

# PowerScribe

## Advanced Data Integration

Automate data transfer. Reduce reporting errors.

### Challenge

Like other businesses, radiology practices must enhance the customer experience, improve quality and reduce costs to remain profitable. Key strategies include eliminating redundant workflows and employing processes and tools to improve report accuracy, completeness, compliance and timeliness.

Many radiology procedures (particularly ultrasounds) require entry of specific data directly into the imaging device at the time of the study. In some cases, values may not be consistent with reporting standards and must be normalized, for example, centimeters vs. millimeters or date/time formats.

In other scenarios, technologists record information on paper forms that are then provided to the radiologist for incorporation into the report, which can be time-consuming and error-prone.

Manual processes to mitigate and address these workflow challenges can delay report turnaround time and pose risks for reporting errors that can compromise patient care. The right technology can help.

### ModLink for PowerScribe

Nuance has partnered with Hyland Healthcare to provide an easily implemented software solution to transfer structured report measurements from any capable device or modality directly into PowerScribe 360 Reporting or PowerScribe One.

Hyland's PACSgear ModLink is a vendor-neutral, structured report (SR) system that accepts DICOM SRs and HL7 messages, translates and normalizes values per department specifications, and forwards the translated values to a voice recognition system via an API message.

The normalized data seamlessly flows into appropriate fields in the final report, automatically conforming to site-specified standards for size and weight measurements, dates, decimal places, etc., along with alerts for out-of-range values.

### ModLink Web Forms

Additional benefits can be realized by replacing technologists' paper worksheets with web-based electronic forms. Adding ModLink Web Forms can streamline a technologist's initial data entry process, eliminating the need for radiologist data entry at the time of interpretation.

Data that is entered into the electronic form at the time of the study is automatically normalized and mapped to the dictation system and incorporated into custom fields in the final report. This not only saves time and eliminates redundancy, but also can significantly reduce errors that occur when data is manually transferred from paper worksheets to a final report.

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### Key benefits

- **Reduces** documentation errors by transmitting data from imaging devices directly into the PowerScribe report template.
- **Improves** report completion time by as much as 20%.
- **Generates** accurate, data-rich reports without the need for radiologists or technologists to retype or speak at time of interpretation.
- **Enables** radiologists to focus on the clinical narrative, convey depth of expertise, and maintain required level of productivity while optimizing data accuracy.
- **Achieves** time-savings with auto-import of measurement, dose and other relevant data.

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### Key features

- Seamless integration with PowerScribe 360 Reporting and PowerScribe One.
  - Customizable field mapping, data conversion and translation algorithms.
  - Adaptable to any vendor/any modality.
  - DICOM SR/HL7/XML compatibility
  - Easy-to-use tools for custom web form creation.
  - Enhanced tools for managing job queue.
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“With almost one third of our U.S. volume being OB ultrasounds, we were looking for a way to reduce the time-consuming and error-prone process for documenting measurements in the final report. Adding ModLink data integration to our PowerScribe platform helped us solve this problem.”

ModLink data integration allows us to capture the data right from the modality, so the radiologist doesn’t have to dictate or manually enter the information. This dramatically increases report accuracy and improves turnaround time.”

Ann Minton, PACS Administrator, HIS Analyst, Good Shepherd Health Care System (OR)

**Streamlined workflow**

ModLink Web Forms has the capacity to launch from the outside (PACS) system while passing patient context and study information, eliminating the need for patient lookup.

Forms are customizable and can be designed to exactly mimic the paper version, promoting ease of integration into existing workflows.

**About Hyland Healthcare**

Hyland uniquely delivers a complete patient record within the core EHR applications you use today. Hyland OnBase Content Management

combines industry-leading technology, including vendor neutral archiving, enterprise content management, enterprise viewing and PACSgear connectivity. With Hyland technology, you can make more informed decisions, future-proof your business and maximize your technology investments.

To learn more about how Nuance Healthcare can help you improve financial performance, raise the quality of care and increase clinician satisfaction, please contact us at 1-877-805-5902 or visit [nuance.com/healthcare](http://nuance.com/healthcare).

The image shows a digital form titled "County Hospital DEPARTMENT OF RADIOLOGY Pelvic Ultrasound Worksheet". The form is organized into several sections:
 

- Header:** County Hospital, DEPARTMENT OF RADIOLOGY, Pelvic Ultrasound Worksheet.
- Demographics:** Name, DOB, Date, Age, Sex, Race/ETH.
- Medical History:** Reason for US, Prior US, LMP, G, F, A, Menopausal, Last Menstrual Cycle, Hormone Replacement Therapy?, Birth Control, Type, Grd Age by LMP, W, D, Pregnancy Test, Type, BACG (used), Fals or Pos Hist of BSA/Ovary Cancer (Specify what type and when last occurred), Other Study, Other Study.
- Instructions:** "Consider women ages 16 to 45 at risk patients. At all facilities are patients with a positive personal or family history, those with increased age (per measurement criteria), or a positive family history. Each criterion must be reported (per protocol) and added to comments. Sonographer's Comments Only - radiologist report will follow - change in the following order."
- Findings Section:** A large table with columns for "L", "W", and "H" views. Below this are sections for "Endometrium: Comments:", "Nabothian Cysts? Comments:", "Long UT Sweep", "Tvt UT Sweep", and "UT Cervical Recurrence (only if applicable reported)".
- Summary Section:** Two columns for "RT Obv: L W H" and "LT Obv: L W H". Each column contains checkboxes for "TV" (transvaginal) and "TV" (transabdominal) exams, and lists of "Exams sweep performed:" and "Exams: none performed:". Below this are checkboxes for "Cervix: none", "Hx Vaginal:", "Hx Cervical:", "Hx Endometrial (L-R)", and "Hx Endometrial (C)".
- Footer:** "C/Os Field: Comments: if Yes, Approx. Amount: TV Exam: Chaperone (per sonographer) Sonographer: Total # of Images"

**About Nuance Communications, Inc.**

Nuance Communications, Inc. is a leading provider of voice and language solutions for businesses and consumers around the world. Its technologies, applications and services make the user experience more compelling by transforming the way people interact with devices and systems. Every day, millions of users and thousands of businesses experience Nuance’s proven applications. For more information, visit [www.nuance.com/healthcare](http://www.nuance.com/healthcare) or call 1-877-805-5902. Connect with us through the healthcare blog, [What’s next](#), [Twitter](#), [LinkedIn](#) and [Facebook](#).

