

Enterprise Hospital Systems Integration

Seamlessly Supporting the Patient Journey

Streamlining the Workflow

Olympus provides interfaces for the integration of EasySuite® 4K integrated operating rooms and nCare® procedure suites to hospital enterprise applications. A full complement of Health Level 7 (HL7®) and Digital Imaging and Communications in Medicine (DICOM®)-based inbound and outbound interfaces support the entire cycle of patient care seamlessly—from patient registration and discharge to clinician access of surgical video and images with enterprise applications. Standards-based interfaces support hospitals' unique workflows, whether they include a Picture Archiving and Communication System (PACS), Electronic Health Record (EHR), a Vendor Neutral Archive (VNA), scheduling system, or some combination of systems.

Unify the Patient Record

Case information, including recorded video and saved images, is automatically stored on the centralized VaultStream® library at the conclusion of each procedure. VaultStream EasyView® enables clinicians to securely share and access case information from the hospital network. When hospitals prefer that clinicians access all patient data, including images and video, from a single, familiar application, such as their EHR or PACs, Olympus VaultStream can support these requirements as well.

Flexibility to Support EHR Requirements

If there is one thing that is true across EHRs, it is that they handle access to surgical images in different ways. Olympus understands this and supports multiple options for accessing surgical information from an EHR—via a link to the VaultStream application, a link to a PDF report containing the surgical images, or direct access to the PDF report from the EHR. When integrating the EHR with the VaultStream application, Olympus ensures efficient clinician workflow by including user authentication credentials so that clinicians are not required to separately log in to VaultStream each time.

Support for Enterprise-Wide Archiving

Today, many hospitals are adopting VNAs for imaging storage across the enterprise. Olympus supports the export of full procedure information—including images, video, and patient information to commercial VNAs, such as TeraMedica® Synapse VNA and Cerner® CareAware.

Full-Featured Inbound and Outbound Support

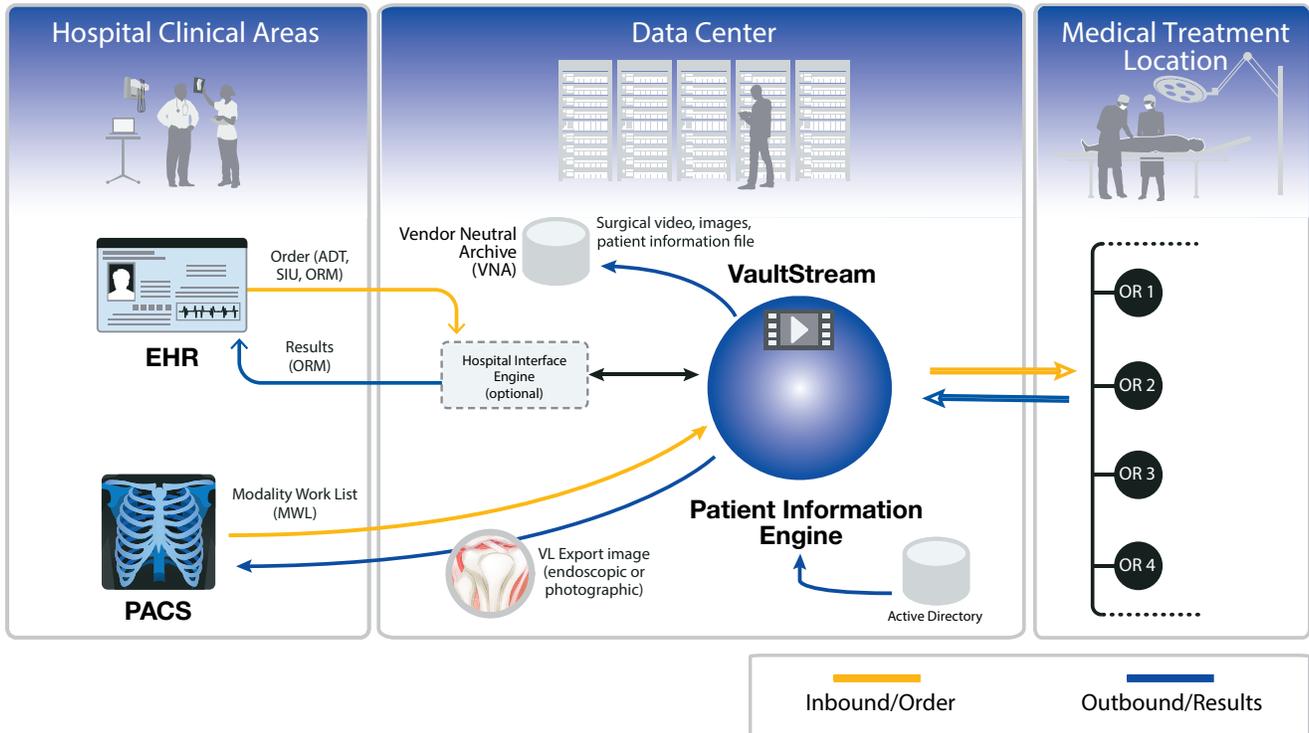
Olympus' robust interface specifications support integration with most commercial EHRs. Olympus supports DICOM integration by pulling in patients from a Modality Work List (MWL) and exporting data to PACS. For HL7, inbound orders can be submitted via HL7 Admit Discharge Transfer (ADT), Orders (ORM), or Scheduling (SIU) messages. Outbound results are sent in standard HL7 ORU messages, encapsulating or linking to result images or through authenticated access to the VaultStream EasyView web application. nCare® and EasySuite® 4K require a patient last name, patient ID, and physician name as part of the registration process. Without HL7 providing this registration information, nCare and EasySuite 4K users would have to manually enter the data, which introduces inefficiency to the clinician workflow by adding additional steps, and the possibility for human error.

Consolidated Access for a Simpler Network

Some solutions require that each operating suite has a separate network connection to hospital systems, creating a maintenance nightmare for IT. The fully integrated VaultStream Patient Information Engine (PIE) provides a single point of communication to hospital systems, brokering all inbound and outbound requests, no matter how many operating rooms the hospital contains.

Enterprise Hospital Systems Integration

Seamlessly Supporting the Imaging Lifecycle



Features

Integrate nCare® and EasySuite® 4K with hospital applications for seamless workflow

Streamline patient registrations

Reduce manual interventions & errors

Support unified patient record

Provide single point of access for images & patient data

Specifications

HL7

Supports HL7 version 2.x

Inbound: ADT, ORM, SIU

Outbound: Standard ORM

Custom inbound or outbound messages
(Available from Olympus Professional Services)

DICOM

Inbound: Modality Work List (MWL)

Outbound: Visible Light (VL) image export; endoscopic or photographic

Network

Fully integrated with VaultStream Patient Information Engine

Network Port: Configurable (TCP/IP)

Workflow

Automatic or pick-list patient registration and discharge

Support for update and cancellation of orders

Results Integration

Results access options:

- Hyperlink to VaultStream
- Link to PDF report file
- HL7 encapsulated result PDF

Full user authentication to VaultStream application through Active Directory

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