<i>"</i>				
Pä	ort 1 of 6	Blood Bank Computer Systems Inc. Craig Smith csmith@bbcsinc.com 1002 15th St. SW, Ste. 120 Auburn, WA 98001	Cerner Corp. Angela Betts abetts@cerner.com 2800 Rockcreek Parkway Kansas City, M0 64117	Cerner Corp. Angela Betts abetts@cerner.com 2800 Rockcreek Parkway Kansas City, M0 64117
Se	e accompanying article on page 38	<b>253-333-0046</b> www.bbcsinc.com	816-201-2771 www.cerner.com	816-201-2771 www.cerner.com
Na	me of blood bank system	Blood Bank Control System	PathNet Blood Bank Donor†	PathNet Blood Bank Transfusion
Fir	st ever blood bank system installation st/most recent system installation (for current release) tal number of contracts for operational sites	1987 1997/2002 25	1985 2003/— —	1985 1997/2003 300+
•U	.S. hospitals—donor and transfusion service	0	_	46
•U	.S. hospitals—transfusion service only .S. regional blood centers—donor service only	21	_	300+ 0
	.S. regional blood centers—donor and transfusion service entralized transfusion services in the U.S.	4		4 0
•F	oreign hospitals/foreign regional blood centers	0	_	40
	tal number of sites operational stallations underway that are not yet live	25 2 (0/2)	_	300+ 15 (15/0)
	hospitals/regional blood centers) rcentage of installations that are stand-alone systems	100%	available stand-alone or integrated	<5%
•lı	aff to develop/install/support/other* n entire company/in blood bank systems ther=sales, marketing, administration, other co. functions	13-2-4-3/—	800+-1,900+-800+-1,300+/15-24-10-15	800+-1,900+-800+-1,300+/15-24-10-15
•٧	of different versions of software installed ersions of product covered by FDA 510(k) clearance ersions of product that did not require FDA 510(k) clearance	1 	— Classic, Millennium n/a	— Classic, Millennium n/a
_	nge in No. of terminals/workstations in live sites (ave.)	5–150 (ave. 50)	_	5-500+ (ave. 10-20)
•0	entral hardware/computer platform or services	IBM AS/400, iSeries	Compag, IBM RS/6000	Compaq, IBM RS/6000
•T	erminals/workstations	IBM-compatible workstations and PCs	Intel Pentium PCs	Intel Pentium PCs
$\vdash$	entral hardware redundant/fault-tolerant?	yes	yes	yes
•P	ftware rogramming language(s)	RPG/400, Java	Visual Basic, C++, Cobol (Classic)	Visual Basic, C++, Cobol (Classic)
	perating system(s) atabase platform	IBM OS/400 IBM DB2	Open VMS, AIX Oracle (Millennium), Cerner proprietary (Classic)	Open VMS, AIX Oracle (Millennium), Cerner proprietary (Classic)
	alabase platform ull transaction logging?	yes	yes	yes
	atures (listed as a percentage of live installations, or as "installed" f No. of sites operational is unknown, or as "available but no nstallations," or "not available")	4000/	averaged in anythin 2004	1000/
	nit inventory utologous and directed unit tracking	100% 100%	expected in spring 2004 expected in spring 2004	100% 100%
1	rossmatch results rint donor unit labels—bar coded	15% available but no installations	expected in spring 2004 expected in spring 2004	100% available in 2004
•F	ull support of ISBT 128 unit labeling	available in 2003	expected in spring 2004	available in 2004
	onor recruitment lobile schedulina	100% 95%	expected in spring 2004 future development	not available not available
	nterface with automated type and screen instruments	75%	expected in fall 2004	5%
	ource/recovered plasma management ar-code reading wherever donor number is entered	100% 100%	expected in spring 2004 expected in spring 2004	not available 100%
	d hoc report writer ccounts receivable	100% 100%	expected in spring 2004 expected in spring 2004	100% 15%
•N	lanagement reports	100%	expected in spring 2004	100%
	irect entry of test results lectronic crossmatch decisionmaking	100% 15%	expected in spring 2004 expected in spring 2004	80% 30%
•L	aptop-based mobile donor registration module	95%	future development	1000/
	rack all steps in production of product ntigen typing	100% 100%	expected in spring 2004 expected in spring 2004	100% 100%
•11	nterface with blood irradiator/centrifuges	_	not available	not available
Co	stem provides standard ASTM/HL7 interface? nnectivity ols to help clients validate their systems	no local client, remote client separate department dedicated to develop- ment of validation protocols, flow charts, 24/7 customer support	yes telnet, local client, remote client solution validation guidelines, support guide, application consultants, others	yes telnet, local client, remote client solution validation guidelines, support guide, application consultants, others
Me	mplete blood bank ASP solution? ethod of charging for ASP service ent software required	yes transaction based requires software be installed on client PC,	yes fixed fee requires software be installed on client PC	yes fixed fee requires software be installed on client PC
AS	P information conduit	uses dumb terminals operates over Internet, requires use of private, dedicated circuit	requires use of private, dedicated circuit	requires use of private, dedicated circuit
	ent contracts supported from data center not operated by client w data center is operated	by a third party (blood bank)	— by vendor	100+† by vendor
	stem provides indexed field in each test definition for LOINC code? ovide LOINC dictionary for each new installation?	no no	yes yes	yes yes
1	6 interfaces 6 interfaces	_	multiple vendors multiple vendors	multiple vendors multiple vendors
	er group?	yes (meets online as well)	will form user group	yes (meets online as well)
Ca	urce code? n user modify screens?	escrow no	escrow yes	escrow yes
Co •S	er-defined report writer?/custom programming? st (hardware/software/monthly maintenance) mallest argest	\$30k/—/— \$30k/—/—	yes/yes	yes/yes  — —
Dis	stinguishing features (supplied by vendor)	online or integrated electronic donor registration     flexible management controls     user group interaction	fully integrated with LIS     more than 20 years in market with regulated SW     product received FDA clearance in August 2003	fully integrated with LIS     more than 20 years in market with regulated SW     includes solutions other than blood bank
Tahı	lation does not represent an endorsement by the College of American F	Pathologists		Survey editor: Raymond D. Aller, MD

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Se	ee accompanying article on page 38	800-249-4276/847-825-2300 www.idm.com	800-249-4276/847-825-2300 www.idm.com	<b>847-803-4863</b> www.mak-system.com
Na	me of blood bank system	IDM Select Series for Blood Centers	PCMS: Plasma Center Management System	Progesa
	rst ever blood bank system installation	1991	1991	1985
	st/most recent system installation (for current release) tal number of contracts for operational sites	1999/2002 8	2000/2000	1985/2003 485
•l	I.S. hospitals—donor and transfusion service	0	<u>_</u>	0
	l.S. hospitals—transfusion service only l.S. regional blood centers—donor service only	0 7		0 4
•t	I.S. regional blood centers—donor and transfusion service	0	_	Ö
	entralized transfusion services in the U.S. oreign hospitals/foreign regional blood centers	0 1 (Hong Kong)		0 481
To	tal number of sites operational	8	1	_
	stallations underway that are not yet live (hospitals/regional blood centers)	0	0	15 (10/5)
	rcentage of installations that are stand-alone systems	100%	100%	100%
•1	aff to develop/install/support/other* n entire company/in blood bank systems ther=sales, marketing, administration, other co. functions	26-8-17-11/—	26-8-17-11/—	92-38-45-55/—
	o. of different versions of software installed	3	1	_
	ersions of product covered by FDA 510(k) clearance ersions of product that did not require FDA 510(k) clearance	— DMIS 1.2.2, CDIS 1.1.2, InTouch 1.5	PCMS 1.4	4.4 —
Ra	inge in No. of terminals/workstations in live sites (ave.)	4–80 (ave. 30)	5–300 (ave. 150)	10-1,000 (ave. 100)
•1	entral hardware/computer platform or services erminals/workstations entral hardware redundant/fault-tolerant?	HP NetServers, HP 9000 business servers Unix terminals/X-terminals, PCs, workstations yes	HP NetServers, HP 9000 business servers Unix terminals/X-terminals, PCs, workstations yes	no restrictions (any hardware with Unix) Wyse, HP, IBM, DEC, PCs yes
	oftware	lava C++ C	lava C	C C++ Pro/E lava
•0	rogramming language(s) perating system(s)	Java, C++, C Unix	Java, C Unix	C, C++, Pro/5, Java Unix
•[	atabase platform ull transaction logging?	Oracle yes	Oracle	Oracle, C-ISAM
_		-	yes	yes
i	atures (listed as a percentage of live installations, or as "installed' if No. of sites operational is unknown, or as "available but no installations," or "not available")		1000/	4000/
ı	Init inventory Autologous and directed unit tracking	100% 100%	100% not available	100% 100%
	crossmatch results	not available 100%	not available 100%	100% 100%
	rint donor unit labels—bar coded full support of ISBT 128 unit labeling	not available	available in 2004	4 sites
	Onor recruitment	100% 100%	not available not available	100% 100%
	Nobile scheduling nterface with automated type and screen instruments	not available	not available	——————————————————————————————————————
	ource/recovered plasma management Par-code reading wherever donor number is entered	100% 100%	100% 100%	100% 100%
	d hoc report writer	100%	100%	100%
	accounts receivable Nanagement reports	not available 100%	not available 100%	100% 100%
•[	Direct entry of test results	100%	100%	—
	lectronic crossmatch decisionmaking aptop-based mobile donor registration module	not available not available	not available not available	 100%
•T	rack all steps in production of product	100%	100%	<del>-</del>
	Intigen typing nterface with blood irradiator/centrifuges	100% not available	100% not available	_
	<u> </u>			
Co	stem provides standard ASTM/HL7 interface? Innectivity Innectivity In help clients validate their systems	telnet, remote client, other product user manuals, product validation guide, configuration workshops, automated testing tools, training classes and materials, more	no telnet, remote client, other product user manuals, product validation guide, configuration workshops, automated testing tools, training classes and materials, more	yes telnet, Web client user guides, hazard analysis, training manuals, data conversion, validation scenario samples
	omplete blood bank ASP solution? ethod of charging for ASP service	yes fixed fee	yes fixed fee	no 
CI	ient software required	uses dumb terminals	uses dumb terminals	-
AS	P information conduit	requires use of private, dedicated circuit and virtual private network	requires use of private, dedicated circuit and virtual private network	_
	ient contracts supported from data center not operated by client ow data center is operated	0 by vendor	0 by vendor	_
	stem provides indexed field in each test definition for LOINC code? ovide LOINC dictionary for each new installation?	no no	no no	no no
Н	S interfaces S interfaces	n/a ARC DMS, IDM DMS, IDM Surround	n/a IDM DMS, IDM Surround	any type any type
	5 interraces			
LI: Us	er group?	yes	no	yes (meets online as well)
Us So	er group? ource code?	escrow	escrow	escrow
Us So Ca	er group?			
Us So Ca Us	er group? ource code? on user modify screens? eer-defined report writer?/custom programming?	escrow no	escrow no	escrow
Us So Ca Us	er group? purce code? un user modify screens? er-defined report writer?/custom programming? est (hardware/software/monthly maintenance) emailest	escrow no	escrow no	escrow
Us So Ca Us	ser group? source code? source modify screens? ser-defined report writer?/custom programming? set (hardware/software/monthly maintenance)	escrow no	escrow no	escrow
Us So Ca Us Co	er group? purce code? un user modify screens? er-defined report writer?/custom programming? est (hardware/software/monthly maintenance) emailest	escrow no yes/yes  • over two decades of experience in regulated	escrow no yes/yes  • over two decades of experience in regulated	escrow no — —  • Mak-System consists of blood bank
Us So Ca Us Co	er group? purce code? un user modify screens? er-defined report writer?/custom programming? est (hardware/software/monthly maintenance) smallest argest	escrow no yes/yes  — —	escrow no yes/yes	escrow no

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	Part 3 of 6	Meditech Inc. Paul Berthiaume pberthiaume@meditech.com Meditech Circle Westwood, MA 02090	Meditech Inc. Paul Berthiaume pberthiaume@meditech.com Meditech Circle Westwood, MA 02090	Mediware Information Systems Inc. Joe Tehan joe.tehan@mediware.com 4545 Fuller Drive, Ste. 360 Irving, TX 75038
Ŀ	See accompanying article on page 38	<b>781-821-3000</b> www.meditech.com	<b>781-821-3000</b> www.meditech.com	<b>972-536-2909</b> www.mediware.com
Ľ	lame of blood bank system	Meditech Blood Bank (client/server)	Meditech Blood Bank (Magic)	Hemocare
	First ever blood bank system installation First/most recent system installation (for current release)	1981 2001/2003	1981 2000/2003	1978 —
1	Total number of contracts for operational sites	114	835	
	PU.S. hospitals—donor and transfusion service PU.S. hospitals—transfusion service only	4 110	54 765	_
١	U.S. regional blood centers—donor service only	0	16	_
	PU.S. regional blood centers—donor and transfusion service Centralized transfusion services in the U.S.	0	0 0	_
	Foreign hospitals/foreign regional blood centers Total number of sites operational	0 111	0 832	<del></del>
	nstallations underway that are not yet live	3 (3/0)	3 (3/0)	24
۱ ا	(hospitals/regional blood centers) Percentage of installations that are stand-alone systems	0	0	100%
١	Staff to develop/install/support/other* eln entire company/in blood bank systems *other=sales, marketing, administration, other co. functions	2,058 total	2,058 total	39-26-41-69/19-8-21-23
	lo. of different versions of software installed	2	2	3
	Versions of product covered by FDA 510(k) clearance Versions of product that did not require FDA 510(k) clearance	Magic, client/server —	Magic, client/server —	_
ī	Range in No. of terminals/workstations in live sites (ave.)	_	_	1–60 (ave. 16)
١,	Central hardware/computer platform or services	HP, Dell, EMC, IBM	HP, Dell, EMC, IBM	IBM RS/6000, Intel Pentium
۱	Terminals/workstations	HP, Dell, EMC, IBM	HP, Dell, EMC, IBM	PCs, any ANSI/VT 100-compatible terminals
H	Central hardware redundant/fault-tolerant?	yes	yes	yes
	Software Programming language(s)	Windows NT	Magic	C
١	Operating system(s)	Windows NT	Magic	Unix
	Database platform Full transaction logging?	SQL server yes	Magic yes	ISAM File Handler yes
	Features (listed as a percentage of live installations, or as "installed" if No. of sites operational is unknown, or as "available but no installations," or "not available")			
	Unit inventory Autologous and directed unit tracking	installed installed	installed installed	100% 100%
١	Crossmatch results	installed	installed	100%
	Print donor unit labels—bar coded Full support of ISBT 128 unit labeling	installed available but no installations	installed available but no installations	100% not available
	Donor recruitment Mobile scheduling	installed available but no installations	installed available but no installations	35% not available
١	Interface with automated type and screen instruments	available but no installations	available but no installations	not available
	Source/recovered plasma management Bar-code reading wherever donor number is entered	installed installed	installed installed	100% 100%
١	Ad hoc report writer	installed	installed	60%
	Accounts receivable Management reports	installed installed	installed installed	100% 100%
	Direct entry of test results	installed installed	installed installed	100% 75%
	Electronic crossmatch decisionmaking Laptop-based mobile donor registration module	available but no installations	available but no installations	not available
	Prack all steps in production of product Pantigen typing	installed installed	installed installed	— available but no installations
	Unterface with blood irradiator/centrifuges	not available	not available	not available
	System provides standard ASTM/HL7 interface?		yes	yes
	Connectivity Tools to help clients validate their systems	local client, remote client, Web client, other comprehensive validation manual, application consultants	telnet, local & remote client, Web client, other comprehensive validation manual, application consultants	validation primer, validation templates, training, test scripts, validation services
	Complete blood bank ASP solution? Method of charging for ASP service	no —	no —	no —
(	Client software required ASP information conduit	_	_	_
(	Client contracts supported from data center not operated by client	_	_	_
⊢	How data center is operated  System provides indexed field in each test definition for LOINC code?		Vac	
	Provide LOINC dictionary for each new installation?	no	yes no	no no
	HS interfaces LS interfaces	Cerner, Siemens, McKesson, others Cerner, Misys, others	Cerner, Siemens, McKesson, others Cerner, Misys, others	McKesson, Siemens, HDS, TDS McKesson, Siemens, Cerner, NLFC, CCA, others
	Jser group? Source code?	yes (meets online as well) yes	yes (meets online as well) yes	yes (meets online as well) escrow
ŀ	Can user modify screens?	yes	yes	no
H	Jser-defined report writer?/custom programming?	yes/no	yes/no	yes/yes
۱ ا	Cost (hardware/software/monthly maintenance) PSmallest PLargest	_	=	\$10k/\$20k/\$0.5k \$100k/\$300k/\$7k
I	Distinguishing features (supplied by vendor)	fully integrated applications     developed 100% in-house by Meditech     34 years of LIS experience	fully integrated applications     developed 100% in-house by Meditech     34 years of LIS experience	<ul> <li>financial stability</li> <li>over 20 years in market with large user base</li> <li>all service, installation, and support conducted by blood banker</li> </ul>
		• 34 years of Lio experience	5 34 years of LIS experience	

7				
	Part 4 of 6	Mediware Information Systems Inc. Joe Tehan joe.tehan@mediware.com 4545 Fuller Drive, Ste. 360	Mediware Information Systems Inc. Joe Tehan joe.tehan@mediware.com 4545 Fuller Drive, Ste. 360	Mediware Information Systems Inc. Joe Tehan joe.tehan@mediware.com 4545 Fuller Drive, Ste. 360
;		Irving, TX 75038 972-536-2909 www.mediware.com	Irving, TX 75038 972-536-2909 www.mediware.com	Irving, TX 75038 972-536-2909 www.mediware.com
h	Name of blood bank system	Hemocare LifeLine (HCLL)	LifeLine Blood Bank Data Management System	LifeTrak
Г	First ever blood bank system installation	1978	1978	1978
	First/most recent system installation (for current release)	_	2000/2002	1999/2003
		2	180	5
	olo noophalo aono ana nano aono oo noo	0	_	_
		2	_	_
		0	_	_
		0	_	_
	3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	0	_	<del>-</del>
		2† —†	180	6
'	Installations underway that are not yet live (hospitals/regional blood centers)	<b>—</b> I	_	2 (0/2)
1		100%	100%	100%
-	Staff to develop/install/support/other*			
	•In entire company/in blood bank systems *other=sales, marketing, administration, other co. functions	39-26-41-69/19-8-21-23	39-26-41-69/19-8-21-23	39-26-41-69/19-8-21-23
		1 v 25	2	2
		v. 2.5 n/a	_	n/a
ı	Range in No. of terminals/workstations in live sites (ave.)	1–8	1-36 (ave. 6)	12-60 (ave. 30)
•		Dell, Compaq models qualified, models based	PC server–Compaq, HP, others	HP 9000 series, Intel-based servers
	•Terminals/workstations	on user configuration PC–Gateway, Micron qualified	PC-Compaq, HP, others	PCs
Ľ	•Central hardware redundant/fault-tolerant?	yes	yes	yes
	Software	Manual O. M. C	Outstands	Overla Bar I Company
		Visual C++, VB w/component architecture Windows 2000 server, 2000 advance server,	Quick Basic Novell, NT	Oracle Developer 2000, PL/SQL HP-UX, Linux
Ι'		windows 2000 server, 2000 advance server, workstations–2000 Professional	Novell, N I	HP-UX, LINUX
,		SQL server 2000, Seagate Crystal Reports 8.0	Btrieve	Oracle
Ľ	•Full transaction logging?	yes	no	yes
F	Features (listed as a percentage of live installations, or as "installed" if No. of sites operational is unknown, or as "available but no installations," or "not available")			
،	•	installed	100%	80%
	· · · · <b>· ·</b> · · · · · · · · · · · · ·	installed	100%	80%
		installed	100%	not available
ı		installed installed	not available 100%	80%
		not available	40%	80%
		not available	30%	60%
	· · · · · · · · · · · · · · · · · · ·	not available	_	100%
		not available installed	 100%	80% 80%
		installed	75%	installed
	•Accounts receivable	_	not available	not available
١	•Management reports	installed	100%	100%
	•Direct entry of test results	<del>_</del>	<del>-</del>	<del>-</del>
	• • • • • • • • • • • • • • • • • • • •	installed not available	not available 30%	not available installed
	• •	installed	100%	100%
		installed	100%	installed
	• • • •	not available	not available	not available
_,	Sustam provides standard ASTM/ULT interface?	Vac	Vac	_
		yes telnet, local client, remote client	yes local client, remote client	telnet, local client, remote client
	· · · · · · · · · · · · · · · · · · ·	validation scripts, consultation services	test templates and scripts	telephone support, contracted services,
				validation templates
	Osuvalata bland hault 400 lutture			
	•	no —	no 	no 
( !	Complete blood bank ASP solution? Method of charging for ASP service Client software required	no  	no  	no  
() () ()	Method of charging for ASP service Client software required ASP information conduit	no  	no — —	no  
0 4	Method of charging for ASP service Client software required ASP information conduit	no   	no   	no   
() () () () ()	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code?	_ _ _ _ _	no — — — — — — — — — no no	no
() () () () () () () ()	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation? HIS interfaces	no no any vendor that supports HL7 protocol	no no Siemens, Misys, McKesson, Cerner, SCC, others	
() () () () () () () ()	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces	    no		    no
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group?	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others yes	
(	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group?  Source code?	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes escrow	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others yes escrow	no no none — yes escrow
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group? Source code? Can user modify screens?	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes escrow yes	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others yes escrow yes	no no no yes escrow no
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group? Source code? Can user modify screens?	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes escrow	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others yes escrow	no no none — yes escrow
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group? Source code? Can user modify screens? User-defined report writer?/custom programming?  Cost (hardware/software/monthly maintenance)	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes escrow yes yes/yes	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others yes escrow yes yes/yes	no no no no yes escrow no yes/no
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group? Source code? Can user modify screens? User-defined report writer?/custom programming?  Cost (hardware/software/monthly maintenance)  Smallest	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes escrow yes	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others yes escrow yes	no no no yes escrow no
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group? Source code? Can user modify screens? User-defined report writer?/custom programming?  Cost (hardware/software/monthly maintenance)  Smallest Largest	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes escrow yes yes/yes \$10k/\$35k/\$0.8k \$80k/\$300k/\$7k	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others  yes escrow yes yes/yes  \$8k/\$20k/\$0.5k	
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group? Source code? Can user modify screens? User-defined report writer?/custom programming?  Cost (hardware/software/monthly maintenance)  Smallest  Largest  Distinguishing features (supplied by vendor)	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol yes escrow yes yes/yes \$10k/\$35k/\$0.8k	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others  yes escrow yes yes/yes  \$8k/\$20k/\$0.5k \$75k/\$100k/\$2k  • no downtime backup • integrated module	
	Method of charging for ASP service Client software required ASP information conduit Client contracts supported from data center not operated by client How data center is operated  System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?  HIS interfaces LIS interfaces User group? Source code? Can user modify screens? User-defined report writer?/custom programming?  Cost (hardware/software/monthly maintenance)  Smallest  Largest  Distinguishing features (supplied by vendor)	no no any vendor that supports HL7 protocol any vendor that supports HL7 protocol  yes escrow yes yes/yes  \$10k/\$35k/\$0.8k \$80k/\$300k/\$7k  • real-time patient, inventory & testing monitors	no no Siemens, Misys, McKesson, Cerner, SCC, others Siemens, Misys, McKesson, Cerner, SCC, others  yes escrow yes yes/yes  \$8k/\$20k/\$0.5k \$75k/\$100k/\$2k  • no downtime backup	

Part 5 of 6				
1		Misys Healthcare Ken Kark ken.kark@misyshealthcare.com 4801 E. Broadway Blvd.	Misys Healthcare Ken Kark ken.kark@misyshealthcare.com 4801 E. Broadway Blvd.	Psyche Systems Corp. Patricia Salem pattys@psychesystems.com 321 Fortune Blvd.
See accompany	ying article on page 38	Tucson, AZ 85711 520-570-2000 www.misyshealthcare.com	<b>Tucson, AZ 85711 520-570-2000</b> www.misyshealthcare.com	Milford, MA 01757 800-345-1514 www.psychesystems.com
Name of blood ba	ank system	Misys Blood Bank-Donor	Misys Blood Bank-Transfusion	LabWeb-SBB
	bank system installation	1985	1985	1975
First/most recent	t system installation (for current release)	2001/2003	2001/2003	1975/2003
Total number of o	contracts for operational sites	38	392	6
•U.S. hospitals—	-donor and transfusion service	_	40	0
	-transfusion service only	_	352	6
	ood centers—donor service only		0	0
	ood centers—donor and transfusion service		0	0
		_	· ·	0
	sfusion services in the U.S.	_	0	0
	ls/foreign regional blood centers	_	9	0
Total number of s	sites operational	38	377	6
Installations unde	erway that are not yet live	2 (2/0)	15 (15/0)	4 (4/0)
	onal blood centers)		` '	• •
	stallations that are stand-alone systems	0	0	0
Staff to dovolon/i	inetall/cunnert/athor*			
	install/support/other*	400 400+ 475/0 4 0 0	400 4004 475/0 4 0 0	0.45.40.0/4.0.5.0
	ny/in blood bank systems	400-430†-175/8-4-6-2	400-430†-175/8-4-6-2	9-15-10-6/4-8-5-3
*other=sales, ma	arketing, administration, other co. functions			
No. of different ve	ersions of software installed	1	1	1
l	duct covered by FDA 510(k) clearance	_	_	SBB v. 6.4
	duct that did not require FDA 510(k) clearance	0	_	n/a
	and the most regains to be of office of the			
Rango in No. of to	erminals/workstations in live sites (see )	4-500+ (ave 15-20)	/_500± (ave 15_20)	2_20 (ave 6)
naliye ili NO. OT to	erminals/workstations in live sites (ave.)	4-500+ (ave. 15-20)	4–500+ (ave. 15–20)	2–20 (ave. 6)
	, ,	UB ALL IPPERATOR	UD AL L. IDEA DO MOTO	WD 41.1
	re/computer platform or services	HP Alpha, IBM RS/6000	HP Alpha, IBM RS/6000	HP Alpha server
•Terminals/works	stations	PCs, terminals	PCs, terminals	Windows compatible
•Central hardwar	re redundant/fault-tolerant?	on request	on request	yes
		•		
Software				
Programming la	(a)ancunne	Open M, Caché, C, C++	Open M, Caché, C, C++	Fortran
		• • •		
•Operating system		DEC Unix, Open VMS, AIX	DEC Unix, Open VMS, AIX	Open VMS
Database platfor		Intersystems M, Caché	Intersystems M, Caché	Oracle/SQL server
•Full transaction	logging?	yes	yes	yes
Features (listed a	as a percentage of live installations, or as "installed"			
	perational is unknown, or as "available but no			
	•			
	or "not available")	1000/	1000/	1000/
•Unit inventory		100%	100%	100%
<ul> <li>Autologous and</li> </ul>	directed unit tracking	100%	100%	100%
Crossmatch resi	•	100%	100%	100%
	labels—bar coded	not available	not available	100%
	ISBT 128 unit labeling	100%	100%	100%
<ul> <li>Donor recruitme</li> </ul>	ent	15%	15%	not available
•Mobile schedulii	ing	not available	not available	not available
	utomated type and screen instruments	available in 2003	available in 2003	not available
	ed plasma management	100%	100%	not available
	ng wherever donor number is entered	100%	100%	100%
•Ad hoc report w		100%	100%	100%
Accounts receive	/able	100% (charge capture)	100% (charge capture)	not available
•Management rep	ports	100%	100%	100%
•Direct entry of to	•			100%
		available in 2003	available in 2003	100%
	smatch decisionmaking			
	nobile donor registration module	not available	not available	not available
<ul> <li>Track all steps i</li> </ul>	in production of product	100%	100%	100%
Antigen typing		100%	100%	100%
	olood irradiator/centrifuges	not available	not available	not available
		aranabio	aranani	
	standard ASTM/HI 7 interface?	VAS	VAC	VAC
System provides	standard ASTM/HL7 interface?	yes	yes	yes
l .			Admak Jacob ellent ment to the t	-
Connectivity		telnet, local client, remote client	telnet, local client, remote client	telnet, local client, remote client
Connectivity	ents validate their systems	validation protocols and guidelines, Misys	validation protocols and guidelines, Misys	-
Connectivity	ents validate their systems	· · · · · · · · · · · · · · · · · · ·		telnet, local client, remote client
Connectivity	ents validate their systems	validation protocols and guidelines, Misys	validation protocols and guidelines, Misys	telnet, local client, remote client
Connectivity Tools to help clie	ents validate their systems	validation protocols and guidelines, Misys	validation protocols and guidelines, Misys	telnet, local client, remote client documentation, training
Connectivity Tools to help clief	pank ASP solution?	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training
Connectivity Tools to help clie  Complete blood b Method of chargin	pank ASP solution? ing for ASP service	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training  yes fixed fee
Connectivity Tools to help clied Complete blood b Method of chargin	pank ASP solution? ing for ASP service equired	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training  yes fixed fee browser based
Connectivity Tools to help clied Complete blood b Method of chargin	pank ASP solution? ing for ASP service equired	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private
Connectivity Tools to help clied Complete blood b Method of chargin Client software re ASP information of	pank ASP solution? ing for ASP service equired conduit	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit
Connectivity Tools to help clied  Complete blood b Method of chargin Client software re ASP information of	pank ASP solution? ing for ASP service equired	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private
Connectivity Tools to help clied Complete blood b Method of chargin Client software re ASP information of	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit
Connectivity Tools to help clied  Complete blood b Method of chargin Client software re ASP information of	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client	validation protocols and guidelines, Misys Healthcare Consulting	validation protocols and guidelines, Misys Healthcare Consulting	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2
Connectivity Tools to help clied  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor
Connectivity Tools to help clied  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code?	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor
Connectivity Tools to help clied  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor
Connectivity Tools to help clied  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center if System provides Provide LOINC dic	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code?	validation protocols and guidelines, Misys Healthcare Consulting  no  — — — — — no — no —	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center if System provides Provide LOINC did HIS interfaces	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code?	validation protocols and guidelines, Misys Healthcare Consulting  no  no McKesson, Meditech, IDX, Cerner, Eclipsys, others	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center if System provides Provide LOINC dic	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code?	validation protocols and guidelines, Misys Healthcare Consulting  no  — — — — — no — no —	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in System provides Provide LOINC did HIS interfaces	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code?	validation protocols and guidelines, Misys Healthcare Consulting  no  no McKesson, Meditech, IDX, Cerner, Eclipsys, others	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in System provides Provide LOINC did HIS interfaces LIS interfaces	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code?	validation protocols and guidelines, Misys Healthcare Consulting  no  no McKesson, Meditech, IDX, Cerner, Eclipsys, others n/a	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in System provides Provide LOINC did HIS interfaces LIS interfaces User group?	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code?	validation protocols and guidelines, Misys Healthcare Consulting  no no McKesson, Meditech, IDX, Cerner, Eclipsys, others n/a yes (meets online as well)	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces User group? Source code?	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces User group? Source code? Can user modify s	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes
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Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined repo	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming?	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined repo	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined repo	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming?	validation protocols and guidelines, Misys Healthcare Consulting  no — — — no — McKesson, Meditech, IDX, Cerner, Eclipsys, others n/a  yes (meets online as well) escrow no yes/yes	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces LIS interfaces Can user modify s User-defined repo  Cost (hardware/s Smallest	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming?	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no  \$10k/\$10k/\$0.15k
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in System provides Provide LOINC did HIS interfaces LIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined repo	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming?	validation protocols and guidelines, Misys Healthcare Consulting  no — — — no — McKesson, Meditech, IDX, Cerner, Eclipsys, others n/a  yes (meets online as well) escrow no yes/yes	validation protocols and guidelines, Misys Healthcare Consulting  no	yes fixed fee browser based operates over Internet, requires use of private dedicated circuit by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined report  Cost (hardware/s Smallest Largest	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming? software/monthly maintenance)	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no  \$10k/\$10k/\$0.15k \$100k/\$50k/\$0.5k
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined report  Cost (hardware/s Smallest Largest	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming?	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no  \$10k/\$10k/\$0.15k
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined report  Cost (hardware/s Smallest Largest	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming? software/monthly maintenance)	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no  \$10k/\$10k/\$0.15k \$100k/\$50k/\$0.5k
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined report  Cost (hardware/s Smallest Largest	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming? software/monthly maintenance)	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no  \$10k/\$10k/\$0.15k \$100k/\$50k/\$0.5k  • complete hosting system for all lab departments
Connectivity Tools to help clief  Complete blood b Method of chargin Client software re ASP information of Client contracts s How data center in  System provides Provide LOINC did  HIS interfaces LIS interfaces User group? Source code? Can user modify s User-defined report  Cost (hardware/s Smallest Largest	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming? software/monthly maintenance)	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no  \$10k/\$10k/\$0.15k \$100k/\$50k/\$0.5k  • complete hosting system for all lab departments • stand-alone offering
Connectivity Tools to help clief  Complete blood by Method of charging Client software real ASP information of Client contracts show data center in System provides Provide LOINC did HIS interfaces  LIS interfaces  User group? Source code? Can user modify should be user modify should be user modify should be user smallest  • Smallest • Largest	pank ASP solution? ing for ASP service equired conduit supported from data center not operated by client is operated indexed field in each test definition for LOINC code? ctionary for each new installation?  screens? ort writer?/custom programming? software/monthly maintenance)	validation protocols and guidelines, Misys Healthcare Consulting  no	validation protocols and guidelines, Misys Healthcare Consulting  no	telnet, local client, remote client documentation, training  yes fixed fee browser based operates over Internet, requires use of private dedicated circuit 2 by vendor  yes no  Meditech, Siemens, McKesson, Misys, others LabWeb  yes escrow yes yes/no  \$10k/\$10k/\$0.15k \$100k/\$50k/\$0.5k  • complete hosting system for all lab departments

Part 6 of 6	SCC Soft Computer Ellie Vahman ellie@softcomputer.com 34350 U.S. Hwy. 19 North Palm Harbor, FL 34684	Wyndgate Technologies Patti Larson patti@wyndgate.com 4925 Robert J. Mathews Parkway, Ste. 100 El Dorado Hills, CA 95762	Wyndgate Technologies Patti Larson patti@wyndgate.com 4925 Robert J. Mathews Parkway, Ste. 100 El Dorado Hills, CA 95762
See accompanying article on page 38	<b>727-789-0100</b> www.softcomputer.com	800-WYNDGATE www.wyndgate.com	800-WYNDGATE www.wyndgate.com
Name of blood bank system	SoftBank II	SafeTrace	SafeTrace Tx
First ever blood bank system installation	1992	1996	1996
First/most recent system installation (for current release)	2003/2003	1996/2003	1999/2003
Total number of contracts for operational sites	107	32	57
•U.S. hospitals—donor and transfusion service	0	5	5
•U.S. hospitals—transfusion service only	101	0	41
•U.S. regional blood centers—donor service only	0	19	0
U.S. regional blood centers—donor and transfusion service     Controlling transfusion convices in the U.S.	0	8 0	b 4
Centralized transfusion services in the U.S.     Foreign hospitals/foreign regional blood centers	6	0	4
Total number of sites operational	143	31	33
Installations underway that are not yet live	17 (17/0)	1 (0/1)	24 (19/5)
(hospitals/regional blood centers)	(,	()	()
Percentage of installations that are stand-alone systems	2.7%	100%	100%
Staff to develop/install/support/other* •In entire company/in blood bank systems *other=sales, marketing, administration, other co. functions	435-84-215-161/15-5-5-2	17-9-6-19/—	17-9-6-19/—
No. of different versions of software installed  •Versions of product covered by FDA 510(k) clearance  •Versions of product that did not require FDA 510(k) clearance	3 SoftBank II v. 19.1, 22, 23 none	— all none	 all none
Range in No. of terminals/workstations in live sites (ave.)	1–90+ (ave. 8)	3–200 (ave. 45)	1–75 (ave. 8)
0-4-14	IDM -0	UD IDM Com	latel based
Central hardware/computer platform or services	IBM pSeries F620 model 6F1, HP	HP, IBM, Sun	Intel-based servers
•Terminals/workstations	PCs or ASCII terminals, Wyse	PCs, dumb terminals	PCs
Central hardware redundant/fault-tolerant?	yes	yes	yes
Software			
Programming language(s)	C	Delphi, Oracle, PL/SQL, Cold Fusion, C++	Delphi, SQL
Operating system(s)	Unix	Unix	Windows NT, 2000
Database platform	Centura's Raima-db-Vista	Oracle RDBMS	Oracle
•Full transaction logging?	yes	yes	yes
if No. of sites operational is unknown, or as "available but no installations," or "not available")  •Unit inventory  •Autologous and directed unit tracking  •Crossmatch results  •Print donor unit labels—bar coded  •Full support of ISBT 128 unit labeling  •Donor recruitment  •Mobile scheduling  •Interface with automated type and screen instruments  •Source/recovered plasma management  •Bar-code reading wherever donor number is entered	100% 100% 100% 100% 70% 100% not available 2% — 100%	100% 100% not available installed installed installed installed installed installed installed installed	100% 100% 100% installed installed not available not available installed not available
•Ad hoc report writer	100%	installed	installed
Accounts receivable	95%	installed	not available
Management reports	100%	100%	100%
•Direct entry of test results	100%	installed	100%
Electronic crossmatch decisionmaking	70%	not available	installed
Laptop-based mobile donor registration module     Track all standing are disabled as a residual.	1000/	installed	not available
Track all steps in production of product     Antigon typing	100% 100%	100% 100%	100% 100%
Antigen typing     Interface with blood irradiator/centrifuges	available in Dec. 2003	not available	not available
-interface with blood irradiator/centinages	available iii bee. 2000	not available	not available
System provides standard ASTM/HL7 interface? Connectivity Tools to help clients validate their systems	yes telnet, local client critical central points and instructions on how to write test cases w/ electronic screen capture	yes remote client validation plan for all safety critical checks, sample test cases	yes local client, remote client validation guide, templates, validation test plan for safety critical control checks
Complete blood bank ASP solution?	yes	ves	yes
Method of charging for ASP service	fixed fee	yes transaction based	transaction based
Client software required	requires software be installed on client PC	requires software be installed on client PC,	browser based
ASP information conduit	operates over Internet	uses dumb terminals operates over Internet, requires use of private, dedicated circuit or VPN connection	operates over Internet, requires use of private, dedicated circuit or VPN connection
Client contracts supported from data center not operated by client How data center is operated	1 by vendor	1 by a third party (Hemo-Net)	<u> </u>
System provides indexed field in each test definition for LOINC code? Provide LOINC dictionary for each new installation?	no no	no no	no no
HIS interfaces LIS interfaces	Meditech, McKesson, Siemens, IDX, CPSI, others SCC, McKesson, Meditech, Misys, Cerner, others	n/a n/a	CCA, Keane, Meditech, McKesson, others CCA, CPSI, Meditech, McKesson, Siemens, other
Heav evenue	Nee (meete culing asIII)	yee (masks suling aIII)	use (masks selling service)
User group?	yes (meets online as well)	yes (meets online as well)	yes (meets online as well)
Source code? Can user modify screens?	escrow	escrow	escrow
User-defined report writer?/custom programming?	no yes/yes	no yes/yes	no yes/yes
ooo. coming report writer rougioni programming:	, o.o., y oo	, co, , co	, 30, , 90
Cost (hardware/software/monthly maintenance) •Smallest •Largest	\$30k/\$30k/\$0.6k \$75k/\$150k/\$3k	Ξ	=
Distinguishing features (supplied by vendor)	unit recall documentation	outstanding record of safety, compliance	patent pending for advanced CTS and
Capping at Tollier	electronic crossmatch     multi-site inventory	complete Vein-to-Vein tracking     excellent training and implementation services	transfusion service functionality comprehensive Vein-to-Vein tracking excellent safety, compliance & service record