Video and Image Enablement Workflow (VIEW)

Seamlessly link medical images from specialty departments to enterprise systems for improved clinical visibility and care.

Utilizes industry standard protocols to maintain connection to the larger application infrastructure

Scalable archive and viewing capabilities that can support a single department up to an entire enterprise

Integrated zero-footprint viewer delivers clinical content to those who need it most regardless of their access device or location within the enterprise

In today's healthcare provider organizations, having access to timely clinical information, from across the enterprise, is critical to providing the highest levels of patient care. To accomplish this, organizations must identify, index and integrate content from across various departments to effectively integrate it into its enterprise clinical systems. Video and Imaging Enablement Workflow (VIEW) provides organizations with the tools necessary to acquire, manage and visualize the images and videos that exist outside of traditional areas like radiology and cardiology by extending that functionality to specialty departments like dermatology, ultrasound, wound care, digital surgery and ophthalmology. With VIEW, organizations make this valuable clinical imaging available to clinicians in a patient–centered manner with a scalable solution designed to fit the needs of your organization from a single department to the full enterprise.

VIEW IN ACTION FOR POINT-OF-CARE ULTRASOUND

1. **Image Link** receives and processes an HL7 message containing patient demographic data.

2. **Image Link** provides patient demographic data via DICOM Modality Worklist to POC Ultrasound so the images will be linked to the patient.

3. Ultrasound is performed.

4. Photos or video clips automatically routed to the **Acuo VNA** or other clinical archive through the locally hosted **PACSgear** Core Server and the content is linked to the EHR.

5. EHR retrieves the images for viewing with **NilRead** or other enterprise viewer.

PACSgear Core Server

Acuo VNA

Hyland®
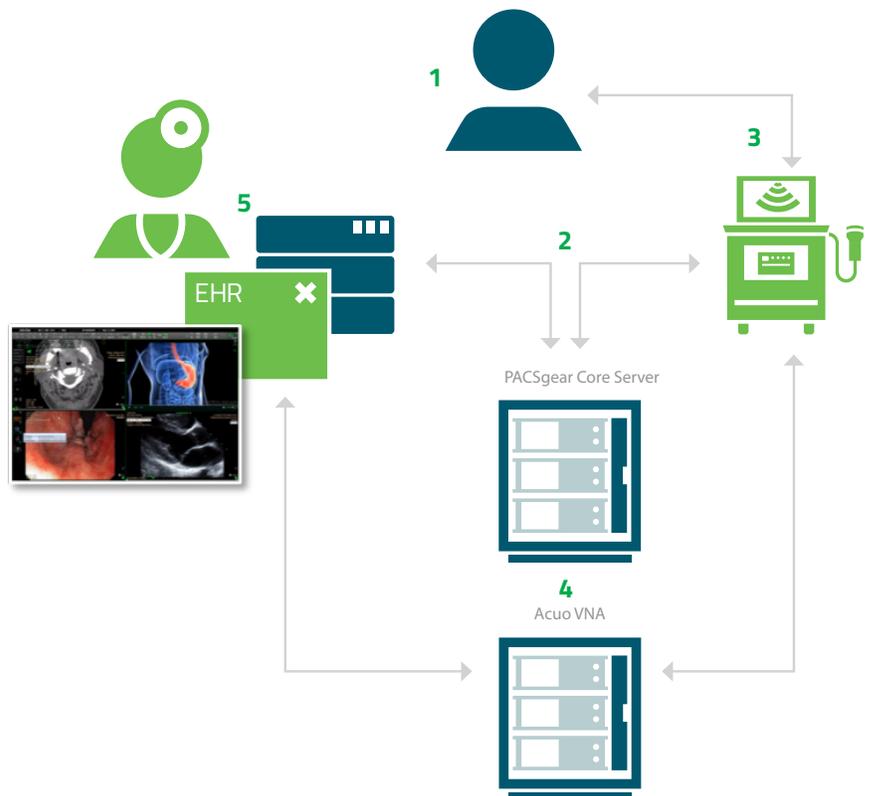
VIEW Use Case: POC Ultrasound

One of the many areas where view can make an immediate impact is Point of Care (POC) Ultrasound. This emerging technology uses ultrasound technology at the patient bedside to facilitate and expedite clinical diagnosis and increase accuracy of certain medical procedures (e.g. pericardiocentiesis, vascular access for anesthesiology, etc.).

POC ultrasound has the potential to revolutionize healthcare by decreasing complications and limiting pain and suffering for patients while saving health systems millions in imaging costs. However, several challenges exist when it comes to linking images captured on POC Ultrasound devices to enterprise systems such as EHRs.

For example, most POC Ultrasound technology lacks common worklist features that are typically present in larger departments such as radiology and cardiology. This functionality gap means that patient and study indexing data is often entered manually, which introduces error into the process and inhibits clinicians as they seek to access this content through the EHR or other clinical applications. Ultimately, these barriers hinder enterprise-wide clinical accessibility of POC Ultrasound content, which can be detrimental to downstream patient care.

VIEW provides a complete solution that streamlines the integration of POC Ultrasound content to enterprise systems. The solution consists of the following technology components:

Acquire: PACSgear Image Link

To increase the speed and accuracy of the indexing process for POC Ultrasound devices, PACSgear Image Link bridges the worklist functionality gap that currently exists in many of the POC ultrasound devices in the marketplace by providing access to the HL7 patient and study data generated as part of normal clinical workflows.

Manage: Acuo VNA

With VIEW, once the ultrasound is captured and properly indexed using the enterprise standard patient and study data, the content is then stored in the Acuo VNA, where it can be centrally managed within the context of the patient alongside a variety of other imaging studies (e.g. radiology/DICOM, GI, dermatology, wound care, etc.). The non-proprietary, vendor-neutral platform also makes integrating this content with enterprise systems much easier.

Visualize: NilRead Enterprise Viewer

Once stored in the VNA, POC Ultrasound images and video can be made available enterprise wide through the zero-footprint, NilRead Enterprise Viewer that image enables the EHR. This web-based viewer allows images from any modality to be accessed and referenced by clinicians from almost any PC, laptop or mobile device.

With VIEW, the clinical blind spots commonly created by POC Ultrasound are removed, enhancing clinical visibility, which leads to improved patient outcomes and care. Plus, POC Ultrasound is just one example of how VIEW can be applied to improve image interoperability. This common solution framework can easily be expanded to address the needs of other imaging intensive departments including:

- Dermatology
- Surgery/OR
- GI
- Wound Care
- Ophthalmology … and more

Enterprise Viewer

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EU Authorized Representative
EC REP Emergo Europe
Prinsessegracht 20
2514 AP The Hague
The Netherlands

Lexmark Canada Inc.
120 Carlton Street, Suite 217
Toronto Ontario, Canada M5A 4K2
Manufacturer T +1 913 227 7030

NIL-VIEW-EN-REVA

PACSgear Connectivity

CE

EU Authorized Representative
EC REP Emergo Europe
Prinsessegracht 20
2514 AP The Hague
The Netherlands

Lexmark Enterprise Software, LLC.
4309 Hacienda Drive, Suite 500
Pleasanton, California 94588 USA
Manufacturer T +1 925 225 6100 F +925 225 6195

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