

# BLOOD BANK INFORMATION SYSTEMS

Part 1 of 4

## Blood Bank Computer Systems (BBCS)

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See [captodayonline.com/productguides](http://captodayonline.com/productguides) for an interactive version of guide

Name of blood bank system	ABO Suite <sup>†</sup>	Cerner Millennium PathNet Blood Bank Transfusion	SafeTrace Tx <sup>†</sup>
Configuration of blood bank system	standalone—designed to interface with any LIS	standalone—designed to interface with any LIS	standalone—designed to interface with any LIS or EHR
•Percentage of blood bank system clients that use another company's LIS	—	<1%	—
First-ever blood bank system installation (any brand or model)	1987	1986	1999
Most recent blood bank system installation*	June 2016	June 2017	June 2017
Last major release or update of featured blood bank system	June 2016 (version 2.0.0)	January 2015 (version 2015.01)	March 2016 (version 3.12.0)
Total number of contracts for sites operating blood bank system	4	308 domains (not tracked by contract)	—
No. of sales of blood bank system between June 2016–June 2017	9	—	—
No. of installations of blood bank system between June 2016–June 2017	2	—	—
No. of sites operating blood bank system	4 (not including mobile buses)	307 <sup>†</sup>	—
•Sites that are U.S. hospitals with donor and transfusion services	0	0	—
•Sites that are U.S. hospitals with donor services only	0	0	—
•Sites that are U.S. hospitals with transfusion services only	0	265 <sup>†</sup>	—
•Sites that are U.S. regional blood centers with donor services only	4	0	—
•Sites that are U.S. regional blood centers with donor and transfusion services	0	0	—
•Sites that are foreign hospitals and regional blood centers	0	42 <sup>†</sup> (Australia, Brazil, Canada, Cayman Islands, Egypt, Malaysia, Qatar, Saudi Arabia, Singapore, UAE, UK)	—
•Other sites	0	0	—
Market blood bank system outside the United States	no	yes (Australia, Canada, Latin America, Middle East, UK)	yes (Canada, Ethiopia)
Human languages (other than English) supported by blood bank system	—	Brazilian Portuguese, German, French, Spanish	—
No. of employees in entire company	26	26,000+	3,107
No. of employees dedicated solely to blood bank systems development, installation, support	19	100+	—
Versions of product in field covered by FDA 510(k) clearance	ABO Express 2.0.0, ABO Wheels 1.1.0, ABO QuickPass 1.1.0	2012.01, 2015.01	SafeTrace Tx 3.12.0, SafeTrace Tx 3.5.0
Operating system(s)	IBM iSeries, Windows	HP-UX, AIX, VMS	Windows-based servers, Intel based, determined by Oracle
Databases and tools	IBM DB2, TCP/IPX	Oracle	Oracle, Crystal Reports
Features/modules			
•Biometric ID of donors/Biometric ID of patients	available via a third party/not available via this software	not available via this software/not available via this software	not available via this software/not available via this software
•Full support of ISBT 128 unit labeling	installed	installed	installed
•Barcode reading of donor and unit information	installed	installed	installed
•Unit inventory in donor center/in transfusion service	installed/installed	installed/installed	available via a companion product/installed
•Autologous and directed unit tracking	installed	installed	installed
•Tracking of units delivered to OR or ED for remote inventory storage	installed	installed	installed
•Direct entry of test results/Crossmatch results	installed/installed	installed/installed	installed/installed
•Neonatal compatibility testing	installed	installed	installed
•Electronic crossmatch decision-making	installed	installed	installed
•Antigen typing	installed	installed	installed
•Integrated bedside check for transfusion using positive patient ID	not available via this software	installed	installed
•Track all steps in production of product	installed	installed	installed
•Print donor unit labels—barcoded	installed	installed	available via a companion product
•Unique ID labeling of split products	installed	installed	installed
•Interfaces with blood irradiator or centrifuges	under development	not available via this software	installed
•Centralized transfusion service capability	installed	installed	installed
•Donor recruitment and management	installed	not available via this software	available via a companion product
•Ability to manage and execute donor questionnaire	installed	not available via this software	available via a companion product
•Scheduling of mobile donor events	available via a companion product	not available via this software	available via a companion product
•Laptop-based mobile donor registration module	installed	not available via this software	available via a companion product
•Source or recovered plasma management	installed	not available via this software	available via a companion product
•Accounts receivable	installed	installed	not available via this software
•Management reports	installed	installed	installed
•Ad hoc report writer	installed	installed	not available via this software
•Ability to determine query language for accessing data	installed	installed	not available via this software
•Quality control management/Collection management	installed/installed	installed/installed	installed/available via a companion product
•Cord blood processing	installed	not available via this software	not available via this software
•Biologics management	installed	not available via this software	not available via this software
•Business analytics	installed	installed	not available via this software
•Blood bank utilization	installed	installed	installed
Interfaces to automated donor infectious disease testing instruments	yes (to instruments from Abbott, Immucor, Luminex, Olympus, Roche, Sysmex, Tecan, others)	—	—
Interfaces to automated ABO/Rh/antibody screening instruments	yes (to instruments from Abbott, Immucor, Luminex, Olympus, Roche, Sysmex, Tecan, others)	yes (to instruments from Bio-Rad, Ortho, Immucor, Grifols, others)	yes (to instruments from Immucor, Ortho, Grifols, Beckman Coulter, Abbott)
Electronic interface to bedside patient ID systems	no	yes (to Cerner's system)	yes (to Haemonetics' system and to systems from Epic, CareFusion, McKesson, Siemens)
Recommended tools to help clients validate system	IQ/OQ/PQ validation documents and system-level tests from BBCS; IQ validation tools from Optimize Technology Group	certification guidelines, instructions and online help files for end users, other services—all from Cerner	validation guidelines, templates, and test plan for critical control checks from Haemonetics; validation services through Haemonetics' PeopleMed subsidiary
System provides indexed field in each test definition for LOINC code	no	yes	yes
Provide LOINC dictionary for each new installation	no	yes	yes
User group/Source code	yes (meets via webinar, conference call, in person)/escrow	yes (meets in person)/no	yes (meets via webinar, conference call, in person)/no
Methods by which users can tailor blood bank system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, BBCS configuration options	ad hoc query tools, user-defined interfaces, dictionary settings, client development toolkit	ad hoc query tools, user-defined interfaces, dictionary settings, table settings
Provide list of client sites to potential customers on request	yes (complete list with no restrictions regarding its use)	yes (partial list of comparable sites)	yes (partial list of comparable sites)
Clients restricted from sharing experience with company or software	no	no	no
Standard software maintenance fee covers periodic updates to software	yes	yes	yes
Functionality provided via ASP or cloud-based data center	available as a local server or an ASP or cloud-based product (client's option)	available as a local server or an ASP or cloud-based product (client's option)	available as a local server or an ASP or cloud-based product (client's option)
Total cost for smallest standalone blood bank system installation**	—	—	—
Total cost for largest standalone blood bank system installation**	—	—	—
Total incremental cost for smallest blood bank system configuration install**	—	—	—
Total incremental cost for largest blood bank system configuration install**	—	—	—
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> <li>completely paperless; mobile friendly, with same functionality online and offline</li> <li>customizable; allows for third-party interfaces</li> <li>seamless integration of all products within the ABO Suite</li> </ul>	<ul style="list-style-type: none"> <li>blood management guidelines embedded in orders workflow</li> <li>expert rules ensure all necessary specimens and testing are requested</li> <li>interfaces with devices and tracking systems</li> </ul>	<ul style="list-style-type: none"> <li>multi-layered, easy-to-enforce safety checks and patented patient/product compatibility testing algorithms</li> <li>patents for Patient-At-A-Glance Bar for quick and easy access to complete patient history and test information and multi-hospital, multi-site, and central transfusion service functionality</li> <li>full interface with BloodTrack software solutions, enabling safe and secure point-of-care blood management</li> </ul>

\*based on July 2017 survey deadline

\*\*pricing for existing sites; total cost includes hardware, software, installation, and training

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

<sup>†</sup>formerly Blood Bank Control System<sup>†</sup>tracked based on domains; some multi-tenant domains<sup>†</sup>also marketed by McKesson as McKesson Blood Bank

# BLOOD BANK INFORMATION SYSTEMS

Part 2 of 4

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Name of blood bank system	e-Delphyn Donors	HCLL	LifeTrak Donor, Lab & Distribution
Configuration of blood bank system	standalone—designed to interface with any LIS or EHR	standalone—designed to interface with any LIS or EHR	standalone—designed to interface with select EHRs
•Percentage of blood bank system clients that use another company's LIS	—	—	—
First-ever blood bank system installation (any brand or model)	1995	1980	1980
Most recent blood bank system installation*	June 2017	June 2017	May 2017
Last major release or update of featured blood bank system	June 2017 (version 10.0.0.0)	March 2017 (version 2016 SP2)	December 2015 (version 2015)
Total number of contracts for sites operating blood bank system	70	307	19
No. of sales of blood bank system between June 2016–June 2017	7	18	4
No. of installations of blood bank system between June 2016–June 2017	7	34	3
No. of sites operating blood bank system	312	494	108
•Sites that are U.S. hospitals with donor and transfusion services	0	22	19
•Sites that are U.S. hospitals with donor services only	0	6	0
•Sites that are U.S. hospitals with transfusion services only	0	439	0
•Sites that are U.S. regional blood centers with donor services only	1	3	39
•Sites that are U.S. regional blood centers with donor and transfusion services	0	8	43
•Sites that are foreign hospitals and regional blood centers	310 (Europe, Africa, Middle East, Latin America, Asia)	16 (Ireland, Singapore, Canada, England, Germany, Guam, Japan, Italy, South Korea, Cuba, Spain, Turkey)	4 (Lebanon, Germany, Japan, Guam)
•Other sites	1 (research/biological product supplier)	0	3 (donor testing services)
Market blood bank system outside the United States	yes (worldwide)	yes (South America, Middle East, UK, Canada, Singapore)	yes (English speaking markets)
Human languages (other than English) supported by blood bank system	21 languages	—	—
No. of employees in entire company	60	523	523
No. of employees dedicated solely to blood bank systems development, installation, support	50	56	56
Versions of product in field covered by FDA 510(k) clearance	e-Delphyn Donors 7.1.0.0	4.2, 4.6, 4.7, HCLL 2012, HCLL 2013, HCLL 2014, HCLL 2014 R2, HCLL 2015 SP1, HCLL 2016 SP2	3.3, 4.6, 2012 R3, 2013 R2, 2015, 2015 R2
Operating system(s)	Unix, Linux, Microsoft Windows	Windows server 2012 R2, 2012, 2008 R2, 2008	Linux
Databases and tools	Microsoft SQL server, Oracle	Microsoft SQL server 2014, 2012, 2008 R2, 2008	Oracle
Features/modules			
•Biometric ID of donors/Biometric ID of patients	installed/available but not yet installed	not available via this software/not available via this software	not available via this software/not available via this software
•Full support of ISBT 128 unit labeling	installed	installed	installed
•Barcode reading of donor and unit information	installed	installed	installed
•Unit inventory in donor center/In transfusion service	installed/available but not yet installed	available via a companion product/installed	installed/available via a companion product
•Autologous and directed unit tracking	installed	installed	installed
•Tracking of units delivered to OR or ED for remote inventory storage	installed	installed	available via a companion product
•Direct entry of test results/Crossmatch results	installed/—	installed/installed	installed/available via a companion product
•Neonatal compatibility testing	—	installed	available via a companion product
•Electronic crossmatch decision-making	—	installed	available via a companion product
•Antigen typing	installed	installed	installed
•Integrated bedside check for transfusion using positive patient ID	—	available via a third party	available via a companion product
•Track all steps in production of product	installed	installed	installed
•Print donor unit labels—barcoded	installed	installed	installed
•Unique ID labeling of split products	installed	installed	installed
•Interfaces with blood irradiator or centrifuges	installed	not available via this software	not available via this software
•Centralized transfusion service capability	—	installed	available via a companion product
•Donor recruitment and management	installed	available via a companion product	installed
•Ability to manage and execute donor questionnaire	installed	available via a companion product	installed
•Scheduling of mobile donor events	installed	available via a companion product	installed
•Laptop-based mobile donor registration module	installed	available via a companion product	installed
•Source or recovered plasma management	available but not yet installed	available via a companion product	installed
•Accounts receivable	—	available via a companion product	not available via this software
•Management reports	installed	installed	installed
•Ad hoc report writer	installed	installed	available via a third party
•Ability to determine query language for accessing data	not available via this software	not available via this software	available via a third party
•Quality control management/Collection management	available but not yet installed/installed	installed/available via a companion product	installed/installed
•Cord blood processing	available but not yet installed	available via a companion product	available via a companion product
•Biologics management	available but not yet installed	available via a companion product	available via a companion product
•Business analytics	—	available via a companion product	available via a companion product
•Blood bank utilization	—	installed	available via a companion product
Interfaces to automated donor infectious disease testing instruments	yes (to instruments from Abbott, Roche)	—	yes (to instruments from Abbott, Ortho, Roche, Bio-Rad)
Interfaces to automated ABO/Rh/antibody screening instruments	yes (to instruments from Bio-Rad, Immucor)	yes (to instruments from Immucor, Ortho, Bio-Rad, Grifols)	yes (to instruments from Olympus, Immucor)
Electronic interface to bedside patient ID systems	—	yes (to systems from Epic, CareFusion)	no
Recommended tools to help clients validate system	test scripts from Hemasoft	standard validation scripts and validation services from Mediware	validation services from Mediware, BC Solutions
System provides indexed field in each test definition for LOINC code	yes	no	—
Provide LOINC dictionary for each new installation	yes	no	—
User group/Source code	yes (meets in person)/escrow	yes (meets via webinar, conference call, in person)/escrow	yes (meets via webinar, conference call, in person)/escrow
Methods by which users can tailor blood bank system in their own setting	ad hoc query tools, dictionary settings	ad hoc query tools, configurator module for customizing test screens, truth tables, orders, billing, forms, screen displays	ad hoc query tools, user-defined interfaces, dictionary settings, table configurations, others
Provide list of client sites to potential customers on request	yes (complete list but prospective client must sign a nondisclosure agreement)	yes (partial list of comparable sites)	yes (per agreement with existing customers)
Clients restricted from sharing experience with company or software	no	no	no
Standard software maintenance fee covers periodic updates to software	yes	yes	yes
Functionality provided via ASP or cloud-based data center	available as a local server or an ASP or cloud-based product (client's option); pricing based on a combination of number of users and activity volume	available as a local server or an ASP or cloud-based product (client's option)	available as a local server or an ASP or cloud-based product (client's option); pricing based on customer size and needs
Total cost for smallest standalone blood bank system installation**	—	—	—
Total cost for largest standalone blood bank system installation**	—	—	—
Total incremental cost for smallest blood bank system configuration install**	—	—	—
Total incremental cost for largest blood bank system configuration install**	—	—	—
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> <li>light-weight, Web-based application using the latest Web technologies</li> <li>lower cost of ownership due to the technology used</li> <li>entirely user configurable</li> </ul>	<ul style="list-style-type: none"> <li>offer HCLL Web browser-based transfusion system; HCLL can be configured for institutions of any size</li> <li>more than 60 safety checks throughout system, with 15 at time of issue; multiple users can access same patient simultaneously</li> <li>Sequel System Reporting Services provides means for a facility to create reports as needed, schedule report times, and distribute via email and/or specific printers</li> </ul>	<ul style="list-style-type: none"> <li>robust, Web enabled, and scalable; supports small to large multi-site facilities; provides process-control system for blood centers and high-volume donor testing services</li> <li>unique pathogen-reduction control processes and API interface for illumination data; multiple open APIs</li> <li>supported by a dedicated blood centers technology staff</li> </ul>

\*based on July 2017 survey deadline

\*\*pricing for existing sites; total cost includes hardware, software, installation, and training

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

# BLOOD BANK INFORMATION SYSTEMS

Part 3 of 4

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Name of blood bank system	AutoFusion	SoftBank	SoftDonor
Configuration of blood bank system	available as a standalone system designed to interface with any LIS and as a dedicated module for NeTLIMS' LIS	standalone—designed to interface with any LIS	standalone—designed to interface with any LIS
•Percentage of blood bank system clients that use another company's LIS	0	—	—
First-ever blood bank system installation (any brand or model)	2001	1992	1992
Most recent blood bank system installation*	May 2017	April 2017	January 2017
Last major release or update of featured blood bank system	May 2015 (version 3.4)	April 2017 (version 25.5)	January 2009 (version 4.5)
Total number of contracts for sites operating blood bank system	20 licenses (not tracked by contract)	219	21
No. of sales of blood bank system between June 2016–June 2017	1	9	1
No. of installations of blood bank system between June 2016–June 2017	1	32	2
No. of sites operating blood bank system	19	759	76
•Sites that are U.S. hospitals with donor and transfusion services	0	62	63
•Sites that are U.S. hospitals with donor services only	0	0	1
•Sites that are U.S. hospitals with transfusion services only	0	625	0
•Sites that are U.S. regional blood centers with donor services only	0	0	0
•Sites that are U.S. regional blood centers with donor and transfusion services	0	0	0
•Sites that are foreign hospitals and regional blood centers	19 (Israel)	72 (Canada)	12 (Canada)
•Other sites	0	0	0
Market blood bank system outside the United States	yes (Israel)	yes (worldwide)	yes (worldwide)
Human languages (other than English) supported by blood bank system	Hebrew	French	French
No. of employees in entire company	140	2,000+	2,000+
No. of employees dedicated solely to blood bank systems development, installation, support	15	125	125
Versions of product in field covered by FDA 510(k) clearance	3.02.03	21.x, 23.x, 25.x	4.4, 4.5
Operating system(s)	Windows	server: IBM AIX (Unix); workstation: Windows	server: IBM AIX (Unix); workstation: Windows
Databases and tools	Microsoft SQL, Oracle, Caché—any RDBMS	Oracle	Oracle
Features/modules			
•Biometric ID of donors/Biometric ID of patients	not available via this software/not available via this software	available via a third party/available via a third party	available via a third party/available via a third party
•Full support of ISBT 128 unit labeling	installed	installed	installed
•Barcode reading of donor and unit information	installed	installed	installed
•Unit inventory in donor center/In transfusion service	installed/installed	installed/installed	installed/available via a companion product
•Autologous and directed unit tracking	installed	installed	installed
•Tracking of units delivered to OR or ED for remote inventory storage	installed	installed	available via a companion product
•Direct entry of test results/Crossmatch results	installed/installed	installed/installed	installed/available via a companion product
•Neonatal compatibility testing	installed	installed	available via a companion product
•Electronic crossmatch decision-making	installed	installed	available via a companion product
•Antigen typing	installed	installed	installed
•Integrated bedside check for transfusion using positive patient ID	installed	installed	available via a companion product
•Track all steps in production of product	installed	installed	installed
•Print donor unit labels—barcoded	installed	installed	installed
•Unique ID labeling of split products	installed	installed	available via a companion product
•Interfaces with blood irradiator or centrifuges	not available via this software	installed	available via a companion product
•Centralized transfusion service capability	not available via this software	installed	available via a companion product
•Donor recruitment and management	installed	available via a companion product	installed
•Ability to manage and execute donor questionnaire	installed	available via a companion product	installed
•Scheduling of mobile donor events	not available via this software	available via a companion product	installed
•Laptop-based mobile donor registration module	not available via this software	available via a companion product	installed
•Source or recovered plasma management	installed	available via a companion product	installed
•Accounts receivable	not available via this software	installed	available via a companion product
•Management reports	installed	installed	installed
•Ad hoc report writer	installed	installed	installed
•Ability to determine query language for accessing data	installed	installed	installed
•Quality control management/Collection management	installed/installed	installed/installed	installed/installed
•Cord blood processing	installed	installed	installed
•Biologics management	installed	installed	installed
•Business analytics	installed	installed	available via a companion product
•Blood bank utilization	installed	installed	installed
Interfaces to automated donor infectious disease testing instruments	—	yes (to instruments from Abbott, Immucor)	yes (to instruments from Abbott, Immucor)
Interfaces to automated ABO/Rh/antibody screening instruments	yes (to instruments from Ortho, Bio-Rad)	yes (to instruments from Immucor, Ortho, Bio-Rad, Grifols)	yes (to instruments from Immucor, Ortho, Bio-Rad, Grifols)
Electronic interface to bedside patient ID systems	yes (to NeTLIMS' system)	yes (to SCC's system and to systems from CareFusion, Epic)	yes (to SCC's system and to systems from CareFusion, Epic)
Recommended tools to help clients validate system	detailed audit trail of performed actions, ad hoc reporting, automated scheduled reports, automated alerts and user alert follow-up, control screens—all from NeTLIMS	critical control points, test case instructions, release notes with links to test cases—all from SCC; screen capture validation tool from TechSmith Camtasia	critical control points, test case instructions, release notes with links to test cases—all from SCC; screen capture validation tool from TechSmith Camtasia
System provides indexed field in each test definition for LOINC code	yes	no	no
Provide LOINC dictionary for each new installation	no	no	no
User group/Source code	no/escrow	yes (meets in person and via webinar)/escrow	yes (meets in person and via webinar)/escrow
Methods by which users can tailor blood bank system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, configuration settings	ad hoc query tools, dictionary settings	ad hoc query tools, dictionary settings
Provide list of client sites to potential customers on request	yes (complete list but prospective client must sign a nondisclosure agreement)	yes (partial list of comparable sites)	yes (partial list of comparable sites)
Clients restricted from sharing experience with company or software	no	no	no
Standard software maintenance fee covers periodic updates to software	yes	yes	yes
Functionality provided via ASP or cloud-based data center	available as a local server or an ASP or cloud-based product (client's option)	available as a local server or an ASP or cloud-based product (client's option)	available as a local server or an ASP or cloud-based product (client's option)
Total cost for smallest standalone blood bank system installation**	\$175,000	—	—
Total cost for largest standalone blood bank system installation**	\$575,000	—	—
Total incremental cost for smallest blood bank system configuration install**	\$125,000	—	—
Total incremental cost for largest blood bank system configuration install**	\$750,000	—	—
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> <li>• user-level configuration, setup, and user logic engine integration provide unparalleled customizability</li> <li>• graphical, user-friendly, simple interface</li> <li>• higher level of automation and decision support increase productivity and safety</li> </ul>	<ul style="list-style-type: none"> <li>• supports user-defined workflows and provides flexibility, scalability, and multi-site capability; in use at facilities ranging from large multi-site health systems/regions to smaller individual facilities</li> <li>• provides various safety features, including warnings for inconsistencies, errors, and omissions</li> <li>• displays workflow logically in an easy and intuitive manner; robust reporting capability via SCC SoftReports and Web-based business intelligence dashboards via SCC SoftBI</li> </ul>	<ul style="list-style-type: none"> <li>• user-defined test algorithms can automatically order required, repeat, and confirmatory tests, assign deferrals, generate notification letters, update unit status, and set a biohazard flag</li> <li>• detailed donor database search capability increases effectiveness of targeted recruiting efforts</li> <li>• all significant steps in donation process documented, including history review, questionnaire, physical exam, and phlebotomy, with capture of date, time, and tech ID</li> </ul>

\*based on July 2017 survey deadline

\*\*pricing for existing sites; total cost includes hardware, software, installation, and training

Note: a dash in lieu of an answer means company did not answer question or question is not applicable



## BLOOD BANK INFORMATION SYSTEMS

Part 4 of 4

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See [captodayonline.com/productguides](http://captodayonline.com/productguides) for an interactive version of guide

Name of blood bank system	Sunquest Laboratory Blood Bank Module
Configuration of blood bank system	available as a standalone system designed to interface with any LIS and as a dedicated module for Sunquest's LIS
•Percentage of blood bank system clients that use another company's LIS	—
First-ever blood bank system installation (any brand or model)	1985
Most recent blood bank system installation*	May 2017
Last major release or update of featured blood bank system	February 2017 (version 8.1)
Total number of contracts for sites operating blood bank system	400+
No. of sales of blood bank system between June 2016–June 2017	—
No. of installations of blood bank system between June 2016–June 2017	—
No. of sites operating blood bank system	400+
•Sites that are U.S. hospitals with donor and transfusion services	400+
•Sites that are U.S. hospitals with donor services only	0
•Sites that are U.S. hospitals with transfusion services only	0
•Sites that are U.S. regional blood centers with donor services only	0
•Sites that are U.S. regional blood centers with donor and transfusion services	0
•Sites that are foreign hospitals and regional blood centers	10+ (Bermuda, Canada, Ireland, UK, UAE)
•Other sites	0
Market blood bank system outside the United States	yes (UK, Canada, Ireland, Middle East, Asia)
Human languages (other than English) supported by blood bank system	—
No. of employees in entire company	—
No. of employees dedicated solely to blood bank systems development, installation, support	—
Versions of product in field covered by FDA 510(k) clearance	6.4, 7.0, 7.1, 7.2, 7.3, 8.0, 8.1
Operating system(s)	IBM AIX, Red Hat Linux, Microsoft Windows server
Databases and tools	InterSystems Caché
Features/modules	
•Biometric ID of donors/Biometric ID of patients	not available via this software/not available via this software
•Full support of ISBT 128 unit labeling	installed
•Barcode reading of donor and unit information	installed
•Unit inventory in donor center/In transfusion service	installed/installed
•Autologous and directed unit tracking	installed
•Tracking of units delivered to OR or ED for remote inventory storage	installed
•Direct entry of test results/Crossmatch results	installed/installed
•Neonatal compatibility testing	installed
•Electronic crossmatch decision-making	installed
•Antigen typing	installed
•Integrated bedside check for transfusion using positive patient ID	installed
•Track all steps in production of product	installed
•Print donor unit labels—barcoded	installed
•Unique ID labeling of split products	installed
•Interfaces with blood irradiator or centrifuges	installed
•Centralized transfusion service capability	installed
•Donor recruitment and management	installed
•Ability to manage and execute donor questionnaire	not available via this software
•Scheduling of mobile donor events	not available via this software
•Laptop-based mobile donor registration module	not available via this software
•Source or recovered plasma management	installed
•Accounts receivable	installed
•Management reports	installed
•Ad hoc report writer	installed
•Ability to determine query language for accessing data	installed
•Quality control management/Collection management	installed/installed
•Cord blood processing	installed
•Biologics management	installed
•Business analytics	available via a companion product
•Blood bank utilization	installed
Interfaces to automated donor infectious disease testing instruments	—
Interfaces to automated ABO/Rh/antibody screening instruments	yes (to instruments from Ortho, Grifols, Immucor, others)
Electronic interface to bedside patient ID systems	yes (to Sunquest's system)
Recommended tools to help clients validate system	testing tools from STS and Vedant Health
System provides indexed field in each test definition for LOINC code	yes
Provide LOINC dictionary for each new installation	yes
User group/Source code	yes (meets via webinar, conference call, in person)/escrow
Methods by which users can tailor blood bank system in their own setting	ad hoc query tools, user-defined interfaces, dictionary settings, wraparound programming, keyboards, grids, logs
Provide list of client sites to potential customers on request	yes (partial list of comparable sites)
Clients restricted from sharing experience with company or software	no
Standard software maintenance fee covers periodic updates to software	yes
Functionality provided via ASP or cloud-based data center	available as a local server or an ASP or cloud-based product (client's option)
Total cost for smallest standalone blood bank system installation**	—
Total cost for largest standalone blood bank system installation**	—
Total incremental cost for smallest blood bank system configuration install**	—
Total incremental cost for largest blood bank system configuration install**	—
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> <li>• by combining Sunquest Laboratory, Clinical Collect, Laboratory Blood Bank, and Transfusion Manager, clients can create a closed-loop blood administration system</li> <li>• full integration with LIS for reporting, inquiry, maintenance, quality assurance, and business intelligence</li> <li>• multi-facility capacity, including unit inventory tracking and management</li> </ul>

\*based on July 2017 survey deadline

\*\*pricing for existing sites; total cost includes hardware, software, installation, and training

Note: a dash in lieu of an answer means company did not answer question or question is not applicable

All information is supplied by the companies listed. The tabulation does not represent an endorsement by the CAP.

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