

**DIAGNOSTIC IMAGING IT** 

# MEDICAL IMAGES & DOCUMENTS AT YOUR FINGERTIP. ANYTIME. ANYWHERE.

FAST AND EASY ACCESS TO IMAGES FROM DIFFERENT DEPARTMENTS



#### DeepUnity Viewer

## **TABLE OF CONTENTS**

CONTEXT A DIAGNOSTIC, MULTIDISCIPLINARY VIEWER FOR THE WHOLE INSTITUTION	5
NEEDS FACING CHALLENGES	7
SOLUTION BRINGING TO LIGHT: A WEB-BASED UNIVERSAL VIEWING SYSTEM	0
TOGETHER WE BUILD YOUR ENTERPRISE CONTENT STRATEGY	9 11
ENHANCED CAPABILITIES FOR RADIOLOGY	13
LET'S DISCOVER THE POSSIBILITIES OF THE PATHOLOGY EXTENSION	15
ENHANCED CAPABILITIES FOR CARDIOLOGY	19
VALUE UNIVERSAL VIEWING	21
YOUR BENEFITS	23



#### CONTEXT



## A DIAGNOSTIC, MULTIDISCIPLINARY VIEWER FOR THE WHOLE INSTITUTION

Enterprise imaging is getting more important for healthcare institutions to allocate resources, to help cross-departmental collaboration and to guarantee an improvement in the daily workflow.

We believe in the benefits that an enterprise imaging approach can offer you and your patients by facilitating faster diagnosis.

That's why we worked on an easy to access web-based, diagnostic viewing system for accessing images and documents at any place within your hospitals.

**DeepUnity Viewer\*** is a critical component of the enterprise imaging approach. Hospitals can use it to streamline workflows, save time and resources.



\*DeepUnity Viewer is undergoing the process for being certified as a medical device. Market availability depends on the country. Please get in contact with us or your local Dedalus sales contact



## **FACING CHALLENGES**

Usually there are different solutions for accessing images and patient related documents in each hospital department.

Challenges are:

### **Different solutions**

Physicians need to use various applications for different medical specialties to get the overall view of the patient

#### **Stationary Access**

Specialized workstations tie medical staff down to a locality and take away freedom of workplace choice

### Accessing archives & modalities

Data stored in divergent DeepUnity archives often cannot be accessed at once and viewed together at the same time; as it is similar with modalities

#### SOLUTION



## **BRINGING TO LIGHT: A WEB-BASED UNIVERSAL VIEWING SYSTEM**

DeepUnity Viewer is designed to ensure unified access to all medical data.

DeepUnity Viewer offers:

### **One Viewing solution**

Bringing examinations, medical documents and images from different specialties together in a universal solution



Due to a web-based interface healthcare professionals can easily access images and documents remotely. DeepUnity Viewer is designed as a "location agnostic" application that allows access to medical data from anywhere

Always available data

One application offering uniform access to patient data from different DeepUnity archives and modalities

## **TOGETHER WE BUILD YOUR ENTERPRISE CONTENT STRATEGY**



### **Cutting edge technology**

DeepUnity Viewer is built on a state-of-the-art platform technology that offers automated deployment processes and high availability of DeepUnity applications

#### **Clinical-wide access**

Accessing medical content via web-application – secure and fast.

#### All in one application

Images and documents directly accessible

#### **Export or printouts**

Direct export or printouts of the screen as JPG - Printing out annotated images

#### Annotation of images

Insert annotations directly into the image

#### Multidisciplinary approach

Images from different specialities



## **ENHANCED CAPABILITIES FOR RADIOLOGY**

#### Radiology



- Multi-modality support
- Linking of multiple series for easy navigation
- Multiplanar reconstruction:
  - Axial, sagittal and coronal 2D views
  - 3D volume rendering
  - Linked navigation of multiple MPRs within and across studies

- Support of key images and presentation states
- Multiple measurement and annotation tools
- Cine mode



## LET'S DISCOVER THE POSSIBILITIES OF THE PATHOLOGY EXTENSION





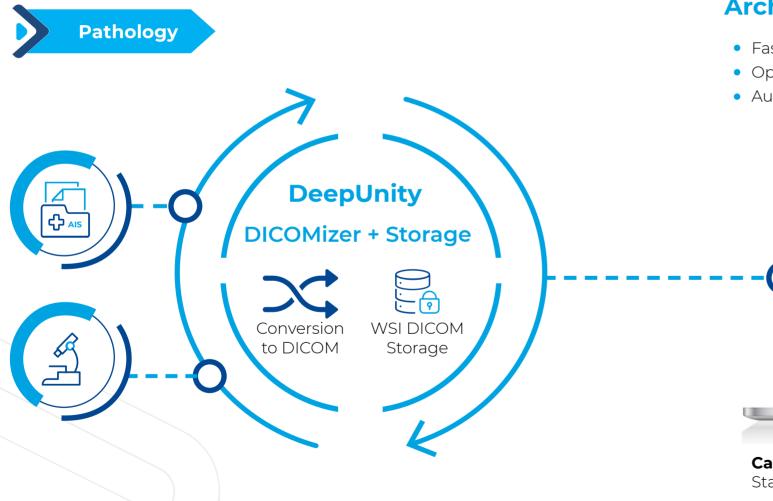
- Annotation tools & counting tool
- Synchronization of two slides
- DICOMization of slides

Patient context:

Populate images with patient information to always guarantee patient context

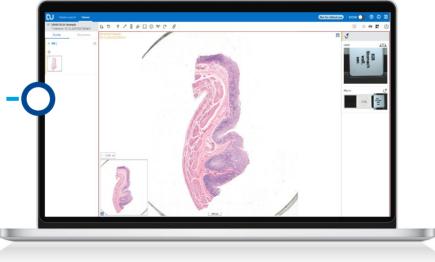


## LET'S DISCOVER THE POSSIBILITIES OF THE PATHOLOGY EXTENSION



### **Archiving Highlights**

- Fast, robust and scalable archiving
- Open standard communication (FHIR/HL7) and multi-tiered storage
- Automatically DICOMization of slides



**Can be used with the majority of scanners:** Staying independent from WSI Scanners



## **ENHANCED CAPABILITIES FOR CARDIOLOGY**

### Cardiology

Anan 0535724886509343  Unizowan ID: 0515734886509343	0.0 ¥ 0-		8 P
Studies Disconnects	NONCOSST 244640(2954) NO.0535(2446400444)	CCG_REST	
* 8001800,8857 (8) 12/18/2022 104 RM		Minist lists per minutes Ministeriut GRS Durellem CT Interval	Si bpm Si bpm 144 ers 35 ers 790 ers
RC0,457 ~ 800   800,8857 12/18/2022 10.42.4M		QTe internal P Aris: QRS Aris T Aris:	300 ms -5 deg 34 deg 3 deg
-)}			
> 8081800,REST (8) 12/19/2022 10:15 AM	1 martinesses 10 martinesses and a day hand and a share and a day hand a share	CG_REST 12/75/2022.2	15 AM
> ECG   ECG REST (8) 12/19/0022, 937 AM	and the second s	minuta: Milintervalt 164 ORS Duration: 96 OT Intonalt 335	102 bpm 164 ms 36 ms 335 ms 386 ms
> 605   605 REST (8) 12/15/0522, 721 AM	to a start of the	P Auto CRS Auto T Auto	76 deg -22 deg 50 deg
✓ ECO.] ECO., HET 12/13/2022, 650 AM	A making A marking A marking	10	

- Support of 12-lead, 15-lead and 18-lead ECGs
- Presentation of all leads in one view
- Multiple layouts
- Supports majority of ECG vendors
- Caliper tool to measure ECG
  intervals

Display of up to four different ECGs for easy comparison Cine functionality to animate blood flow and other cardiovascular processes in real time



## **UNIVERSAL VIEWING**

### **IT Infrastructure**

Accessing archives due to standard communication with HI7 and FHIR



Secure authentication

### **Image & Document Sharing Possibilities**



Fast sharing of images and results

Improvement of institutionalwide collaboration

### **Better User Experience**



Images from multiple medical specialities accessible in a single viewer

### **Pathology Workflow Improvement**



Ability to populate images with patient information to always guarantee patient context

### **Remote Work**



Higher comfort through the possibility to work from home

Acces anywhere at anytime within your institution



Secure access to medical content

### **Unified Access**



Supports a multidisciplinary approach. Special tools for Radiology, Pathology and Cardiology

Images and documents accessible from one system



VALUE



## YOUR BENEFITS





#### FROM A BUSINESS PERSPECTIVE

- **Partner approach:** We help you in setting up an enterprise imaging strategy
- Improve institutional-wide collaboration through fast web-based image and document accessing
- Only **one system** needed for a multidisciplinary approach
- State-of-the-art platform technology to reduce IT maintenance and higher application availability

#### FROM AN IT PERSPECTIVE

- Zero footprint **web-based** application
- Seamless interoperability with your IT landscape
- Images from multiple medical disciplines in one single viewer
- Scalable and multi-tiered archiving solutions complement the offer
- Benefit from DeepUnity Platform: Automatic deployments and parallel operation of multiple software instances enable fail-safe and simplified deployment of new releases, saving time and costs



#### **FROM A USER PERSPECTIVE**

- Enable the possibility for remote work
- Web-access everywhere in your institution, any time
- Quick access of medical content within your institution
- Less time for accessing patient related medical data
- Measuring Tools included



#### ABOUT DEDALUS

Dedalus Group is the leading healthcare and diagnostic software provider in Europe, supporting the digital transformation of 6300 hospitals and 5700 Laboratories worldwide, processing its solutions for more than 540 millions of population worldwide. Dedalus supports the whole continuum of care, offering open standards-based solutions serving each actor of the Healthcare Ecosystem to provide better care in a healthier planet.

Life flows through our software.

For more information, visit www.dedalus.com

www.dedalus.com