Edison™ True PACS is GE Healthcare’s transformative solution leveraging AI and the latest PACS technology built for radiology departments looking to enhance reading speeds, increase efficiency, improve diagnostic precision, and reduce errors. All the while keeping capital and IT resources under control. Hence why it’s been released under the headline: “Radiology Without Walls”.

Incorporating several GE Healthcare modules, Edison True PACS includes Centricity™ Universal Viewer, Enterprise Archive, Centricity™ Universal Viewer Zero Footprint Client, Edison™ Open AI Orchestrator and third-party AI applications. These solutions are essential for visualizing, storing, analyzing and sharing medical imaging, combining the leading medical imaging standards PACS, DICOM, and HL7 — standards which can benefit greatly from being load balanced.

**Using Loadbalancer.org to strengthen GE Edison™ True PACS deployments**

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**Key Benefits**
- Highly resilient imaging systems
- Performance at scale
- Uninterrupted access to Edison True PACS

**Key Features**
- Fully featured - L4 & L7 ADC
- Supports 8,000,000+ studies per year
- Built on Open Source technology
- Easy to use & maintain
- Flexible licensing & pricing
- Free platform migration
- Specialist support team dedicated to Enterprise Imaging

* Loadbalancer.org declares there is no affiliation, sponsorship, nor any partnership with GE Healthcare or its registered trademarks unless otherwise stated.
Achieve peak performance

Edison™ True PACS — similar to the vast majority of enterprise imaging systems — benefits from a load balancer to become an efficient and reliable system. While its cloud version utilizes AWS CloudFormation for its cloud deployment, it is the responsibility of the end-user to procure additional hardware for an on-premise solution.

Since the technology is based on PACS, DICOM and HL7, load balancing Edison True PACS becomes advantageous to deliver the performance required. By monitoring the status of medical imaging storage and applications servers, traffic is directed to the least loaded servers, while images flow seamlessly within the network, rather than being held up in a queue. Using an ultra reliable, ultra efficient Loadbalancer.org solution allows Edison True PACS to operate at peak performance at all times.

Efficient data and demand management

Edison True PACS has been designed to support distributed radiology workloads including remote reading and collaboration tools. Images are now transmitted not just over local networks but across the internet, to a wide range of devices. Demand is unpredictable, and large file sizes can bottleneck servers. Even when hospitals and outpatient facilities have the best possible network speed, they’re still dealing with more users on their networks and more images being disseminated than ever before.

Once Loadbalancer.org is added, it automatically adds servers to the cluster as demand increases and easily supports the additional resources needed for remote working.

Uninterrupted access to Edison True PACS

Loadbalancer.org ensures the high availability of Edison True PACS: it’s the ability to continually provide application services, remain accessible and available to radiologists even during one or more server failures.

When multiple servers are used for combined load balancing and failover services, a dedicated load balancer ensures all online servers are assigned to the task function, and the workload is spread out to all those servers. This helps in implementing failover. Server failover improves fault-tolerance for mission-critical PACS so that when tasks are automatically offloaded from the primary server to a secondary standby server, the procedure is more or less seamless to users at the PACS workstation end.
How it works
Deployment concept and load balancing methods

There are a variety of load balancing methods, with most addressing the two common modes of operation - Layer 4 and Layer 7, both supported by Loadbalancer.org. Both of these modes can be used to load balance industry standards such as TCP, DICOM, HL-7, HTTPS, XDS (Cross Enterprise Document Sharing), SOAP (Simple Object Access Protocol) and XML (Extensible Markup Language).

- Layer 4 offers the strongest performance, forwarding data without inspecting it and simplifying the transaction. With Layer 7, you get to implement smarter load-balancing decisions giving you greater flexibility. The best load balancing solution depends on a lot of factors, from your specific requirements and infrastructure to the type of environment.

A deployment concept is as follows:

![Deployment Concept Diagram]

THE LOADBALANCER.ORG ADVANTAGE

Leading the way in healthcare

Loadbalancer.org are unique amongst peers in focusing on healthcare IT. The company has worked with a range of ‘blue-chip’ customers and partners such as, Fujifilm, Philips, Carestream, Hologic and Change Healthcare. Loadbalancer.org engineers’ extensive knowledge and experience of applications such as enterprise imaging, clinical workflows, EHR and interoperability solutions allows them to work closely with existing and prospective clients to develop secure, scalable and unbreakable solutions.