

Date: 03 June 2014

Presenter: Slee Mbhele



Company Overview

- Founded in 1987
- Freezerworks launched in 1992
- 25 employees
- Over 1400 installations world-wide



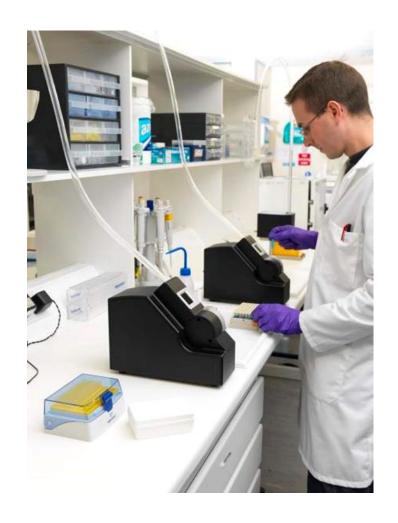
Core Strengths

- Experience in biobanking and sample management
- Commitment to quality
- Configurable software
- Excellent support
- Responsive to customer needs



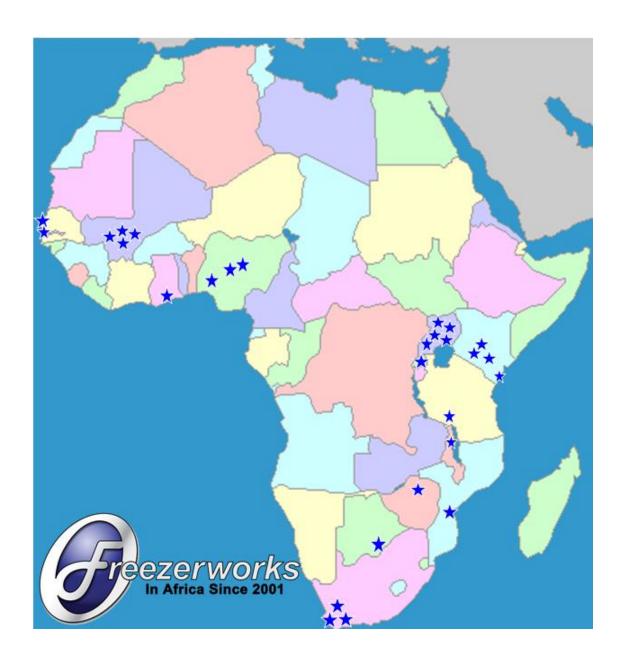
Mission

Dataworks streamlines sample management by providing high quality services and configurable, secure, and relevant software to the scientific community.





More than 25 Established Freezerworks Sites in Africa



Country	Institution	Installation Year
Botswana	Botswana-Baylor Children's Clinical Center	2014
The Gambia	The Medical Research Council (MRC) Laboratories-Tulane	2011
Ghana	Noguchi Memorial Institute for Medical Research/NYU	2005
Kenya	International Center for Reproductive Health (ICRH)	2010
Kenya	The Kenya Medical Research Institute (KEMRI)	2009
Kenya	Kenya Research Group (2 Sites) University of Washington	2011
Kenya	Armed Forces Institute Research Institute of Medical Sciences	2006
Malawi	Karonga Prevention Study (Malawi College of Medicine)	2012
Mali	SEREFO (HIV/TB) Research and Training Center (NIH)	2009
Mali	University of Medicine USTT	2014
Mali	Tulane University Center/ University of Bamako	2011
Mali	NIH/University of Mali	2009
Mozambique	Center for Infectious Disease Research in Beira/ MHRP	2010
Nigeria	University College Hospital	2014
Nigeria	Institute of Human Virology (IHV)	2009
Nigeria	The Walter Reed Program–Nigeria (WRP-N)	2010
Rwanda	International Center for Reproductive Health (ICRH)	2010
Senegal	University Cheikh Anta Diop/Tulane	2011
South Africa	Desmond Tutu HIV Foundation	2011
South Africa	University of Cape Town (2 sites)	2001
Tanzania	Mbeya Research Programme	2006
Uganda	Children's Foundation-Uganda (University of Baylor)	2010
Uganda	MU-UCSF Malaria Research Collaboration	2013
Uganda	Uganda Virus Research Institute	2009
Uganda	University of Washington	2009
Uganda	University of Washington	2009
Uganda	USAMC – AFRIMS HIV Vaccine Center	2006
Zimbabwe	University of Zimbabwe - UCSF Programme	2007

Open Source vs. Configurability?

- Open Source looks inexpensive at first but the costs of writing and maintaining code ends up being costly.
- Operating systems change constantly, adding to the cost of maintaining code in an Open Source.
- open source

 Open sourcing immediately breaks developer validation and causes confusion for who is responsible for correcting bugs – original developer or an in-house programmer?



Advantages of Configurability

- Lab personnel can make changes to screens, field and field requirements, and formats – saving time and money.
- Developer is responsible for validating on operating systems.
- Developer validates the delivered system. Configuration by lab personnel and IT does not break the validation. Configurability has already been validated.





In our DNA? What does that mean?

- Freezerworks was developed for 60 labs at its inception Not one key lab, and then modified for others. **Every lab is a key lab.**
- Configurability is not Customization This empowers the laboratory, because lab personnel make it their program. Users make changes and additions to fields, screens, formats.
- Configurability frees up IT resources, and builds collaboration between IT and the end user.
- Configurability features are dependent on permissions Labs restrict those who can configure, and those who cannot.



Freezerworks is developed according to the FDA General Principles of Software Validation

Fully automated audit trail meets 21 CFR Part 11 requirements.

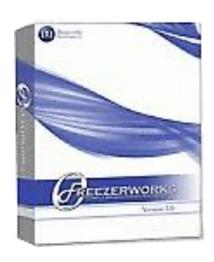
Track all data entry and update operations automatically

- Who made the change?
- What was changed? What was the old value?
- When was the change made?
- Reason for change (optional)



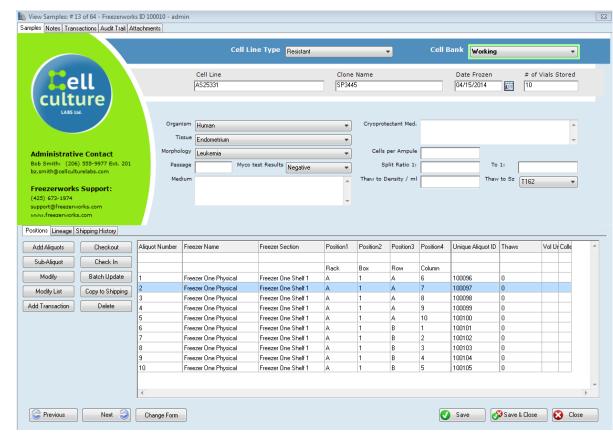
Freezerworks Unlimited

- Our Flagship Product
- Configurable
- Adaptable
- Version 6.0.02 released February 2014
- Enterprise
- Starts at \$10,000





Major Benefits



Sample Management Software

- Configurable for multiple groups
- Batch entry & update features save time and increase productivity
- Biobanking features for shipping aliquots, billing for services
- Testing module turns Freezerworks into a full featured LIMS
- Web enable or integrate with other lab software with web services API

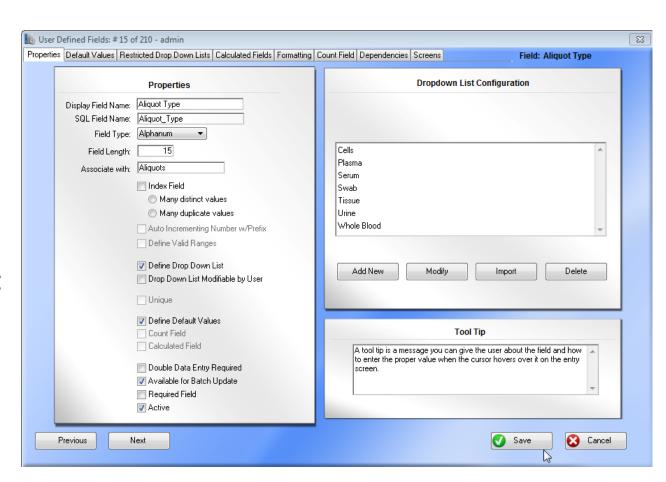


Major Features

Freezerworks Unlimited

- Unlimited user-defined fields
- Create alphanumeric, numeric, date, time, true/false, and text fields
- Customize each field to utilize autoincrementing ranges, default values, calculated values, and sample specific lists
- Build relationships between fields for better data integrity and ease of use

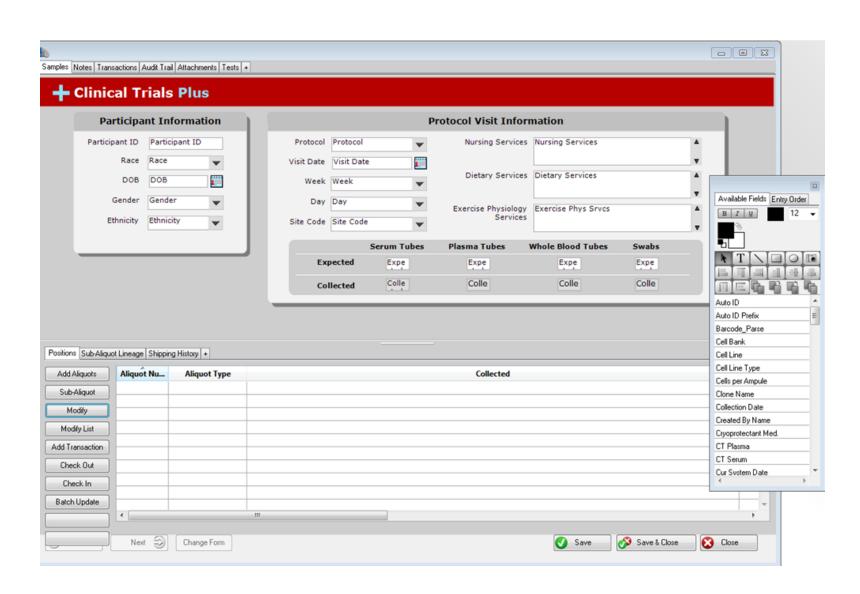




Configure Sample Entry Screens

- Design screens with your institution's unique branding
- Each group can have it's own unique screens and designs





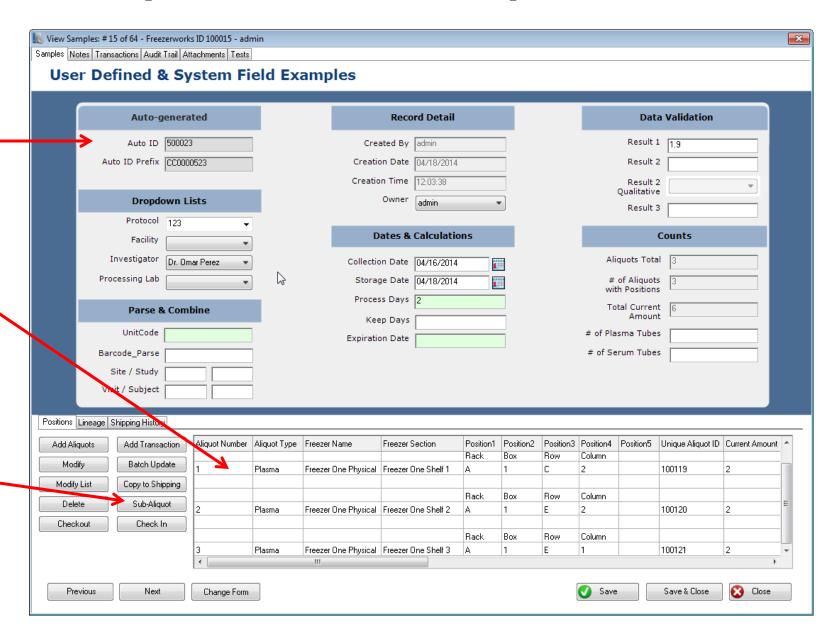
Samples, Aliquots, Sub-Aliquots

Track the lineage

- Sample information above
- Aliquot information below
- Sub-Aliquot for derivatives, maintaining history of each vial

eezerwo.

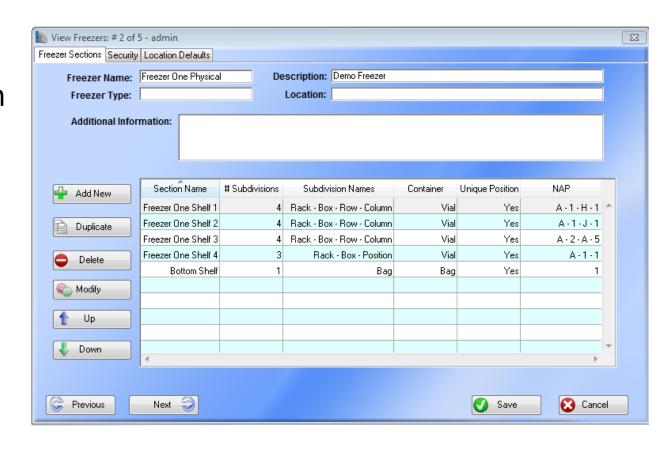
Sample Management Software



Freezer Configuration

Freezers

- Configure Freezerworks to match your freezers, liquid nitrogen tanks, or any other storage unit
- Track available and occupied spaces within your freezers
- Managing freezers saves money on freezer purchase costs

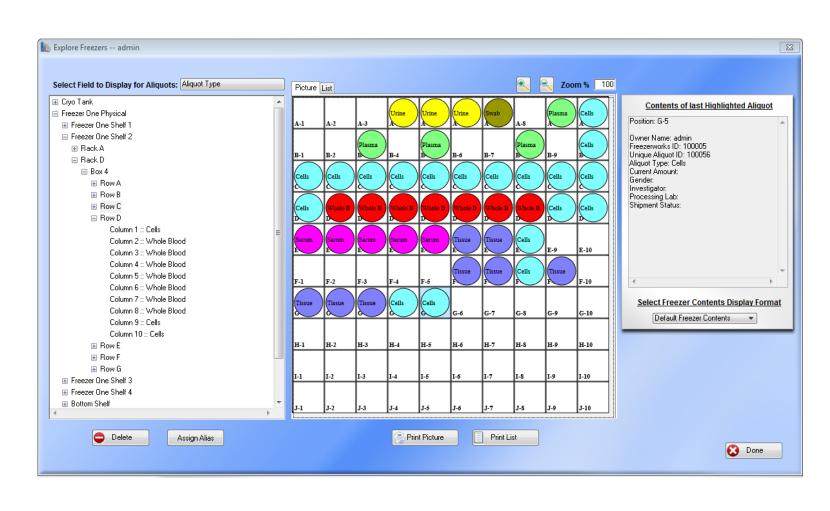




Freezer Configuration

- Freezer sections within physical freezers
- Aliases allowed for labeling boxes, identifying specific racks
- Display and manage aliquots at box view

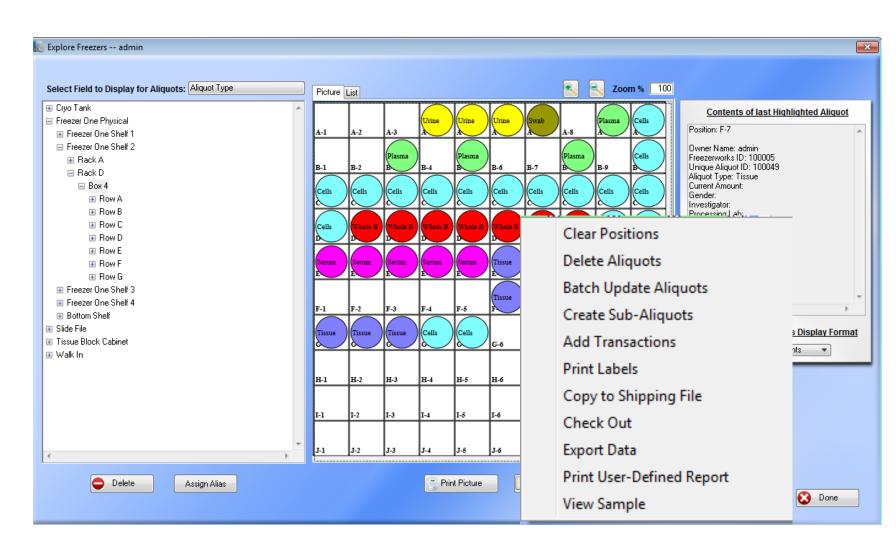




Explore Freezers

- Search for samples by the box
- Right click to get a menu of various actions to perform on selected aliquots





Labeling

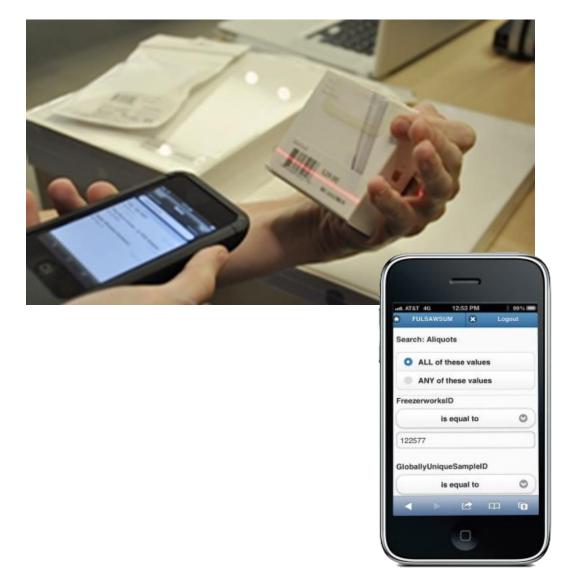
- Configure multiple label formats
- Bar code on any field desired
- Add human readable information to your labels
- Default label formats for different specimen types/studies





Internet Accessibility

- Create web services with Simple Object Access Protocol (SOAP) API
- Freezerworks Remote Operation Search Tool (FROST) for web based searches
- Mobile app for searching and updating – open source

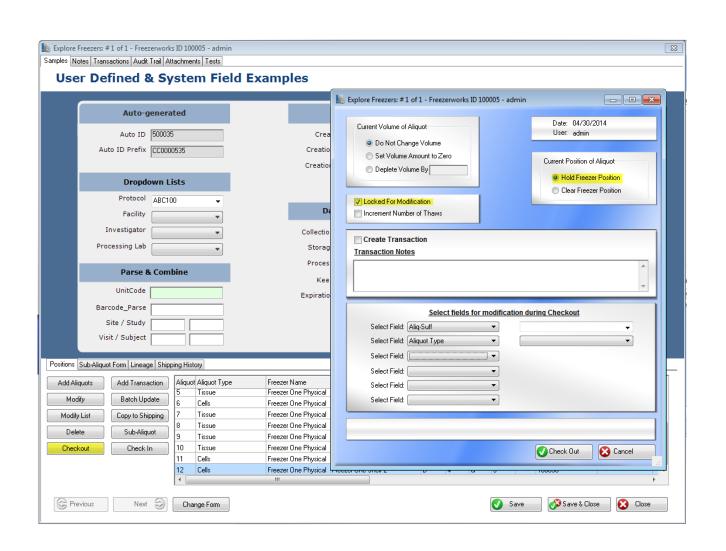




Check Out Features

- Check out inventory and track chain of custody
- Lock the Aliquot for modification
- Assign selected field values
- Hold or clear the freezer position

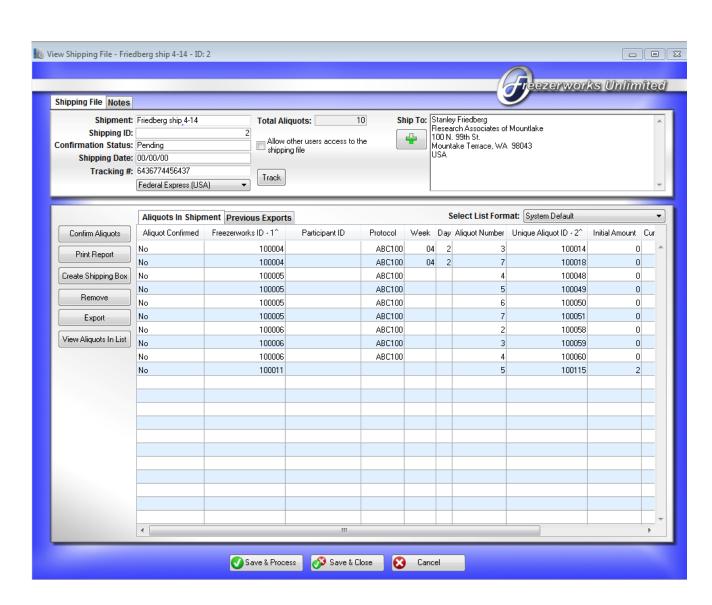




Shipping

- Create and track shipments
- Select Aliquots by any criteria desired
- Generate shipping manifests
- Record all shipment information

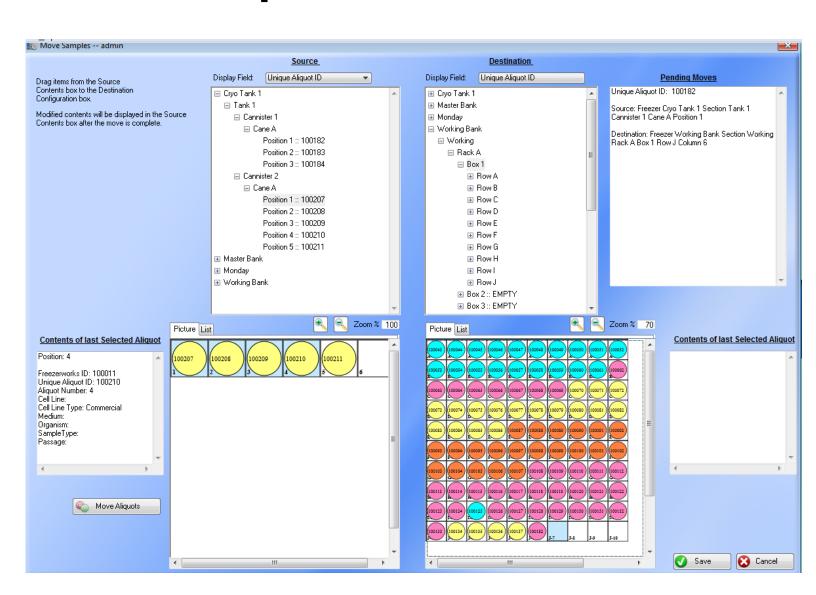




Move Samples

- Save freezer space
- Consolidate freezers and save storage costs with Move Samples
- Powerful and easy to us
- Drag and drop, click and move

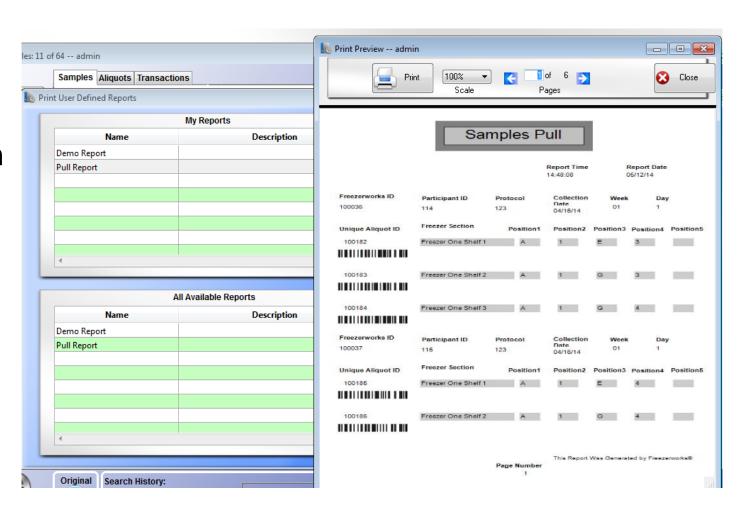




Reports

- User friendly report writer
- Link to Crystal Reports with Open Database Connectivity (ODBC)
- Can link Excel via ODBC
- Include bar codes

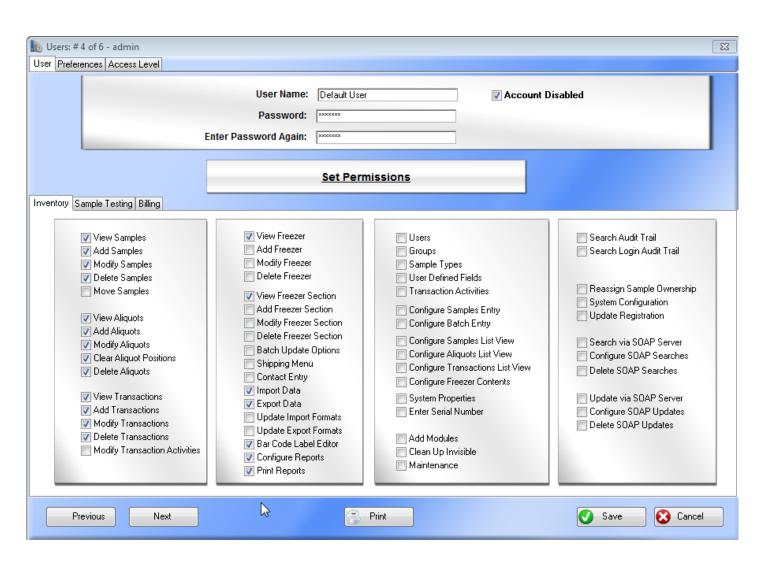




System Security

- Permissions assigned at the user level
- Access to Freezers and Samples assigned at the Group level
- User authentication with LDAP
- Entry forms and List Views assigned to Groups

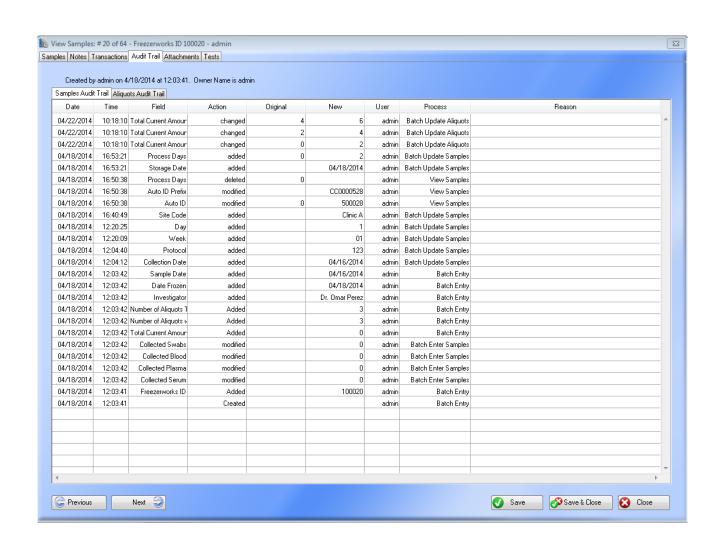




Audit Trail

- Automatic system generated
- All changes recorded and entries protected
- Tracks the entire data history of every sample and vial automatically
- Searchable

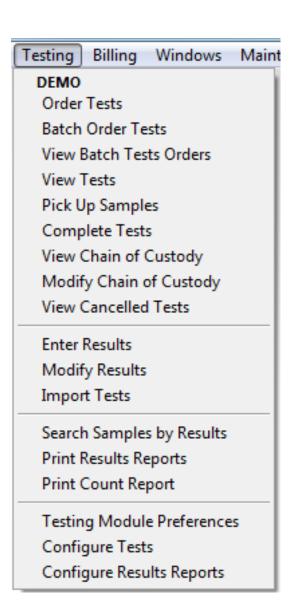




Testing Module

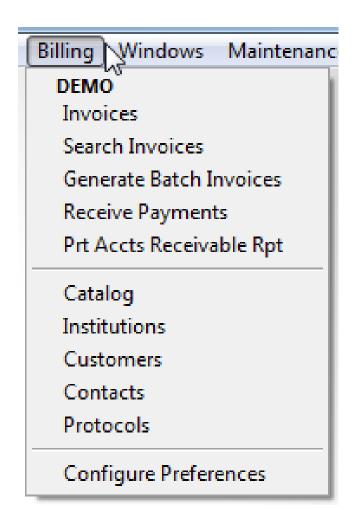
- Turn Freezerworks into a highly configurable LIMS
- Track tests and testing status
- Track chain of custody
- Print results reports
- Track productivity with report metrics





Billing Module

- Invoice for testing services, biorepository services or both
- Recover the costs associated with running a first class biobank and laboratory facility





Customer Care Program

Each Freezerworks software purchase includes a One-Year Customer Care Program with the following benefits:

- Free scheduled maintenance releases and software upgrades
- Technical support by telephone during regular business hours
- Access to emergency 24 hour support
- Technical support by email (response within 1 business day)
- Remote technical support via Online Meeting
- Full access to recorded training sessions and materials

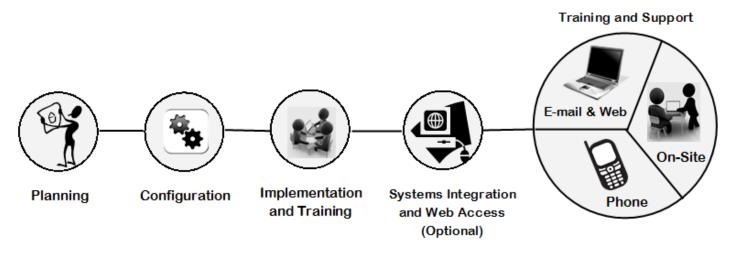


A Freezerworks implementation analyst will be assigned to assist you with the configuration of Freezerworks to match your workflow.



Implementation

- Implementation Assistance
- Each implementation is tailored to meet your needs
- Customer Care support package





Questions



Contact Information

Website: www.freezerworks.com

Email: sales@freezerworks.com

