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**MedDream**

**USER MANUAL**

**(version 8.0.0)**

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Specifications due to technical developments are subject to change. This user`s manual is not subject to the revision service. Please contact the manufacturer or authorized dealer to request the latest edition of the manual.

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# General information

This user's manual describes **MedDream** functionalities and operation with **MedDream**.

Seeking to ensure patient safety, software should be used by intended use. You should therefore ensure that you are thoroughly familiar with the user manual before setting up and using **MedDream** for the first time.

**MedDream** is dedicated only to show ePHI (Electronic protected health information) contained in study file. Administrators, doctors and patients decide how to use ePHI. **MedDream** does not replace medical professionals and could be used only as an additional tool. No special facilities or special training of the medical software **MedDream** users are required.

Please note that medical images quality, sharpness, accuracy and other parameters, relevant to the users, directly depends on the technical capabilities of medical device, which is generating medical images, on the monitor and printer technical capabilities.

**Indications for Use: MedDream** is a software intended to aid in diagnosis by visualization various medical images, video and signals, measuring data in DICOM images and management DICOM images, when the patient is not in life-threatening state of health, time is not critical for medical decision and no major therapeutic interventions are required.

**Contraindication:** NONE.

**Work environment:** The device is provided for the professional user. MedDream is intended for medical professionals and is provided to use in professional environments dedicated for medical diagnosis. Device is dedicated for continuous work.

**Types of use:** MedDream is intended for multiple patient multiple use.

**MedDream Catalogue number:** MDSY.



**WARNING!** Software usage not by intended use may cause patient death, potential injury or serious health impairment, requiring professional medical intervention.

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## Known limitations:

- MedDream viewing functionalities may not be used with Internet Explorer 11 browser;
- MedDream viewing functionalities may be blocked by browser security if launched in iFrame.

**Risk and Benefit:** Using MedDream by its intended use does not cause risk, which could influence patient health status or health changes, but facilitate work of medical professionals, provide a better opportunity for accurate diagnosis.

Clinical data are collected, stored and managed as described below:

- By implementing post market clinical follow-up studies;
- By analyzing results of collected preclinical data;
- By implementing competitor analysis and literature analysis;

- By managing risk;
- By managing complaints and problems;
- By collection vigilance system data;
- By implementing biomedical research.

MedDream is continually tested. All critical issues are corrected immediately and users are informed about software functionality limitations and risks.

In case of MedDream bugs please immediately contact to Softneta support at this email: [support@softneta.com](mailto:support@softneta.com).

## Personal data security breach

In case of personal data breach (including but not limited to cybersecurity breach) please immediately (but not later than during 24 hours) inform medical software Manufacturer Softneta UAB by using below mentioned contacts:

SOFTNETA Data Protection Officer (contacts of Data Protection Officer are public available [www.softneta.com](http://www.softneta.com)).

Name, Surname: Raimundas Mikalauskas

Tel. +370 630 06808

Mail: [dpo@softneta.com](mailto:dpo@softneta.com)

## Serious incidents reporting

Any serious incident that has occurred in relation to the device should be reported to the manufacturer (via email: [support@softneta.com](mailto:support@softneta.com)) and the competent authority of the Member State in which the user and/or patient is established.

## Availability of documentation

Electronic version of MedDream User Manual in Lithuanian and English is free available on the Softneta UAB website ([www.softneta.lt](http://www.softneta.lt) / [www.softneta.com](http://www.softneta.com) in the "Products" section) as well as access to the supporting software versions. Instructions are included in the "Product description" part in the section "Downloads". User Manual could be opened in a browser or saved in pdf format and downloaded to Your computer.

Software Install Manual is added as a separate document to the User Manual.

If You require paper version of User Manual, please ask us by email: [support@softneta.com](mailto:support@softneta.com). Paper version of User Manual will be sent not later than in 72 hours after receiving Your request (to the address You specify).

## Questions

Please visit our F.A.Q. in Softneta UAB webpage for answers to frequently asked questions or problems.



**WARNING!** In the event of malfunction of the device or changes in its performance that may affect safety, contact to manufacturer.

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**CAUTION!** Incorrectly installed software could cause inconvenience to medical professionals using the software and disruption of the medical professional activities.

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If you have any questions or comments regarding MedDream functionalities or this user`s manual, please contact Softneta UAB Customer support: [support@softneta.com](mailto:support@softneta.com).

## Explanation of symbols used

During MedDream usage please pay attention to important information, related to patient safety, which is warning about software functions, whose implementation errors may pose a risk to patient health.

The symbols in this User Manual are intended to alert user about possible errors in the software or its use. Please read the information carefully as you see the symbols described below.



**WARNING!** This indicates a hazardous situation which may cause patient death, potential injury or serious health impairment, requiring professional medical intervention.

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**CAUTION!** This indicates a hazardous situation which may cause minor potential injury, not requiring professional medical intervention, or simply cause inconvenience to medical professionals using software without affecting patient health status or health changes.

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**NOTE!** Information, hints and advice for a better understanding of the instructions to be observed in the operation of the instrument.

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Additional Symbols:



Tick box



Search



Export





















Forward




















View icon

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	Ascending/Descending
	System menu
	Language menu
	Windowing function
	Patient history
	Windowing
	Synchronize windowing
	Invert
	Color palette selection
	Zoom
	Fit to screen
	Original resolution
	Zoom selection
	Pan
	Align left
	Align right
	Align center
	Channels


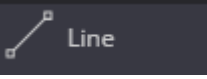

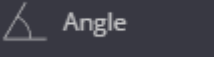
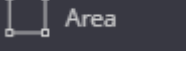

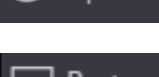

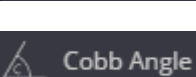

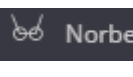



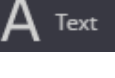
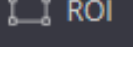
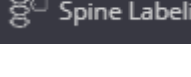

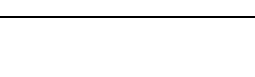
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	Scroll
	Magnifier
	Layout
	Multi image
	Reset
	MPR (multi-planar reconstruction)
	Reference line
	Crosshair
	Rotate
	Rotate right
	Rotate left
	Flip horizontal
	Flip vertical
	DICOM
	Link scrolled series
	Automatic link
	Manual link







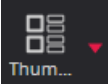

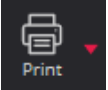

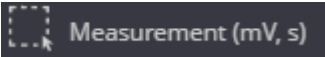
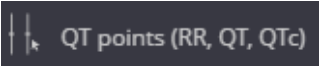



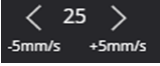
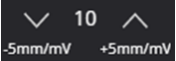
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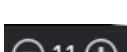














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	Measure
	Line
	Polyline
	Angle
	Area
	Volume
	Ellipse
	Rectangle
	Velocity Time Integral (VTI)
	Cobb Angle
	Tibial Plateau Angle
	Norberg Angle
	Verbal Heart Scale
	Hip distraction index
	Tibial tuberosity advancement
	Cardiothoracic ratio
	Text annotations
	Region of interest
	Spine Labeling

 Vertebra Angle	Vertebra Angle
 Flexpoly N	Flexpoly
 Pencil B	Pencil
 Arrow	Arrow
 Foot longitudinal arch	Foot longitudinal arch
 Calibration line	Calibration line
 Show Angles	Show Angles
 Intensity	Intensity
 Delete All Ctrl + Delete	Delete all measurements
 Delete Selected Delete	Delete selected measurements
 Save Annotation	Save annotation
 Key O...	Key objects
 Segme...	Segmentation
	Segmentation tool Bounding Box
	Segmentation tool Free Draw
 Share	Share files via DICOM Library
	Live share
	Copy live share link
 Info La...	Info Labels





















	Fusion
	Cine mode
	Series
	Plugins
	Full Screen
	Theme
	Thumbnails
	Preload series
	Print
	Hanging protocols
	Measurement
	QT points
	HR
	QRS Axis
	Filter
	Change horizontal scale (mm per second)
	Change vertical scale (mm per mV)

---

	ECG view scrollbar
	Pause
	Play
	Previous Instance
	Next Instance
	Frame rate in multi-frame
	Stop playback
	Volume on
	Volume off
	Create report
	Open/Edit report
	Paste to report
	Edit report template, segment
	Delete report template, segment
	Download
	Burn disk
	Copy measurement
	Paste measurement
	Stop copy and paste measurement action
	Copy viewport content to the clipboard
	Copy original image to the clipboard

---

---

	Save viewport content as secondary capture DICOM
	Create 2D Bounding Box segment
	Create 3D Bounding Box segment
	Create Free Draw segment
	Duplicate Bounding Box segment
	Locate segment
	Change color
	Erase segment contour
	Segment measurement
	Copy values to clipboard in CSV format
	Save segments
	Assign shortcut
	Edit
	To start recording
	Take snapshot while recording
	Delete images or complete video
	Expand patient record
	Close study
	Open not saved (not converted to DICOM format) study in CURRENT STUDY window for more changes
	Open already saved (converted to DICOM format) study in DICOM VIEWER window

---



Export the study to local or external drive



Forward study to hospital DICOM archive (requires to setup remote DICOM archive in 7.1.2 Network settings)



New study in the list, not reviewed



Study is not stored in hospital DICOM archive



Study is stored in hospital DICOM archive



Study and patient information are selected from scheduled modality workload



Try run task again



Stop running task



Rollback the task. This button will appear on failed "CONVERT JPG/VIDEO to DICOM" task. Allow user to return all DICOM files to images of video for more study changes



Delete task



send DICOM C-ECHO and verify basic connectivity by DICOM protocol



Activate source profile - display video input source streaming window in application include on startup



Update or change source profile settings



Delete source profile



Reload all active sources



Add new source profile



Can copy full stream address



Download VLC media player format playlist file, that contains the same stream address



FDA cleared product, which means the manufacturer can demonstrate that the product is substantially equivalent to another (similar) legally marketed device that already has FDA clearance or approval



Product certified according to the Regulation (EU) 2017/745 by notified body TÜV Rheinland LGA Products GmbH



Country of manufacture



Medical device class



Unique device identifier



Release date



Distributor



Contacts of representative in Switzerland



End user contacts



Status notification, no action needed



Status notification, action recommended



Status notification, action needed



Send to PACS functionalities



Add file / Add folder / Add device / Add directory



Edit device



Remove file / Remove device / Remove directory



Settings



Expand to series level



Notes and attachments

## Summary of clinical evaluation report

The device's risks were managed according to UAB "Softneta" internal risk management work instruction, which is based on the ISO 14971:2019 standard. During the risk management activities, the device was:

- 
- Classified according to the Regulation (EU) 2017/745 on medical devices Annex VIII as a CLASS IIb medical device (the device's risk management file);
  - Identified according to the EU 2007/47/EC directive and requirements defined in the ISO 14971:2019 standard's Appendix C (the device's risk management file);
  - Ensured risk managed (implemented risk analysis, risk mitigation actions, residual risks verification) (the device's risk management file);
  - Tested and verified for residual risks (retested) according to the risk management results and UAB "Softneta" Testing work instruction (software tests, user acceptance tests, clinical tests), (the device's risk management file).
  - All the risk management activities were carried out by the risk management team.

Softneta gathers production and post-production information using the following Quality management system's areas: product realization; measurement analysis and improvement; change and problem management; auditing; post market data results. The above-mentioned activities ensure, that internal and external environments (in which the product exists) are constantly monitored and if changes occur all associated risks are re-managed.

Residual risks (hazard) with the "minor" severity (Results in injury or impairment requiring professional medical intervention) are mentioned in the section „Warning regarding residual risks“. We don't have any residual risk with "serious" (or higher) severity.

Calculated risk-benefit ratio (percentage) value is lower than 1 (one), therefore it is considered that the software benefit outweighs the risk that may be encountered while using the software.



## List of applicable standards

Number	Requirements
EN ISO 13485:2016 / A11:2021	Medical devices - Quality management systems - Requirements for regulatory purposes
EN ISO 14971:2019	Medical devices – Application of risk management to medical devices
ISO/TR 24971:2020	Medical devices – Guidance on the application of ISO 14971
IEC 82304-1:2016	Health software – Part 1: General requirements for product safety
EN 62304:2006 +A1:2015	Medical device software - Software life-cycle processes CONSOLIDATED EDITION
IEC/TR 80002-1:2009	Medical device software — Part 1: Guidance on the application of ISO 14971 to medical device software
IEC/TR 80002-3:2014	Medical device software — Part 3: Process reference model of medical device software life cycle processes (IEC 62304)
IEC/TR 80002-2:2017	Medical device software — Part 2: Validation of software for medical device quality systems
EN 62366-1:2015 / AMD 1:2020	Medical devices - Application of usability engineering to medical devices – Amendment 1
EN ISO 15223-1:2021	Medical devices - Symbols to be used with information to be supplied by the manufacturer - Part 1: General requirements
EN ISO 12052:2017	Health informatics - Digital imaging and communication in medicine (DICOM) including workflow and data management
EN ISO 14155:2020	Clinical investigation of medical devices for human subjects - Good clinical practice
ISO 20417:2021	Medical devices – Information to be supplied by the manufacturer
ISO 17664-2:2021	Processing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices — Part 2: Non-critical medical devices
IEC 82079-1:2019	Preparation of information for use (instructions for use) of products
ISO 16142-1:2021	Medical devices — Recognized essential principles of safety and performance of medical devices — Part 1: General essential principles and additional specific essential principles for all non-IVD medical devices and guidance on the selection of standards
2017/745	Directive concerning medical devices  Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, Amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC
2021/2226	Commission Implementing Regulation (EU) 2021/2226 on electronic instructions for use of medical devices.
MDCG 2021-13 Rev 1	Questions and answers on obligations and related rules for the registration in EUDAMED of actors other than manufacturers, authorised representatives and importers
MDCG 2021-20	Instructions for generating CIV-ID for MDR Clinical Investigations

MDCG 2021-25	Application of MDR requirements to 'legacy devices' and devices placed on the market prior to 26 May 2021
MDCG 2021-26	Q&A on repackaging & relabelling activities under Article 16
MDCG 2022-4	Guidance on appropriate surveillance regarding the transitional provisions under Article 120 of the MDR with regard to devices covered by certificates according to the MDD or the AIMDD.
GHTF/SG1/N055:2009	Definitions of the Terms Manufacturer, Authorised Representative, Distributor and Importer
GHTF/SG1/N063:2011	Summary Technical Documentation (STED) for Demonstrating conformity to the Essential Principles
MDCG 2020-8	Clinical Investigation and Evaluation: Post-market clinical follow-up (PMCF) Evaluation Report Template. A guide for manufacturers and notified bodies (EC)
MDCG 2020-7	Clinical Investigation and Evaluation: Post-market clinical follow-up (PMCF) Plan Template. A guide for manufacturers and notified bodies (EC)
MDCG 2020-10/1	Clinical Investigation and Evaluation: Safety reporting in clinical investigations of medical devices under the Regulation (EU) 2017/745 (EC)
MDCG 2020-10/2	Clinical Investigation and Evaluation: Clinical Investigation Summary Safety Report Form v1.0 (EC)
MDCG 2020-6	Clinical Investigation and Evaluation: Regulation (EU) 2017/745: Clinical evidence needed for medical devices previously CE marked under Directives 93/42/EEC or 90/385/EEC. A guide for manufacturers and notified bodies (EC)
MDCG 2020-1	Clinical Investigation and Evaluation: Guidance on Clinical Evaluation (MDR) / Performance Evaluation (IVDR) of Medical Device Software (EC)
MDCG 2020-5	Clinical Investigation and Evaluation: Clinical Evaluation – Equivalence. A guide for manufacturers and notified bodies (EC)
IMDRF MDCE WG/N56FINAL:2019 (IMDRF)	Clinical Investigation and Evaluation: Clinical Evaluation
IMDRF MDCE WG/N57FINAL:2019 (IMDRF)	Clinical Investigation and Evaluation: Clinical Investigation
IMDRF MDCE WG/N55 FINAL:2019 (IMDRF)	Clinical Investigation and Evaluation: Clinical Evidence
MDCG 2021-28	Substantial modification of clinical investigation under Medical Device Regulation
MDCG 2021-20	Instructions for generating CIV-ID for MDR Clinical Investigations
MDCG 2021-08	Clinical investigation application/ notification documents
MDCG 2021-6	Regulation (EU) 2017/745 – Questions & Answers regarding clinical investigation
MDCG 2020-13	Clinical evaluation assessment report template
MDCG 2019-11	Software: Guidance on Qualification and Classification of Software in Regulation (EU) 2017/745 – MDR and Regulation (EU) 2017/746 – IVDR (EC)
SaMD WG/N41:2017	Software as a Medical Device (SaMD): Clinical Evaluation
IMDRF/GRRP WG/N52 FINAL:2019 (IMDRF)	Labelling: Principles of Labelling
MDCG 2018-5	UDI: UDI Assignment to Medical Device Software (EC)

MDCG 2018-6	UDI: Clarifications of UDI related responsibilities in relation to Article 16 of the Medical Device Regulation 2017/745 and the In-Vitro Diagnostic Medical Devices Regulation 2017/746 (EC)
MDCG 2018-1 Rev.4	Guidance on basic UDI-DI and changes to UDI-DI
MDCG 2021-12	FAQ on the European Medical Device Nomenclature (EMDN)
MDCG 2021-10	The status of Annexes E-I of IMDRF N48 under the EU regulatory framework for medical devices
MDCG 2021-19	Guidance note integration of the UDI within an organisation's quality management system
MDCG 2021-24	Guidance on classification of medical devices
IMDRF/UDI WG/N48 FINAL: 2019 (IMDRF)	UDI: UDI system
IMDRF/UDI WG/N7 FINAL:2013 (IMDRF)	UDI: UDI Guidance
MDCG 2019-1	MDCG guiding principles for issuing entities rules on basic UDI-DI
MDCG 2021-13 Rev.1	Questions and answers on obligations and related rules for the registration in EUDAMED of actors other than manufacturers, authorised representatives and importers subject to the obligations of Article 31 MDR and Article 28 IVDR
MDCG 2021-1 Rev.1	Guidance on harmonised administrative practices and alternative technical solutions until EUDAMED is fully functional
MDCG 2020-15	MDCG Position Paper on the use of the EUDAMED actor registration module and of the Single Registration Number (SRN) in the Member States
MDCG 2019-5	Registration of legacy devices in EUDAMED
MDCG 2019-4	Timelines for registration of device data elements in EUDAMED
MDCG 2019-9	Summary of safety and clinical performance
MDCG 2019-7	PRRC. Guidance on Article 15 of the Medical Device Regulation (MDR) and in vitro Diagnostic Device Regulation (IVDR) regarding a 'person responsible for regulatory compliance' (PRRC) (EC)
MDCG 2019-16	Guidance on Cybersecurity for medical devices
MDCG 2020-3	Guidance on significant changes regarding the transitional provision under Article 120 of the MDR with regard to devices covered by certificates according to MDD or AIMDD
2014/30/EU	Directive 2014/30/EU, Electromagnetic Compatibility (EMC)
GFTF/SG3/N99-10:2004 (Edition 2)	Quality Management Systems – Process Validation Guidance
MEDDEV 2.12/1 Rev8	Report Form: Field Safety Corrective Action. Medical Devices Vigilance System
MEDDEV 2.12/1 Rev8	Report Form: Manufacturer's Incident Report. Medical Devices Vigilance System
MEDDEV 2.12/1 Rev8	Report Form: Manufacturer's Periodic Summary Report (PSR). Medical Devices Vigilance System
MEDDEV 2.12/1 Rev8	Report Form: Manufacturer's Trend Report. Medical Devices Vigilance System
MEDDEV 2.12/1 Rev8	MEDDEV 2.12-1 rev 8 on a medical devices vigilance system. Additional guidance on MEDDEV 2.12/1 rev 8

0.30.16-PROD	Manufacturer Incident Report (MIR) for Serious Incidents (MDR/IVDR) and Incidents (AIMDD/MDD/IVDD) reporting template version 7.2. Device specific vigilance guidance. New MIR form.
-	Template for a Field Safety Notice
207/2012 of 9 March 2012	Commission regulation on electronic instructions for use of medical devices
21 C.F.R. Part 801	U.S. FDA Medical Device Regulation: 21 C.F.R. Part 801 et seq. (Labeling)
21 C.F.R. Part 803	U.S. FDA Medical Device Regulation: 21 C.F.R. Part 803 (The Medical Device Reporting (MDR))
21 C.F.R. section 814.9.	U.S. FDA MAF Regulation: 21 C.F.R. section 814.9. (Medical Device Master File)
21 C.F.R. section 814.9.	U.S. FDA 510(k) Regulation: 21 C.F.R. section 814.9. (Premarket approval of medical devices)
21 C.F.R. Part 820	U.S. FDA Medical Device Regulation: 21 C.F.R. Part 820 (Quality System regulation)
78 Fed. Reg. 58785, 58785-58828	UDI-GUDID Regulations: 78 Fed. Reg. 58785, 58785-58828 (Unique Device Identification System)
FDA	Overview of Regulatory Requirements: Medical Devices
FDA	Software related documentation: Guidance for the Content of Premarket Submissions for Software Contained in Medical Devices
FDA	General Principles of Software Validation; Final Guidance for Industry and FDA Staff
FDA	FDA guidelines to User Manual
2016/679	General Data Protection Regulation (GDPR; Regulation (EU) 2016/679
IMDRF/CYBER WG/N60FINAL:2020 (IMDRF)	Cybersecurity: Principles and Practices for Medical Device Cybersecurity
45 C. F. R. Part 160, subparts A and E of part 164	45 C.F.R. Part 160 (Public Welfare: The HIPAA Privacy Rule)
45 C. F. R. Part 160, subparts A and C of part 164	45 C.F.R. Part 160 (Public Welfare: The Security Rule)
Guidance on the provisions in the HIPAA Security Rule.1 (45 C.F.R. §§ 164.302 – 318.)	Guidance on Risk Analysis Requirements under the HIPAA Security Rule
-	Guidance on Cybersecurity for Networked Medical Devices Containing Off-the Shelf (OTS) Software
-	Postmarket Management of Cybersecurity in Medical Devices (Contains Nonbinding Recommendations)
-	Content of Premarket Submissions for Management of Cybersecurity in Medical Devices; Guidance for Industry and Food and Drug Administration Staff
2015 m. rugsėjo 17 d. Nr. XII-1938	Biomedicininų tyrimų etikos įstatymas / Biomedical Research Ethics Law
Nr. V-4, suvestinė redakcija 2020-11-13	Įsakymas dėl prašymo išduoti leidimą atlikti biomedicininį tyrimą, paraiškos biomedicininiam tyrimui, biomedicininio tyrimo etinio vertinimo anketos pavyzdinių formų patvirtinimo / Order on the biomedical research forms approval: for of request for permission to implement biomedical research; biomedical research ethical evaluation form.

2017 m. gegužės 5 d. Nr. T1-683	Įsakymas dėl Valstybinės akreditavimo sveikatos priežiūros veiklai tarnybos prie Sveikatos apsaugos ministerijos generalinio direktoriaus 2004 m. rugpjūčio 5 d. įsakymo nr. T1-136 „Dėl pranešimų apie neatitinkančius reikalavimų medicinos prietaisus (budra) pateikimo tvarkos aprašo patvirtinimo“ pakeitimo / Order on the changes in vigilance system
Nr. T1-564, 2016-0412	Įsakymas „Dėl laisvos prekybos pažymėjimų išdavimo medicinos priemonėms (prietaisams) tvarkos aprašo patvirtinimo“ / Order “On Approval of the Description of the Procedure for Issuing Free Trade Certificates for Medical Devices”
Nr. T1-568, 2016-04-13	Dėl teikiamų rinkai medicinos prietaisų registravimo tvarkos aprašo patvirtinimo pakeitimo / Amendment of the approval of the description of the procedure for registration of medical devices placed on the market
2019-01-01 redakcija	<a href="#">LR asmens duomenų teisinės apsaugos įstatymas</a> / Law on Legal Protection of Personal Data of the Republic of Lithuania
1T-63(1.12.E)	<b>Duomenų subjekto teisių įgyvendinimo pavyzdinės taisyklės.</b> 2018-07-09 Valstybinės duomenų apsaugos inspekcijos direktoriaus įsakymas Nr. 1T-63(1.12.E) / Model rules for the exercise of the rights of the data subject. Order of the Director of the State Data Protection Inspectorate on July 9, 2018.
1T-68(1.12.E)	<b>Leidimų perduoti asmens duomenis į trečiąsias valstybes ar tarptautinėms organizacijoms išdavimo tvarkos aprašas.</b> 2018-07-18 Valstybinės duomenų apsaugos inspekcijos direktoriaus įsakymas Nr. 1T-68(1.12.E) / Description of the procedure for the issuance of permits for the transfer of personal data to third countries or international organizations. Order of the Director of the State Data Protection Inspectorate, 2018-07-18.
1T-72(1.12.E)	Pranešimo apie asmens duomenų saugumo pažeidimą pateikimo Valstybinei duomenų apsaugos inspekcijai tvarkos aprašas. 2018-07-27 Valstybinės duomenų apsaugos inspekcijos direktoriaus įsakymas Nr. 1T-72(1.12.E). / Description of the Procedure for Submitting a Report on the Infringement of Personal Data Security to the State Data Protection Inspectorate. July 27, 2018 Order of the Director of the State Data Protection Inspectorate.
1T-73(1.12.E)	Duomenų subjekto teisių gauti informaciją, susipažinti su asmens duomenimis, reikalauti ištaisyti ar ištrinti asmens duomenis ir apriboti jų tvarkymą įgyvendinimo, kai duomenų subjektas šias teises įgyvendina per Valstybinę duomenų apsaugos inspekciją, tvarkos aprašas. 2018-07-30 Valstybinės duomenų apsaugos inspekcijos direktoriaus įsakymas Nr. 1T-73(1.12.E) / A description of the procedure for the data subject's right to receive information, access to personal data, request for the correction or deletion of personal data and the restriction of their processing when the data subject implements these rights through the State Data Protection Inspectorate. Order of the Director of the State Data Protection Inspectorate on July 30, 2018.

## Warnings regarding residual risks

No	Hazard	Warning/ Caution
1	Illegal access / Vulnerability of e-PHI (electronic personal health information)	<p><b>CAUTION!</b> Running MedDream software on shared user's account can lead to unauthorised access to patient's medical data.</p> <p><b>CAUTION!</b> Incorrectly installed software could cause inconvenience to medical professionals using the software and disruption of the medical professional activities.</p> <p><b>CAUTION!</b> Please notice, that closing the program without Log Off (using browser window close 'x' button) is not safe and may lead to unauthorized access to medical data.</p> <p><b>CAUTION!</b> The system does not anonymize the content of shared images and entered message. You take responsibility for sensitive data in shared information.</p> <p><b>CAUTION!</b> The system grants to the guests the access to all the studies, that are opened in host's Viewer window when starting live sharing, and these studies will be displayed in the thumbnail panel of the guests' Viewer window. Opening or closing the studies, while sharing is on, is not supported.</p>
2	Inadequate filtration process	<p><b>CAUTION!</b> Be aware, that access to the storages may be restricted by the user rights. The storages list contains only the storages, that are granted for the user. Searching is performed only in the granted storages, if the <b>All storages</b> option is selected.</p> <p><b>CAUTION!</b> Be aware, that access to the storages may be restricted by the user rights. If search for patient studies is configured in all storages, searching is performed in the storages, that are granted for the user</p>
3	Incorrect configuration	<p><b>CAUTION!</b> Depending on application configuration, in case of corrupted frame the system may either show warning, or ignore the corrupted frame and show the last not corrupted frame instead. Contact your system administrator for system configuration.</p> <p><b>CAUTION!</b> Do not activate multiple profiles for the same video input source. For e.g. added camera to profile A and the same camera to profile B and enabled both of them, to be active in VS application. In this situation, just profile A will start and profile B will fail, because input signal will be busy.</p> <p>It is possible to have A and B profiles active at the same time, if card allows this (for example, play input signal via windows direct show and other via capture card interface, if this exist). However, it does not make any sense to have 2 the same signals recording and it can cause unstable input stream recording process.</p> <p><b>CAUTION!</b> The system shows warning before launching the import of the DICOM files from the external source, if the DICOMDIR file with the directory content is not present in the source media.</p>
4	3rd party libraries / internal components work incorrectly / not available	<p><b>CAUTION!</b> PDF file is opened with default PDF reader. Some Web browsers have built-in readers. In other cases, the additional software for pdf reading and displaying, like Adobe Acrobat Reader, should be deployed in user workplace.</p> <p><b>CAUTION!</b> On Windows OS it is recommended to have at least more than 2GB free space to function properly.</p>
5	Component function missing	<p><b>CAUTION!</b> Export, and Forward functionality may be disabled. Contact the system administrator to verify the configuration, if export or forward is missing.</p> <p><b>CAUTION!</b> Annotations functionality may be disabled. Contact the system administrator to verify the configuration, if annotation functionality is missing.</p>

No	Hazard	Warning/ Caution
6	Software usage problem	<p><b>WARNING!</b> In the event of malfunction of the device or changes in its performance that may affect safety, contact to manufacturer.</p> <p><b>CAUTION!</b> You cannot change the size of particular image that is opened as one of multi images. If the viewport size is changed, the size of multi images is automatically adjusted.</p> <p><b>CAUTION!</b> Note, that MedDream cannot guarantee that the manual series linking displays the images of the same patient and at the corresponding position.</p> <p><b>CAUTION!</b> Until not saved, the created, deleted or edited segments are held in program temporary storage and will be lost, if closing the Viewer or closing the study, that has segmentations with unsaved changes.</p> <p><b>CAUTION!</b> System tries to achieve the requested fps when playing multi-frame. If achieving the requested fps is not possible due to hardware or software limits, some frames may be skipped and not displayed to the user while playing. To see all frames, reduce the fps or use instance by instance navigation.</p> <p><b>CAUTION!</b> The size limits for one attachment file and one-time upload package, that are defined in system configuration, cannot be exceeded.</p> <p><b>WARNING!</b> Software usage not by intended use may cause patient death, potential injury or serious health impairment, requiring professional medical intervention.</p> <p><b>CAUTION!</b> When connecting pedal and keyboard, review SNAPSHOT or PLAY/STOP KEY settings and try to avoid pressing configured keys.</p> <p><b>CAUTION!</b> Please make sure Windows Firewall, Antivirus or other software do not block MedDream SendToPACS communication. It is recommended to turn off all blocking services in the Configuration and testing phase, to be sure that software will not be blocked. Also, it is important to make sure PACS server is not blocking DICOM communication by checking whether the communication is allowed in both sides – MedDream SendToPACS PC and Receiving PC.</p>
7	Image display error or no display / display delay	<p><b>CAUTION!</b> Use the patient's name, dates, anatomical direction and other information, which is displayed in the viewport labels, to ensure that you are viewing the right image.</p> <p><b>CAUTION!</b> Be cautious and ensure, that you are viewing the right place, if working with a zoomed image.</p>
8	Measurements inaccurate	<p><b>WARNING!</b> MedDream cannot guarantee the accuracy of calibration data received from the modality. Note, that MedDream cannot guarantee that the manual calibration which is performed by users is done accurately.</p> <p><b>WARNING!</b> The accuracy of the measurements is affected by the calibration status of the monitor. Monitor calibration ensures that tones that are lighter than black are displayed clearly separately from true black, and tones that are darker than white are clearly distinguished from true white. How to calibrate the monitors is described in the software installation instructions, which are provided separately in this user guide</p> <p><b>WARNING!</b> Note, that measuring functions in MedDream is approximate.</p>
9	Incorrect information: data is missing / corrupted / mixed / missread (including labeling data, if applicable)	<p><b>CAUTION!</b> Be cautious and verify the content before saving annotation. All the measurements and text annotation, including the zoomed outside of the currently viewed area, are saved and shared with other users viewing the study.</p>





## Short product description

MedDream is a HTML based package for PACS server which is designed to aid professionals in every day's decision-making process, connecting all the medical data into a unified and fast performing network. MedDream ensures a fast and reliable way to search, present and analyze the medical data (images and video files) on various devices: computers, smart phones, tablets and so forth. Intuitive user interface, simple, but very powerful software controllable by touchscreen Medical Panel PC. Storing locally more than 125 hours of HD videos and up to 100.000 of still images.

MedDream covers: radiology, cardiology, oncology, gastroenterology and many other fields of medical application. It seamlessly integrates with various medical imaging devices, such as: ultrasound (US), magnetic resonance (MRI), positron emission tomography (PET), computed tomography (CT), endoscopy (ES), mammography (MG), digital radiography (DR), computed radiography (CR), ophthalmology, and so forth.

Core MedDream uses are:

- Replacement of hard copies, e.g. film archives, paper documents, etc.
- Remote access. MedDream provides a possibility to be mobile and work from any place in the world where the Internet is accessible. More than one person can access and view medical records at one time. Such functionality speeds up the collaboration among the professionals. So, that a doctor in the hospital and a doctor that is in the different location may view the medical data and discuss about it simultaneously. The patient's medical history, various studies and images are found much faster comparing to the conventional paper-based methods.
- Multiplanar and 3D reconstruction from series of images 3D perspective together with views in reconstructed planes enables viewing the region of interest from several perspectives, and allows more accurate and faster diagnostic.
- MedDream can be used as a standalone WEB Viewer or integrated into PacsOne PACS, dcm4chee Archive, Conquest PACS, ClearCanvas PACS systems. Moreover, MedDream can be adapted to client's PACS system and easily integrated into RIS/HIS workflow.
- MedDream has multiple functions such as search of studies, viewing, analyzing, saving, exporting, forwarding images and videos, etc.
- High-quality video recording into DICOM by using MPEG2 and MPEG-4 AVC/H.264 compression.
- Record/take multiple low and high (full HD) quality video/snapshots during the surgery or other procedures.
- Live stream video during the procedure.
- Record, stream, play video and take snapshots at the same time.
- Record video/take images from multiple connected devices (special video card needed).
- Flexible patient data assignment: selecting already existing patient, manually entering the patient details or selecting from hospital DICOM worklist server.
- Possibility to start a new study recording, while other video/snapshots is in progress for saving to DICOM or sending to DICOM archive.
- Review medical images/video during the surgery or other procedures.
- Trim the recorded video.
- Recorded studies can be stored locally, sent to the hospital DICOM archive (PACS) or exported to other storage devices.
- Image to DICOM feature. Convert BMP, PNG, TIF, JPG images and send to PACS.
- Video to DICOM feature. Convert AVI, MPG, MPEG, WMV, MOV, MP4, H264, MKV, FLV video files and send to PACS.
- Possibility to update patient information in DICOM files before sending to PACS.
- Possibility to add additional information field (additional custom DICOM tag) to image.
- Possibility to configure only Worklist usage for Non-DICOM studies.
- Possibility to configure Institution name (tag (0008,0080)) and Station name (tag (0008,1010)) and use it in DICOM files.

- Detailed information about files to be converted: image preview, image info view, DICOM info and DICOM tags view, DICOM pixel data extraction.
- Archive file's support. Automatically extract archive: ZIP. Supports 7z, ISO archives, but requires install 7-Zip software.
- Automatic DICOM files recognition (exclude DICOMDIR and unknown files).
- Supported patient information: patient ID, full patient name (alphabetic, ideographic and phonetic), birthdate and sex.
- Supported study information: study UID, study ID, date, time, accession number, description, series number, modality and character set.
- Possibility to specify character encoding: supported all extended character sets defined in the DICOM standard.
- Allows append existing study with new files (select study and patient information from scanned DICOM files).
- Supports Modality Worklist Information (C-FIND), Query/Retrieve Information, Verification (Echo).
- Support Drag and Drop interface.
- Querying patient information from HIS using external API (HTTP request).
- Possibility to initiate actions from other app by using REST API: Modality Worklist search, non-DICOM convert to DICOM, send to PACS.
- Windows explorer context menu (right mouse button) support.
- File conversion and forward process logs.
- Supporting Enterprise license.
- View saved images/videos with Viewer.

## Product customization

Customizing the MedDream software allows providing the required set of functionalities to the system user:

- MedDream Viewing functionalities;
- MedDream Video viewing and converting functionalities;
- MedDream PACS functionalities;
- MedDream SendToPACS functionalities.

System appearance, and availability of tools may be also customized by changing the settings. See the detail functionalities description and description of Settings in annexes of this document.

## Product labeling

The information about the product is provided to the system user in the About window:

- Contacts of product distributor.
- Licensing information: organization that owns the license of current product installation, and dates, until the current license is valid and will receive updates.
- Product information: product name, product version, release date.
- Unique Device Identifier.
- Certification information: Medical device class, ID of the notified body, and FDA cleared mark.
- Contacts of product manufacturer.
- Certification bodies designated agents contacts are available in REP (representatives) tab.

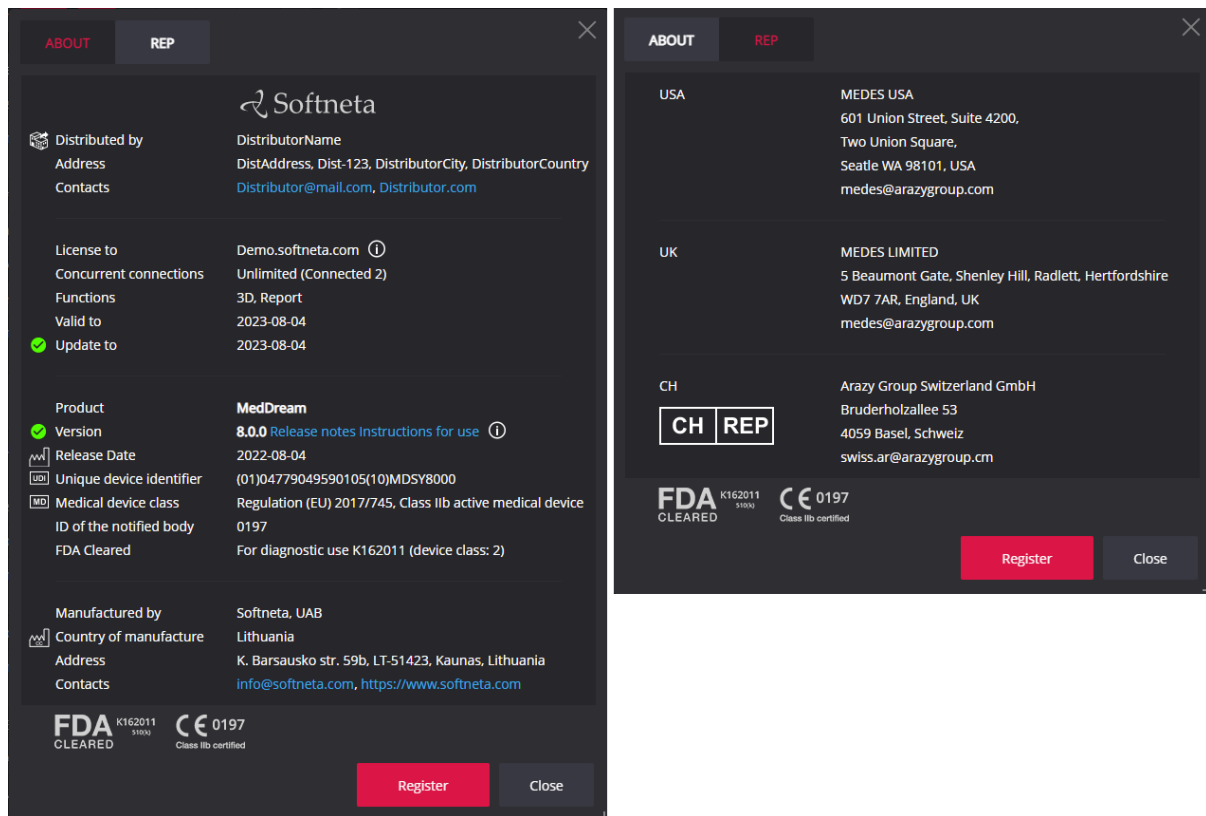


Figure 1. Product labeling

See the detail description of About window and how to access it in annex of the particular functionalities.

## License agreement and registration



**NOTE!** License registration is required for legal software use.

The access to the Software License Agreement (EULA) and license registration is provided to the end user in the system. To register the license or license update, the user should do the following:

- apply for the license and receive the valid license number from system administrator or system provider,
- read the Software License Agreement and agree with it,
- enter the license information and register license.

See the detail description of license registration steps in annexes of this document.



**NOTE!** The internet connection and access to license server should be ensured for successful license registration.

## Access to user documentation

The user manual user is available in MedDream under the Help menu. See the detail description how to access Help menu in annexes of this document.

An electronic version of MedDream User Manual in Lithuanian and English is free and available on the Softneta UAB website <https://www.softneta.com/documentation/user-guide/user-introduction>.

## Product installation

The requirements for MedDream server, detail instructions, how to install MedDream and verify the MedDream functioning after system installation or restart, are provided in Install Manual.

Current section provides the requirements for user workplace and instructions for verifying, that the user can access MedDream functionalities from his workplace.

An electronic version of MedDream for installation manual is freely available on the Softneta UAB website <https://www.softneta.com/documentation/installation-integration-guide/installation-introduction>.

## Minimal client side requirements

### MedDream viewing functionalities

The table describes the requirements for computer, that uses MedDream viewing functionalities from remote MedDream server through the internet:

Parameter	Requirements
<b>Desktop Web HTML5</b>	
Operating system	Windows 10 (32/64 bit), Mac OS X 10.9+
Web Browsers	Chrome 100+, Firefox 100+, Safari 14+, Microsoft Edge 100+
CPU	Modern x86/x64 Consumer CPU (5th generation Intel i3 2 core CPU or better)
RAM*	4+ GB of RAM, 256+ MB of VRAM
HDD	10 GB
Network Bandwidth**	>=2 Mbit/s for X-Ray, >=8 Mbit/s for CT, MRI
<b>Mobile iOS Web</b>	
Operating system	iOS 9+
Web Browsers	iOS 9+ Safari, Chrome
CPU	iPhone 6+, iPad Air+
RAM*	1 GB
HDD	2 GB
Network Bandwidth**	>=1 Mbit/s for X-Ray, >= 4 Mbit/s for CT, MRI
<b>Mobile Android Web</b>	
Operating system	Android 6+
Web Browsers	Android 6+ Chrome
CPU	ARMv7 processor with vector FPU, minimum 550MHz, OpenGL ES 2.0, H.264 and AAC HW decoders
RAM*	1 GB
HDD	2 GB
Network Bandwidth**	>=1 Mbit/s for X-Ray, >= 4 Mbit/s for CT, MRI

\* for CT, MRI, PET-CT client side MPR/MIP rendering:

- 64bit CPU and 64 bit operating system;
- Graphic board with >=1 GB video memory;
- 8 GB of RAM to open more than 800 images;
- 12 GB of RAM to open more than 1500 images;

- 16 GB of RAM to open more than 3000 images (cardiac or functional imaging, MG Tomosynthesis).

\* for MG Mammography:

- 64-bit CPU and 64 bit operating system;
- Graphic board with  $\geq 1$  GB video memory;
- 12 GB of RAM.

\* for MG Tomosynthesis:

- 64-bit CPU and 64 bit operating system;
- Graphic board with  $\geq 1$  GB video memory;
- 16 GB of RAM.

\*\*Network bandwidth will directly affect image open speed.



**NOTE!** Hardware acceleration should be enabled in web browser for better performance.



**NOTE!** The MedDream viewing functionalities server system requirements are detailed in the Install Manual of the MedDream viewing functionalities.

## MedDream video viewing and converting functionalities

The table describes the requirements for computer with locally installed MedDream video viewing and converting functionalities:

Parameter	Requirements
Processor	Intel® Core™ i5 or i7 When using FHD streaming, recording and playing at the same time: 4 threads, 4 GHz or 8 threads, 1.8 GHz.  Using intel media SDK (reduce CPU consumption), requires 3rd Generation (or later) Intel® Core™, selected Intel® Celeron™, Intel® Pentium™ and Intel® Atom® processors with integrated graphics supporting Intel® Quick Sync Video
Memory	4 GB RAM
Hard drive	SDD 500 GB (SATA) depends on usage workflow, can be $\geq 256$ , GB, ~7 days requires 56 GB
Onboard graphics	Intel® HD Graphics
Network Interface	1000 Mbit/s
Screen resolution	1920x1080 pixels (lower resolution not supported)
Supports following operating systems	Windows 10 or higher (32 and 64 bit)



**NOTE!** We recommend upgrade PC or reduce video quality, if it does no match minimal requirements for recording, playing and streaming at the same time.

If you faced with such a problem, please contact Softneta UAB Customer support – e-mail [support@softneta.com](mailto:support@softneta.com) and we will help you resolve it.

## SendToPasc functionalities

Parameter	Requirements
Processor	1 gigahertz (GHz) or faster with support for PAE, NX, and SSE2 (more info)
Memory	256 megabyte (MB) (32-bit) or 512 MB (64-bit)
Hard drive	1 GB
Supports following operating systems	Windows 10 or higher (32-bit or 64-bit)
Windows Firewall	Windows Firewall must be configured to allow software communication with other systems (see MedDream SendToPACS Configuration).

## PACS functionalities

Parameter	Requirements
Processor	3 gigahertz (GHz) or faster
Memory	3 GB or more
Hard drive	20 GB or more
Network Interface	Network bandwidth is not less than 4 Mbit/s
Supports following operating systems and databases	Windows 10 or later (32-bit or 64-bit) Windows 2012 server or later Linux kernel version 2.6.32 or later MySQL Server 8.0 or later

## Installation verification

Section provides short check list for verifying, that the user can access MedDream functionalities from his workplace, view studies and use MedDream tools, required for daily operations.

### MedDream viewing functionalities

To verify the MedDream viewing functionalities, perform the following steps:

- Open study in MedDream.
- Use your usual way to connect to MedDream service and open the MedDream Viewing functionalities: execute the known valid study open URL, or login with your credentials and select the study in MedDream search window.
- If you usually are working with studies from several network storages, try opening studies from all the used network places.
- Check, that study is correctly opened: thumbnails are displayed instead of exclamation marks, the chosen images opens as well.
- Check the Viewer toolbar for the opened image: make sure, that you usually used tools are displayed in common place and accessible.
- Verify the working of functions and tools, that are critical to you daily operations (like measuring, patient history, zoom, pan).

### MedDream video viewing and converting functionalities

To verify the MedDream Video viewing and converting functionalities, perform the following steps:

- Use your usual way to connect to MedDream and open MedDream Video viewing functionalities: execute the app, video source should be connected to PC;

- Check the video signal in view window. If no signal is displayed, try to refresh signal, otherwise check the chapter „Recording settings“ in Annex II MedDream video viewing and converting functionalities;
- Try to create a new patient, or Try to select patient from worklist – if worklist is available, check configuration chapter „Selecting patient from DICOM modality worklist“ in Annex II MedDream video viewing and converting functionalities;
- After patient is created or selected from worklist try to record video. If having problem, check chapter „Recording settings“ in Annex II MedDream video viewing and converting functionalities, otherwise contact system administrator or [support@softenta.com](mailto:support@softenta.com)

## MedDream PACS functionalities

To verify the MedDream PACS functionalities, perform the following steps:

- Use your usual way to connect to MedDream service and open the MedDream PACS functionalities.
- Find the study in the way you're regularly using:
  - Use unread studies page;
  - Browse the patients list and open the patient's studies list;
  - Open search page, enter search criteria and find the study.
- Open the series page for the selected study.
- Check, if you are able to perform functions, you're regularly using. The functions to think about:
  - Export studies;
  - Import studies;
  - Modify studies content.

## MedDream SentToPacs functionalities

To verify MedDream SentToPACS functionalities, perform the following steps:

- Test non-DICOM file image converting and sending workflow:
  - Add one or more files to the files list. Use all the file types you regularly are working with;
  - Enter the DICOM info for non-DICOM files;
  - Select DICOM device;
  - Initiate converting and sending;
  - Check, that files are converted to DICOM and sent to the device, using the MedDream PACS functionalities or MedDream viewing functionalities.
- Repeat the non-DICOM file image sending workflow with all the DICOM devices you are regularly using.
- Test patient search in the Worklist workflow, if you are using these functions:
  - Select search in the non-DICOM files info window,
  - Enter or modify the search criteria to search specific patient. For testing purpose, use least specific criteria to see all patients available, like check ALL Modalities checkbox, uncheck Date checkbox, or search only by date;
  - select Worklist device from drop down list;
  - Press "Search" button to search in the Worklist server database;

- Select the patient from the results list, and press "OK" to close Patient Search window. Check, if the selected patient's data is inserted into corresponding Patient and Study information fields of the NON-DICOM files info window.
- Repeat the patient search in the Worklist workflow with all the Worklist devices you are regularly using.



## Product integration

MedDream can be used as a standalone WEB Viewer application as well as an URL-integrated WEB Viewer in other Integrating IS, such as PACS system, Radiology information system (RIS), or Hospital information system (HIS).

An electronic version of MedDream for integration manual is freely available on the Softneta UAB website <https://www.softneta.com/documentation/installation-integration-guide/installation-introduction>.

## IT security measures

The “Security considerations” section in the Install Manuals of the particular MedDream functionalities provides detail recommendations, how to install and configure the MedDream Viewing functionalities, MedDream Video viewing and converting functionalities, MedDream PACS functionalities, and MedDream SendToPACS functionalities in order to ensure the system security.

Current section describes actions, that should be taken by MedDream user, in order to secure his workplace and user’s account against unauthorized access:

- It is highly recommended to run MedDream only from the devices and accounts, that are authorized for the user by company’s security policy. Company’s security policy should ensure:
  - that work network and user’s workplace is secure – servers and workplaces have on time security patches and updates,
  - that user’s workplace is free of viruses - required antivirus software is installed and run regularly,
  - that no extra peripheral devices are connected to the user’s workspace except the necessary for work,
  - that company’s network is protected with firewalls and other protection means.



**CAUTION!** Running MedDream software on shared user’s account can lead to unauthorised access to patient’s medical data.

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- It is recommended to use the browser, that is authorized according company’s security policy, and is compatible with MedDream software:
  - If company’s security policy does not give recommendation for browser, we would recommend considering the Google Chrome or Mozilla Firefox as the most secure browser alternatives in the market at the moment while is up to date with latest security patches.
  - Browser should be configured to clear all data when closed, to prevent the data leak from work space data traces.
- The authentication is required for MedDream software. However, the authentication ways may vary. If you are using login and password authentication, keep the password safe from unauthorized access:
  - before entering user name and password, check that URL address is correct and secure (https);
  - don’t use short and simple passwords (12-16 symbols minimum). If system administrator didn’t gave you secure password, ask for it;
  - do not expose the password to other persons;
  - do not allow the browser to save the password;

- if you forgot your password, got the wrong password messages, or there is a chance that password can be compromised, stolen or publicly accessible, contact your system administrator to change the password as soon as possible.
- Use MedDream log off function, after finishing your work and before closing browser window. Closing the program without Log Off (using browser window close 'x' button) is not safe and may lead to unauthorized access to medical data. It is recommended after log out of MedDream to close browser completely, not only tab, but all browser window in order to clear browser data in memory



**NOTE!** Note for user, that share the computer and user's account. MedDream is designed with "zero footprint" concept, meaning that no patient data is left on a client machine: after the end user logs out from MedDream, its cache does not contain any server responses with patient data. However, there are known browser's security bug's, that allows to extract potentially sensitive data from browser's memory cache after the user logs out and doesn't close the entire browser application. Therefore, it is recommended to also close the entire browser (not just a particular tab or one of the windows) after logout.

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- Contact your system administrator as soon as possible in case of unusual, malicious and suspicious behaviour of software:
  - if there is any suspicions that work station can be compromised (computer miss behaving, have malware or popping random windows out of nowhere, being slower than usually), accessed by unknown person directly/remotely or stolen;
  - if connection to MedDream looks insecure or address mismatch the one, that was given to you by your system administrator;
  - if some strange text messages, studies or links started to appear in MedDream viewer, buttons and shortcuts opens suspicious pages;
  - if MedDream viewer not opens, returns errors like "Page not found" or "Unable to connect", or loading time increased significantly;
  - if downloaded study files being alerted as infected or viruses. Files, downloaded from MedDream export functionality, can be checked with VirusTotal. Contact your system administrator if you need to install or update the VirusTotal software, which can be obtained from <https://www.virustotal.com/> .

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## MedDream functionalities: list of annexes

The section provides list of annexes, that describe in details usage and configuration of MedDream functionalities.

- Annex I: MedDream viewing functionalities;
- Annex II: MedDream video viewing and converting functionalities;
- Annex III: MedDream PACS functionalities;
- Annex IV: MedDream SendToPACS functionalities.

See each annex in a separate document.

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