

EUNITY ENTERPRISE DIAGNOSTIC VIEWER

One viewer for every image.

A universal viewing platform that unifies all your images and solves your integration needs — a visualization experience for every healthcare professional across the enterprise.

FROM PIXEL TO POINT OF CARE.

THE PROBLEM

Care is no longer the work of one department.

Healthcare has shifted. Clinicians need an accurate, comprehensive view of a patient's history — including all relevant imaging — to build the best care plan possible. The systems they rely on weren't built that way.

Most organizations are still structured so that individual departments — radiology, cardiology, wound care — have their own imaging and storage systems. They are not typically integrated, so they don't provide a consolidated, holistic view of a patient's imaging history.

Consolidating data from every modality, system and department is an incredibly time-consuming task, especially for large systems spanning multiple facilities and regions. That aggregation adds risk and can delay care.

Mergers and acquisitions compound it: data unification becomes an ongoing process, with no guarantee that any one repository holds all of the data at a given moment.

The answer is a viewer that aggregates and displays data from across the entire enterprise — independent of a centralized repository.

The fundamental challenge of enterprise imaging is not a viewing problem.

It is an integration problem.

Built to query, federate and display — everywhere.

Viewing images once you have them is relatively easy. The difficulty is acquiring them in the first place. eUnity was designed on a single assumption: in practice, no one system contains all of a patient's images.

So eUnity queries multiple systems at once for relevant patient images. The problem is twofold — first, find and federate all the data you need; second, query it despite the different ways proprietary platforms structure their data.

Not all enterprise viewers solve this. eUnity does. Federated query delivers access to relevant priors without first migrating and consolidating the data.

WHY INTEGRATION MATTERS TO CLINICIANS AND PATIENTS

01 Faster decisions

Improves clinicians' efficiency in making decisions.

02 Quicker care

Reduces time to patient diagnosis and treatment.

03 Greater confidence

Provides a greater degree of diagnostic confidence.

For IT and the enterprise

Aggregate records across systems and regions to leapfrog the years of work it takes to migrate data into a single repository — and get a comprehensive view of a patient's imaging history now.

What eUnity delivers.

01 Zero-footprint, diagnostic quality¹

A vendor-neutral, zero-footprint universal viewer launched through any modern HTML5 browser, with no dedicated hardware. Diagnostic quality across enterprise and clinical use, scaling up or down in users and in privilege-controlled features.

02 Integration with front-end clinical systems

eUnity integrates with your existing hospital infrastructure, so imaging opens inside the systems clinicians already use rather than alongside them.

03 Access anywhere, most devices^{1,2}

Care decisions happen beside the patient. eUnity gives clinicians access to patient imaging from most devices with an HTML5 browser, wherever they are working.

04 AI and CAD results in the reading workflow

eUnity displays results from your AI and CAD applications alongside the original study, including the name and version of the algorithm that produced them. eUnity adopts DICOM SR Measurement Findings, a richer content type than a screen capture or image overlay.

05 Image enablement for downtime

eUnity can be promoted from its primary role as the enterprise viewer to serve as the downtime viewer when the primary PACS goes offline, scheduled or unscheduled. With relatively little effort — so you do not need to invest in a separate downtime system.

06 Deploy it your way

Traditional installer or container deployment, on infrastructure you already run. New in 7.10, described overleaf.

Deployment flexibility, and sharper reading tools.

01 Container deployment

eUnity now offers a container deployment option alongside the traditional installer, using OCI-compliant images and the standard container tools your operating team already knows. Configuration, user settings, audit records and the local image cache are held on a persistent volume rather than inside the container, so your setup survives container restarts, image updates and redeployment. This is an initial release covering the core deployment path, with further capabilities planned.

02 Spherical volume of interest

A 3D sphere VOI tool for PET/CT studies in Fusion mode, under Advanced Visualization. Place it on any plane, resize and move it, and see the cross-section update as you scroll through slices. The tool calculates SUVmax, SUVmean, SUVmin and total volume, and the sphere is visible in the 3D MIP and across registered series.

03 Findings Navigator enhancements

Entries now carry a thumbnail of the image containing the finding, which can be dragged into a viewport. Filter findings by creator, type, name or keyword; see a per-study finding count; and navigate from within the panel itself. A hanging protocol can open the Findings Navigator on launch.

04 Pathology whole slide imaging³

The series tray now shows one representative series per slide to reduce visual clutter, with ancillary series available from the image map drawer and openable as an enlarged preview. You choose which series type displays by default. The image map drawer takes a customisable keyboard shortcut, and a new Free Pan mode moves across a slide continuously in the direction of the cursor.

Support advisory

eUnity 7.10 is the last version to support Microsoft Windows Server 2016. Systems running it should be upgraded now. Ask your Mach7 representative for the current Platform Definition Guide.

THE RESULT

A universal viewer for every clinician.

One viewer for all clinicians, with role-based tools from referral through primary reading.^{1,2}

One

grade of image quality — no viewer tiers

One

viewer for every user, on every supported device

Zero

client software to install for viewing

A future-proof platform

Acquire, access and view every image in a patient's record in one unified visualization experience.

Intuitive and easily deployed

Reduces administrative overhead, so you manage costs and gain return sooner.

Vendor-neutral by design

Independent and flexible — integrate to all your modalities and imaging systems.

Your custom workflows

Enact the workflows most important to your clinicians, gaining efficiency and productivity.

Unite your imaging today

Our experts are ready to show you how Mach7 can help you create a true enterprise imaging experience.

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REGULATORY AND PRODUCT INFORMATION

eUnity is an FDA-cleared Class II medical device (510(k) K172490) that enables healthcare professionals to view, manipulate, and analyze medical images to aid in diagnosis. Professional and prescription use only.

Intended use. eUnity is a web based medical device software intended for trained healthcare professionals to store, retrieve, transfer, review, and display medical images and associated clinical reports, providing 2D viewing, multiplanar reformatting, 3D visualization, and image analysis tools to aid in diagnosis.

¹ Display monitors used for reading medical images for diagnostic purposes must comply with applicable regulatory approvals and with quality control requirements for their use and maintenance. For the current supported browser, operating system and mobile version matrix, and for minimum hardware specifications, contact your Mach7 representative.

² For Mobile diagnostic usage only when a full workstation is not available.

³ Digital pathology whole slide imaging is available in the United States only; for reference and referral use, not for primary diagnosis.

Product availability, regulatory status, intended use and feature availability may vary by country, region and care setting. For the approved indications in your market, contact your Mach7 representative or Mach7 Regulatory Affairs.

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