Delphic AP

Designer software for
your pathology workflow

Delphic AP

Delphic AP has been specifically designed by Sysmex to completely fulfil the unique demands of pathology processing and reporting workflows.

Ideal for diagnostic work areas that require detailed, end-to-end workflow management and sophisticated reporting, Delphic AP manages all stages, from request to report, for specialised disciplines.

Today, Delphic AP is used by pathology staff in a wide range of specialties:

- Histopathology
- Cytopathology
- Electron Microscopy
- Molecular Anatomical Pathology
- Molecular Genetics
- Non-coronial Mortuary
- Forensic Pathology Mortuary
- Immunohistochemistry
- Cytogenetics
- Dermatopathology

Complete lab workflow management and reporting

Laboratory Workflow

Delphic AP empowers your lab to accurately manage each and every step of the laboratory workflow from specimen receipt to final report, billing and management reporting.

Separate work-areas within Delphic AP make it easy for lab staff to see and access work assigned to an area, a role, or an individual. This enables flexible workflow management and simplifies multi-step lab processing in a range of diagnostic laboratory disciplines, particularly histopathology and molecular genetics related disciplines.
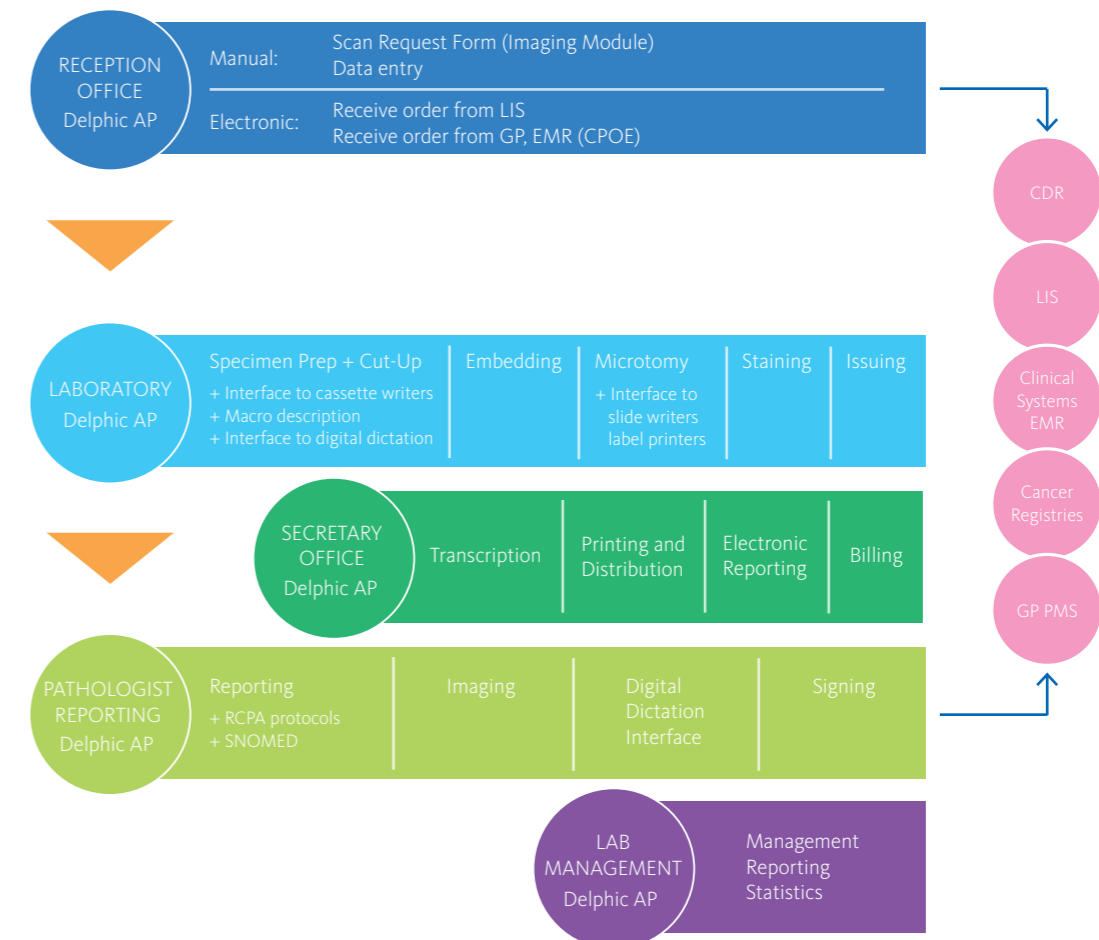
After a specimen is received and entered in the Delphic AP Office area, it moves into the Laboratory area for processing. The Laboratory has individual work areas for each required step. The illustration below and overleaf is based on a typical histopathology laboratory workflow - specimen preparation, cut-up, embedding, microtomy, staining and issuing. The laboratory workflow for other disciplines, such as molecular genetics reflects the required steps.

The design of the Delphic AP lab workflow is based on the principles of Lean/Six Sigma, to ensure a bar-code driven workflow and single piece processing. You can easily track where a sample or a patient case is in the process.

Once the lab work is complete, a patient case is issued to the Pathologist for reporting in Delphic AP. The Secretary Office area enables staff to manage transcription, plus report printing and distribution.
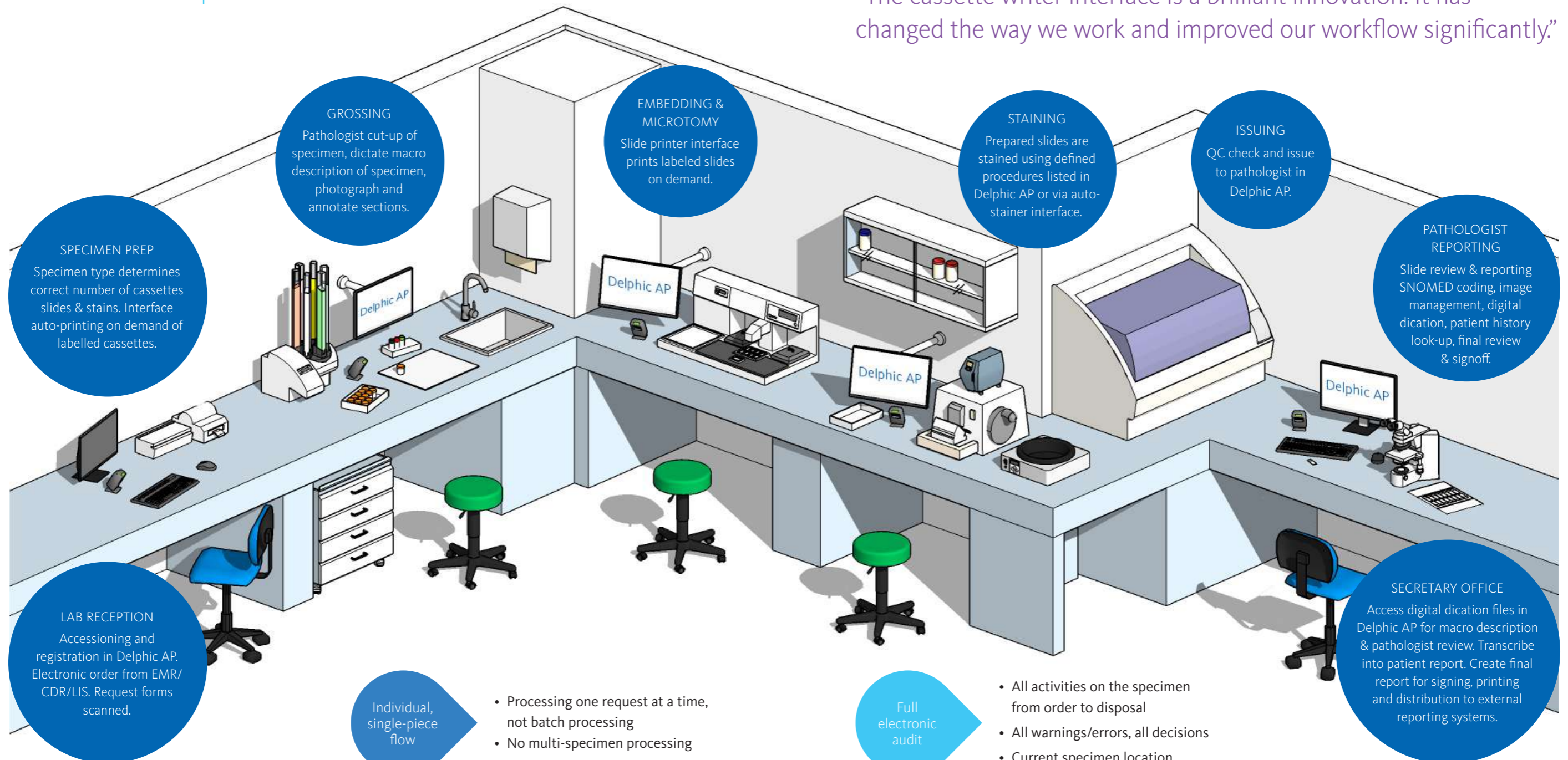
Interacting with Delphic AP - from receipt to report overview

Single Piece Workflow

Scan.Select.Check.Complete.

"The cassette writer interface is a brilliant innovation. It has changed the way we work and improved our workflow significantly."

GROSSING
Pathologist cut-up of specimen, dictate macro description of specimen, photograph and annotate sections.

EMBEDDING & MICROTOMY
Slide printer interface prints labeled slides on demand.

STAINING
Prepared slides are stained using defined procedures listed in Delphic AP or via auto-stainer interface.

ISSUING
QC check and issue to pathologist in Delphic AP.

SPECIMEN PREP
Specimen type determines correct number of cassettes slides & stains. Interface auto-printing on demand of labelled cassettes.

PATHOLOGIST REPORTING
Slide review & reporting SNOMED coding, image management, digital dictation, patient history look-up, final review & signoff.

LAB RECEPTION
Accessioning and registration in Delphic AP. Electronic order from EMR/CDR/LIS. Request forms scanned.

SECRETARY OFFICE
Access digital dictation files in Delphic AP for macro description & pathologist review. Transcribe into patient report. Create final report for signing, printing and distribution to external reporting systems.

Right specimen, right processes, right results for the patient

Individual, single-piece flow
- Processing one request at a time, not batch processing
- No multi-specimen processing

Support standard workflows
- Pre-defined process workflows for specific request types
- Warnings when workflows not followed

Continuous specimen reconciliation
- Continual reconciliation of numbers of specimens/related entities
- Proactive alerts for mis-placed or missing items

Full electronic audit
- All activities on the specimen from order to disposal
- All warnings/errors, all decisions
- Current specimen location

No manual data entry
- Barcode reading to clearly identify specimens / artefacts at all times electronically
- Paperless. Touch-screen

No pre-labelling
- Just-in-time printing of cassettes and slides

Achieve a modern automated laboratory with Delphic AP

Pathologist Reporting

Pathology reporting is complex and must meet high-standards, quality and compliance requirements. Delphic AP has been designed to support every requirement and create sophisticated, accurate reports.

The reporting stage in Delphic AP offers pathologists advanced features:

Automatic capturing of all information assets
- Digital dictation technologies, decreased transcription work
- Comprehensive text editing tools and complete image and diagram management
- AP imaging integration (stored in PACS or the Delphic AP RDBMS)
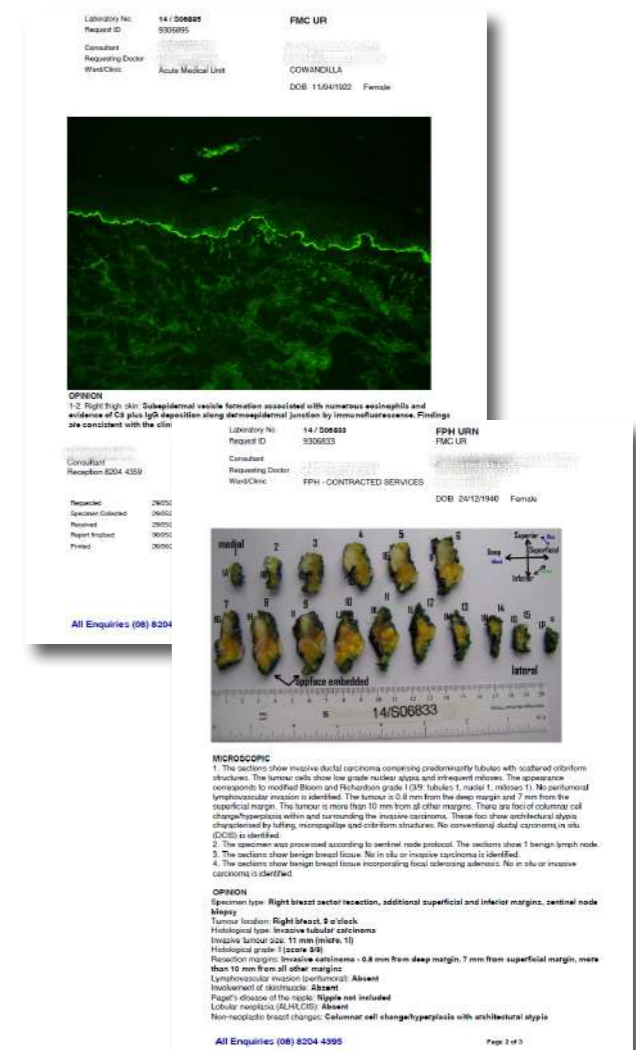
Advanced coding
- Auto code - automatic SNOMED identification
- Support for Bethesda and ICD coding
- Structured / Synoptic reporting (RCPA, CAP)
  - Standardises pathology reporting
  - Improves overall report completeness and quality of data
  - Easier to decipher than narrative or paragraphs
  - Improves communication among healthcare providers
  - Facilitates decision-making for treatment
  - Can improve pathology report turnaround time
  - Discrete data elements allows data extraction and statistical analysis by labs and cancer registries (quality management, research patterns, etc.)
  - Supports local and internationally recognised reporting protocols

Reporting support tools
- Seamless access to the electronic medical record (EMR), clinical data repository (CDR) and core LIS for previous result access and test ordering
- Manage and order retrospective review on previous patient work to get a full history and review slides useful for quality control purposes
- Refer work and reports to another pathologist for review or to an external laboratory (fully audited)
- Improved clarity and completeness in surgical pathology reports
- Built-in check of reports to ensure they are error free and there is no outstanding lab work processing
- Pathology signoff of electronic reports once returned from secretarial team / transcriptionist

Delphic AP supports all standards and creates sophisticated, accurate patient reports

Lab Management

Connect with your clients and clinicians

- Electronic ordering module, integrated with GP practice management systems (PMS)
- Ability to capture digital images, e.g. skin biopsy at time of request
- Secure online / mobile device (iOS and Android) access to reports

Multiple report delivery and billing options

- HL7 delivery to the core LIS (supports PDF)
- HL7 to CDR, EMR, GP PMS
- Reporting to cancer registries
- Supports email, fax and print delivery as required
- Decreases paper report printing and streamlines distribution
- Detailed audit trail tracks each action from initial request through to report signout

Billing module

- Fully integrated billing module
- Compliant with all Australian requirements for billing and online claiming
- Alternatively, generate billing data for integration with billing solution of your choice
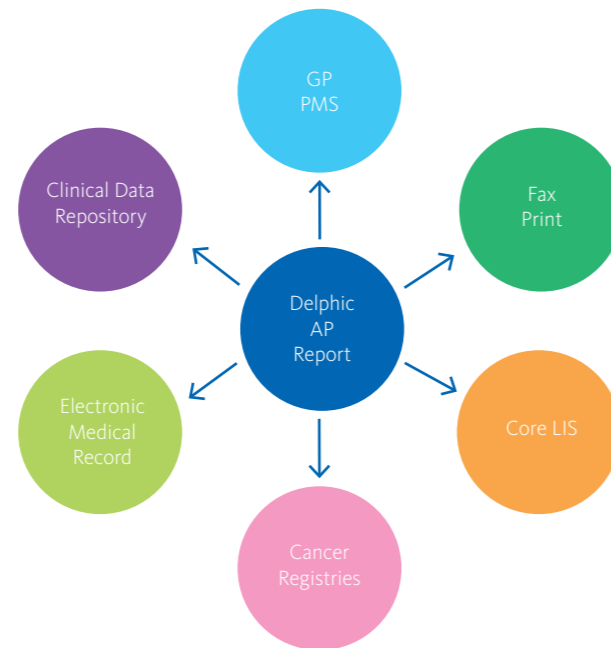
Tissue management

Delphic AP's Tissue Management module enables anatomical pathology labs to respect patient rights and family requests for the handling of patient tissues and body parts.

The module manages the storage, disposal and return of human tissue and body parts following the completion of laboratory work. It also enables laboratory staff to automate the creation of 'return to patient' letters to complement this process.
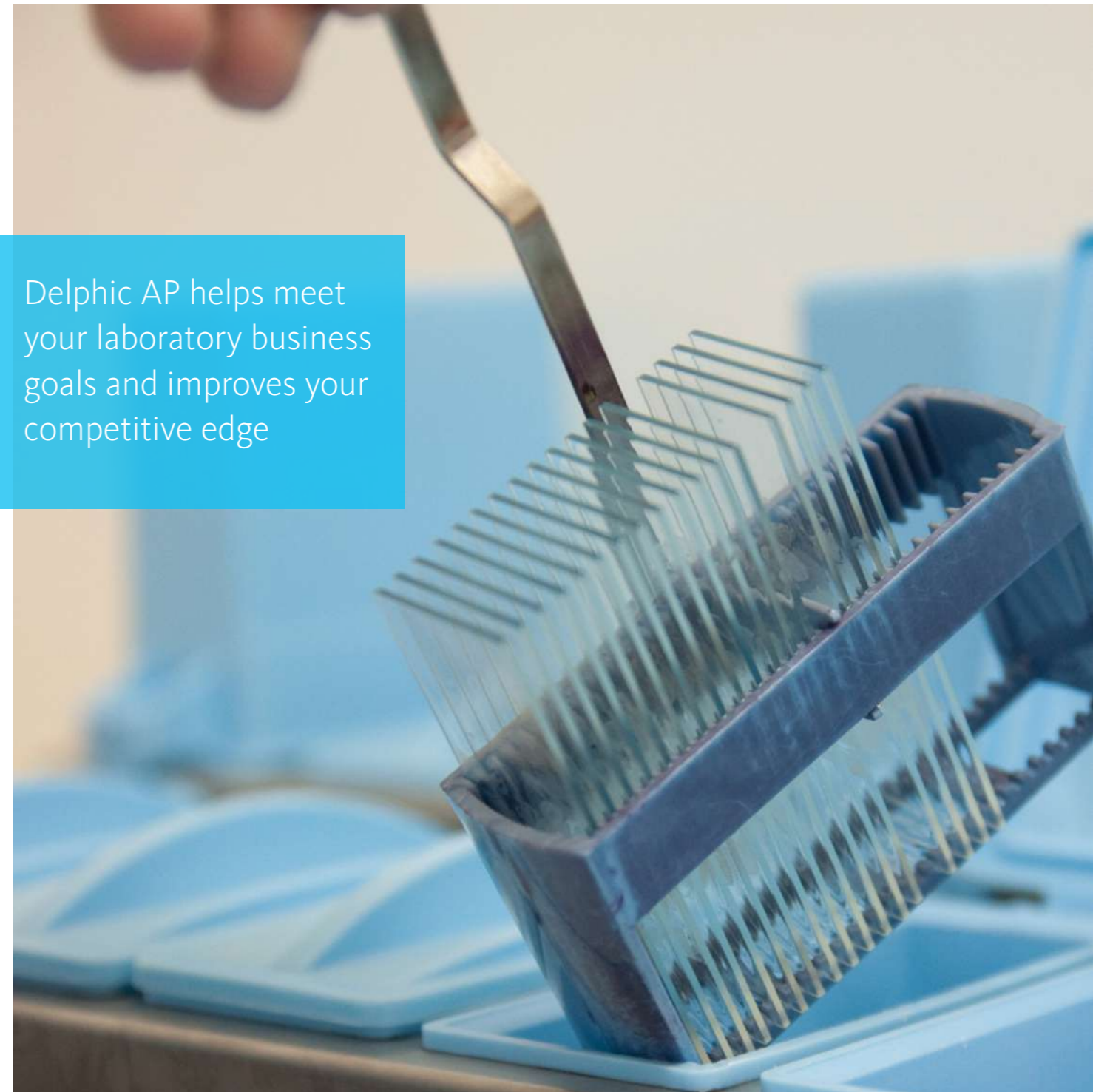
Management reporting

All data is seamlessly integrated from the Domino server to a relational database management system (RDBMS) which is the Delphic AP Management Reporting database.

This configuration provides the flexibility of the Notes platform and Domino server as well as the benefits of a relational database. Data extracts are efficiently managed and facilitate the availability of statistical information and laboratory management reports.

"The slide writer interface saves time which improves production rates. There is better accuracy of data on the slide, reducing issues with patient safety during the reporting process."

What our users are saying about Delphic AP

Diagram (Delphic AP Report hub):
- GP PMS
- Fax Print
- Core LIS
- Cancer Registries
- Electronic Medical Record
- Clinical Data Repository
- Delphic AP Report (center)

Delphic AP helps meet your laboratory business goals and improves your competitive edge

Why Delphic AP?

Tailored to suit

Sysmex understands that a one size fits all approach does not work when it comes to anatomical pathology. Delphic AP offers a system that enables tailored workflows for specific organs, different workflows and a range of disciplines.

By facilitating the capture and reporting of gross, microscopic, chemical, immunologic and molecular examination of organs and tissues, Delphic AP provides a single solution for all of the AP workflows and the staff that work within these departments:

- Admin and secretarial / transcription staff
- Histotechnologists / scientists
- Pathologists

Improve your business

Delphic AP helps meet business goals by:

- Ensuring high system availability - reliable, robust, system access
- Facilitating ease of use - intuitive to navigate, rapid familiarisation, extensive online help
- Supporting full automation enabling rapid processing of lab work
- Maximising the effectiveness of staff workloads through improved workflow
- Reducing your facility's overhead
- Improving quality of care via accurate report delivery and decreased report turnaround times for rapid patient diagnosis

Technology Advances

Sysmex develops Delphic AP in parallel with the latest advances in technology underpinning the transition to digital pathology and state-of-the-art laboratories:

- Flexible electronic interfaces to automated instrumentation - cassette, slide writer and staining - enabling complete specimen tracking. Choose the instrument of your choice.
- Seamless bi-directional access to clinical systems - EMR, LIS, GP PMS
  - Receives HL7 orders for automated registration from clinical systems, PMS or LIS
  - Full electronic HL7 reporting to all clinical systems

Secure and reliable foundation

IBM Notes and IBM Domino server provide a solid and dependable platform for Delphic AP with:

- Advanced word processing tools
- A superior document management system allowing seamless case workflow
- Database replication is standard, readily managing online backups, hot failover and load balancing
- Advanced security and audit trail features built on the mature and highly complex IBM Notes security model
- Support of backward compatibility
- A great platform designed for growth. IBM's strong commitment to Notes brings new functionality which Sysmex can leverage in future releases of Delphic AP
- Support of mobility and the move to touch screen devices
- Support of latest Windows operating systems

"Delphic AP is easy to use and learn. New staff pick it up quickly and are usually up and running with limited training in a short time frame."

Delphic AP Laboratory Workflow Advantages

- Fully integrated, end-to-end AP workflow, capturing all information assets
- Paperless. Eliminates the need for printed worklists
- Reduces manual work via automatic labelling of slides and cassettes
- Offers a full specimen tracking system allowing you to scan the barcode and see the exact stage of the request and the individual specimen details
- Touch screen compatible. Barcode scanners and PC's at each lab step remove the need for keyboard entry
- My Work. Each lab station, secretary and pathologist can see at a glance all aspects of their work
- Improves efficiencies in the AP department by eradicating and reducing repetitive efforts
- No LIS interfacing costs
- Supports local and international reporting protocols

Most anatomical pathology disciplines now operate in a competitive environment. Delphic AP will help you improve the capabilities of your laboratory enabling you to provide a better service to your customers.

Choosing an AP system is a strategic long-term decision and Sysmex is committed to helping you achieve a modern, automated pathology laboratory with Delphic AP.