

GenConnect 4.0™

A complete software solution for biosample management.

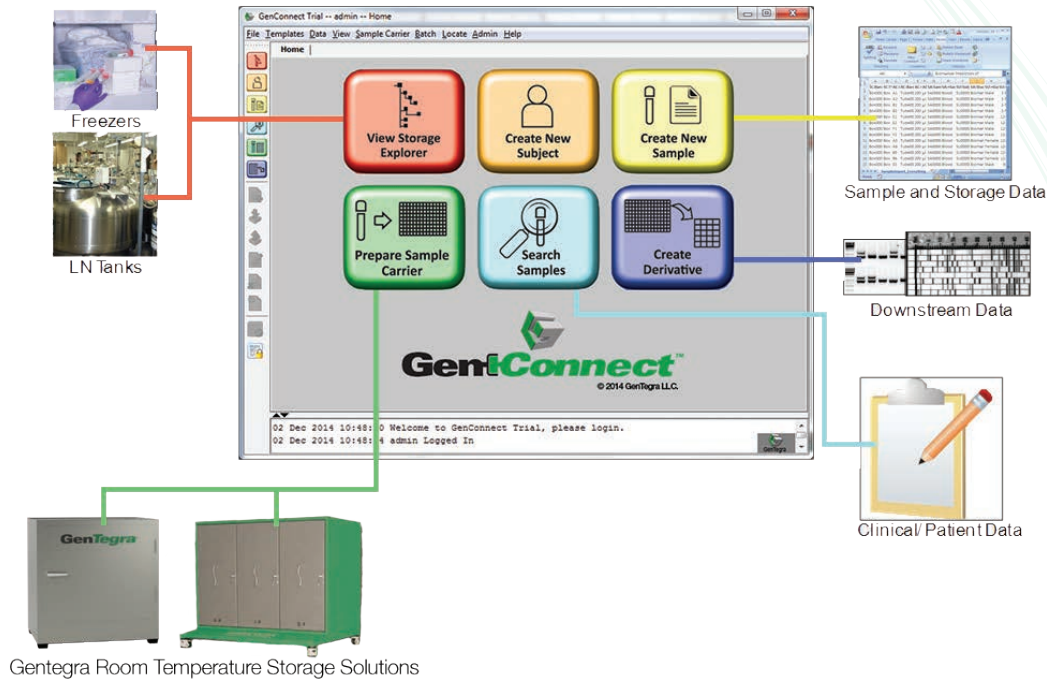


Figure 1: All traditional types of storage containers, can be modeled into GenConnect. All data associated with Studies, Subjects and Samples can be batch imported into GenConnect.

GenConnect Software

GenConnect can accommodate the full spectrum of storage units used in biobanking, from traditional freezers and liquid nitrogen tanks, to the space saving, energy-efficient room-temperature storage options provided by GenTegra. GenConnect quickly creates and maintains a real-time inventory of all of your biosamples and tracks exactly where each sample 'lives' via a virtual central biorepository.

Quick Setup

- Be up and running with your virtual biorepository in minutes with Excel-based batch import of storage unit, layout and existing sample data.

Standardized

- Full and complete audit trail for all samples and aliquots via transaction log files
- Enforced chain of custody via lock/unlock of plates by permitted users
- Three layers of security
 - usernames/passwords
 - user roles matching lab structures (write access)
 - Study-based permissions (read access)

Centralized

- Client/Server deployment enables centralized administration
- Four User Roles and project-based permissions for all users enable controlled access

Flexible

- Full and complete customization of study/subject/sample data fields

Additional GenConnect Strengths

- Connection to third-party software/databases possible via Flat-file exchange

Scalable

- Can be deployed as a stand-alone installation, but can be scaled up to a client/server installation and multiple users
- Standard PostgreSQL database
- Batch-import functionality of samples and container information

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High Usability

- Import samples, and place samples into storage locations, with a single operation
- Intuitive and User-friendly “Search” and “Locate” interfaces
- Quickly find samples down to the aliquot level

- Share customized reports on samples, aliquots or plates with colleagues
- Create derivative plates by combining or distributing aliquots graphically or with formatted flat-file

Figure 2: Study, Subject and Sample data fields are completely customizable in GenConnect. This example shows one of many ways of incorporating standardized forms into the “Subject” template in GenConnect.

Subject ID can be the “de-identified” tracking mechanism to link with confidential patient data in another database

SubjectAnnotation + Clinical Data

Req	Field Name	Value
	ENROL:DEMO:Patient Gender	Female
	ENROL:DEMO:Patient Birth Date	04 Feb 2009
	ENROL:DEMO:Patient Age Value	not available
	ENROL:DEMO:Patient Race Category	American Indian or Alaska Nat
	ENROL:DEMO:Patient Initials Name	
	ENROL:GEOG:Patient Subgroup Assignment	
	ENROL:GEOG:Registering Group	
	ENROL:VITAL_SGNS:Note Date	
	ENROL:VITAL_SGNS:Research Comments Text	
	HEMAT:HEMOGLOBIN:Lab Test Result Character Value	
	HEMAT:HEMOGLOBIN:Lab Unit of Measure Name	Million/microl

Easy IMPORT & EXPORT

- Powerful search function and Export allow easy generation of selected data output
- Wizard allows easy import of data from 2D barcode scanners
- Data can be directed to selected Study during import or automatically

SCANNER FILE FROM Nova20141010 114608 009 No ID no 1D rack number

	A	B	C	D	E
1	GC File Type = SampleImport_4.0.0				
2	SA:StudyId	AC:Location	SA:SampleId	SC:Barcode	
3	Demo study	A01	8012779146	No ID	
4	Demo study	B01	8012779664	No ID	
5	Demo study	C01	8012779505	No ID	
6	Demo study	D01	8012779914	No ID	
7	Demo study	E01	8012779136	No ID	
8	Demo study	F01	8012779809	No ID	
9	Demo study	G01	8012779388	No ID	
10	Demo study	H01	8012779650	No ID	
11	Demo study	A02	8012779912	No ID	
12	Demo study	B02	8012779702	No ID	
13	Demo study	C02	8012779469	No ID	
14	Demo study	D02	8012779817	No ID	
15	Demo study	E02	8012779323	No ID	

Figure 3: Scanner data file shown in MS Excel, formatted ready for import into GenConnect.

Product Specifications

Item	Description
Operating System:	Windows 7 and 8, requires .NET 4.5 or newer

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