The Pathology Company

Leica
BIOSYSTEMS
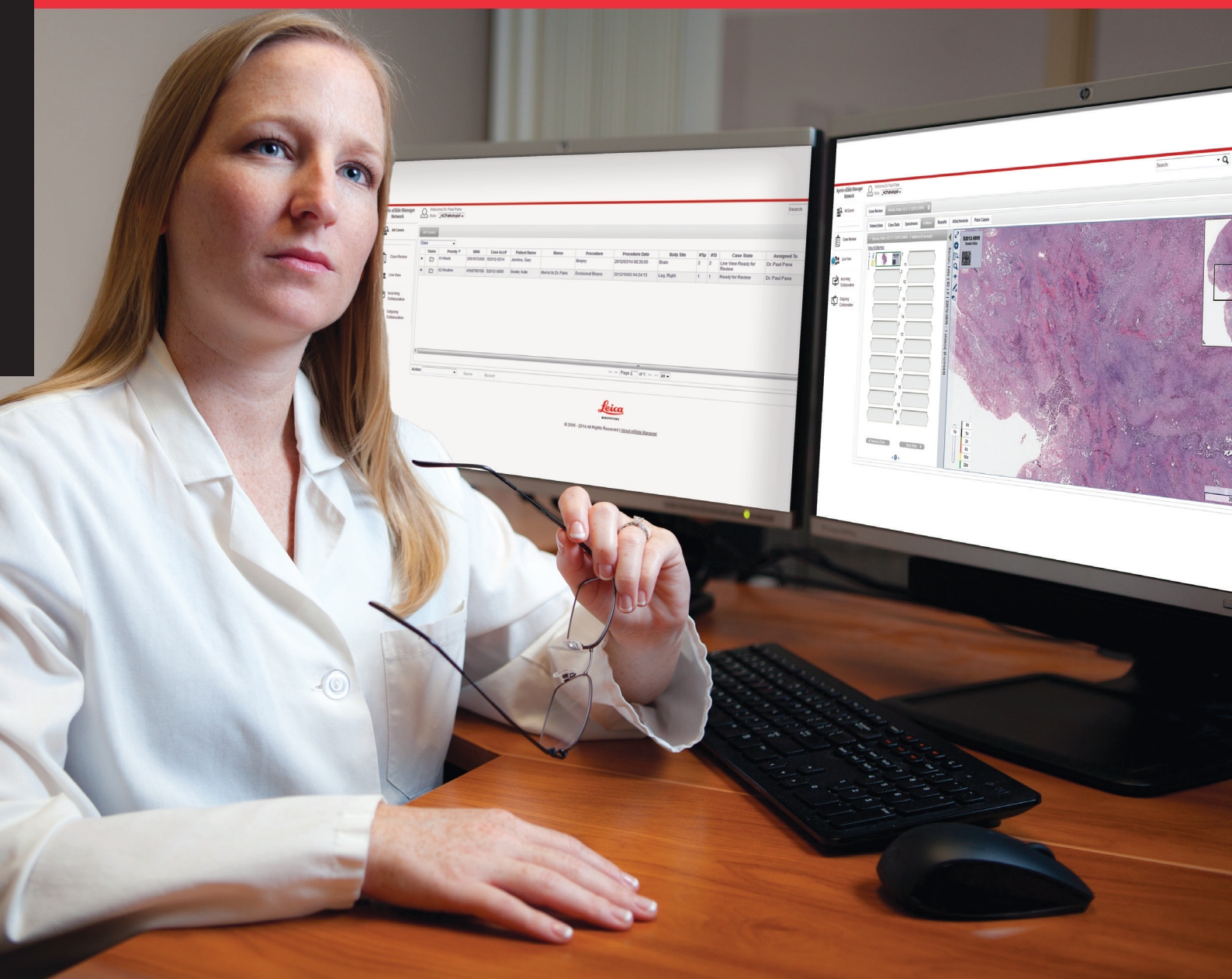
Aperio eSlide Manager
Digital Pathology Management Software for Healthcare

Aperio®
ePathology Solutions

Capture

Integrate

Analyze

Collaborate

Behind every slide is a patient waiting for results. Get the right answers faster with powerful tools for sharing, consultation and analysis.

Aperio eSlide Manager is a comprehensive digital pathology software solution for efficient management of whole slides and integrated case information in a secure, searchable, easy to use system. The flexible, modular design features streamlined workflows, specifically developed for the unique needs of the healthcare environment. From automated case aggregation and review to quantitative analysis and consultation, eSlide Manager is the solution chosen by thousands of healthcare professionals globally, to help improve patient care.

SPEED
Improves patient turnaround time

INTEGRATION
Supports Electronic Patient Records (EPR) with comprehensive LIS communication

SECURITY
Peace of mind that sensitive data is fully protected

"Digital pathology helps us get to the right answer right away because the right pathologist is seeing the sample."

Sylvia Asa, MD, University Health Network, Toronto

Viewers

Quickly access your slides or cases, whether viewing locally at your desktop or remotely, on a computer, smartphone or tablet device. eSlide Manager viewing options are tailored to deliver optimal performance, no matter which device you use. The intuitive interface and customized workflows provide a consistently excellent viewing experience.
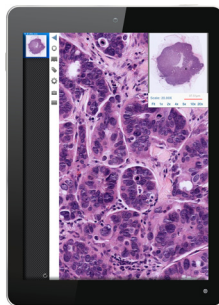
INTEGRATED WEB VIEWER

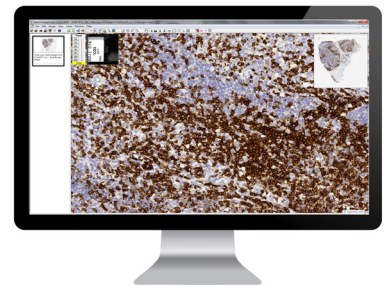Comprehensive workflows and case management via standard browsers
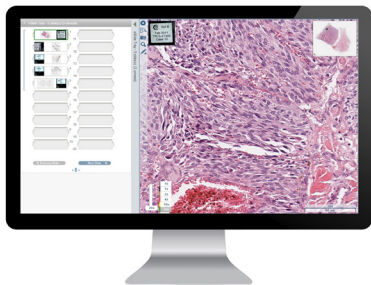
ePATH VIEWER

Access on the move using iPhone or iPad

IMAGESCOPE

Client viewer for local or remote image access

Security

eSlide Manager features comprehensive data security controls that enable compliance with HIPAA standards, including:

» Robust user authentication

» Electronic signatures

» Audit trail functionality

» Encryption of data in transit

» Reason for change validation

Networks

In a global patient care environment, efficient communication between remote sites is more important than ever. eSlide Manager provides multisite healthcare providers with a single central database for their digital images and case data.

eSlide Manager's Hub & Spoke solution facilitates the integration of multiple remote scanning sites into a single networked solution, with rapid, secure access to users globally. With a proven track record in multisite deployments for national and global projects, Aperio ePathology is a name you can trust.

LIS INTEGRATION

Turnkey or customized LIS integration options ensure your digital pathology system fits seamlessly into your existing laboratory workflow.

IMPROVED AUTOMATION

Automatic barcode reading facilitates efficient data population from your LIS, reducing manual data entry, thus eliminating typographical errors.
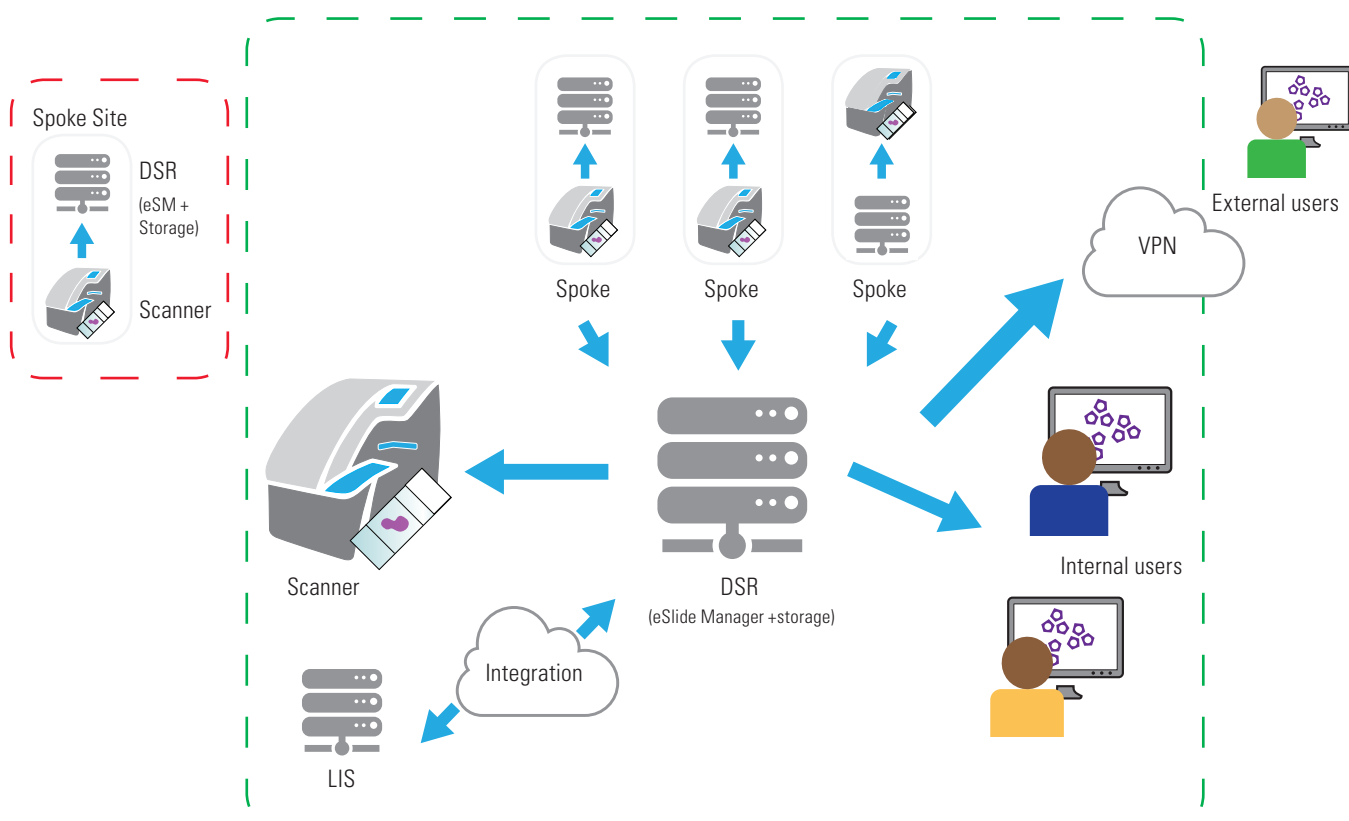
Case review

eSlide Manager's streamlined case review makes it quicker and easier to access patient cases, reducing the time spent waiting for results and cost of shipping slides. Featuring dedicated, ergonomic tools for histologists and pathologists, eSlide Manager leverages the combined power of LIS and digital pathology to improve workflow efficiency.

Pathologist is instantly notified when a new case is assigned for review.

Bidirectional communications with LIS enable automated read / write of case data and results.

Integrated web viewer can be launched from LIS, and features high resolution display with ergonomic controls.
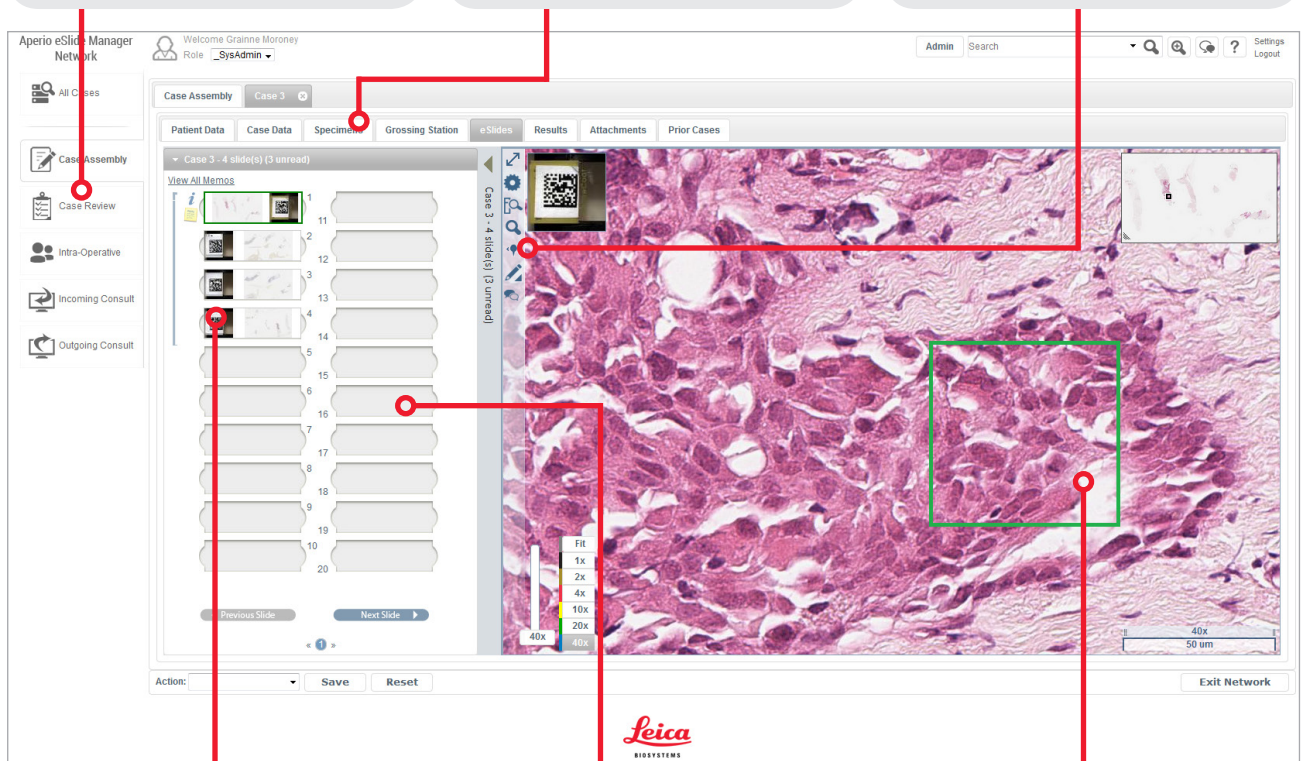

Barcodes facilitate LIS connectivity, eliminating redundant data entry.

eSlide Tray presents all case images in a convenient, easy to use format.

Easily annotate regions for second opinion or extract for use in the integrated reporting tools.

Clinical image analysis

Image analysis supports decision making with objective data. eIHC tools from Aperio ePathology have been clinically validated for use in scoring of ER, PR and HER2/neu tissue slides*. eIHC features an integrated reporting workflow, and analysis results are saved with associated images in eSlide Manager, consolidating case data. eIHC helps pathologists to make treatment decisions with confidence.

Result	Slide
Score	3
3+ %	74.29
2+ %	0.5225
1+ %	21.63
0 %	3.553
# Cells	2871
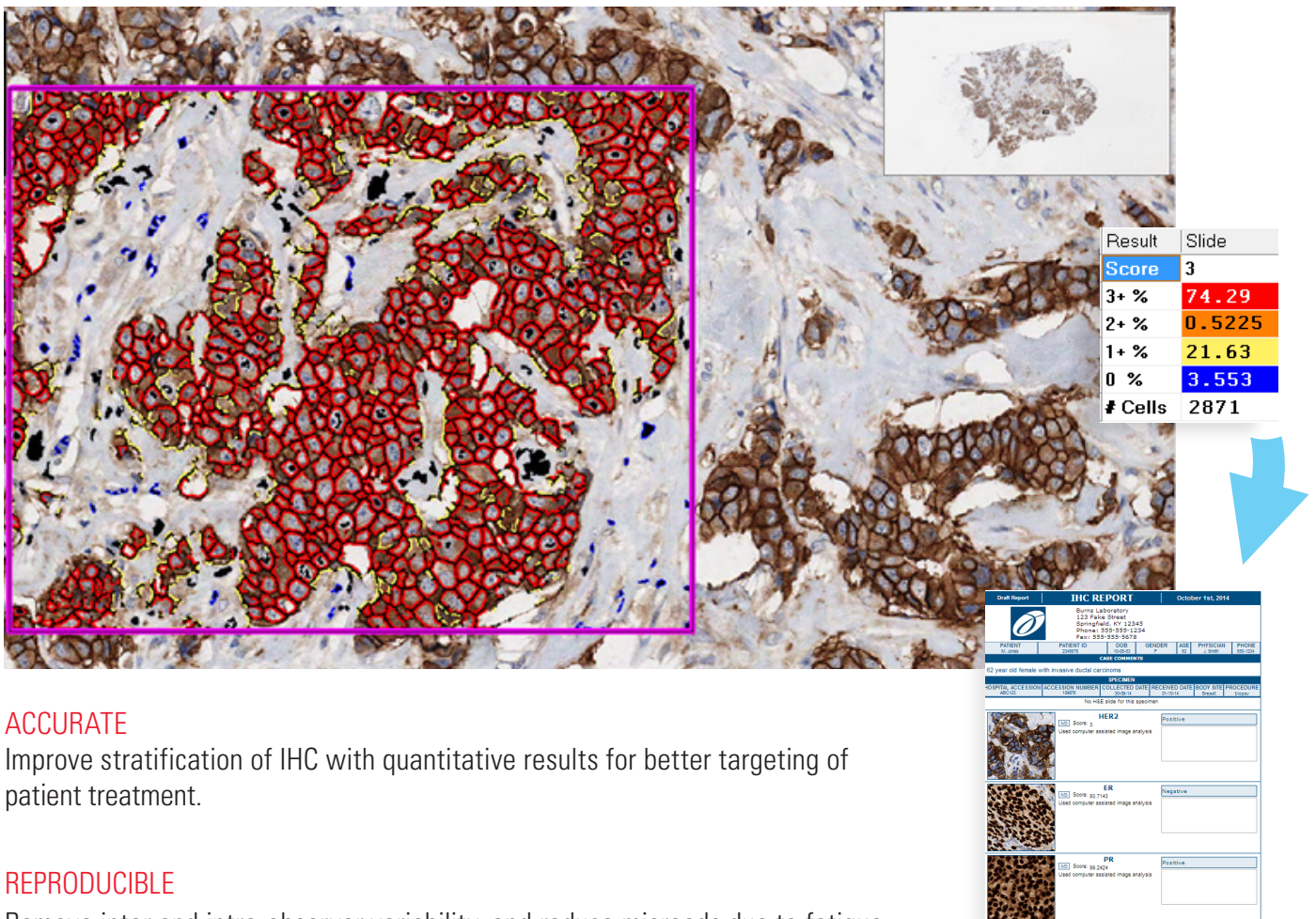
ACCURATE
Improve stratification of IHC with quantitative results for better targeting of patient treatment.

REPRODUCIBLE
Remove inter and intra-observer variability, and reduce misreads due to fatigue.

QUANTITATIVE
Accurately count and classify IHC stained tissue for rapid and consistent measurement of tumor marker expression.

Intraoperative consultation

When a patient is undergoing surgery, minutes count. eSlide Manager offers a tailored workflow for intraoperative consultation, allowing instant remote access to expert review on frozen section slides. Share specialist opinion on gross and whole slide images between locations, reducing costs without compromising excellence in patient care.

REMOTE CONSULTATION

Expedite IOC without the need for an on-site pathologist at the surgical suite. Leverage remote expertise and minimize travel between multiple sites.

WORKFLOW EFFICIENCY

The IOC workflow enables pathologists to quickly access and report on cases, from overseeing grossing and cut-up to frozen section whole slide evaluation.

Consultation & second opinion

Rare and difficult cases can challenge every pathologist. With eSlide Manager, you can consult on cases with a colleague in the next office, or get opinions from experts around the world. Share images, information and findings easily and securely.

FASTER CONSULTS

Request review instantly and discuss slides in real time with live conferencing tools. Reduce turnaround time on difficult cases and get answers sooner.

REDUCE COSTS

Remove overhead of shipping or pathologist travel, and eliminate risk of lost or damaged packages, making consultation more efficient and cost effective.

ACCESS EXPERTISE

Leverage subspecialist pathologists across multiple sites with ease, allowing Integrated Delivery Networks to optimize their services and deliver better patient care.

OVER 75% FASTER
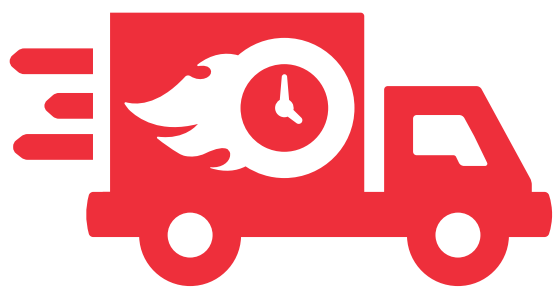
THAN SHIPPING

"KCCC has rapid access to expert opinion without the time delays and risks associated with shipping glass microscope slides."

Adil Khalfan, Regional Director, UHN Kuwait

MDT meeting

Maximize the impact of pathology findings at multidisciplinary team meetings. With eSlide Manager's tailored workflow, you can easily collate and display annotated slides and relevant patient data. Reduce preparation overhead and optimize presentation, for improved patient care conferences.

PREPARE FASTER

Powerful search functionality puts all past cases at your fingertips, reducing time spent retrieving slides and associated case information.

PRESENT EFFECTIVELY

Easily collate and display annotated patient data on-screen. Navigate the tissue, adjust magnification, and show multiple slides simultaneously.

DISCUSS REMOTELY

Live web conferencing tools facilitate participation by off-site teams or individuals, reducing travel times and costs.

"Less time was required with technical/photography preparation, so more time was available to familiarize myself with the content of the path report"

Dr. Stephen Carlson, Laboratory Diagnostics Medical Group

LIS integration

eSlide Manager can be integrated with customer LIS via the Aperio Integration Server. The Integration Server enables bi-directional exchange of information between the customer LIS and eSlide Manager through a web services interface (SOAP), using industry communication standards such as HL7, XML and MIRTH. Barcodes can be utilized for improved automation and reduced manual data input.

Consultation for custom LIS integration is available, and we currently provide turnkey integration with the following LIS:

» Cerner CoPathPlus

» McKesson Horizon AP

» Sunquest CoPathPlus

» TESI Pathox

» Sunquest Powerpath (formerly IMPAC Powerpath)

Scanner   eSlide Manager   Reviewer

LIS
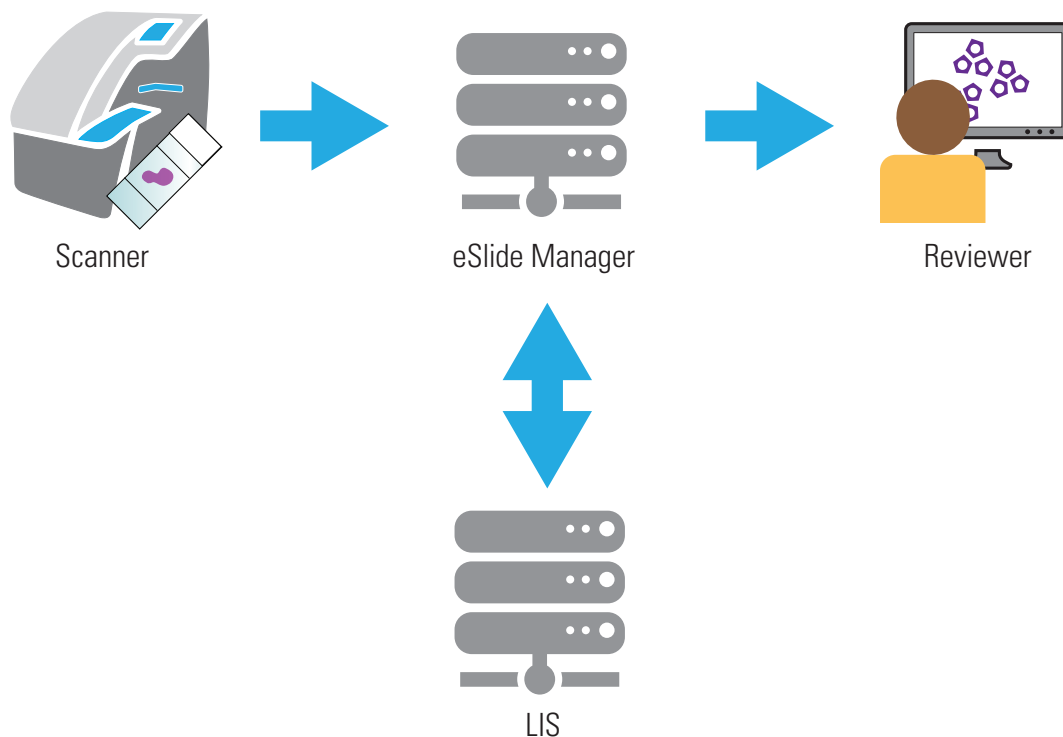
| 1 Slide is scanned & barcode is decoded | 2 eSlide Manager & LIS data exchange based on barcode | 3 Integrated viewer launched from LIS, including case data |

Deployment

eSlide Manager can be deployed locally, in a cloud environment, or in Hub & Spoke configuration. Deployment options are flexible to suit the individual workflows and requirements of your organization, and scalable to grow with your needs.

LOCAL

Solution is deployed on premise, and can connect to a single scanner or multiple scanners on your local network (LAN).

HUB & SPOKE

Multisite deployment that enables multiple remote Scanning sites on a WAN to connect into a single networked solution.

CLOUD

Software is deployed on cloud-based server solution maintained by a 3rd party cloud services provider.

SERVER SPECIFICATIONS

	Minimum	Recommended*
CPU Speed	2 x Dual Core or 1 x Quad Core Intel 2.4GHz or faster	8-core processors 2.0GHz or faster
Hard Disk Space	1TB DAS, NAS or SAN Storage (recommended) RAID for redundancy	5TB DAS, NAS or SAN Storage (recommended) RAID for redundancy
Available Application Hard Disk Space	100GB	100GB
Memory	2GB RAM	16GB RAM

*Performance will be improved when using recommended specifications

SUPPORTED IMAGE FORMATS

Leica	» SVS
	» AFI (Combined Fluorescent image type)
	» SCN (Exprot from Ariol/SCN400 Scanners)
Hamamatsu	» NDPI
	» VMS (Older format)
	» VMU (Older format)
3DHistech	» MRXS
Bacus	» CWS
Standard Formats	» TIFF
	» JFIF (JPEG File Interchange Format, not suitable for very large files)
	» JPEG 2000
	» PMM (Portable Pixmap Format)

For more information on how Aperio ePathology can fit the specific needs of your organization, please contact your local Leica Biosystems representative.

LeicaBiosystems.com

Leica BIOSYSTEMS

Barcodes • Immunohistochemistry • Hub & Spoke • Antibody • Fast • Neuropathology • Virtual Microscopy • Scan Locally, Collaborate Globally • H&E • Data • Automation • News • Magnification & Resolution • File Format • Brain • Report • Whole Slide Scanners • Stain • Glass Slides • Brightfield • Laboratory Information Systems • Anatomic Pathology • FISH • Aperio ePathology • Capture • Integrate • Analyze • Collaborate • Specimen Tracking • Cancer • Annotation Server • IHC • Second Opinion • Lean • Global • Quantify • Tissue • Integrate • LIMS/LIS • Hematoxylin & Eosin • IOC • Compliance • Archive & Retrieve • DICOM • Cloud • Pathologist • Fluorescence • Interpret • Laboratory • Microtome • Solutions • Leica Biosystems • Management • Patient Consultation • Microscopy • Histology • Collaborate • Pixel • Publications • Remote • Size • Coverslip • Quality • Grossing • Sharing • Breast • Prostate • Education • Lung • Image Analysis • Digital Pathology • Toxicological Pathology • Dermatopathology • Workflow Efficiency

Aperio®
ePathology Solutions

Capture · Integrate · Analyze · Collaborate

LEICA BIOSYSTEMS

Leica Biosystems is a global leader in workflow solutions and automation, striving to advance cancer diagnostics to improve patients' lives. Leica Biosystems provides anatomic pathology laboratories and researchers a comprehensive product range for each step in the pathology process, from sample preparation and staining to imaging and reporting. Leica's easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries and is headquartered in Nussloch, Germany.

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