The Filmless Revolution

FOCUS: Picture Archive and Communication Systems (PACS)

The filmless revolution
This extract, from a recent PACS study, offers unique insight into the performance, underlying technology, product depth and breadth and “real world” issues facing eight of the leading PACS vendors and their clients as rated at more than 130 of their client sites and from over 300 CIOs, department directors and vendor executives. The full report contains over 250 pages of rankings, commentaries and analysis and was published June 2001 by KLAS.

The driving force behind this report reflects the heightened interest in PACS systems in general and their contributions to the benefits associated with an electronic medical record. Ten healthcare provider organizations, ranging from a 150-bed Acute-Care Hospital to a 7-hospital IDN, sponsored the research. Most of the data in the report focuses on the use of PACS in the radiology department, as few sites are using PACS systems in other departments as can be seen in the departmental use of PACS graph.

PACS networks installed by Agfa, Canon Medical Systems, DR Systems, GE Medical Systems, Kodak Health Imaging, Marconi Medical Systems, Philips and Siemens Medical Solutions were surveyed. With few exceptions, buyers narrow down their choice to 2-3 of these vendors. Several PACS vendors were not included (conscious choice) because they were either a newcomer, or because they do not offer enough of a full PACS solution to be included at this time. All 8 vendors are considered viable solutions in their ability to automate and archive diagnostic images in order to improve clinician access and patient care.

Putting client comments into perspective
The participating vendors supplied KLAS with their customer lists, which contributed to the majority of clients surveyed. Clients surveyed in the study varied widely in size, ranging from 50-2000 beds, however, forty-six percent (46%) of those surveyed were over 400 beds.

The customers represented a broad cross-
section of PACS users, ranging from 10% to 95% filmless, with large-scale users making up the majority of respondents. Each of the customers were asked to numerically rate their vendor on 28 aspects of performance, as well as answer 12 questions relating to customer satisfaction.

14 Primary Indicators of Performance
Lived Up to Expectations
Vendor Is Improving
Proactive Service
Quality: Money’s Worth
Commitment to Technology
Executives Interested in You
Good Contracting Experience
Product Works as Expected
Quality of Training
Quality of Implementation
Quality of Telephone Support
Quality of Interface Services
3rd Party Product Works w/Vendor Products
Helps Your Job Performance

14 Detailed Performance Indicators
Worth the Effort
Real Problem Resolution
Good Job Selling
Product Quality Rating
Implementation on Time
Implementation within Budget
Quality of Implementation Staff
Quality of Documentation
Quality of Releases & Updates
S/W Errors Corrected Quickly
Interfaces Met Deadlines
Quality of Custom Work
Hardware Vendor Satisfaction
Response Times

12 Key Indicators of Satisfaction
Implemented in the Last 3 Years
Core Part of IS Plan
Would you buy it again?
Avoids Nickel and Diming
Keeps All Promises
A Fair Contract
Contract is Complete
Contract Administered Fairly
Timely Enhancement Releases
Support Costs as Expected
Ranked Client’s Best Vendor
Ranked Client’s Second Best Vendor

While Philips enjoys the top overall rating each vendor has strong points reflected in the comparison, and 7 of the 8 vendors were rated at least first or second in some category.

Select key business indicators
The following graph represents the survey results of select key business indicators measured.
Why Vendors are typically selected:

<table>
<thead>
<tr>
<th></th>
<th>Agfa</th>
<th>Canon</th>
<th>DR Systems</th>
<th>GE Medical</th>
<th>Kodak</th>
<th>Marconi</th>
<th>Philips</th>
<th>Siemens</th>
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<tbody>
<tr>
<td>Price</td>
<td>7%</td>
<td>33%</td>
<td>30%</td>
<td>0%</td>
<td>19%</td>
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<td>Functionality/Ease of use</td>
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<td>8%</td>
<td>22%</td>
<td>9%</td>
<td>18%</td>
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<tr>
<td>Technology</td>
<td>21%</td>
<td>19%</td>
<td>9%</td>
<td>17%</td>
<td>19%</td>
<td>11%</td>
<td>0%</td>
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<tr>
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<td>10%</td>
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<td>4%</td>
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<td>0%</td>
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<tr>
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<td>10%</td>
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<td>0%</td>
<td>6%</td>
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<tr>
<td>Relationship/Partnering</td>
<td>7%</td>
<td>5%</td>
<td>4%</td>
<td>22%</td>
<td>35%</td>
<td>28%</td>
<td>45%</td>
<td>18%</td>
</tr>
<tr>
<td>Company Size/Track Record</td>
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<td>0%</td>
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<tr>
<td>Site Visit/References</td>
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<tr>
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<tr>
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<tr>
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</tr>
</tbody>
</table>

**Note: Percentages may not equal 100 percent because of rounding.

Why Vendors are typically not selected:

<table>
<thead>
<tr>
<th></th>
<th>Agfa</th>
<th>Canon*</th>
<th>DR Systems*</th>
<th>GE Medical</th>
<th>Kodak</th>
<th>Marconi*</th>
<th>Philips*</th>
<th>Siemens</th>
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<tbody>
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<tr>
<td>Functionality/Ease of use</td>
<td>3%</td>
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<td>17%</td>
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<tr>
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<td>0%</td>
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<tr>
<td>Relationship/Partnering</td>
<td>14%</td>
<td>0%</td>
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<td>9%</td>
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</tr>
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<td>Company Size/Track Record</td>
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<tr>
<td>Workflow</td>
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<td>0%</td>
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</tr>
<tr>
<td>Vision</td>
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<td>0%</td>
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<tr>
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<td>0%</td>
<td>0%</td>
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</tr>
</tbody>
</table>

*Canon, DR, Marconi and Philips were not included in many of the selections. Lack of visibility is one of the main reasons these vendors were not selected.

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count partial implementations, mini-PACS, teleradiology, etc. As qualified, as it may seem, it is of interest to understand, as best as possible a vendor’s market share. The following pie chart represents the market share for the 8 vendors that qualified for assessment in this specific study.

Offer to Canadian Healthcare Facilities
Many Canadian Healthcare facilities and organizations use vendors who supply solutions unique to Canada. KLAS – the organization rating IT vendors in this and subsequent issues of ElectronicHealthcare – is willing to gather confidential and candid data from Canadian healthcare executives and provide access to the results to the all data contributors. The vehicle that will be used is the web based KLAS vendor evaluation form found at www.healthcomputing.com under “rate your vendor” button. If you are interested in participating please contact Mr. Ralph Reyes Jr., Senior Vice President, KLAS Enterprises LLC. Telephone: 866-268-9438. Email: ralph@healthcomputing.com.

If you have comments, suggestions or questions about this vendor-rating feature please send an email to editors@longwoods.com.

ADDENDUM
Due to its beginning focus on select aspects of PACS (mini-PACS), and later entry into the enterprise PACS market, A.L.I. Technologies Inc. (ALI) was not originally included as part of the original June 2001 KLAS PACS study. Furthermore due to its relative “newness” in the market and focus on select aspects of PACS, Stentor’s iSite™ was not originally included as part of the original June 2001 KLAS PACS study.

Upon issuance of the report, however, both ALI and Stentor asked that a similar assessment be made of the their products and included as an addendum to the June 2001 KLAS PACS study. An addendum representing research performed in September 2001 in response to the ALI and Stentor requests is available at www.ElectronicHealthcare.net. The reviews represent assessments from 10 provider organizations for ALI and 18 provider organizations for Stentor.

ABOUT KLAS
Who We Are
KLAS, founded in 1996, is the only research and consulting firm specializing in monitoring and reporting the performance of Healthcare Information Technology (HIT) vendors. Our staff and advisory board average 25 years of healthcare information technology experience.

How We Serve the Healthcare Industry
KLAS, in concert with thousands of Healthcare Executives, CIOs, Directors, Managers and Clinicians has created a dynamic database of information on the performance of HIT vendors. The KLAS database represents the opinions of healthcare executives, managers and clinicians from over 3000 healthcare facilities on 180+ vendors and 300+ different products. The information is continually refreshed with new performance evaluations and interviews daily. The KLAS database is dynamically and effectively used by:

• Healthcare organizations to align expectations with a vendor’s actual performance, to assist in strategic planning and to validate decision processes.

• Vendors to monitor their performance in comparison with competitors.

• Consultants for current performance information on a specific company or product.

• Healthcare investment firms to evaluate publicly traded HIT company trends.

Contact KLAS at www.healthcomputing.com or 866-268-9438.