

Blood bank information systems

Part 1 of 4	Blood Bank Computer Systems Brian Forbis bforbis@bbcsinc.com 1002 15th St. SW, Suite 120 Auburn, WA 98001 888-738-2227 www.bbcsinc.com	Cerner Corp. Lori Cross lori.cross@cerner.com 2800 Rockcreek Parkway Kansas City, MO 64117 816-201-1125 www.cerner.com	Haemonetics Software Solutions Scott Dustin scott.dustin@haemonetics.com 4925 Robert J. Mathews Parkway, Suite 100 El Dorado Hills, CA 95762 916-404-8415 www.haemonetics.com
See accompanying article on page 26			
Name of blood bank system	Blood Bank Computer System	Cerner Millennium PathNet Blood Bank Transfusion	EIDorado Donor
First ever/Most recent blood bank system installation*	1987/2010	1986/July 2011	1996/May 2011
Last major product release (for version of product featured)	April 2011	August 2010	July 2011
Total number of contracts for sites operating blood bank system	31	340	22
•Contracts for U.S. hospitals with donor and transfusion services	2	20	14
•Contracts for U.S. hospitals with transfusion services only	0	260	0
•Contracts for U.S. regional blood centers with donor services only	24	0	2
•Contracts for U.S. regional blood centers with donor and transfusion services	4	0	2
•Contracts for foreign hospitals and regional blood centers	0	60 (Australia, Canada, England, Saudi Arabia, others)	2 (Egypt, Puerto Rico)
•Contracts for other sites	1	0	2 (hospitals with donor service only)
Number of contracts signed between June 2010–June 2011	3	—	10
Total number of sites operating blood bank system	120	340	11
Number of sites that went live between June 2010–June 2011	0	26	10
Installations not yet live (hospitals/regional blood centers/others)	0	31 (31/0/0)	32 (13/18/1)
Percentage of installations that are standalone blood bank systems	0	0	18%
No. of employees in entire company/Dedicated to blood bank systems development, installation, support	24/24	8,193 (as of year-end 2010)/420	401/328
Number of different versions of this software installed	—	2	2
•Versions of product in field covered by FDA 510(k) clearance	BBGSP 4.4, 5.2.2, 5.3, 5.3.1, 5.3.2, 5.3.3, 5.3.4, 5.3.5, 5.3.6, 5.3.7, 5.3.8, 5.4	Cerner Classic PathNet, Cerner Millennium PathNet	2.0, 2.1
•Versions of product that did not require FDA 510(k) clearance	0	none	none
Range in number of user workstations in live sites (average)	10–500 (average, 100)	not tracked	6–30 (average, 15)
Central hardware or services type	IBM iSeries	IBM, Hewlett-Packard	Windows-based servers, Intel based (determined by Oracle, ASP)
PC or workstation platform	IBM-compatible workstation, PCs	Microsoft Windows locally or via Citrix thin client	Windows
Software programming language(s)	RPG 400, Java	Java, Visual Basic, C++, C#, Visual C	C#
Operating system(s)	OS/400	HP-UX, AIX, VMS	Windows
Databases and tools	IBM DB2	Oracle	Oracle, Crystal Reports
Features (listed as percentage of live installs or based on availability)			
•Full support of ISBT 128 unit labeling	90%	100%	100%
•Bar-code reading of donor and unit information	100%	100%	100%
•Unit inventory	100%	100%	100%
•Autologous and directed unit tracking	100%	100%	100%
•Direct entry of test results/Crossmatch results	100%/17%	100%/100%	100%/available via Haemonetics' SafeTrace Tx
•Electronic crossmatch decisionmaking	3%	>50%	available via Haemonetics' SafeTrace Tx
•Antigen typing	100%	100%	100%
•Integrated bedside check for transfusion using positive patient ID	not available	1%	not available
•Track all steps in production of product	100%	100%	100%
•Print donor unit labels—bar coded	3%	100%	100%
•Interface with blood irradiator or centrifuges	100%	available in January 2012	not available
•Centralized transfusion service capability	7%	available	available via Haemonetics' SafeTrace Tx
•Donor recruitment and management/Donor questionnaire	installed/40%	available through partnership with a third party (both)	available via Haemonetics' eDonor/EIDorado Donor Doc
•Mobile scheduling	installed	available through partnership with a third party	available via Haemonetics' Hemasphere, eDonor
•Laptop-based mobile donor registration module	installed	available through partnership with a third party	installed
•Source or recovered plasma management	100%	available through partnership with a third party	installed
•Accounts receivable	100%	15%	available via a third party
•Management reports/Ad hoc report writer	100%/100%	100%/100%	100%/available via Haemonetics' EIDorado Donor Report Server
•Quality control management/Collection management	100%/100%	25%/100%	available via Haemonetics' EIDorado Control/100%
Interfaces to automated donor infectious disease testing instruments	yes	yes	yes
Interfaces to automated ABO/Rh/antibody screening instruments	yes	yes	yes
Electronic interface to bedside patient ID system from other vendor	no	—	no
Languages (other than English) offered on system	none	German, Spanish, French	none
Recommended tools to help clients validate their systems	validation protocols, flow charts, risk mitigation online portal, installation and verification instructions, 24/7 customer support	certification guidelines, instructions and online help files for end-users, blood bank validation services for organizations that want to outsource validation activities	validation templates and validation test plan for safety critical control checks, validation services through Haemonetics' PeopleMed subsidiary
Complete blood bank ASP solution	yes	yes	yes
•Method of charging for ASP service	transaction based	fixed fee	fixed fee or transaction based – user's option
•Client software required	browser based or requires software be installed on a client PC	browser based or requires software be installed on a client PC	Citrix via browser
•ASP information conduit	operates over the Internet	requires use of a VPN or other dedicated connection	operates over the Internet
•Client contracts supported from data center not operated by client	3	250	2
•How data center is operated	by a third party	by vendor	by vendor
System provides indexed field in each test definition for LOINC code	no	yes	no
Provide LOINC dictionary for each new installation	no	yes	no
Other vendors to which system has a lab-related interface	—	Epic, McKesson, Meditech, Allscripts, others	Cerner
User group	yes (meets in person annually)	yes (meets via Internet semi-annually; in person annually; at laboratory trade shows; others)	yes (meets via Internet as needed; in person annually; routine teleconferences)
Source code	no	no	escrow
User can modify screens	no	yes	no
User-defined report writer/Custom programming	yes/no	yes/yes	yes/no
Cost for software modifications to comply with federal regs and laws	standard (no charge)	standard (no charge)	standard (no charge)
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 configuration installed**	—	—	—
Total incremental cost for largest blood bank configuration installed**	—	—	—
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> complete blood center management package, from recruitment to transfusion self-registration and customizable online questionnaire capable of touch-screen integration support and paperless donor room system highly configurable to meet the needs of large and small facilities 	<ul style="list-style-type: none"> positive patient ID capabilities at the patient bedside, from specimen collection to transfusion administration increased efficiencies through such capabilities as mother-baby linking, online secondary review of results, QC specific to blood bank workflows, etc. support for blood bank within a single LIS and EMR architecture 	<ul style="list-style-type: none"> extensive safety checks throughout system with a commitment to compliance open workflow with extensive user-defined, table-based rules Service 360 commitment to ensure quality customer implementation and support experience

*based on August 2011 survey deadline

**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 2 of 4	Haemonetics Software Solutions Scott Dustin scott.dustin@haemonetics.com 4925 Robert J. Mathews Parkway, Suite 100 El Dorado Hills, CA 95762 916-404-8415 www.haemonetics.com	McKesson Joseph R. Stabile joseph.stabile@mckesson.com 5995 Windward Parkway Alpharetta, GA 30005 404-338-4363 www.mckesson.com/laboratory	Mediware Information Systems Steve Sedlock steve.sedlock@mediware.com 11711 W. 79th St. Lenexa, KS 66214 913-307-1000 www.mediware.com
Name of blood bank system	SafeTrace Tx [‡]	Horizon Blood Bank [‡]	HCLL Transfusion [‡]
First ever/Most recent blood bank system installation*	1996/July 2011	2004/May 2011	1980/June 2011
Last major product release (for version of product featured)	May 2011	March 2011	April 2011
Total number of contracts for sites operating blood bank system	306	102	235
•Contracts for U.S. hospitals with donor and transfusion services	19	0	16
•Contracts for U.S. hospitals with transfusion services only	266	99	205
•Contracts for U.S. regional blood centers with donor services only	0	0	6
•Contracts for U.S. regional blood centers with donor and transfusion services	10	0	2
•Contracts for foreign hospitals and regional blood centers	8 (Botswana, Puerto Rico, Canada, Ethiopia)	3 (Canada)	6 (Ireland, Saudi Arabia, Singapore, Canada)
•Contracts for other sites	3 (regional donor centers with transfusion only)	0	0
Number of contracts signed between June 2010–June 2011	24	15	8
Total number of sites operating blood bank system	398	157	395
Number of sites that went live between June 2010–June 2011	40	10	33
Installations not yet live (hospitals/regional blood centers/others)	79 (77/0/2)	10 (10/0/0)	106 (38/0/68)
Percentage of installations that are standalone blood bank systems	40%	0	85%
No. of employees in entire company/Dedicated to blood bank systems development, installation, support	401/328	44,000/148 (from Haemonetics Software Solutions – software supplier for Horizon Blood Bank)	300/120
Number of different versions of this software installed	6	5	11
•Versions of product in field covered by FDA 510(k) clearance	3.1, 3.2, 3.3, 3.4, 3.5, 3.6	SafeTrace Tx 3.2, 3.3, 3.4, 3.5, 3.6	3.0
•Versions of product that did not require FDA 510(k) clearance	none	none	3.1, 3.2, 3.3, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6
Range in number of user workstations in live sites (average)	1–105 (average, 7)	1–7 (average, 2)	2–50 (average, 8)
Central hardware or services type	Windows-based servers, Intel based (determined by Oracle, ASP)	Intel- and Unix-based servers	Microsoft compatible
PC or workstation platform	Windows	PCs	Microsoft compatible
Software programming language(s)	Delphi	Delphi, SQL	Visual Basic, C++ Com, Microsoft .Net, C#
Operating system(s)	Windows	Windows XP Professional, 2003 (Unix optional)	Windows 2008, 2003
Databases and tools	Oracle, Crystal Reports	Oracle, Crystal Reports	Microsoft SQL 2008, 2005, 2000
Features (listed as percentage of live installs or based on availability)			
•Full support of ISBT 128 unit labeling	100%	installed	installed
•Bar-code reading of donor and unit information	100%	installed	installed
•Unit inventory	100%	installed	installed
•Autologous and directed unit tracking	100%	installed	installed
•Direct entry of test results/Crossmatch results	100%/100%	installed/installed	installed/installed
•Electronic crossmatch decisionmaking	70%	installed	installed
•Antigen typing	100%	installed	installed
•Integrated bedside check for transfusion using positive patient ID	available via a third party	not available	available via a third party
•Track all steps in production of product	100%	installed	available via Mediware LifeTrak
•Print donor unit labels—bar coded	installed	installed	available via Mediware LifeTrak
•Interface with blood irradiator or centrifuges	installed	installed	available but not installed
•Centralized transfusion service capability	100%	installed	installed
•Donor recruitment and management/Donor questionnaire	available via Haemonetics' eDonor/available via Haemonetics' eIDorado Donor Doc	available via a third party/available via a third party	available via Mediware LifeTrak/available via Mediware LifeTrak
•Mobile scheduling	available via Haemonetics' Hemaspere	available via a third party	available via Mediware LifeTrak
•Laptop-based mobile donor registration module	available via Haemonetics' eIDorado Donor, SafeTrace Mobile Collections	available via a third party	available via Mediware LifeTrak
•Source or recovered plasma management	available via Haemonetics' eIDorado Donor, SafeTrace	available via a third party	available via Mediware LifeTrak
•Accounts receivable	available via a third party	available via a third party	installed
•Management reports/Ad hoc report writer	100%/available via a third party	installed/installed	installed/installed
•Quality control management/Collection management	installed/available via eIDorado Donor, SafeTrace	installed/available via company's LIS	installed/installed
Interfaces to automated donor infectious disease testing instruments	no	no	yes
Interfaces to automated ABO/Rh/antibody screening instruments	yes	yes	yes
Electronic interface to bedside patient ID system from other vendor	yes (CareFusion, McKesson, Siemens)	no	—
Languages (other than English) offered on system	none	none	none
Recommended tools to help clients validate their systems	validation guidelines, templates, and test plan for critical control checks; validation services through Haemonetics' PeopleMed subsidiary	validation services and guidelines from recommended third parties	validation scripts, validation services
Complete blood bank ASP solution	yes	yes	yes
•Method of charging for ASP service	fixed fee or transaction based – user's option	fixed fee or transaction based	fixed fee
•Client software required	Citrix via browser	browser based or requires software be installed on a client PC	browser based
•ASP information conduit	operates over the Internet	operates over the Internet or requires use of a VPN or other dedicated connection	requires use of a VPN or other dedicated connection
•Client contracts supported from data center not operated by client	8	5	—
•How data center is operated	by vendor	by vendor or a third party (ACS, Dell, PHNS/Anthelio)	by a third party
System provides indexed field in each test definition for LOINC code	no	no	no
Provide LOINC dictionary for each new installation	no	no	no
Other vendors to which system has a lab-related interface	McKesson, Cerner, Siemens, GE, CPSI, Sunquest, Mediatech, Keane, SCC, Sysmex, Orchard, others	Siemens, Mediatech, Epic, Cerner (all interfaced to McKesson Horizon Blood Bank via Horizon Lab)	Epic, McKesson, Sunquest, NextGen, Cerner, others
User group	yes (meets via Internet as needed; in person annually; routine teleconferences)	yes (meets in person annually)	yes (meets via Internet quarterly, in person annually; monthly newsletters; Mediware user site; others)
Source code	escrow	escrow	escrow
User can modify screens	no	no	yes
User-defined report writer/Custom programming	no/no	yes/no	yes/no
Cost for software modifications to comply with federal regs and laws	standard (no charge)	—	standard (no charge)
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 configuration installed**	—	—	—
Total incremental cost for largest blood bank configuration installed**	—	—	—
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> extensive safety checks throughout system patents for Patient-At-A-Glance bar, antigen-antibody ID, and central transfusion service functionality Service 360 commitment to ensure quality experience 	<ul style="list-style-type: none"> extensive safety checks throughout system patents for Patient-At-A-Glance bar, antigen-antibody ID, and central transfusion service functionality Service 360 commitment 	<ul style="list-style-type: none"> integrated with InSight to provide a dynamic and visual dashboard for data in blood bank system integrated with Knowledge Trak for document retrieval, training, compliance monitoring, more more than 60 different patient safety checks
<i>*based on August 2011 survey deadline</i>			
<i>**total cost includes hardware, software, installation, and training</i>			
<i>Note: a dash in lieu of an answer means company did not answer question or question is not applicable</i>			
	<i>‡ also marketed by McKesson as Horizon Blood Bank</i>	<i>‡ also marketed by Haemonetics as SafeTrace Tx</i>	<i>‡ previously marketed as Hemocare/LifeLine</i>

Blood bank information systems

Part 3 of 4	Mediware Information Systems Michael Anania michael.anania@mediware.com 11711 W. 79th St. Lenexa, KS 66214 913-307-1009 www.mediware.com	NetLims NJ LLC Abraham Allerhand avi@netlims.com 111 Town Square Place, Suite 700 Jersey City, NJ 07310 201-894-5300 www.netlims.com	Psyche Systems Corp. Rachel Stratman sales@psychesystems.com 321 Fortune Blvd. Milford, MA 01757 508-473-1500 www.psychesystems.com
Name of blood bank system	LifeTrak	AutoFusion	Systematic Blood Bank (SBB)
First ever/Most recent blood bank system installation*	1980/July 2011	2002/July 2011	1987/June 2011
Last major product release (for version of product featured)	December 2010	February 2011	2001
Total number of contracts for sites operating blood bank system	16	3	19
•Contracts for U.S. hospitals with donor and transfusion services	6	0	0
•Contracts for U.S. hospitals with transfusion services only	0	0	19
•Contracts for U.S. regional blood centers with donor services only	7	0	0
•Contracts for U.S. regional blood centers with donor and transfusion services	2	0	0
•Contracts for foreign hospitals and regional blood centers	0	3 (Israel)‡	0
•Contracts for other sites	1 (donor testing)	0	0
Number of contracts signed between June 2010–June 2011	2	0	—
Total number of sites operating blood bank system	92	24 (Israel)	19
Number of sites that went live between June 2010–June 2011	2	0	—
Installations not yet live (hospitals/regional blood centers/others)	30 (1/29/0)	8 (8/0/0)	—
Percentage of installations that are standalone blood bank systems	—	0	50%
No. of employees in entire company/Dedicated to blood bank systems development, installation, support	300/120	124/20	49/10
Number of different versions of this software installed	11	4	1
•Versions of product in field covered by FDA 510(k) clearance	2.03, 3.02, 4.6.0	3.02.03	Systematic Blood Bank 3.0
•Versions of product that did not require FDA 510(k) clearance	3.01, 3.1.0, 3.1.1, 3.1.2, 3.3.0, 3.4.1, 4.4.0, 4.6.2	3.01MS, 3.02.06, 3.02.07	none
Range in number of user workstations in live sites (average)	7–340 (average, 100)	8–37 (average, 22)	1–100 (average, 13)
Central hardware or services type PC or workstation platform	Intel-based server (Linux) Microsoft compatible	Wintel (Hewlett-Packard, IBM, Dell) Wintel (Hewlett-Packard, IBM, Dell)	none (hosted/Web deployed) PCs
Software programming language(s) Operating system(s) Databases and tools	Oracle Forms and Reports Linux Oracle	C++ Windows XP, 2000 Microsoft SQL, Oracle	Visual Basic, Fortran any (supports all operating systems) proprietary
Features (listed as percentage of live installs or based on availability)			
•Full support of ISBT 128 unit labeling	94%	100%	100%
•Bar-code reading of donor and unit information	100%	100%	100%
•Unit inventory	81%	100%	100%
•Autologous and directed unit tracking	94%	100%	100%
•Direct entry of test results/Crossmatch results	installed/not available	100%/100%	100%/100%
•Electronic crossmatch decisionmaking	not available	available but not installed	100%
•Antigen typing	installed	100%	100%
•Integrated bedside check for transfusion using positive patient ID	not available	available but not installed	available but not installed
•Track all steps in production of product	94%	100%	100%
•Print donor unit labels—bar coded	94%	45%	not available
•Interface with blood irradiator or centrifuges	available in 2012	not available	not available
•Centralized transfusion service capability	available via company's LIS	available but not installed	100%
•Donor recruitment and management/Donor questionnaire	94%/94%	45%/45%	not available/not available
•Mobile scheduling	35%	available in December 2011	not available
•Laptop-based mobile donor registration module	8%	45%	not available
•Source or recovered plasma management	94%	available but not installed	not available
•Accounts receivable	not available	available but not installed	not available
•Management reports/Ad hoc report writer	100%/100%	100%/installed	100%/100%
•Quality control management/Collection management	100%/94%	70%/100%	100%/not available
Interfaces to automated donor infectious disease testing instruments	yes	no	yes
Interfaces to automated ABO/Rh/antibody screening instruments	yes	yes	—
Electronic interface to bedside patient ID system from other vendor	—	no	no
Languages (other than English) offered on system	—	Hebrew	—
Recommended tools to help clients validate their systems	release notes, training, scripts, validation services	audit trail, ad hoc reporting, automated scheduled reports, automated alerts, user alerts followup, control screens	software validation guidelines
Complete blood bank ASP solution	yes	no	yes
•Method of charging for ASP service	fixed fee or transaction based – user's option	—	fixed fee
•Client software required	—	—	browser based or requires software be installed on a client PC
•ASP information conduit	—	—	operates over the Internet
•Client contracts supported from data center not operated by client	2	—	19
•How data center is operated	by a third party	—	by vendor
System provides indexed field in each test definition for LOINC code	no	yes	no
Provide LOINC dictionary for each new installation	no	no	no
Other vendors to which system has a lab-related interface	Cerner	—	CPSI, Meditech, Siemens, McKesson, Cerner, others
User group	yes (meets in person annually)	yes (meets in person biannually)	yes (meets via Internet daily; in person biannually; via conference call)
Source code	escrow	no	yes
User can modify screens	no	yes	—
User-defined report writer/Custom programming	no/no	yes/yes	yes/no
Cost for software modifications to comply with federal regs and laws	standard (no charge)	—	standard (no charge)
Total cost for smallest standalone blood bank system installation**	—	\$175,000 (monthly maintenance fee, \$3,000)	\$12,500 (monthly maintenance fee, \$200)
Total cost for largest standalone blood bank system installation**	—	\$575,000 (monthly maintenance fee, \$8,000)	\$46,000 (monthly maintenance fee, \$800)
Total incremental cost for smallest blood bank configuration installed**	—	\$275,000 (monthly maintenance fee, \$4,500)	\$40,000 (monthly maintenance fee, \$600)
Total incremental cost for largest blood bank configuration installed**	—	\$1,800,000 (monthly maintenance fee, \$30,000)	\$90,000 (monthly maintenance fee, \$1,500)
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> offering a comprehensive donor center management and donor testing solution that has full integration with online donor recruitment and retention products experienced and dedicated blood center technology staff more than 50 percent of nation's blood supply supported by Mediware software 	<ul style="list-style-type: none"> graphical, user-friendly, simple interface higher level of automation and decision support increase productivity and safety user-level configuration, setup, and user logic engine integration provide unparalleled customizability 	<ul style="list-style-type: none"> complete, affordable blood bank system for the small to mid-sized blood bank flexible and easy to use securely hosted, Web-deployed system that requires no additional hardware investments

*based on August 2011 survey deadline

**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

‡ now marketing product in the U.S.

Blood bank information systems

Part 4 of 4	SCC Soft Computer Ellie Vahman sales@softcomputer.com 5400 Tech Data Drive Clearwater, FL 33760 727-789-0100 www.softcomputer.com	SCC Soft Computer Ellie Vahman sales@softcomputer.com 5400 Tech Data Drive Clearwater, FL 33760 727-789-0100 www.softcomputer.com	Sunquest Information Systems Chris Fraker chris.fraker@sunquestinfo.com 250 S. Williams Blvd. Tucson, AZ 85711 877-239-6337 www.sunquestinfo.com
Name of blood bank system	SoftBank II	SoftDonor	Sunquest Laboratory Blood Bank and Blood Donor modules [‡]
First ever/Most recent blood bank system installation*	1992/July 2011	1992/April 2011	1985/2011
Last major product release (for version of product featured)	July 2010	January 2009	2009
Total number of contracts for sites operating blood bank system	187	17	380
•Contracts for U.S. hospitals with donor and transfusion services	16	15	37
•Contracts for U.S. hospitals with transfusion services only	163	0	328
•Contracts for U.S. regional blood centers with donor services only	0	1	0
•Contracts for U.S. regional blood centers with donor and transfusion services	0	0	0
•Contracts for foreign hospitals and regional blood centers	8 (Canada)	1 (Canada)	15 (Bermuda, Canada, Ireland, United Arab Emirates, United Kingdom, Dubai, Abu Dhabi)
•Contracts for other sites	0	0	0
Number of contracts signed between June 2010–June 2011	6	0	18
Total number of sites operating blood bank system	402	33	400+
Number of sites that went live between June 2010–June 2011	15	2	5
Installations not yet live (hospitals/regional blood centers/others)	19 (19/0/0)	1 (1/0/0)	16 (16/0/0)
Percentage of installations that are standalone blood bank systems	4%	—	0
No. of employees in entire company/Dedicated to blood bank systems development, installation, support	1,561/76	1,561/76	—
Number of different versions of this software installed	9	3	3
•Versions of product in field covered by FDA 510(k) clearance	19.1, 21, 22, 23, 23 with SoftScape, 23.1 with DMSI, 23.2, 25, 25.1	4.3, 4.4, 4.5	Blood Bank and Blood Donor v6.0.1, Blood Bank and Blood Donor v6.4
•Versions of product that did not require FDA 510(k) clearance	none	none	v6.0.2
Range in number of user workstations in live sites (average)	1–100+ (average, 8)	3–12 (average, 8)	10–100+ (average, 20+)
Central hardware or services type PC or workstation platform	IBM System p (Power P7) Intel-based PCs	IBM System p (Power P7) Intel-based PCs	IBM pSeries, HP Integrity Dell, HP Windows
Software programming language(s)	C, C++, .Net	C, C++, .Net	Caché, Caché Script, M, Standard C/C++, Visual Basic, Visual C++, Active X
Operating system(s) Databases and tools	server: IBM AIX (Unix); workstation: Windows XP, Vista, 7 Oracle	server: IBM AIX (Unix); workstation: Windows XP, Vista, 7 Oracle	AIX, HP-UX, OpenVMS InterSystems Caché
Features (listed as percentage of live installs or based on availability)			
•Full support of ISBT 128 unit labeling	60%	100%	installed
•Bar-code reading of donor and unit information	100%	100%	100%
•Unit inventory	100%	100%	100%
•Autologous and directed unit tracking	100%	100%	100%
•Direct entry of test results/Crossmatch results	100%/100%	100%/available via SCC's SoftBank	100%/100%
•Electronic crossmatch decisionmaking	70%	available via SCC's SoftBank	16%
•Antigen typing	100%	100%	100%
•Integrated bedside check for transfusion using positive patient ID	5%	available via SCC's SoftID-Tx if used with SoftBank II	installed
•Track all steps in production of product	100%	100%	100%
•Print donor unit labels—bar coded	80% (component labels)	available via a third party	installed
•Interface with blood irradiator or centrifuges	10%	available via SCC's SoftBank	not available
•Centralized transfusion service capability	10%	available via SCC's SoftBank	100%
•Donor recruitment and management/Donor questionnaire	available via SCC's SoftDonor/available via SCC's SoftDonor	100%/ 100%	installed/not available
•Mobile scheduling	available via SCC's SoftDonor	50%	not available
•Laptop-based mobile donor registration module	available via SCC's SoftDonor	90%	not available
•Source or recovered plasma management	10%	100%	installed
•Accounts receivable	95%	100%	90%
•Management reports/Ad hoc report writer	100%/100%	100%/100%	100%/100% via company's LIS
•Quality control management/Collection management	100%/100% (specimen collection)	80%/100%	100%/installed via company's LIS
Interfaces to automated donor infectious disease testing instruments	no	yes	no
Interfaces to automated ABO/Rh/antibody screening instruments	yes	yes	yes
Electronic interface to bedside patient ID system from other vendor	yes (CareFusion)	yes	no
Languages (other than English) offered on system	French	none	—
Recommended tools to help clients validate their systems	critical control points, test case instructions, release notes with links to test cases, electronic screen capture	critical control points, test case instructions, release notes with links to test cases, electronic screen capture	client testing guidelines, documentation, training, consulting service
Complete blood bank ASP solution	yes	yes	no
•Method of charging for ASP service	fixed fee	fixed fee	—
•Client software required	requires software be installed on a client PC	requires software be installed on a client PC	—
•ASP information conduit	requires use of a VPN or other dedicated connection	requires use of a VPN or other dedicated connection	—
•Client contracts supported from data center not operated by client	1	0	—
•How data center is operated	by vendor	by vendor	—
System provides indexed field in each test definition for LOINC code	no	no	no
Provide LOINC dictionary for each new installation	no	no	no
Other vendors to which system has a lab-related interface	Cerner, CPSI, Eclipsys, Epic, GE, Healthland, HealthWorks, HMS, InfoMedica, Keane, McKesson, Meditech, QuadraMed, Siemens, others	Cerner, CPSI, Eclipsys, Epic, GE, Healthland, HealthWorks, HMS, InfoMedica, Keane, McKesson, Meditech, QuadraMed, Siemens, Sunquest, others	Cerner, McKesson, Siemens, Epic, others
User group	yes (meets in person annually; special interest group meets via Listserv)	yes (meets in person annually; special interest group meets via Listserv)	yes (meets via Internet quarterly; in person quarterly and annually; via conference call)
Source code	escrow	escrow	escrow
User can modify screens	no	no	yes
User-defined report writer/Custom programming	yes/no	yes/no	yes/yes
Cost for software modifications to comply with federal regs and laws	—	standard (no charge)	standard (no charge)
Total cost for smallest standalone blood bank system installation**	\$105,000 (monthly maintenance fee, \$500)	\$105,000 (monthly maintenance fee, \$500)	—
Total cost for largest standalone blood bank system installation**	\$420,000 (monthly maintenance fee, \$4,000)	\$420,000 (monthly maintenance fee, \$4,000)	—
Total incremental cost for smallest blood bank configuration installed**	\$55,000 (monthly maintenance fee, \$500)	\$55,000 (monthly maintenance fee, \$500)	—
Total incremental cost for largest blood bank configuration installed**	\$250,000 (monthly maintenance fee, \$2,500)	\$250,000 (monthly maintenance fee, \$2,500)	—
Distinguishing features (supplied by company)	<ul style="list-style-type: none"> intuitive functionality; system displays on screen those items users need to perform duties warns user of inconsistencies, errors, omissions, and presents user with exception to describe problem before user can proceed; exception sent to manager for review supports user workflow 	<ul style="list-style-type: none"> user-defined test algorithms can automatically order required, repeat, and confirmatory tests detailed donor database search capability increases effectiveness of targeted recruiting efforts, including search by antigen, blood type, donation procedure all significant steps in the donation process documented 	<ul style="list-style-type: none"> combining Sunquest Laboratory, Collection Manager, Blood Bank, and Transfusion Manager can create a closed-loop blood administration system full integration with LIS for reporting, inquiry, maintenance, QA, and business intelligence dashboards multi-facility capacity, including unit inventory tracking and management
<i>*based on August 2011 survey deadline</i>			
<i>**total cost includes hardware, software, installation, and training</i>			
<i>Note: a dash in lieu of an answer means company did not answer question or question is not applicable</i>			
			<i>‡ previously marketed as Misys Laboratory Blood Bank</i>