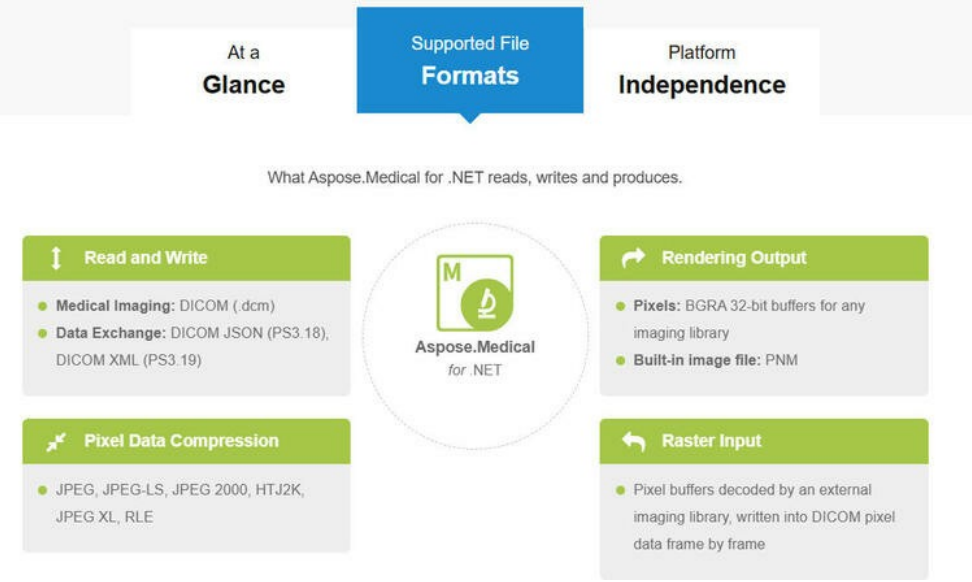
Aspose.Medical for .NET v26.10.0 (16 Oct 2026)

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Aspose.Medical for .NET is a pure .NET class library for working with DICOM (Digital Imaging and Communications in Medicine) files. It lets developers read, write, modify, anonymize, transcode and render medical imaging data, serialize it to DICOM JSON and DICOM XML, and exchange studies with other systems over DIMSE and DICOMweb, without any external software or native dependencies.

The library is written entirely in managed C# and runs on .NET 10 on Windows, Linux and macOS. There are no native binaries and no third-party NuGet packages, so the library deploys as a single assembly into any .NET application, from a desktop tool to a container in a cloud healthcare system.

Key Features:

- Read and write DICOM files from a file, a stream or a pipe, synchronously or asynchronously, with full support for all standard data elements and value representations.
- Control memory on large files: load every element, defer large elements until they are used, or skip them and read the metadata only.
- Read and edit any data element, including sequences and private tags, with character set handling for non-ASCII text.
- Anonymize DICOM files with the confidentiality profiles of DICOM PS 3.15, with options for retaining UIDs, dates, device and institution identifiers and patient characteristics.
- Transcode between transfer syntaxes: JPEG, JPEG-LS, JPEG 2000, HTJ2K, JPEG XL and RLE, with every codec implemented in .NET.
- Render frames to BGRA pixels with the modality LUT, the VOI LUT (window and level) and overlays applied by the renderer.
- Serialize datasets to the DICOM JSON Model (PS3.18) and to DICOM XML (PS3.19) and back, including asynchronous streaming and pluggable bulk data loading.
- Communicate over DIMSE with a client and a server: C-ECHO, C-STORE, C-FIND, C-MOVE, C-GET, the N-services, and TLS.
- Query the modality worklist, report MPPS and hand out work with UPS-RS workitems, as a client and as a server.
- Search, download and upload studies on any DICOMweb server with a typed client for QIDO-RS, WADO-RS, STOW-RS, rendered images, WADO-URI and the workflow services.
- Build your own DICOMweb server: QIDO-RS, WADO-RS, STOW-RS and the workflow services on ASP.NET Core or any other HTTP host, with your storage behind them.

Aspose.Medical for .NET is self-contained. It needs no DICOM viewer, no medical imaging software and no native codecs to be installed. It fits healthcare IT systems, PACS integration, telemedicine platforms and any application that has to process DICOM data reliably.

版本列表

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