

**MEDDREAM PACS SERVER
PREMIUM 7.2.5.781 & LITE 1.9.3.781
PRODUCT SPECIFICATION**

Function	Description	PREMIUM v7.2.5.781	LITE v1.9.3.781
PACS features			
DICOM compatibility	Supported DICOM 3.0 protocol.	+	+
DICOM Storage service	PACS server is DICOM image archive. PACS server can store images from external DICOM sources by DICOM by using C-Store method.	+	+
DICOM Retrieve service	External system (DICOM SCU) can search and retrieve images from PACS server by using DICOM C-FIND, C-MOVE, C-GET services.	+	+
DICOM Modality worklist	Possibility to import, store and send DICOM modality worklist records to the configured medical devices.	+	-
Auto Route	Automated DICOM study transfer by configurable, flexible rules.	+	-
Export	Possibility to export images stored in PACS Server database to specified directory (including configured DICOMDIR Viewer).	+	+
Import	Possibility to import external DICOM formatted directory and/or raw image files into PACS Server.	+	+
Forward	Possibility to forward images stored in PACS to a remote DICOM SCP.	+	+
Integration options	Possibility to integrate PACS to HIS/RIS/EHR/PHR medical workflows using defined integration interfaces defined by DICOM, HL7, FHIR standards as well as use custom integrations.	+	+
Automatic Study Aging	Possibility to set date and time schedule for Automatic Study Aging from short-term to long-term archive.	+	-
Automatic Purge	Possibility to set aging Period for Purging old worklist records. Possibility to set aging Period for Purging old DICOM studies.	+	-
Auto Scan	Possible to set Auto-Scan directory for auto importing DICOM Images.	+	-
Patient Reconciliation	Flexible Patient reconciliation rules. Possibility to check duplicate Patient IDs. Possibility to edit Study Patient data manually or semi automatically.	+	-
Users' activities logging	All user activities automatically logged into the System Journal Log.	+	-
Live Monitor	Possible to display information about live connections.	+	-
PACS administration			
WEB based administration	Web-based user interface for PACS administration, configuration, managing users, managing data.	+	-
User management	Possibility to create and manage users and user groups.	+	-
User access control	Possibility to define privileges for the users or user groups managing patient/study actions: View, Modify, Forward, Query, Move, Download, Export, Import, Print, Upload, Monitor, System administration, Monitor, Mark study.	+	-
Study View, manage	Possibility to view and manage patient/studies. List of studies includes detailed info: Patient ID, Patient Name, Patient Sex, Date of Birth, Institution name, Study ID, Study Date, Study Time, Accessions Number, Referring Physician, Name, Description. *For Premium PACS only: Privacy, Age, Received On, Reading Physician's Name, Read By, Requesting Physician's Name, Source AE, Total Number of Instances.	+	+*
Patient Search	Possibility to search patient by selected criteria's: Patient ID, Patient Name, Date of Birth, Institution Name, Study Date.	+	+

Study Search	Possibility to search study by selected criteria's: Patient ID, Patient Name, Study Date, Accession Number. *For Premium PACS only: Study Unique ID (UID), Study ID, Referring Physician's Name, Reading Physician's Name, Source AE.	+	+*
Series Search	Possibility to search series by selected criteria's: Series Unique ID (UID), Series Date (set dates from to), Modality, Series Description.	+	-
Image Search	Possibility to search images by selected criteria's: Image Unique ID (UID), Photometric Interpretation (MONOCHROME1, RGB, etc.), Image date (set dates from to).	+	-
System Monitoring	Possibility to view system services, system and user activities, system logs, etc.	+	-
DICOM Modality Worklist			
Modality Worklist records	Possibility to enter the following information for worklist data: Patient ID, Patient Name, Patient's Sex, Date of Birth (DD-MM-YYYY), Additional Patient History, Institution Name, Accession Number, Admitting Diagnoses Description, Referring Physician's Name, Requesting Physician's Name, Requested Procedure ID, Requested Procedure Description, Requested Procedure Priority, Scheduled AE Station, Modality, Scheduled Start Date (DD-MM-YYYY), Scheduled Start Time (HH:mm:ss), Performing Physician, Scheduled Procedure ID, Scheduled Procedure Description, Scheduled Procedure Location, Procedure Code Value, Procedure Code Meaning, Procedure Code Scheme Designator, Procedure Code Scheme Version, Protocol Code Value, Protocol Code Meaning, Protocol Code Scheme Designator, Protocol Code Scheme Version.	+	-
Customization features			
Multi language support	Supported languages: English, Lithuanian, Russian. Possibility to support more languages by request.	+	-
Viewer features			
This specification file contains only description of MedDream PACS Server product functionalities. MedDream PACS product package contains also MedDream WEB DICOM Viewer functionalities. For full list of MedDream DICOM Viewer specifications please read the Specification file. There MedDream viewing functionalities are described, such as:			
General features	Pan, Zoom, Scroll, etc.	+	+
Measurements	Line, Angle, Polyline, etc.	+	+
Viewport features	Ellipse ROI propagation, Copy image to the clipboard, Quick save KO and PR, etc.	+	+
Layout features	Thumbnail position, Multi-image, Hanging Protocols, etc.	+	+
Manipulation features	Simultaneous scrolling, Sync Windowing, Crosshair, etc.	+	+
Supporting functions	Report, Study forward, Export, etc.	+	+
Specific features	Live Share support, PET-CT Fusion, Color channels, etc.	+	+
ECG	Measurement (mV, s), QT points (RR, QT, QTc), HR, etc.	+	+
Ultrasound	VTI (Velocity Time Integral), etc.	+	+
MPR	Orthogonal MPR, Axial MPR, Coronal MPR, Sagittal MPR, etc.	+	+
Optional advanced MPR features	MPR Oblique, 3D rendering, MPR/MIP comparison, etc.	+	+
Customization features	Theme, Thumbnail view, Language support, etc.	+	+
Other viewing functionalities	All viewing functionalities are described in MedDream DICOM Viewer Specification file .	+	+

Supported modalities			
CT	Computer Tomography modality for diagnostic use.	+	+
MR	Magnetic Resonance modality for diagnostic use	+	+
XA	X-Ray Angiography modality for diagnostic use.	+	+
CR/DX	Computed Radiography/Digital Radiography modality for diagnostic use.	+	+
PT	Positron Emission Tomography (PET) modality for diagnostic use.	+	+
NM	Nuclear Medicine modality for diagnostic use.	+	+
US	Ultrasound modality for diagnostic use.	+	+
OP	Ophthalmic Photography modality for diagnostic use.	+	+
RF	Radio Fluoroscopy modality for diagnostic use.	+	+
ES	Endoscopy modality for diagnostic use.	+	+
ECG	Electrocardiography modality for diagnostic use.	+	+
IO	Intra-Oral Radiography modality for diagnostic use.	+	+
PX	Panoramic X-Ray modality for diagnostic use.	+	+
RG	Radiographic imaging modality for diagnostic use.	+	+
SC	Secondary Capture modality for diagnostic use.	+	+
XC	External-camera Photography modality for diagnostic use.	+	+
MG	Mammography modality for diagnostic use.	+	+
OT	Other modalities for diagnostic use.	+	+
Integration into medical information systems			
HIS	Flexible and open integration interface into Hospital information systems.	+	+
RIS	Flexible and open integration interface into Radiology information systems.	+	+
EHR	Flexible and open integration interface into Electronic health records.	+	+
EMR	Flexible and open integration interface into Electronic medical records.	+	+
PHR	Flexible and open integration interface into Personal health records.	+	+
Patient Portal	Flexible and open integration interface into Patient Portals.	+	+
eHealth	Flexible and open integration interface into eHealth, national or regional eHealth systems.	+	+
Teleradiology	Flexible and open integration interface into Teleradiology and Telemedicine systems.	+	+
Cloud	Flexible and open integration interface into Cloud healthcare systems.	+	+
Any medical application	Flexible and open integration interface into any other medical applications.	+	+

Licensing			
Limited License	License limited on connected modalities (AE Titles).	+	-
Unlimited License	Unlimited License available on request.	+	+
Virtualization environments support			
VMWare	VMWare virtualization. Read more.	+	+
Docker	Docker container. Read more.	-	+
Kubernetes	Kubernetes deployment support. Read more.	-	+
Hyper-V	Hyper-V virtualization. Read more.	+	+
Cloud deployment support			
Amazon AWS	Amazon Cloud deployment. Read more about Amazon Web Services.	+	+
Google	Google Cloud deployment. Read more about Google Cloud Healthcare.	+	+
Azure	Microsoft Azure Cloud deployment. Read more about Microsoft Azure Cloud.	+	+
Alibaba	Alibaba Cloud deployment. Read more about Alibaba Cloud.	+	+
DB Engines support			
MySQL	MySQL database support. Read more.	+	+
PostgreSQL	PostgreSQL database support. Read more.	-	+
MSSQL	MSSQL database support. Read more about Microsoft SQL Server.	-	+
MariaDB	MariaDB database support. Read more.	+	+
Operating Systems on server-side support			
Windows Server	Windows Server 2008/2012/2012R2/2016/2019 (64 bit).	+	+
Windows	Windows 7/8/10/11 (64 bit).	+	+
Linux	Linux (64 bit, with glibc version >= 2.15): Debian, Ubuntu, CentOS, Fedora.	+	+
Operating Systems on client-side support			
Windows	Windows 7/8/10/11 (32/64 bit).	+	+
Apple MacOS X	v10.9 or later.	+	+
Web browsers support for PACS web administration			
Microsoft Edge	85 or later.	+	+
Mozilla Firefox	74 or later.	+	+
Google Chrome	74 or later.	+	+
Safari	10 or later.	+	+
Mobile devices (tablets and smartphones) support			
IOS	Safari browser, Chrome browser.	+	+
Android	Chrome browser.	+	+