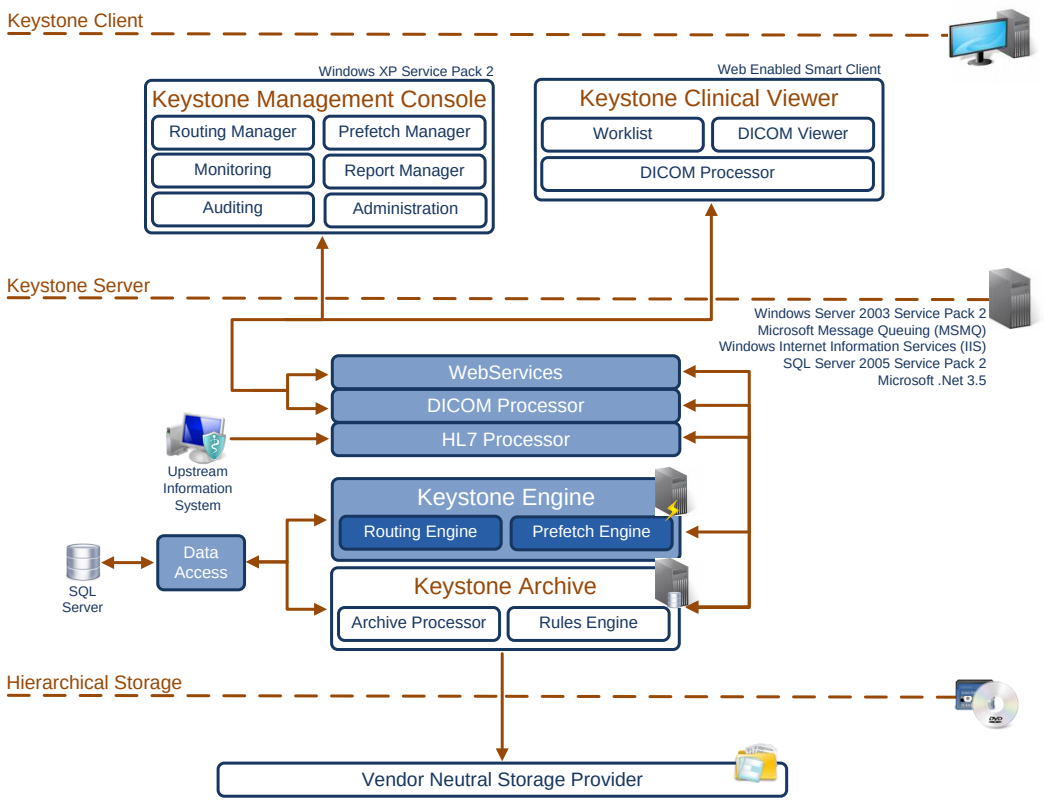
## Overview

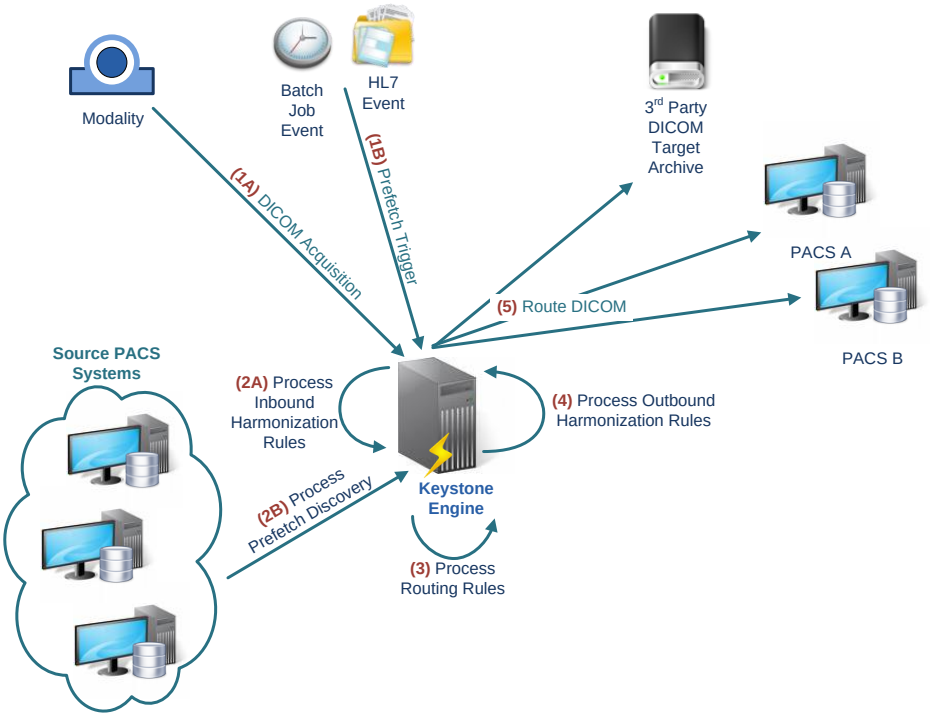
As a cornerstone to the Keystone Suite, the Keystone Engine is the hub of all DICOM communication between disparate PACS and imaging modalities in any clinical multi-discipline. Facilitating rules based processing of routing and prefetch logic, along with advanced processing capabilities for transfer syntax conversion, DICOM transformations, compression, proprietary vendor DICOM conversion, and more, the Keystone Engine enables interoperability across disparate PACS systems.




## Feature Functions

- **Sophisticated Routing** – Enabling sophisticated rules based routing logic, image data may now be systematically routed to where interpretations need to be performed – from off-hours coverage support, to intelligently routing specialty procedures, to routing at the series level, or simply solving modality and PACS routing limitations. The Keystone Engine can enable the sharing of images across an enterprise with the Routing Engine.
- **Advanced Prefetching –** The Keystone Engine's Prefetch Engine provides physicians with relevant prior procedures for historical comparisons *before* they are needed. Schedule prefetch tasks hours or even days in advanced to ensure relevant prior image data across disparate PACS systems are moved to the PACS system where the exam is scheduled to be performed. And, to cover those emergency cases, configure HL7 order feeds to the Keystone Engine to trigger priority prefetch requests.

- **DICOM Normalization –** At the core to disparate PACS interoperability is the ability to normalize DICOM between PACS systems. From translating study descriptions and modality types, to ensuring accession numbers are unique between systems, DICOM Normalization may be enabled within both Routing and Prefetch logic. With DICOM normalization, solve PACS interoperability challenges across enterprises.
- **Proprietary Conversions** – Faced with the challenge of converting proprietary DICOM, the Keystone Engine has the ability to standardize your DICOM. With a library of proprietary converters and an architecture upon which to easily build those custom converters, Keystone Engine can convert your PACS vendor's proprietary presentation state, annotations, and more.
- **Compression –** Compressing image data and converting transfer syntaxes as image data is routed and prefetched across an enterprise within the Keystone Engine is a simple configuration exercise. Solve communication performance challenges and resolve transfer syntax negotiation issues between modality and PACS solutions.




**The Keystone Engine, a cornerstone to the Keystone Suite and the hub of all DICOM communications across your enterprise, enables owning, sharing and access of your imaging data.**

## Supported Platform

- Windows Server 2003 Service Pack 2 and Windows Server 2008 R2
- Microsoft Message Queuing (MSMQ)
- Windows Internet Information Services (IIS)
- SQL Server 2005 Service Pack 2 and SQL Server 2008
- Microsoft .Net 3.5