like to use.
 Note that content editors often have specific browser requirements.

Enable external editing
 When checked, an icon will be made visible on each page which allows you to edit content with your favorite editor instead of using browser-based editors. This requires an additional application called ExternalEditor installed client-side. Ask your administrator for more information if needed.

Listed in searches
 Determines if your user name is listed in user searches done on this site.

Portrait
 To add or change the portrait: click the "Browse" button; select a picture of yourself.
 Recommended image size is 75 pixels wide by 100 pixels tall.

Delete Portrait



97. User properties edit

Enter the user details, and optionally load a portrait of the user

Click on the **[group membership]** tab to assign this user to a group. See next section

Groups and Roles

Roles determine the authorization and functionality the user has within the system. The following roles are defined:

- member – all members of the portal are in the member group. Client contacts are typically only members of this group, and may view only their own company's data
- reviewer – assigned to lab managers and any lab personnel authorized to verify results
- labmanager – Bika setup functionality and all other functionality except system setup functions reserved to the system administrator
- labtechnician – able to manage test results and job cards
- labclerk – able to receive samples, submit analysis requests and manage product orders
- manager
- owner

Groups are logical collections of users, such as departments and business units. Groups are then given roles, and users are assigned to groups. The users within the group inherit the functionality of the roles assigned to the group

Click on the **[groups]** tab from the main **Users and Groups Administration** area to manage groups

user properties
group memberships

Group Memberships for wthomson

▲ Up to Users Overview

Search for new groups

quick search: 🔍 search

<input type="checkbox"/>	group/user name
<input type="checkbox"/>	Administrators
<input type="checkbox"/>	Reviewers
<input type="checkbox"/>	clients
<input type="checkbox"/>	labclerks
<input type="checkbox"/>	labmanagers
<input type="checkbox"/>	labtechnicians

➤ add user to selected groups

Current Group Memberships

group name	remove group
labmanagers	<input type="checkbox"/>

➤ remove selected groups

98. Group membership

The user's current group membership is displayed. To add a user to a group, select the appropriate checkboxes and click the **[add users to selected groups]** button

To assign roles to groups, select the appropriate checkboxes and click the **[apply changes]** button

Click on the **[add new group]** button to add a group, or click on the group name to view or modify group properties

group members
group properties

Edit Group Properties for labmanagers

[▲ Up to Groups Overview](#)

Groups are logical collections of users, like departments and business units. They are not directly related to permissions on a global level, you normally use Roles for that - and let certain Groups have a particular role.

Group Properties

Short Name
labmanagers

title

description
 ▲ ▼

email

99. Group properties

Adding Users to Groups

Users may be added to groups in two ways: Edit the user, and select multiple groups they should join, or edit the group and add multiple users

Click on the **|group membership|** tab of the user properties form:

user properties
group memberships

Group Memberships for pmohale

[▲ Up to Users Overview](#)

Search for new groups

quick search: 🔍 search

<input type="checkbox"/>	group name
<input type="checkbox"/>	clients
<input type="checkbox"/>	labclerks
<input type="checkbox"/>	labmanagers
<input checked="" type="checkbox"/>	labtechnicians

➤ add user to selected groups

Current Group Memberships

group name	remove group
labtechnicians	<input type="checkbox"/>

➤ remove selected groups

100. Group membership for user

The available groups are shown above, while the current groups to which this user belongs are shown below. Select the appropriate checkboxes and click on **[add user to selected groups]** to add the user. To cancel the user's membership to the group select the appropriate checkbox from the **Current Group Memberships** list, and click on **[remove selected groups]**

To add multiple users to a group, click on the **[group members]** tab of the **group properties** form

group members
group properties

Members of the labmanagers Group

[▲ Up to Groups Overview](#)
 You can add or remove users from this particular group here. Note that this doesn't actually delete the user, it is only removed from this group.

Search for new group members

quick search:

<input type="checkbox"/>	group name
<input type="checkbox"/>	jburton
<input type="checkbox"/>	labclerk
<input type="checkbox"/>	labmanager
<input type="checkbox"/>	labtechnician
<input type="checkbox"/>	pmohale
<input type="checkbox"/>	sandile
<input type="checkbox"/>	sturner
<input type="checkbox"/>	tsanqu
<input type="checkbox"/>	wthomson

Current Group Members

<input type="checkbox"/>	user name	e-mail address
<input type="checkbox"/>	labmanager (labmanager)	labmanager@scapp.co.za
<input type="checkbox"/>	tsanqu (Thandi Sanqu)	tsanqu@bikalabs.com
<input type="checkbox"/>	wthomson (Will Thomson)	sweetnam@intekom.co.za

101. Group membership

The available users are shown above, while the current group members are shown below. Select the appropriate checkboxes and click on **[add selected users to this group]** to add the user. To cancel the user's membership to the group select the appropriate checkbox from the **Current Group Members** list, and click on **[delete selected users]**. Deleting a user does not remove the user from the system, it is only removed from this group