## Middleware Survey'09

- 1) What is the name of your company's middleware product?
- 2) When did your first middleware installation go live?
- 3) When was the most recent upgrade?
- 4) Does your middleware interface with:

- 5) What are the three most important needs/LIS gaps that your middleware can fill?
- 6) What is your pricing structure?
- 7) How are new users trained?
- 8) In addition to traditional technical support, what resources are available to help users resolve questions?
- 9) Describe how your middleware differs from competing products.

## 4medica

**Doug Hart** marketing@4medica.com (310) 695-3300 www.4medica.com

4medica Laboratory Suite (Lab4/Path4)

23,000+ installations

2009

- ☐ bedside/handheld ID devices? □ blood banking systems?
- central data repositories?
- electronic medical records?
- hospital information systems?
- laboratory automation systems?laboratory information systems?
- microbiology systems? ■ pharmacy systems?
- physician office management
- systems? ■ point-of-care testing
- instruments? ☐ public health surveillance
- systems/registries? ■ reference laboratories?
- reporting systems (administrative/financial/compliance/QA)?

Complete integration with LIS and

EMR/PMS/HIS systems; secure

Web-based service leveraging

existing hardware and reducing

costs; 2D bar code automation

4medica costs include implemen-

tation fees based on customer

which can be configured as a

configuration and recurring fees,

transaction model or subscription

4medica offers training in a "train

the trainer" approach to enable a

key hospital and laboratory staff

member to become the resident

expert and provide in-services for

the new physicians as needed.

4medica's support team is avail-

able by phone and e-mail 24/7.

within the application.

Online assistance is also available

with container IDs, auto print

- specimen-tracking systems? ☐ stand-alone automated instruments?
- other?

functionality.

model.

**Antek HealthWare** 

**Paul Taylor** ptaylor@antekhealthware.com (800) 359-0911, ext 3 www.antekhealthware.com

LabDAQ MiddleWare

39 installations June 2008

- September 2009
- □ bedside/handheld ID devices? □ blood banking systems?
- ☐ central data repositories?
- electronic medical records?
- hospital information systems? ☐ laboratory automation systems?
- ☐ laboratory information systems? ☐ microbiology systems?
- pharmacy systems? physician office management
- systems? point-of-care testing
- instruments? □ public health surveillance systems/registries?
- reference laboratories?
- ☐ reporting systems (administrative/financial/compliance/QA)? specimen-tracking systems?

LabDAQ MiddleWare is designed to

provide waived analyzers with EMR

connectivity. LabDAQ MiddleWare

analyzers to LabDAQ MiddleWare.

LabDAQ MiddleWare will then send

the data from the waived analyzers

MiddleWare is \$5,400 and includes

lyzer interfaces, demographic and

results interface to the EMR, com-

Antek provides on-site training to

set up the system and connect

the analyzers. Personnel are not

required to leave the facility for

There is an online user group with

training videos and an open forum

for users to ask questions of other

LabDAQ users. Web-based training

is also available.

two unidirectional waived ana-

puter, printer, and day on-site

will connect to the waived ana-

lyzers and send data from the

The base price of LabDAQ

- stand-alone automated instruments?
- □ other?

to the EMR.

**Dawning Technologies** 

Jay Sax sales@dawning.com (800) 332-0499 www.dawning.com

JResultNet Interface Engine Software

2,000+ installations

- 2009
- ☐ bedside/handheld ID devices?
- blood banking systems?
- central data repositories?
- electronic medical records?
- hospital information systems?
- laboratory automation systems?laboratory information systems?
- microbiology systems?
- pharmacy systems?
- physician office management systems?
- point-of-care testing instruments?
- public health surveillance systems/registries?
- reference laboratories? ■ reporting systems (administra-
- tive/financial/compliance/QA)?
- specimen-tracking systems?
- stand-alone automated instruments?

JResultNet increases efficiency

rules-based processing, easily

and improves operations through

constructed using Dawning's new

rules-development kit; provides

real-time QC analysis; and facili-

tates compliance and regulation

with extensive audit and correction

u other?

action logs.

**Dawning Technologies** 

Jay Sax

sales@dawning.com (800) 332-0499 www.dawning.com

Javal in interfaces

2,500+ installations 1984

2009

- ☐ bedside/handheld ID devices? ■ blood banking systems?
- central data repositories? electronic medical records?
- hospital information systems?laboratory automation systems?
- laboratory information systems?
- microbiology systems?
- pharmacy systems?
- physician office management
- systems? ■ point-of-care testing
- instruments? ■ public health surveillance
- systems/registries? ■ reference laboratories? ■ reporting systems (administra-
- tive/financial/compliance/QA)?
- specimen-tracking systems? stand-alone automated instruments?
- ☐ other?

JavaLin interfaces are used for individual or remote instrument interfaces, removing the need for a terminal server; and acts as a Linux-based gateway device to secure sensitive instruments on a large network.

Dawning's pricing is scaled per middleware solution ranging from single-instrument connections to multiple-instrument enterprise solutions

Comprehensive documentation and training materials; on-site, Web-based, and classroom-style training services. Dawning also offers a number of free training

seminars.

solutions

Free troubleshooting training seminars, extensive documentation, and access to our knowledge base.

JResultNet is hardware independent, OS independent, and uses Java-based object-oriented programming. JResultNet offers users unique tools such as the new RDK, basic data mining search engine, and the Dawning DataMiner

In addition to providing comprehensive documentation, we offer on-site, Web-based, and classroom-style training services.

Dawning's pricing is scaled per middleware solution ranging from

single-instrument connections to

multiple-instrument enterprise

Dawning offers users troubleshooting training seminars, extensive documentation, and access to our knowledge base.

The JavaLin offers flexible protocols, a large library of applications, Web services, and others without a PC manager required. Dawning's Java Instrument Driver Module Library contains over 1,000 instrument applications.

Unique, easy to use, intuitive user interface; complete integration with practice systems, ePrescribe, inpatient integration, radiology, dictation, and more; registration to billing systems simplified pricing structure; flexible configurations.

LabDAQ MiddleWare has an existing library of more than 400 analyzer interfaces and numerous EMR interfaces. Users will also have the ability to easily enter noninstrumented lab results, which will export to the EMR software.

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## Fletcher-Flora **Lattice Inc MEDCOM Information Data Innovations** Middleware sales@datainnovations.com **Terry Watson Pat Heniff** Systems Inc pat.heniff@lattice.com **David Baird** (802) 264-3470 fflexelinksales@ Survey'09 (630) 949-3250 dbaird@emirj.com fletcher-flora.com www.datainnovations.com www.lattice.com (847) 885-1553 (714)-349-7513 www.emirj.com www.fletcher-flora.com 1) What is the name of your company's Instrument Manager (IM) MediCopia Lab Manager LIS FFlex eLink WELFORD chart notes EMR middleware product? 2) When did your first middleware 5,000+ installations 8 installations 100+ installations 100+ installations installation go live? January 2008 1992 3) When was the most recent upgrade? December 2008 September 2009 May 2009 June 2009 4) Does your middleware interface with: ■ bedside/handheld ID devices? □ bedside/handheld ID devices? ☐ bedside/handheld ID devices? ■ bedside/handheld ID devices? blood banking systems? □ blood banking systems? ■ blood banking systems? ■ blood banking systems? central data repositories? central data repositories? central data repositories? central data repositories? electronic medical records? electronic medical records? electronic medical records? electronic medical records? ■ hospital information systems? ■ hospital information systems? ■ hospital information systems? ■ hospital information systems? laboratory automation systems?laboratory information systems? ■ laboratory automation systems? ■ laboratory automation systems? ☐ laboratory automation systems? ■ laboratory information systems? ■ laboratory information systems? ☐ laboratory information systems? ☐ microbiology systems? microbiology systems? ■ microbiology systems? ■ microbiology systems? ☐ pharmacy systems? pharmacy systems? ■ pharmacy systems? ■ pharmacy systems? ■ physician office management physician office management ■ physician office management ■ physician office management systems? systems? systems? systems? ■ point-of-care testing point-of-care testing ■ point-of-care testing point-of-care testing instruments? instruments? instruments? instruments? ☐ public health surveillance ■ public health surveillance □ public health surveillance public health surveillance systems/registries? systems/registries? systems/registries? systems/registries? ■ reference laboratories? ■ reference laboratories? ■ reference laboratories? ■ reference laboratories? ■ reporting systems (administrareporting systems (administra-■ reporting systems (administra-☐ reporting systems (administrative/financial/compliance/QA)? tive/financial/compliance/QA)? tive/financial/compliance/QA)? tive/financial/compliance/QA)? specimen-tracking systems? specimen-tracking systems? specimen-tracking systems? ■ specimen-tracking systems? stand-alone automated ☐ stand-alone automated ■ stand-alone automated ■ stand-alone automated instruments? instruments? ☐ other? instruments? instruments? other? ☐ other? ☐ other? 5) What are the three most important It provides solutions for autoveri-FFlex eLink is a cost-effective MediCopia enhances patient Interfacing is one of the most important capabilities, whether its lab analyzers, other EMRs, other needs/LIS gaps that your middleware fication from an easy rules-develsolution for small waived labs safety by eliminating preanalytical specimen labeling errors, improving workflow, and offering fast can fill? opment environment to complete without an LIS providing a direct LIS, or just about anything with turnkey systems for multiple disciinterface with EMR and EHR sys-HL7 capabilities. These will pass plines of the lab. tems. Multiple FFlex eLink systems turnaround. through the MEDCOM proprietary can be linked across multiple sites. with a single EMR/EHR system translator or "Formatter" software. interface. 6) What is your pricing structure? The pricing of MediCopia is very A perpetual license, a base sys-We have pricing based on FFlex eLink pricing includes softtem, and purchase modules for much influenced by the number analyzer interfaces, whether ware, installation, training, and specific functionality. Licenses for support. Instrument interfaces are of users. Software licenses can be Unidirectional or bidirectional and connectivity for instruments pura low flat fee regardless of the based on the number of clients or third-party interfaces, ranging chased individually and repurposed on a site license. from \$1,200 to \$8,500. instrument. at no charge for new instruments. 7) How are new users trained? Basic training is included with Lattice provides on-site train-the-An installation engineer comes on-site for the install and training. New users are trained online by installation of system. Standard trainer sessions conducted over a our experienced staff. The user Customers with third-party interand customized courses are availand trainer interact live and in real period of 3 to 5 days depending on able at our DI training facility, time for quick and easy training. the size of the implementation faces are trained via phone and through new Web-based classes, remote takeover of the customer's or at the customer's location. system. 8) In addition to traditional technical We provide extensive product Unlimited phone support during Customers can personally con-Web-based support ensures that support, what resources are available documentation, online knowledge normal business hours plus 24/7 tact engineering staff for special our customers have immediate to help users resolve questions? bases, a rules library, and Listserv support for those institutions that requests or custom changes. The access to live support repreresources to help resolve sentatives so issues are quickly require night and weekend system is under warranty for a auestions resolved. support. full year required by customers. Additional support is optional. 9) Describe how your middleware (not It received FDA 510(k) clearance FFlex eLink is a complete software MediCopia was the nation's first We pride ourselves as being an your company) differs from competing for the blood bank environment. specimen-collection module interface company. Analyzer intersolution that resides on your PC products. One hundred percent of developwith no special box to purchase. developed in 1996. Since that time faces are completed in 45 minutes Lattice has introduced two additionment is customer driven with two FFlex eLink's versatile user interwith proprietary "formatter softmajor releases on average per face allows for efficient review al product generations. It is easy to ware." Third-party interfaces are completed in weeks. year. of results, age/gender-specific use, offers a tremendous amount of flexibility, and has the most comreference ranges, and rich result plete feature set available.

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commenting.

Roche Aime Chidester aime.chidester@roche.com (317) 521-47760 www.roche-diagnostics.us	Siemens Healthcare Diagnostics Sepehr Seyedzadeh sepehr.seyedzadeh@siemens.com (914) 524-3827 www.siemens.com/diagnostics	Siemens Healthcare Diagnostics Sepehr Seyedzadeh sepehr.seyedzadeh@siemens.com (914) 524-3827 www.siemens.com/diagnostics	Sysmex America Inc Tammy Kutz communications@sysmex.com (847) 996-4500 www.sysmex.com/us
Roche Middleware Solutions (supplied by Data Innovations)	ADVIA CentraLink® Networking Solution	EasyLink™ Informatics System	Sysmex WAM™ Clinical Decision Support Software
700 installations (US only) 1992	N/A December 2001	N/A February 2006	133 contracted installations; 98 in live productive use. February 2004
March 2009	September 2009	July 2009	October 2006
<ul> <li>bedside/handheld ID devices?</li> <li>blood banking systems?</li> <li>central data repositories?</li> <li>electronic medical records?</li> <li>hospital information systems?</li> <li>laboratory automation systems?</li> <li>laboratory information systems?</li> <li>microbiology systems?</li> <li>pharmacy systems?</li> <li>physician office management systems?</li> <li>point-of-care testing instruments?</li> <li>public health surveillance systems/registries?</li> <li>reference laboratories?</li> <li>reporting systems (administrative/financial/compliance/QA)?</li> <li>specimen-tracking systems?</li> <li>stand-alone automated instruments?</li> <li>other?</li> </ul>	<ul> <li>bedside/handheld ID devices?</li> <li>blood banking systems?</li> <li>central data repositories?</li> <li>electronic medical records?</li> <li>hospital information systems?</li> <li>laboratory automation systems?</li> <li>laboratory information systems?</li> <li>microbiology systems?</li> <li>pharmacy systems?</li> <li>physician office management systems?</li> <li>point-of-care testing instruments?</li> <li>public health surveillance systems/registries?</li> <li>reference laboratories?</li> <li>reporting systems (administrative/financial/compliance/QA)?</li> <li>specimen-tracking systems?</li> <li>stand-alone automated instruments?</li> <li>other?</li> </ul>	<ul> <li>bedside/handheld ID devices?</li> <li>blood banking systems?</li> <li>central data repositories?</li> <li>electronic medical records?</li> <li>hospital information systems?</li> <li>laboratory automation systems?</li> <li>laboratory information systems?</li> <li>microbiology systems?</li> <li>pharmacy systems?</li> <li>physician office management systems?</li> <li>point-of-care testing instruments?</li> <li>public health surveillance systems/registries?</li> <li>reference laboratories?</li> <li>reporting systems (administrative/financial/compliance/QA)?</li> <li>specimen-tracking systems?</li> <li>stand-alone automated instruments?</li> <li>other?</li> </ul>	<ul> <li>bedside/handheld ID devices?</li> <li>blood banking systems?</li> <li>central data repositories?</li> <li>electronic medical records?</li> <li>hospital information systems?</li> <li>laboratory automation systems?</li> <li>laboratory information systems?</li> <li>microbiology systems?</li> <li>pharmacy systems?</li> <li>physician office management systems?</li> <li>point-of-care testing instruments?</li> <li>public health surveillance systems/registries?</li> <li>reference laboratories?</li> <li>reporting systems (administrative/financial/compliance/QA)?</li> <li>specimen-tracking systems?</li> <li>stand-alone automated instruments?</li> <li>other?</li> </ul>
Can perform as an LIS during LIS downtime. Programmable rerun, reflex, and serum indices checking; ability to connect to multiple systems, which can aid in the transition from one LIS to another.	Instrument port and data consolidation; advanced autoverification; customizable algorithms based on patient demographics; integrated QC.	Extensive audit trail, real-time data mining for custom reporting; stat, QC, system error, and connectivity alerts; enhanced autoverification with integrated and comprehensive QC package.	Rules engine for hematology with auto-validation ~85%. Multisite/multiLIS capabilities for complete enterprise solution. Displays and stores results, graphics, flags, and manual differential online for 2 years.
Middleware is priced based on features and number of connections.	The ADVIA CentraLink system is licensed and priced according to the configuration.	The EasyLink™ Informatics System license supports up to eight instrument connections with unlimited access through hospi- tal network PCs (25 concurrent users).	Sysmex WAM is configured/priced by hematology test volume, number of instruments, workstations, and multisite connections and automation complexity.
Roche provides a 2-hour Web- based introduction class, 2 days of on-site training, and 3 days of advanced operator training in a classroom setting.	Siemens provides custom on-site training for the ADVIA CentraLink system. Comprehensive Webbased and CD-based training is also available.	Siemens provides custom on-site training. Comprehensive Web-based and classroom training is also available.	One week corporate training at Sysmex followed by on-site train- ing during project implementation. Web-based eLearning Module for pretraining and CEU.
Dedicated, certified IT project managers; large field-based team for installation and configuration.	Educational seminar, audiocon- ference, advanced IT support specialist, and ADVIA. CentraLink networking solution user group.	Advanced IT support specialist with remote access, on-board context-sensitive help and training.	Service and support activities achieved via implementation of secure, remote monitoring system, SNCS.
Supports third-party connectivity; small IT footprint, 128 connections, and 100 concurrent users per server class; large team of certified IT project managers and installation specialists.	Top ranked in "overall satisfaction"; multidiscipline connectivity, multisite networking with broad autoverification capabilities; integrated QC package for Westgard rules and patient-moving average.	Browser-based networking con- nects instruments and sites across the network. Predefined and customizable rule sets, integrating QC rules. Remote diagnostics and automatic software update with alerts.	Sysmex WAM is designed for hematology; supports multiple LISs and multiple sites for true enterprisewide solution; permits standardization of rules and processes, improving quality/continuity of care.

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